





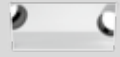


Volume **18**

DE Deutsch
EN English





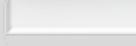


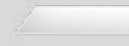


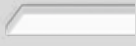
							
SASSO ↻ 24	SASSO ↻ 28 new	KARO ↻ 52	INVISIBLE ↻ 66	BUBBLE ↻ 88	CAVO ROUND ↻ 100 new	CAVO SQUARE ↻ 100 new	MOVE IT ↻ 106

						
SONO FLEX ↻ 154	COMBO ↻ 158 new	MENO ↻ 162	BUBBLE ↻ 176	TRAPEZ ↻ 182	LENO ↻ 186 new	LENO GRID ↻ 198 new



BO 55
↻ 240 **new**

								
TASK ↻ 272 new	SONO ↻ 280	VELA EVO ↻ 286 new	CIRO ↻ 306	HELIOS ↻ 314	SONIC ↻ 318	BASO / MINO ↻ 334 new	LENO ↻ 358 new	LITO ↻ 366



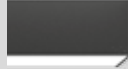

								
MOVE IT 25 ↻ 436	CAVO ↻ 458 new	BASO ↻ 466 new	CANYON ↻ 480	FRAME ↻ 486	MINIMAL ↻ 494	MINO ↻ 506 new	TASK ↻ 550 new	LENO ↻ 558 new



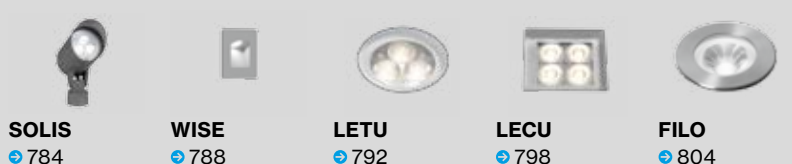
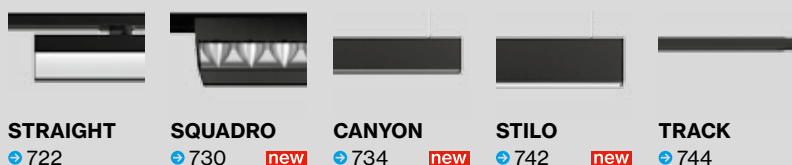
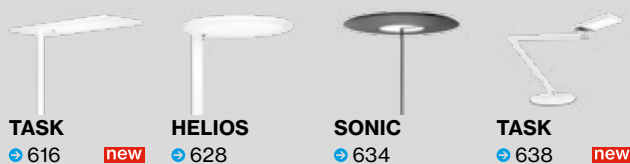
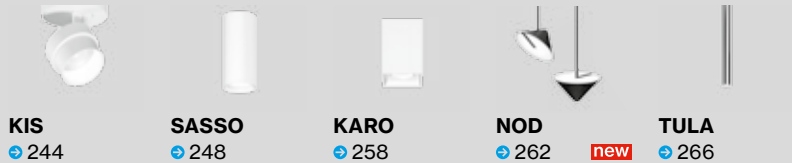
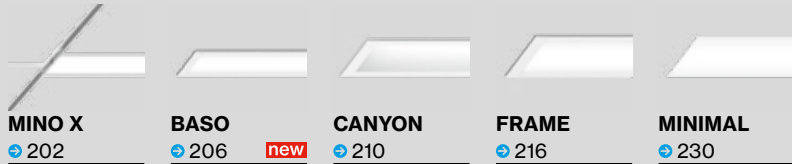

TASK
↻ 644 **new**

CORNER
↻ 648

						
BO ↻ 678 new	TIMO ↻ 690	KIS ↻ 698	ARGO ↻ 702	PABLO ↻ 706 new	VARO ↻ 714 new	STUDIO ↻ 718

				
SONO ↻ 748	FRAME ↻ 760	MINO ↻ 764	STREAMCUT ↻ 768	DOC ↻ 780

INHALT CONTENTS



01

EINBAUSTRALER / DOWNLIGHTS
RECESSED SPOTLIGHTS / DOWNLIGHTS

02

EINBAULEUCHTEN / WALLWASHER
RECESSED LUMINAIRES / WALLWASHER

03

ANBAU- / PENDELSTRALER
SURFACE-MOUNTED AND SUSPENDED SPOTLIGHTS

04

ANBAU- / PENDELLEUCHTEN
SURFACE-MOUNTED AND SUSPENDED LUMINAIRES

05

MODULARE PROFILLEUCHTENSYSTEME
MODULAR PROFILE LIGHTING SYSTEMS

06

STEH- / TISCHLEUCHTEN
FREE-STANDING LUMINAIRES

07

WANDANBAU- / WANDEINBAULEUCHTEN
WALL-MOUNTED / RECESSED WALL LUMINAIRES

08

STRALER UND STROMSCHIENEN
TRACK LIGHTS AND TRACKS

09

AUSSEN- UND BODENEINBAULEUCHTEN
OUTDOOR AND RECESSED FLOOR LUMINAIRES

10

TECHNISCHE INFORMATIONEN
TECHNICAL INFORMATION

INDEX

See the light

DE Unsere Leidenschaft gilt der Faszination Licht. Wir entwickeln seit dreißig Jahren gemeinsam mit Architekten, Bauherren und Lichtdesignern unablässig Ideen, wie das Medium Licht in all seiner Vielfältigkeit optimal eingesetzt werden kann, um den Vorstellungen der Planer und den Bedürfnissen der Anwender bestmöglich gerecht zu werden. Funktion, Ästhetik und Technologie sind dabei seit jeher jene Stellgrößen, durch die wir unsere Lichtlösungen zu etwas Besonderem machen. Besonders ist eine Lösung für uns dann, wenn innovative Technologien, zeitloses Design und höchste Verarbeitungsqualität zu Langlebigkeit, Nachhaltigkeit und hoher Anwenderzufriedenheit führen. Überzeugen Sie sich selbst. See the light.

EN Our passion is driven by our fascination with light. For more than thirty years, we have worked together with architects, builders and lighting designers, relentlessly developing concepts to enable designers and end users to make architectural light better and more beautiful. Function, aesthetics and technology have always been the key factors that make our lighting solutions distinctive. To us, a great lighting solution combines advanced technology with timeless design, and the long-lasting products. That way, we deliver sustainable, long-life products that delight our customers. Take a look for yourself. See the light.

DE Seit 2009 entwickelt das niederländische Künstlerkollektiv PIPS:lab Fotokunst für XAL. Das Konzept verbindet das Thema Licht mit den Themen Raum und Architektur.

EN The Dutch artist collective PIPS:lab has been developing photographic art for XAL since 2009. The concept combines the themes of light, space and architecture.





30 Years of innovation

DE XAL entwickelt seit 1989 hochwertige Lichtlösungen und hat seither eine Reihe von Trends maßgeblich beeinflusst: Wir haben 2002 randlose Einbauleuchten vorgestellt, haben 2004 Profilleuchten und Profilsysteme auf den Markt gebracht und im gleichen Jahr unsere Rundleuchten-Ikone VELA gelauncht. Die wesentlichste technologische Entscheidung jedoch war, bereits 2003 LED-Leuchten ins Produktprogramm aufzunehmen. Mit der LED-Erfahrung von rund eineinhalb Jahrzehnten entwickeln und bauen wir heute Leuchten, die nicht nur bei Kunden und Lichtdesignern Anklang finden, sondern auch bei Fachleuten und Mitbewerbern Anerkennung finden und in schöner Regelmäßigkeit mit einer Vielzahl von Designpreisen ausgezeichnet werden.

EN XAL has been developing high-quality lighting solutions since 1989. Innovative concepts that have defined and shaped many lighting industry trends. In 2002, we introduced trimless recessed luminaires. We launched our first profile lighting systems in 2004, and that same year we presented our iconic VELA round luminaires. However, the most significant technology decision was to create a portfolio of LED luminaires as early as in 2003. Building further on 15 years of experience with LED lighting, today we develop and produce luminaires that are not only appreciated by end-users and lighting designers, but luminaires which are equally recognized by experts and industry peers with an array of design prizes.

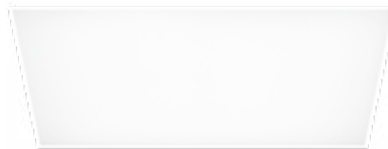
2002

TRIMLESS LUMINAIRES

sasso / invisible / meno

DE XAL eliminiert den bis dahin selbstverständlichen umlaufenden Rand bei Einbauleuchten.

EN XAL eliminates the previously standard wrap-around edge for recessed luminaires.



2004

FLOATING LIGHT

vela 300 / 450 / 650 / 950 / 1250

DE Der Trend geht zu großen, schwebend erscheinenden Rundleuchten. XAL bringt die VELA-Serie auf den Markt. Die großen, schwebenden Leuchtscheiben dominieren Foyers, Galerien und Aulas. Bis heute erreichen nur wenige Hersteller eine so homogene Ausleuchtung.

EN The trend moves towards large, floating, round luminaires, and XAL introduces VELA. The large floating disks of light dominate foyers, galleries and auditoriums. To date, few manufacturers have been able to achieve such uniform luminance.



2008

LED LUMINAIRES

vela / meno / combo / profiles

DE Als viele die LED noch als Spielerei abtun, bauen wir bereits die erste professionelle architektonische Beleuchtung mit LED-Technik.

EN While many put LED technology aside as a gimmick, we were already producing the first professional LED architectural lighting.



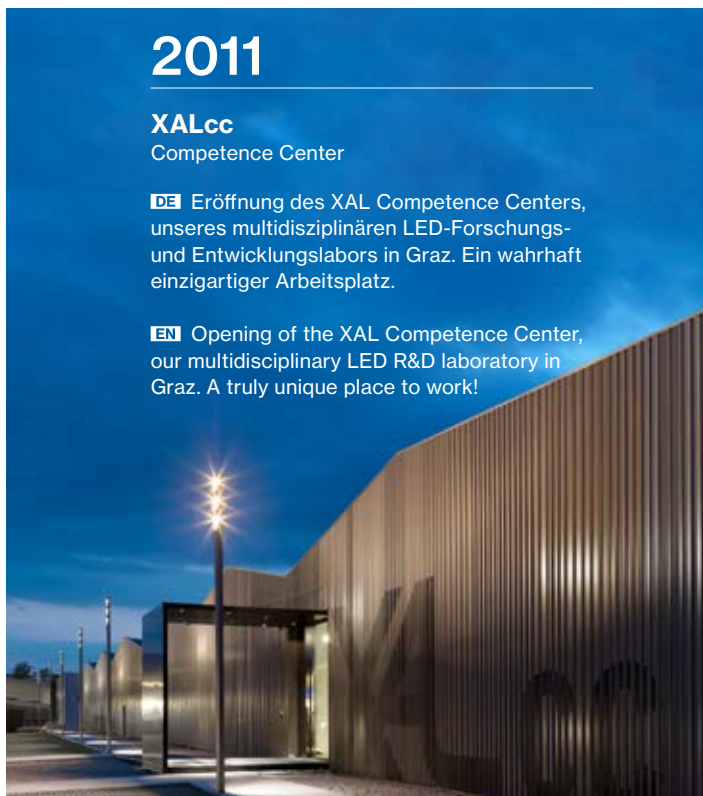
2011

XALcc

Competence Center

DE Eröffnung des XAL Competence Centers, unseres multidisziplinären LED-Forschungs- und Entwicklungslabors in Graz. Ein wahrhaft einzigartiger Arbeitsplatz.

EN Opening of the XAL Competence Center, our multidisciplinary LED R&D laboratory in Graz. A truly unique place to work!



2012

MAGNETIC TRACK SYSTEM

move it system

DE Die werkzeuglose Magnetbefestigung von verschiedenen Spot- und Lichtinsets erlaubt flexible Kombinationsmöglichkeiten. Die „Move it“-Serie ermöglicht maßgeschneiderte Beleuchtung für jedermann.

EN The tool-free magnetic fixing of various spotlights and inset light fittings creates countless combinations. Move it has made truly tailored lighting accessible to all.



2017

XAL BCL

Barcelona Creative Lab

DE In der Design-Hauptstadt Europas eröffnen wir den XAL-Think-Tank der zukünftigen Innovationen.

EN In the design capital of Europe, we opened our XAL Creative Lab for Future Innovations.

The world of XAL

DE Unsere Leidenschaft für das Thema Licht hat uns schon sehr früh mit vielen internationalen Größen aus Architektur und Design zusammengebracht. Aus diesem internationalen Austausch entwickelte sich jene Internationalität, die XAL heute prägt und die uns veranlasst hat, auf drei Kontinenten Leuchten zu entwickeln, zu bauen und unseren Kunden weltweit zu liefern.

EN From the earliest days, our passion for light has brought us together with many renowned names in architecture and design. Inspired by this exchange of ideas, XAL has developed a truly global attitude. A culture that is the hallmark of XAL today, and enables us to develop and produce luminaires across three continents, to supply them to our customers anywhere in the world.

DEVELOPMENT SITES / PRODUCTION SITES

1 Graz, Austria

DEVELOPMENT SITE / PRODUCTION SITE

DE Das Herzstück von XAL ist unser Headquarter in Österreich. Es ist das wichtigste Kompetenzzentrum für Produktentwicklung und Produktion.

EN The heart of XAL is our headquarters in Austria. It is our key centre of excellence for product development and production.

2 Murska Sobota, Slovenia

PRODUCTION SITE

DE Das Produktionswerk in Slowenien verfügt über hochautomatisierte und modernste Produktions- und Logistiktechnologien.

EN Our factory in Slovenia is equipped with highly automated and advanced production and logistics technology.

3 Barcelona, Spain

DEVELOPMENT SITE

DE Im Creative Lab in Barcelona arbeitet ein internationales Team aus Technikern und Designern an unseren künftigen Innovationen.

EN The Creative Lab in Barcelona is home to an international team of engineers and designers who work on our future innovations.

4 Pune, India

DEVELOPMENT SITE / PRODUCTION SITE

DE Unser Standort in Pune entwickelt und produziert Lösungen für den indischen Markt und andere asiatische Märkte.

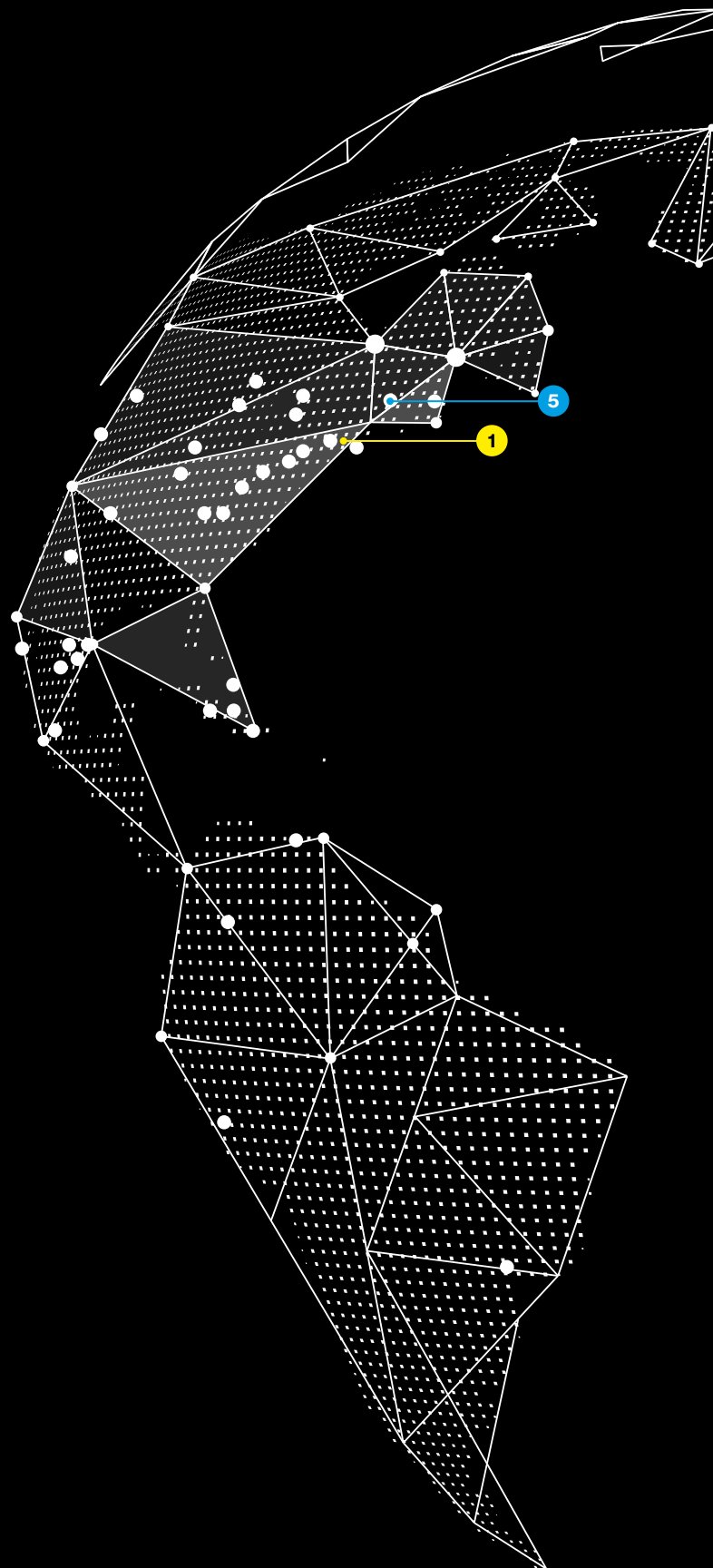
EN At our location in Pune, solutions are developed and manufactured for the domestic Indian market as well as for the other Asian regions.

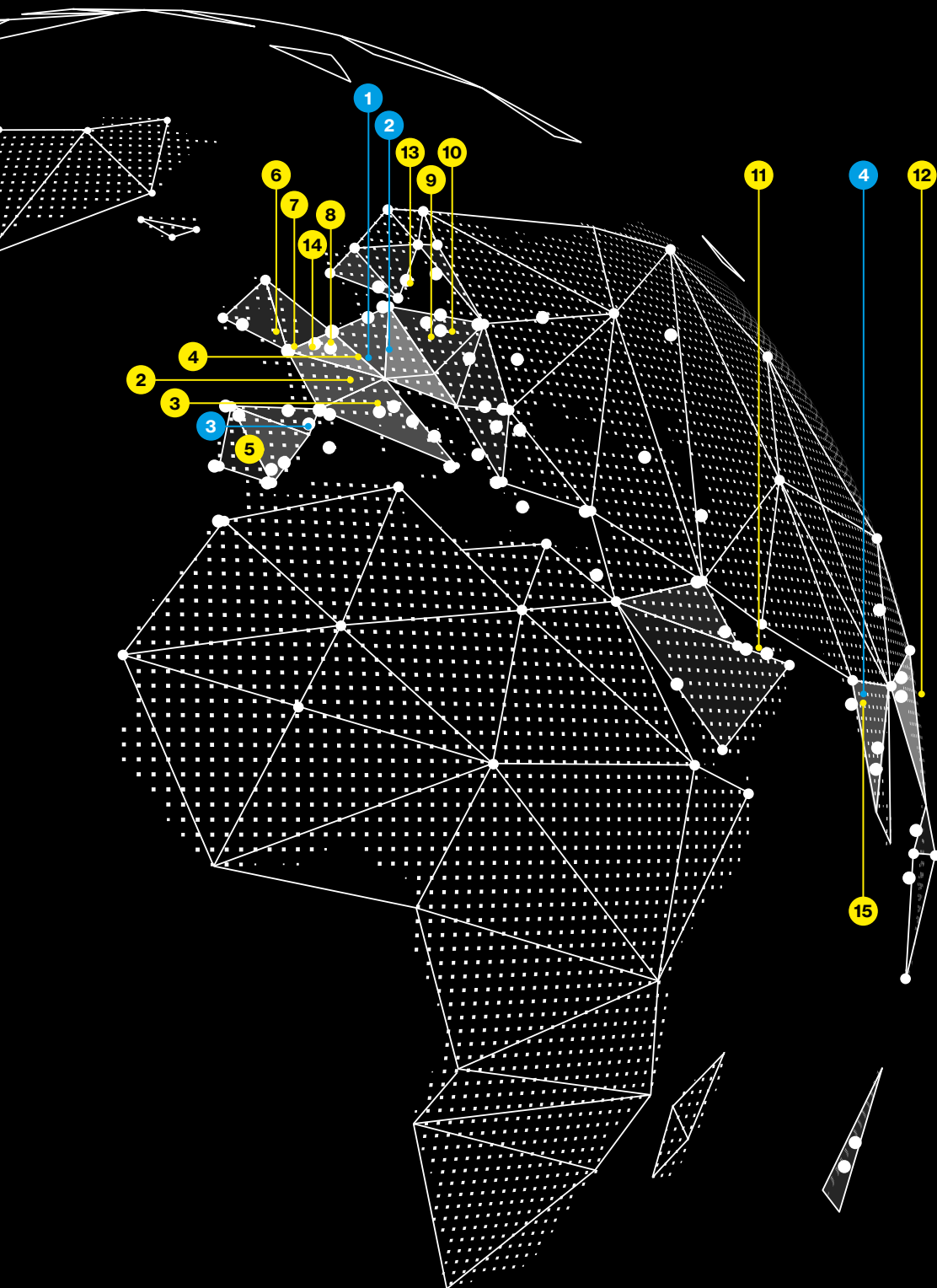
5 Oxford, CT, USA

DEVELOPMENT SITE / PRODUCTION SITE

DE Im Werk in Connecticut werden sämtliche Produkte für den amerikanischen Markt entwickelt und produziert. XAL: made in the USA.

EN At the Connecticut works, all the products for the American market are developed and produced. XAL: made in the USA.





SALES LOCATIONS

- 1 XAL Inc.**
New York, USA
- 2 XAL Schweiz GmbH**
Zurich, SWITZERLAND
- 3 XAL SRL**
Bolzano, ITALY
- 4 XAL GmbH**
Munich, GERMANY
- 5 XAL Iluminación, S.L.**
Madrid, SPAIN
- 6 XAL Ltd.**
London, UNITED KINGDOM
- 7 XAL Sarl**
Paris, FRANCE
- 8 XAL B.V.**
Amsterdam, NETHERLANDS
- 9 XAL Eastern Europe k.s.**
Bratislava, SLOVAKIA
- 10 XAL Sp. z.o.o.**
Warsaw, POLAND
- 11 XAL FZE**
Ras Al Khaimah, UNITED ARAB EMIRATES
- 12 Wever & Ducré Asia Pacific Ltd.**
HONG KONG
- 13 Wever & Ducré AB**
Stockholm, SWEDEN
- 14 Wever & Ducré bvba**
Kortrijk, BELGIUM
- 15 XAL India Pvt. Ltd.**
Pune, INDIA

Research and engineering

DE Die Entwicklung technologisch führender Produkte ist eine ganzheitlich zu denkende Aufgabe, bei der eine Vielzahl von Spezialisten aus unterschiedlichen Fachgebieten als ein Team an einem gemeinsamen Ziel arbeiten muss. Für unsere Experten sind die XAL-Kompetenzzentren ein inspirierender Arbeitsplatz, an dem sie die bestmögliche Labor-Infrastruktur zur Verfügung haben und wo der Teamgeist genug Raum für neue Ideen offenlässt. Das Ergebnis ist ein Produktportfolio von Leuchten und Lichtsystemen, das in jeder Hinsicht technisch außergewöhnlich ist und Außergewöhnliches leistet.

EN The development of products with leading technology is a holistic task. It involves a multitude of specialists from different fields who work as a team towards a common goal. The XAL competence centres are an inspiring workplace for our experts, where they not only find the best resources but also the team spirit and room for new ideas. The result is a portfolio of luminaires and lighting systems that is technically exceptional and delivers outstanding performance.





reddot design award
winner 2015



DESIGN PLUS
powered by light+building



TASK SUSPENDED / reddot design award 2015 / IF Design Award 2015 / Good Design Award



NOD / IF Design Award 2017 / darc awards



HELIOS SUSPENDED / IF Design Award 2014 / Good Design Award

Product design

DE Wenn wir selbst behaupten, dass unsere Produkte außergewöhnlich gut sind, mag man uns glauben oder nicht. Wir lassen daher lieber andere die Qualität unserer Produkte beurteilen, zum Beispiel die Fachjurys der großen internationalen Designpreise. Und sehen deren wohlwollendes Urteil als überzeugendes Kompliment für unsere Ingenieurs- und Designkompetenz. In diesem Katalog finden Sie eine Vielzahl solcherart ausgezeichnete Produkte, die wir entsprechend gekennzeichnet haben.

EN Whether our products are as exceptional as we claim is open to subjective interpretation. We would rather leave it up to others to judge the quality of our products, such as the professional juries of major international design awards. We see their favourable judgement as a direct external testimony to our engineering and design expertise. In this catalogue, you will find a variety of such awarded products, which we have marked accordingly.



High manufacturing quality



Metal sheet stamping



Profile cutting and milling



Powder coating

In-house manufacturing

DE Wir glauben, dass nachhaltige Qualität und Flexibilität in der Produktion nur durch höchste eigene Kompetenz entlang der Wertschöpfungskette zu erreichen sind. XAL hat daher alle wesentlichen Fertigungstechnologien an den eigenen Produktionsstandorten im Einsatz: Von der Elektronikfertigung über Aluminiumbearbeitung, Aluminium-Druckguss und Kunststoff-Spritzguss und über Stanzen, Biegen, Drehen, Fräsen bis hin zu Lackieren und Pulverbeschichten wird alles im eigenen Haus erledigt. Das sichert uns und unseren Kunden die beste Kontrolle über Qualität und Flexibilität.

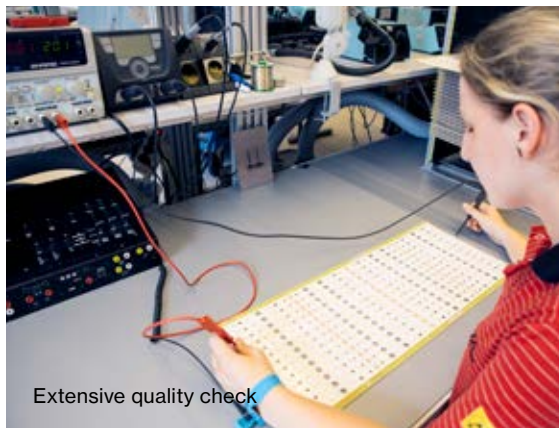
EN We believe that quality and flexibility in production can only be sustained by our own outstanding levels of in-house expertise along the full value chain. XAL therefore operates all key manufacturing technologies within its own production sites: From electronics assembly to aluminium processing and die-casting, from plastics injection moulding to metal stamping and bending and from turning and milling right up to painting and powder coating; everything is provided from a single source. This gives us and our customers the best possible control over quality and flexibility.



LED board manufacturing - SMD machines



Final assembly



Extensive quality check

LED technology

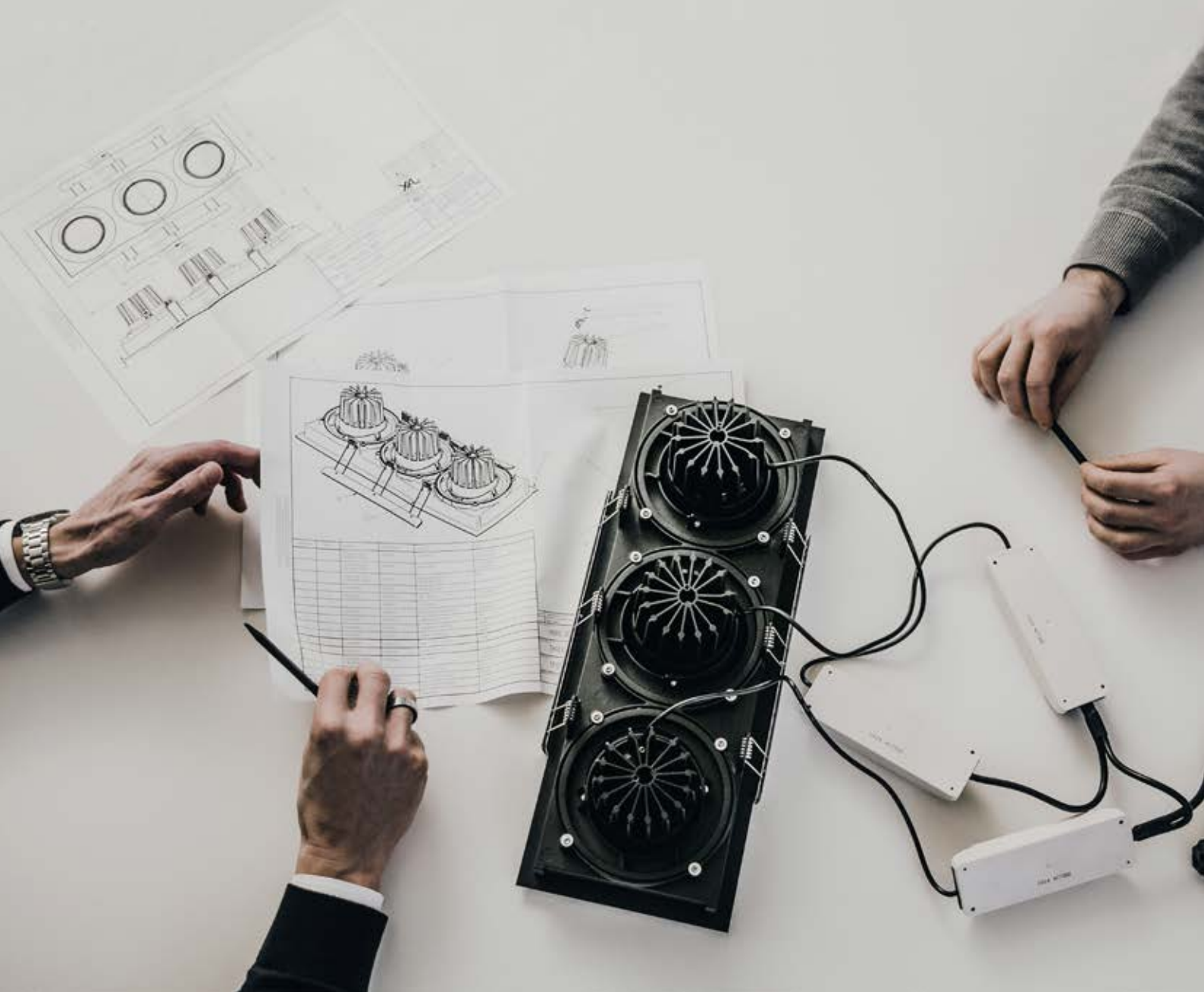
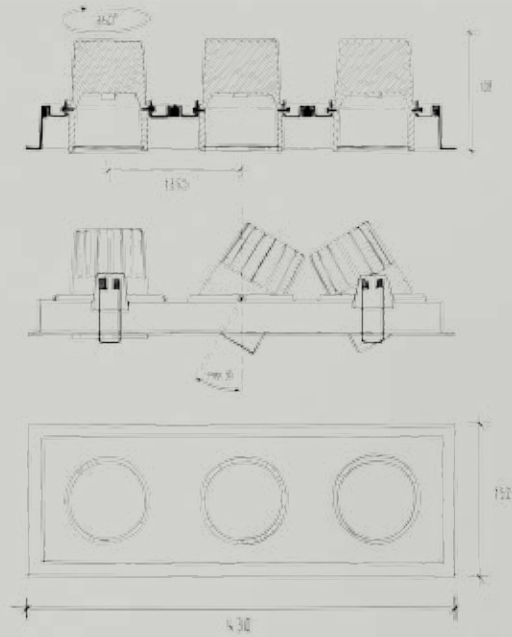
DE XAL liefert seit 2003 LED-Leuchten. Das LED-Know-how von rund eineinhalb Jahrzehnten sichert auch in der Produktion die höchste Qualität: Angefangen von präziser spektrometrischer Analyse bei der Wareneingangskontrolle der LEDs über die Platinenfertigung auf der jeweils optimalen Fertigungslinie und die High-End-ESD-Assembly-Bereiche bis hin zu umfangreichen Tests am fertigen Produkt ist alles auf höchste Verarbeitungsqualität ausgelegt. Für eine perfekt entwickelte und perfekt produzierte Leuchte.

EN XAL has been supplying LED luminaires since 2003. The accumulated know-how of some one and a half decades of experience in LEDs also ensures the highest quality in production: Starting with precise spectrometric analysis of LEDs in incoming goods control, through the use of optimized production lines for PCB assembly and high-end ESD assembly areas, right up to extensive testing of the finished product, everything is set out to achieve the highest manufacturing quality; for the perfectly developed and perfectly manufactured luminaire.

Customized solutions

DE Auch das breiteste Produktprogramm kann manchmal die spezifischen Anforderungen eines konkreten Projekts nicht erfüllen. Um diese Fälle kümmert sich unsere Abteilung Customised Solutions. Erfahrene Experten aus mehreren Fachbereichen erarbeiten kundenspezifische Lösungen und setzen diese rasch und effizient um.

EN Even the broadest product range is sometimes not able to meet the specific requirements of an actual project. Our Customized Solutions department takes care of such cases. Experienced experts from a variety of disciplines develop customer-specific solutions and implement them quickly and efficiently.





XALcc / 3D Measurement device



XALcc / Climatic exposure test cabinet



XALcc / ARC spray



XALcc / EMC Lab (electromagnetic compatibility)



Quality

Our Guarantee

DE XAL-Leuchten werden gefertigt, um höchste Ansprüche zu erfüllen. Modernste Produktentwicklungsverfahren, Labore, Produktions- und Testprozesse und Zertifizierungen nach ISO 9001 und ISO 14001 garantieren qualitativ hochwertige Produkte und eine lange Produktlebensdauer. Heute, morgen und in fünf Jahren. Wir laden Sie ein, unsere 5-Jahres-Garantie unter unseren Garantie-Konditionen in der jeweils gültigen Fassung, abrufbar unter www.xal.com/garantie, in Anspruch zu nehmen. Registrieren Sie sich auf unserer Website und genießen Sie die Sicherheit Ihrer langlebigen XAL-Lichtlösungen.

EN XAL luminaires are manufactured to meet the most exacting requirements. Using the latest product development, production and testing processes and modern laboratories, combined with full certification to ISO 9001 and ISO 14001, ensures high-quality products with a long service life. Today, tomorrow and in five years' time. We invite you to take advantage of our 5-year warranty, which is available under our current valid conditions of guarantee, and can be found under www.xal.com/en/guarantee. Register on our website and enjoy the security afforded by your durable XAL light solutions.



Services

DE Eine erfolgreiche Zusammenarbeit beruht nicht ausschließlich auf guten Produkten, sondern auch auf der Unterstützung des Planers oder Bauherrn in allen Projektphasen mit Information und Service. XAL bietet Ihnen umfangreiche und detaillierte Print- und Onlinekataloge, RELUX-, DIALux- und REVIT-Unterstützung, Montagevideos, Fachvorträge, After Sales Services und vieles mehr. Und natürlich das Wichtigste: Ihre kompetenten und hilfsbereiten persönlichen Ansprechpartner.

EN Successful cooperation is not just based on good products, but also on information and support services to the planner or client in all phases of the project. XAL can provide you with extensive and detailed printed and online catalogues, RELUX-, DIALux and REVIT support, assembly videos, specialist presentations and after sales services, and much more; and of course the most important thing: A competent and helpful personal contact.



Light Magazin
www.xal.com/magazine



Planning Tools
www.xal.com/services



Hotline
[+43.316.3170.9400](tel:+4331631709400)



Special brochures
www.xal.com/catalog

After Sales Services

DE Unsere Kundenleistungen enden nicht mit der Lieferung. Mit unseren After Sales Services bieten wir unseren Kunden auch danach eine zentrale Anlaufstelle für alle Anliegen rund um die gelieferten Produkte. Diese internationale Serviceleistung reicht von der Netzanalyse über die Inbetriebnahme komplexer Lichtsysteme bis hin zur Wartung. Mit der unten angeführten XAL-Servicehotline steht Ihnen eine erste und schnelle Soforthilfe zur Verfügung.

EN The services for our customers do not end with delivery. We also provide our customers with a central point of contact, through our After Sales Services, for all issues relating to the products supplied. This internationally available service covers the analysis of the lighting network through to the commissioning of complex lighting systems and the provision of maintenance. Initial and quick-response emergency help is also available via the XAL Service Hotline listed below.

Netzanalyse / Network analysis

DE Bei internen oder externen Einflüssen auf das Stromnetz bietet XAL kompetente Unterstützung in Form von Netzanalysemessungen.

EN XAL offers expert support for issues related to internal or external influences on the lighting power network, through network measurement and analysis.

Inbetriebnahme / Commissioning

DE Für die Inbetriebnahme oder Programmierung bieten wir Unterstützung für alle Themen und Projektphasen.

EN We offer commissioning and programming support for all issues and project phases.

Wartung / Maintenance

DE Aufgrund der technischen Komplexität von Anlagen sowie der Individualität einzelner Projekte oder Systeme haben wir gemeinsam mit unseren Kunden spezifische Wartungskonzepte erarbeitet. Die Vorteile sind eine stets einwandfreie Beleuchtungsanlage und eine möglichst lange Lebensdauer.

EN Due to the technical complexity of installations and the individual nature of specific projects or systems, we have jointly developed specific maintenance concepts with our customers. The advantages are a perfectly functioning lighting installation at all times and the longest possible service life.



AFTER SALES SERVICE GET IN TOUCH

Phone: +43.316.3170.9400 Monday – Friday: 7:00 am – 8:00 pm
Mail: service@xal.com

How to use

DE Wir bieten in diesem Katalog ein sehr breites Spektrum an Varianten einzelner Produkte an. Wir haben diese Varianten in drei Kategorien eingeteilt: Standard configurations, Extended configurations und Options on request, die sich hinsichtlich Lieferzeit und Preis geringfügig unterscheiden.

Standard configurations

DE Produkte in Standard-Ausführung haben die kürzeste Lieferzeit und werden zu Standard-Preisen verrechnet.

EN Products with standard configurations have the shortest lead times and are invoiced at standard prices.

EN In this catalogue, we offer a very extensive range of variants for individual products. We have divided these variants into three categories: Standard configurations, Extended configurations and Options on request, which differ slightly in terms of lead time and pricing.

Extended configurations

DE Hierunter fallen etwas ausgefallene Produktvarianten mit längeren Lieferzeiten und unterschiedlichen Aufpreisen. In dieser Kategorie stehen auch vordefinierte RAL-Farben zur Wahl.

EN This includes more unusual product versions with longer lead times and varying additional charges. Selectable, predefined RAL colours are also available in this category.

MATERIAL COLOUR

7	white RAL 9010 pure white
K	beige RAL 7044 silk grey
G	grey RAL 9006 white aluminium
D	dark grey RAL 7022 umbra grey
N	dark brown RAL 8014 sepia brown
8	black RAL 9005 jet black

Options on request

DE Darunter fallen Varianten, die an individuelle Anforderungen angepasst werden. Lieferzeiten und Preise richten sich nach diesen Anforderungen.

EN Versions which are modified to individual requirements are included here. Lead times and prices are aligned with these requirements.

01



EINBAUSTRAHLER / DOWNLIGHTS

RECESSED SPOTLIGHTS / DOWNLIGHTS



SASSO 80
flush/offset
trim/trimless
→ 24



SASSO 80
downlight
trim/trimless **new**
→ 28



SASSO 100
flush/offset
trim/trimless
→ 32



SASSO 100
downlight
trim/trimless **new**
→ 40



SASSO 100/150
asymmetric
trim/trimless
→ 44



SASSO 150
flush/offset
trim/trimless
→ 48



KARO 80
trim/trimless
→ 52



KARO 100
trim/trimless
→ 56



KARO 150
trim/trimless
→ 62



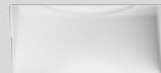
INVISIBLE 80
round
trimless
→ 66



INVISIBLE 100
round
trimless
→ 70



INVISIBLE 80
square/asym.
trimless
→ 74



INVISIBLE 100
square/asym.
trimless
→ 78



INVISIBLE 80
retro
trimless
→ 82



INVISIBLE 100
retro
trimless
→ 84



BUBBLE 80
trimless
→ 88



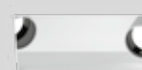
BUBBLE 100
trimless
→ 92



BUBBLE 150
trimless
→ 96



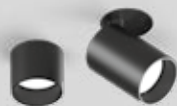
CAVO
round
trimless **new**
→ 100



CAVO
square
trimless **new**
→ 100



MOVE IT 45
round
trimless
→ 106



MOVE IT 45
round flex
trimless
→ 110



MOVE IT 85
round
trimless
→ 114



MOVE IT 45
square
trimless
→ 118



MOVE IT 85
square
trimless
→ 124



AURO FOCUS
trim/trimless
→ 128



ARGO
trim
→ 132



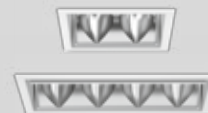
SPADO 100/150
round/asym.
trim **new**
→ 136



SPADO 150
square
trim **new**
→ 140



WALL MINI
wallwasher
trim/trimless
→ 144



SQUADRO
wallwasher
trim **new**
→ 148

OVERVIEW

Light engines

SASSO 80 flush



8 W, 10 W CWD, 12 W
up to 86 lm/W
700 lm, 1050 lm
2700K, 3000K, 4000K, CWD
6°, 27°, 37°
ø80 mm / H 83 mm

SASSO 80 offset



8 W, 12 W
up to 86 lm/W
700 lm, 1050 lm
2700K, 3000K, 4000K, CWD
6°, 27°, 37°
ø80 mm / H 97 mm

SASSO 80 downlight



8 W, 10 W CWD, 12 W
up to 90 lm/W
730 lm, 1100 lm
2700K, 3000K, 4000K, CWD
25°, 36°
ø80 mm / H 93 mm

SASSO 100 flush



13 W, 18 W CWD, 27 W
up to 93 lm/W
1210 lm, 2340 lm
2700K, 3000K, 4000K, CWD
18°, 24°, 36°
ø98 mm / H 106 mm

Mounting housings

SASSO round trimless

→ 24



→ 24



→ 28



→ 32



SASSO round trim

→ 24



→ 24



→ 28



→ 32



SASSO square trim

→ 24



→ 24



→ 28



→ 32



SASSO asymmetric trim

→ 44



KARO square trimless

→ 52



→ 56



KARO square trim

→ 52



→ 56



INVISIBLE round 1 lamp trimless

→ 66



→ 70



INVISIBLE round 2 lamps trimless

→ 66



→ 70



INVISIBLE square asymmetric

→ 74



→ 78



INVISIBLE square 1 lamp trimless

→ 74



→ 78

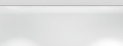


INVISIBLE square 2 lamps trimless

→ 74



→ 78



INVISIBLE retro 1 lamp trimless

→ 82



→ 84

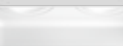


INVISIBLE retro 2 lamps trimless

→ 82



→ 84



BUBBLE round 1 lamp trimless

→ 88



→ 92



SASSO 100
offset



13 W, 18 W CWD, 27 W
up to 93 lm/W
1210 lm, 2340 lm
2700K, 3000K, 4000K, CWD
18°, 24°, 36°
ø98 mm / H 106 mm

SASSO 100 WLS
offset



14 W, 28 W
up to 65 lm/W
880 lm, 1580 lm
2700K, 3000K, 4000K
18°, 24°
ø98 mm / H 120 mm

SASSO 100
downlight



13 W, 18 W CWD, 27 W
up to 100 lm/W
1260 lm, 2440 lm
2700K, 3000K, 4000K, CWD
24°, 39°
ø98 mm / H 114 mm

SASSO 150
flush



28 W, 44 W
up to 101 lm/W
2860 lm, 3850 lm
3000K, 4000K
14°, 25°, 41°
ø144 mm / H 144 mm

SASSO 150
offset



28 W, 44 W
up to 101 lm/W
2860 lm, 3850 lm
3000K, 4000K
14°, 25°, 41°
ø144 mm / H 170 mm



→ 32



→ 38



→ 40



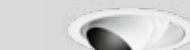
→ 48



→ 48



→ 32



→ 38



→ 40



→ 48



→ 48



→ 32



→ 38



→ 40



→ 48



→ 48



→ 44



→ 62



→ 62



→ 96

SASSO 80

flush / offset trim / trimless

xal.com/sasso



Quickinfo

GENERAL

recessed (with trim / trimless)
IP 20, IP 44
optional concrete install. housing

LED

COB LED module
up to 86lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; optional mit zurückversetzter Leuchtenebene; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20 oder IP 44; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; optionally with recessed lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20 or IP 44; PC II; optional DALI dimmable

Features



exchangeable light engine



installation possible in square mounting set



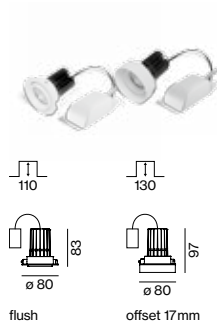
rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Standard configuration

MOUNTING TYPE	
flush	1
offset	2
COLOUR TEMPERATURE	
3000K	5
CONTROL	
non DIM	1
MATERIAL COLOUR	
white	7
<div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">7</div>	
REFLECTOR	
flood 37°	F



SASSO 80 flush/offset

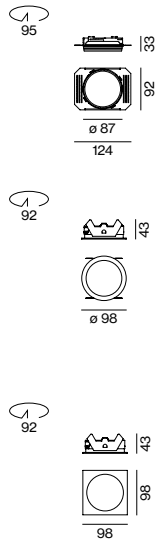
SYS POWER	COLOUR TEMP.	LUMINOUS FLUX		ORDER CODE			
8 W	2700K	630lm		0 4 8 - 2 3 0 0 :: 1			
	3000K	660lm					
	4000K	700lm					
10 W CWD	1800-3000 K (CRI ≥ 95)		500lm	0 4 8 - 2 3 0 0 0 3			
12 W	2700K	950lm		0 4 8 - 2 3 0 2 ::			
	3000K	980lm					
	4000K	1050lm					
12 W IP 44	3000K	980lm		8 4 8 - 2 3 0 2 5			

LIGHT DISTRIBUTION for 12W, 3000K

super spot 6° (8W)			medium 27°			flood 37°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	21750	ø0,11	1	2534	ø0,48	1	1826	ø0,68
2	5437	ø0,21	2	633	ø0,96	2	456	ø1,36
3	2416	ø0,32	3	281	ø1,44	3	202	ø2,03
4	1359	ø0,43	4	158	ø1,92	4	114	ø2,71
5	870	ø0,53	5	101	ø2,40	5	73	ø3,39

Extended configuration

COLOUR TEMPERATURE	
2700K	4
4000K	6
CONTROL	
DIM DALI	3
MATERIAL COLOUR	
silver-grey	G
black	8
<div style="display: flex; justify-content: space-around; margin: 5px 0;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">G</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">8</div> </div> <p>+5% surcharges</p>	
REFLECTOR	
medium 27°	M
LENS	
super spot 6° (only 8W non DIM)	V



Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 12/15/25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 2 1 3 2 7
offset	0 5 2 - 1 9 3 1 3 2 7

ROUND MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 2 2 3 2
offset white	0 5 2 - 1 9 3 2 3 2 7
offset black	0 5 2 - 1 9 3 2 3 2 8

SQUARE MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 4 2 3 1
offset white	0 5 2 - 1 9 5 2 3 1 7
offset black	0 5 2 - 1 9 5 2 3 1 8

CONCRETE MOUNTING HOUSING

for 8 W

TYPE	L/Ø-W-H (mm)	ORDER CODE
exposed concrete ceilings*	229-227-160	0 6 0 - 0 0 0 8 0
primed concrete ceilings**	ø240-400-130	0 5 2 - 1 9 1 4 3 2 0

*only for flush mounting

**order mounting set separately

Options on request

CONTROL	
phase-cut DIM	



Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1
linear prismatic lens	0 4 8 - 2 0 9 2 3 1
snoot	0 4 8 - 2 0 9 1 1 1
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1

use only 1 optical accessory



Inspiration

Private Residence
Zurich, Switzerland

PRODUCT
SASSO 80 trimless flush
SASSO 100 asymmetric

ARCHITECT
Think Architecture AG
Zurich, Switzerland





SASSO 80

downlight

trim / trimless

xal.com/sasso



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44
optional concrete install. housing

LED

COB LED module
up to 90lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination (UGR < 19)
beam angle 25°, 36°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
chrome, high-gloss

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; Oberfläche chrom poliert, gold Hochglanz oder schwarz Hochglanz; Einbau in unterschiedlichen Gehäusen möglich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20 oder IP44; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system; surface polished chrome, high-gloss gold or high-gloss black; installation possible in different housings; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with two different beam angles; installed and exchanged without tools; protection class IP20 or IP44; PC II; optional DALI dimmable

Features



exchangeable light engine



installation possible in square mounting set



surface high-gloss gold or black available



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE 
3000K 5


CONTROL 
non DIM 1

MATERIAL COLOUR 
chrome 4




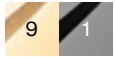
REFLECTOR 
flood 36° F

Extended configuration

COLOUR TEMPERATURE 
2700K 4
4000K 6

CONTROL 
DIM DALI 3

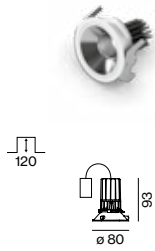
MATERIAL COLOUR 
gold high-gloss 9
black-chrome high-gloss 1



REFLECTOR 
medium 25° M

Options on request

CONTROL
phase-cut DIM



SASSO 80 downlight



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700K 3000K 4000K	660lm 690lm 730lm	0 4 8 - 2 3 7 0 :: 1 F
10 W CWD	1800-3000K (CRI ≥ 95)	510lm	0 4 8 - 2 3 7 0 0 3 M
12 W	2700K 3000K 4000K	990lm 1020lm 1100lm	0 4 8 - 2 3 7 2 :: 4 F
12 W IP 44	3000K	1020lm	8 4 8 - 2 3 7 2 5 :: 4 F

LIGHT DISTRIBUTION for 12W, 3000K

medium 25°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2738	ø0,44	1	1920	ø0,65
2	684	ø0,88	2	480	ø1,30
3	304	ø1,32	3	213	ø1,95
4	171	ø1,76	4	120	ø2,60
5	109	ø2,21	5	76	ø3,25

Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 12/15/25 mm

COLOUR
white 0 5 2 - 1 9 2 1 3 2 7

ROUND MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

COLOUR
grey 0 5 2 - 1 9 2 2 3 2 G
white 0 5 2 - 1 9 2 2 3 2 7
black 0 5 2 - 1 9 2 2 3 2 8

SQUARE MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

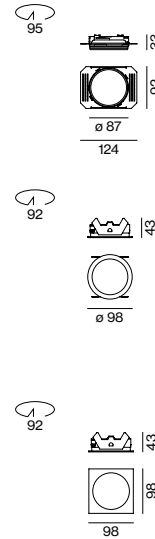
COLOUR
white 0 5 2 - 1 9 4 2 3 1 7
black 0 5 2 - 1 9 4 2 3 1 8

CONCRETE MOUNTING HOUSING

for 8W

TYPE	LWH (mm)	ORDER CODE
exposed concrete ceilings	229·227·160	0 6 0 - 0 0 0 8 0
primed concrete ceilings*	ø240·400·130	0 5 2 - 1 9 1 4 3 2 0

*order mounting set separately



Inspiration

Spreedreieck
Berlin, Germany

ARCHITECT
AUKETT + HEESE GmbH
Berlin, Germany

PRODUCT
SASSO 80 downlight
trimless





SASSO 100

flush / offset trim / trimless

xal.com/sasso



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44
optional concrete install. housing

LED

COB LED module
up to 93lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 18°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; optional mit zurückversetzter Leuchtenebene; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik, präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20 oder IP44; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; optionally with recessed lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high-quality reflector with spherical facet effect design, precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20 or IP44; PC II; optional DALI dimmable

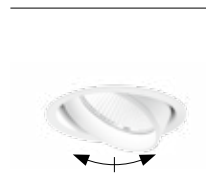
Features



exchangeable light engine



installation possible in square mounting set



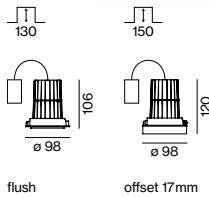
rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Standard configuration

MOUNTING TYPE	
flush	1
offset	2
COLOUR TEMPERATURE	
3000K	5
CONTROL	
non DIM	1
MATERIAL COLOUR	
white	7
<div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">7</div>	
REFLECTOR	
flood 36°	F



SASSO 100 flush/offset



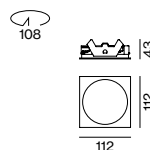
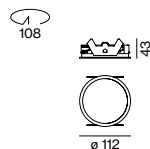
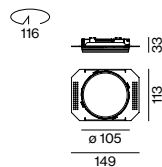
SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700K	1170lm	0 4 8 - 2 4 0 0
	3000K	1210lm	
18 W CWD	1800-3000K (CRI ≥ 95)	900lm	0 4 8 - 2 4 0 1 0 3
27 W	2700K	2110lm	0 4 8 - 2 4 0 2
	3000K	2190lm	
	4000K	2340lm	
27 W IP 44	3000K	2190lm	8 4 8 - 2 4 0 2 5

LIGHT DISTRIBUTION for 27W, 3000K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14162	ø0,31	1	9171	ø0,42	1	5376	ø0,65
2	3540	ø0,62	2	2292	ø0,84	2	1344	ø1,31
3	1573	ø0,93	3	1019	ø1,27	3	597	ø1,96
4	885	ø1,24	4	573	ø1,69	4	336	ø2,61
5	566	ø1,55	5	366	ø2,11	5	215	ø3,27

Extended configuration

COLOUR TEMPERATURE	
2700K	4
4000K	6
CONTROL	
DIM DALI	3
MATERIAL COLOUR	
silver-grey	G
black	8
<div style="display: flex; justify-content: space-around; width: 60px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">G</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">8</div> </div>	
+5% surcharges	
REFLECTOR	
spot 18°	S
medium 24°	M



Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 12/15/25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 2 1 4 4 7
offset	0 5 2 - 1 9 3 1 4 4 7

ROUND MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 2 2 4 4
offset white	0 5 2 - 1 9 3 2 4 4 7
offset black	0 5 2 - 1 9 3 2 4 4 8

SQUARE MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 4 2 4 1
offset white	0 5 2 - 1 9 5 2 4 1 7
offset black	0 5 2 - 1 9 5 2 4 1 8

CONCRETE MOUNTING HOUSING

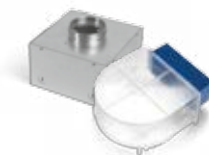
for 13W and 18W

TYPE	L/Ø-WH (mm)	ORDER CODE
exposed concrete ceilings*	229-227-160	0 5 2 - 1 9 1 3 4 1 0
primed concrete ceilings**	ø240-400-130	0 5 2 - 1 9 1 4 4 2 0

*only for flush mounting; **order mounting set separately

Options on request

CONTROL	
phase-cut DIM	
LENS	
beam angle 14°, 24°	



Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 1 9 1 3 1
linear prismatic lens	0 4 8 - 2 1 9 2 3 1
snoot	0 4 8 - 2 1 9 1 1 1
snoot with honeycomb louver	0 4 8 - 2 1 9 1 2 1

use only 1 optical accessory



Inspiration

Hotel Lanser Hof
Tegernsee, Germany

PRODUCT
SASSO 100 offset trimless

ARCHITECT
ingenhoven architects
Dusseldorf, Germany

LIGHTING DESIGN
TROPP Lighting
Weilheim, Germany





Inspiration

Fashion Store Leffers
Oldenburg, Germany

ARCHITECT
Blocher Blocher Partners
Stuttgart, Germany

LIGHTING DESIGN
VEDDER.LICHTMANAGEMENT
Munich, Germany

PRODUCT
SASSO 100 offset trimless





SASSO 100 WLS

offset

xal.com/sasso



Quickinfo

GENERAL

recessed (with trim/trimless)
IP20

LED

COB LED module
up to 65lm/W
2700K, 3000K, 4000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 18°, 24°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

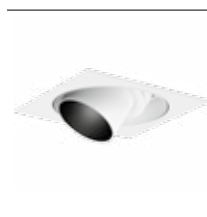
DE Runder Einbaustrahler aus Aluminiumdruckguss; zurückversetzte Leuchtenebene; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; offset lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with two different beam angles; installed and exchanged without tools; protection class IP20; PC II; optional DALI dimmable

Features



exchangeable light engine



installation possible in square mounting set




patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE 
3000 K 5


CONTROL 
non DIM 1

MATERIAL COLOUR 
white 7



REFLECTOR 
spot 18° S

Extended configuration

COLOUR TEMPERATURE 
2700 K 4
4000 K 6

CONTROL 
DIM DALI 3

MATERIAL COLOUR 
silver-grey G
black 8

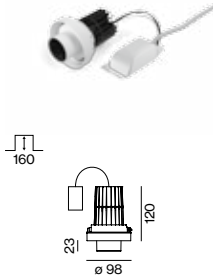


+5% surcharges

REFLECTOR 
medium 24° M





Options on request

CONTROL
phase-cut DIM



SASSO 100 WLS offset



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	820lm	0 4 8 - 2 4 3 0   ▲
	3000 K	880lm	
28 W	2700 K	1470lm	0 4 8 - 2 4 3 2   ▲
	3000 K	1580lm	
	4000 K	1580lm	

LIGHT DISTRIBUTION for 28 W, 3000 K

spot 18°			medium 24°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	10092	ø0,31	1	6258	ø0,42
2	2523	ø0,62	2	1564	ø0,84
3	1121	ø0,93	3	695	ø1,27
4	630	ø1,24	4	391	ø1,69
5	403	ø1,55	5	250	ø2,11

Mounting accessories

TRIMLESS MOUNTING SET OFFSET

for installation in plasterboard ceilings 12/15/25 mm

COLOUR
white 0 5 2 - 1 9 3 1 4 4 7 **ORDER CODE**

ROUND MOUNTING SET OFFSET WITH TRIM

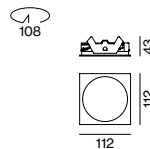
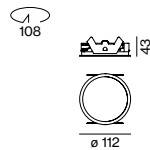
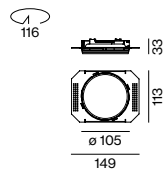
for intermediate ceilings 2-25 mm

COLOUR
white 0 5 2 - 1 9 3 2 4 4 7 **ORDER CODE**
black 0 5 2 - 1 9 3 2 4 4 8 **ORDER CODE**

SQUARE MOUNTING SET OFFSET WITH TRIM

for intermediate ceilings 2-25 mm

COLOUR
white 0 5 2 - 1 9 5 2 4 1 7 **ORDER CODE**



SASSO 100

downlight

trim / trimless

xal.com/sasso



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20, IP44
optional concrete install. housing

LED

COB LED module
up to 100lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination (UGR < 19)
beam angle 24°, 39°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
chrome, high-gloss

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; Oberfläche chrom poliert, gold Hochglanz oder schwarz Hochglanz; Einbau in unterschiedlichen Gehäusen möglich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20 oder IP44; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system; surface polished chrome, high-gloss gold or high-gloss black; installation possible in different housings; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with two different beam angles; installed and exchanged without tools; protection class IP20 or IP44; PC II; optional DALI dimmable

Features



exchangeable light engine



installation possible in square mounting set



surface high-gloss gold or black available



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000 K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
chrome 4



REFLECTOR ▲
flood 39° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700 K 4
4000 K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
gold high-gloss 9
black-chrome high-gloss 1

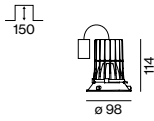


REFLECTOR ▲
medium 24° M

Options on request

CONTROL
phase-cut DIM

REFLECTOR
spot 16° (only for non CWD)



SASSO 100 downlight



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	1210 lm	0 4 8 - 2 4 7 0 ◆◆ ▲
	3000 K	1260 lm	
18 W CWD	1800-3000 K	900 lm	0 4 8 - 2 4 7 1 0 3 ■ F
27 W	2700 K	2190 lm	0 4 8 - 2 4 7 2 ◆◆ ▲
	3000 K	2280 lm	
	4000 K	2440 lm	
27 W IP 44	3000 K	2280 lm	8 4 8 - 2 4 7 2 5 ◆ F

LIGHT DISTRIBUTION for 27W, 3000K

medium 24°			flood 39°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	8722	ø0,42	1	4674	ø0,71
2	2180	ø0,84	2	1168	ø1,43
3	969	ø1,26	3	519	ø2,14
4	545	ø1,68	4	292	ø2,85
5	348	ø2,10	5	186	ø3,56

Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 12/15/25 mm

COLOUR
white ORDER CODE
0 5 2 - 1 9 2 1 4 4 7

ROUND MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

COLOUR
grey ORDER CODE
0 5 2 - 1 9 2 2 4 4 G
white 0 5 2 - 1 9 2 2 4 4 7
black 0 5 2 - 1 9 2 2 4 4 8

SQUARE MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

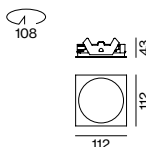
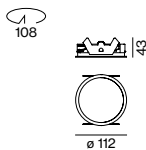
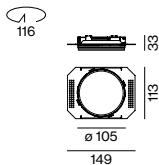
COLOUR
white ORDER CODE
0 5 2 - 1 9 4 2 4 1 7
black 0 5 2 - 1 9 4 2 4 1 8

CONCRETE MOUNTING HOUSING

for 13W and 18W

TYPE **L-W-H (mm)** **ORDER CODE**
exposed concrete ceilings 229-227-160 0 5 2 - 1 9 1 3 4 1 0
primed concrete ceilings* ø240-400-130 0 5 2 - 1 9 1 4 4 2 0

*order mounting set separately



Inspiration

Private Residence
Vienna, Austria

PRODUCT
SASSO 100 downlight trimless

ARCHITECT
ad2 architekten
Weiden/See, Austria





SASSO 100 / 150

asymmetric

xal.com/sasso



Quickinfo

GENERAL

recessed
IP 40

LED

COB LED module
up to 93lm/W
2700K, 3000K, 4000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss mit asymmetrischer Abstrahlcharakteristik; mittels Montagefeder werkzeuglos montierbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; Schutzart IP 40; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium with asymmetric radiation characteristic; spring mounting without tools; surface white, silver-grey or black powder coated; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; protection class IP 40; PC II; optional DALI dimmable

Standard configuration

COLOUR TEMPERATURE ⋮
3000 K 5

CONTROL ↕
non DIM 1

MATERIAL COLOUR ■
white 7



REFLECTOR
asymmetric

Extended configuration

COLOUR TEMPERATURE ⋮
2700 K 4
4000 K (only for SASSO 150) 6

CONTROL ↕
DIM DALI 3

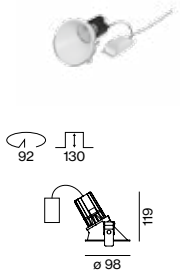
MATERIAL COLOUR ■
silver-grey G
black 8



+5% surcharges

Options on request

CONTROL
phase-cut DIM

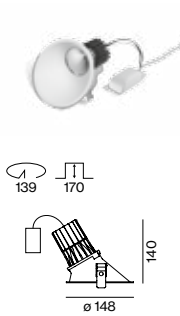
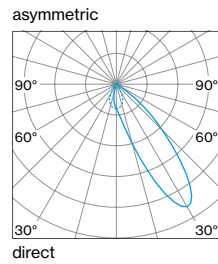


SASSO 100 asymmetric



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700 K	610lm	0 4 8 - 2 4 0 0 ⋮ 1 ■ M
12 W	3000 K	640lm	
	2700 K	920lm	0 4 8 - 2 4 0 2 ⋮ ↕ ■ M
	3000 K	950lm	

LIGHT DISTRIBUTION

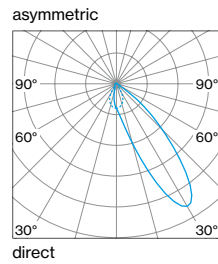


SASSO 150 asymmetric



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	1130lm	0 4 8 - 2 5 0 0 ⋮ ↕ ■ M
	3000 K	1170lm	
27 W	2700 K	2050lm	0 4 8 - 2 5 0 2 ⋮ ↕ ■ M
	3000 K	2130lm	
	4000 K	2120lm	

LIGHT DISTRIBUTION



Inspiration

Private Residence
Zurich, Switzerland

PRODUCT
SASSO 80 flush trimless
SASSO 100 asymmetric

ARCHITECT
Think Architecture AG
Zurich, Switzerland





SASSO 150

flush / offset
trim / trimless

xal.com/sasso



Quickinfo

GENERAL

recessed (with trim / trimless)
IP20
optional concrete install. housing

LED

COB LED module
up to 101lm/W
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Einbaustrahler aus Aluminiumdruckguss; optional mit zurückversetzter Leuchtenebene; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Round recessed spotlight in die-cast aluminium; optionally with recessed lighting level; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; optional DALI dimmable

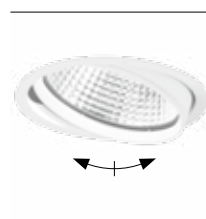
Features



exchangeable light engine



installation possible in square mounting set



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Standard configuration

MOUNTING TYPE	
flush	1
offset	2

COLOUR TEMPERATURE	
3000K	5

CONTROL	
non DIM	1

MATERIAL COLOUR	
white	7



REFLECTOR	
flood 41°	F

Extended configuration

COLOUR TEMPERATURE	
4000K	6

CONTROL	
DIM DALI	3

MATERIAL COLOUR	
silver-grey	G
black	8



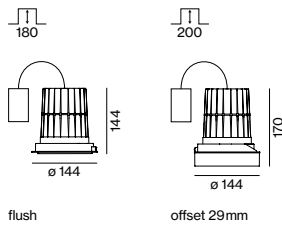
+5% surcharges

REFLECTOR	
spot 14°	S
medium 25°	M

Options on request

SPECIAL COLOUR	
vogue	CRI ≥ 90
gallery	CRI 98
gourmet	CRI ≥ 80
fresh meat & fish	CRI ≥ 80
pastry	CRI ≥ 80
brilliant white	CRI ≥ 90

REFLECTOR	
wide flood 58°	



SASSO 150 flush/offset



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2670lm	0 4 8 - 2 5 0 0 :: □ ▲
	4000 K	2860lm	
44 W	3000 K	3590lm	0 4 8 - 2 5 0 1 :: □ ▲
	4000 K	3850lm	

LIGHT DISTRIBUTION for 44 W, 3000 K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32065	ø0,24	1	14573	ø0,44	1	6431	ø0,74
2	8016	ø0,49	2	3643	ø0,87	2	1607	ø1,48
3	3562	ø0,73	3	1619	ø1,31	3	714	ø2,22
4	2004	ø0,97	4	910	ø1,75	4	401	ø2,96
5	1282	ø1,21	5	582	ø2,18	5	257	ø3,70

Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 12/15/25 mm

TYPE		ORDER CODE
flush		0 5 2 - 1 9 2 1 6 2 7
offset		0 5 2 - 1 9 3 1 6 2 7

ROUND MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

TYPE		ORDER CODE
flush		0 5 2 - 1 9 2 2 6 2 □
offset white		0 5 2 - 1 9 3 2 6 2 7
offset black		0 5 2 - 1 9 3 2 6 2 8

SQUARE MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

TYPE		ORDER CODE
flush		0 5 2 - 1 9 4 2 6 1 □
offset white		0 5 2 - 1 9 5 2 6 1 7
offset black		0 5 2 - 1 9 5 2 6 1 8

CONCRETE MOUNTING HOUSING

for 28 W

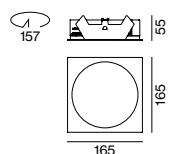
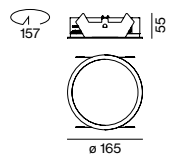
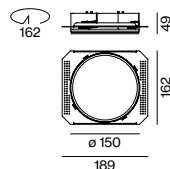
TYPE	L-W-H (mm)	ORDER CODE
exposed concrete ceilings*	295-295-210	0 6 0 - 0 0 1 5 0
primed concrete ceilings	ø310-210	0 5 2 - 1 9 1 6 6 1 0

*only for flush mounting

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 2 9 1 3 1 □
linear prismatic lens	0 4 8 - 2 2 9 2 3 1 □
snoot	0 4 8 - 2 2 9 1 1 1 □
snoot with honeycomb louver	0 4 8 - 2 2 9 1 2 1 □

use only 1 optical accessory



Inspiration

Humanic Store
Liezen, Austria

PRODUCT
SASSO 150 offset trimless

ARCHITECT
KrizH
Vienna, Austria

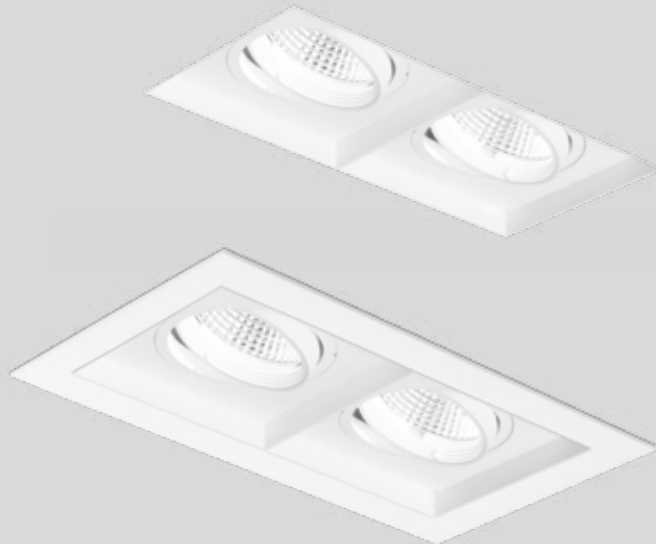




KARO 80

trim/trimless

xal.com/karo



Quickinfo

GENERAL

recessed (with trim/trimless)
IP20, IP44

LED

COB LED module
up to 84lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Ein- bzw. zweiflammiges Einbaugehäuse, optional mit umlaufendem Rand; Einsatz: rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20 oder IP44; SK II; optional DALI-dimmbar

EN Single or double lamp recessed housing, optionally with trim; insert: round spotlight element in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface powder coated in white or black; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20 or IP44; PC II; optional DALI dimmable

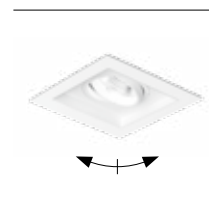
Features



exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE 
3000K 5


CONTROL 
non DIM 1

MATERIAL COLOUR 
white 7



REFLECTOR 
flood 37° F

Extended configuration

COLOUR TEMPERATURE 
2700K 4
4000K 6


CONTROL 
DIM DALI 3

MATERIAL COLOUR 
black 8



+5% surcharges

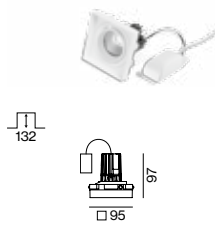
REFLECTOR 
medium 27° M

LENS 
super spot 6° (only 8 W non DIM) V

Options on request











CONTROL
phase-cut DIM

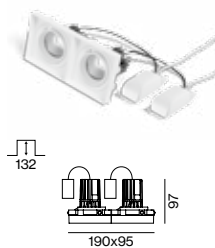
MOUNTING ACCESSORIES
concrete mounting housing



KARO 80 1 lamp













SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	2700K 3000K 4000K	630lm 660lm 700lm	0 4 8 - 4 3 1 0 :: 1  
10 W CWD	1800-3000K (CRI ≥ 95)	500lm	0 4 8 - 4 3 1 0 0 3   
14 W	2700K 3000K 4000K	950lm 980lm 1050lm	0 4 8 - 4 3 1 2 ::   
14 W IP 44	3000K	980lm	8 4 8 - 4 3 1 2 5  



KARO 80 2 lamps



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2 × 8 W	2700K 3000K 4000K	2 × 630lm 2 × 660lm 2 × 700lm	0 4 8 - 4 3 2 0 :: 1  
2 × 10 W CWD	1800-3000K (CRI ≥ 95)	2 × 500lm	0 4 8 - 4 3 2 0 0 3   
2 × 14 W	2700K 3000K 4000K	2 × 950lm 2 × 980lm 2 × 1050lm	0 4 8 - 4 3 2 2 ::   
2 × 14 W IP 44	3000K	2 × 980lm	8 4 8 - 4 3 2 2 5  

LIGHT DISTRIBUTION for 12W, 3000K (1 lamp)

super spot 6° (8 W)			medium 27°			flood 37°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	21750	ø0,11	1	2534	ø0,48	1	1826	ø0,68
2	5437	ø0,21	2	633	ø0,96	2	456	ø1,36
3	2416	ø0,32	3	281	ø1,44	3	202	ø2,03
4	1359	ø0,43	4	158	ø1,92	4	114	ø2,71
5	870	ø0,53	5	101	ø2,40	5	73	ø3,39

Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 5-25 mm





TYPE	L-W-H (mm)	ORDER CODE
1 lamp	108·108·39	0 4 8 - 4 0 9 1 1 1 6
2 lamps	203·108·39	0 4 8 - 4 0 9 2 1 1 6

MOUNTING SET WITH TRIM

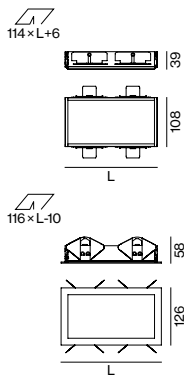
for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp white	126·126·58	0 4 8 - 4 0 9 1 2 1 7
1 lamp black	126·126·58	0 4 8 - 4 0 9 1 2 1 8
2 lamps white	221·126·58	0 4 8 - 4 0 9 2 2 1 7
2 lamps black	221·126·58	0 4 8 - 4 0 9 2 2 1 8

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1 
linear prismatic lens	0 4 8 - 2 0 9 2 3 1 
snoot	0 4 8 - 2 0 9 1 1 1 
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1 

use only 1 optical accessory

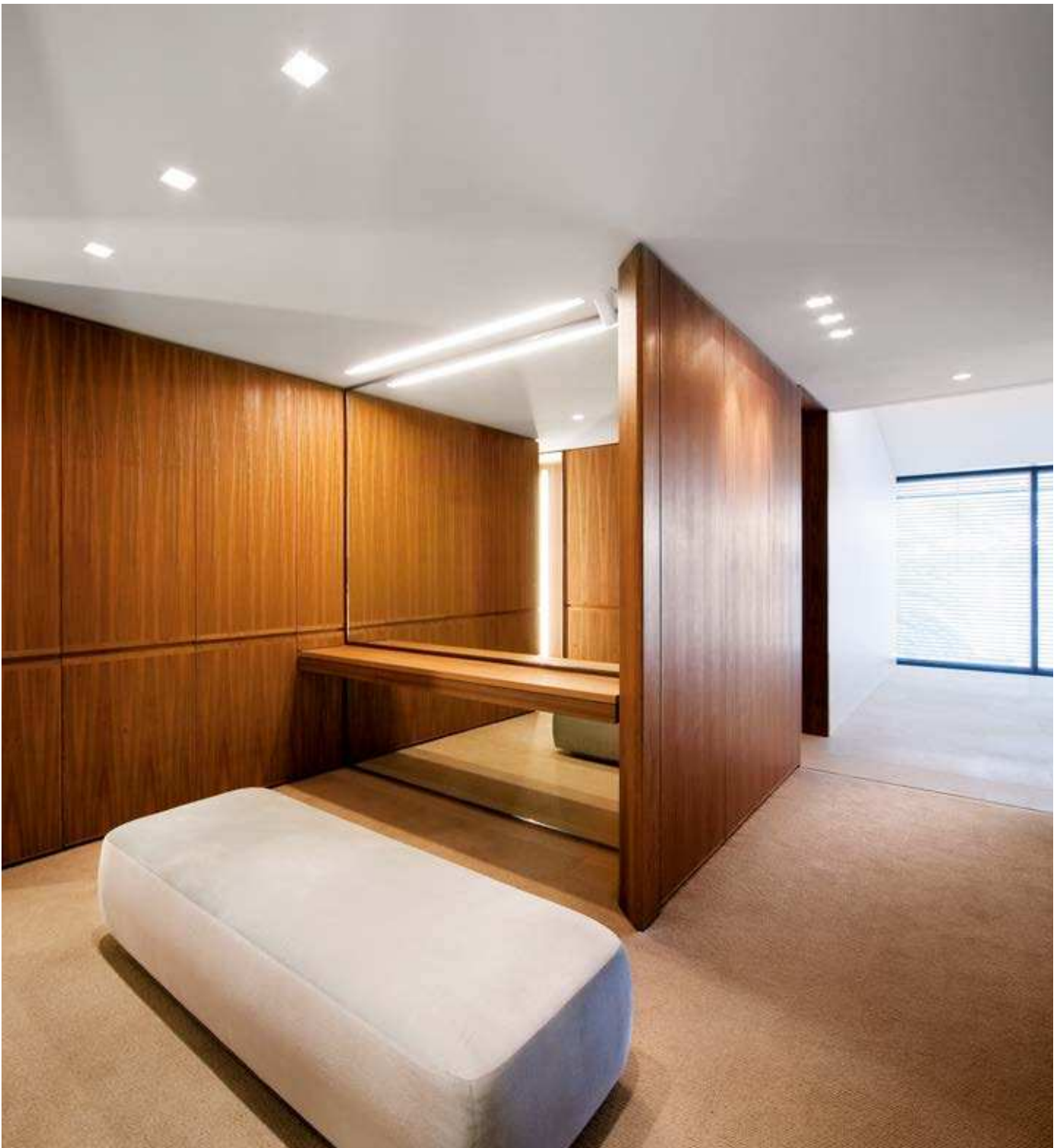


Inspiration

Private Residence
Sydney, Australia

ARCHITECT
Tzannes and Associates
Sydney, Australia

PRODUCT
KARO 80 trimless

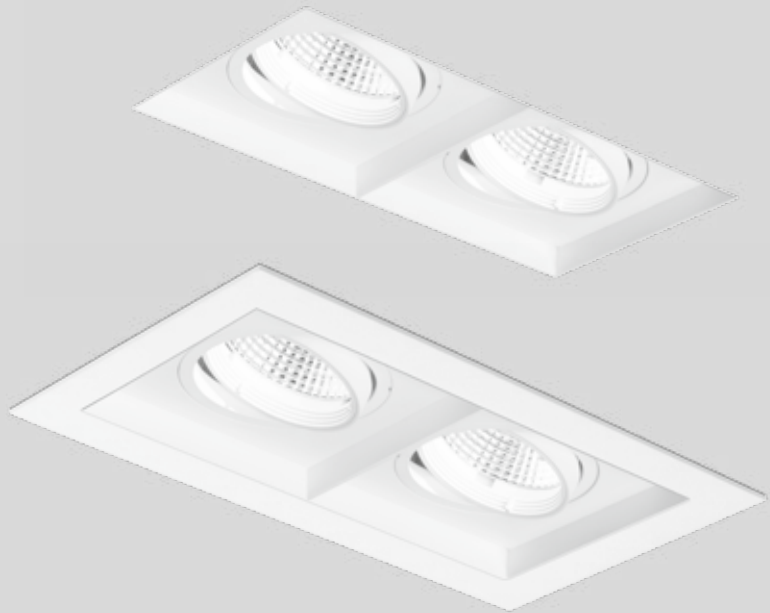




KARO 100

trim / trimless

xal.com/karo



Quickinfo

GENERAL

recessed (with trim / trimless)
IP 20, IP 44

LED

COB LED module
up to 93lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 18°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Ein- bzw. zweiflammiges Einbaugehäuse, optional mit umlaufendem Rand; Einsatz: rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000 h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20 oder IP 44; SK II; optional DALI-dimmbar

EN Single or double lamp recessed housing, optionally with trim; insert: round spotlight element in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface powder coated in white or black; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20 or IP 44; PC II; optional DALI dimmable

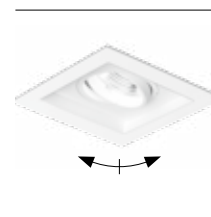
Features



exchangeable light engine



patented ball catch system



rotation adjustment
360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7



REFLECTOR ▲
flood 36° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700K 4
4000K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
black 8



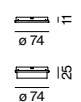
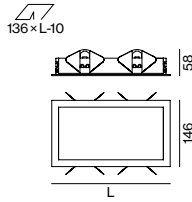
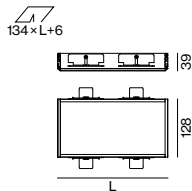
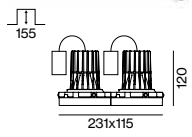
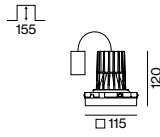
+5% surcharges

REFLECTOR ▲
spot 18° (only for non CWD) S
medium 24° M

Options on request

CONTROL
phase-cut DIM

MOUNTING ACCESSORIES
concrete mounting housing



KARO 100 1 lamp



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	1170 lm	0 4 8 - 4 4 1 0 ◆◆ ▲
18 W CWD	3000 K	1210 lm	0 4 8 - 4 4 1 1 0 3 ■ ▲ ◆ ◆
27 W	1800-3000 K	900 lm	0 4 8 - 4 4 1 1 0 3 ■ ▲ ◆ ◆
	2700 K	2110 lm	0 4 8 - 4 4 1 2 ◆◆ ◆ ▲
	3000 K	2190 lm	
	4000 K	2340 lm	
27 W IP 44	3000 K	2190 lm	8 4 8 - 4 4 1 2 5 ◆ ▲ ◆ ◆

KARO 100 2 lamps



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2 x 13 W	2700 K	2 x 1170 lm	0 4 8 - 4 4 2 0 ◆◆ ▲
2 x 18 W CWD	3000 K	2 x 1210 lm	0 4 8 - 4 4 2 1 0 3 ■ ▲ ◆ ◆
2 x 27 W	1800-3000 K	2 x 900 lm	0 4 8 - 4 4 2 1 0 3 ■ ▲ ◆ ◆
	2700 K	2 x 2110 lm	0 4 8 - 4 4 2 2 ◆◆ ◆ ▲
	3000 K	2 x 2190 lm	
	4000 K	2 x 2340 lm	
2 x 27 W IP 44	3000 K	2 x 2190 lm	8 4 8 - 4 4 2 2 5 ◆ ▲ ◆ ◆

LIGHT DISTRIBUTION for 27W, 3000K (1 lamp)

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14162	ø0,31	1	9171	ø0,42	1	5376	ø0,65
2	3540	ø0,62	2	2292	ø0,84	2	1344	ø1,31
3	1573	ø0,93	3	1019	ø1,27	3	597	ø1,96
4	885	ø1,24	4	573	ø1,69	4	336	ø2,61
5	566	ø1,55	5	366	ø2,11	5	215	ø3,27

Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	128-128-39	0 4 8 - 4 1 9 1 1 1 6
2 lamps	243-128-39	0 4 8 - 4 1 9 2 1 1 6

MOUNTING SET WITH TRIM

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp white	126-126-58	0 4 8 - 4 1 9 1 2 1 7
1 lamp black	126-126-58	0 4 8 - 4 1 9 1 2 1 8
2 lamps white	221-126-58	0 4 8 - 4 1 9 2 2 1 7
2 lamps black	221-126-58	0 4 8 - 4 1 9 2 2 1 8

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 1 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 1 9 2 3 1 ■
snoot	0 4 8 - 2 1 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 1 9 1 2 1 ■

use only 1 optical accessory

Inspiration

Weber Store
Berlin, Germany

ARCHITECT
Gruschwitz GmbH Design & Realisierung
Munich, Germany

PRODUCT
KARO 100 trim



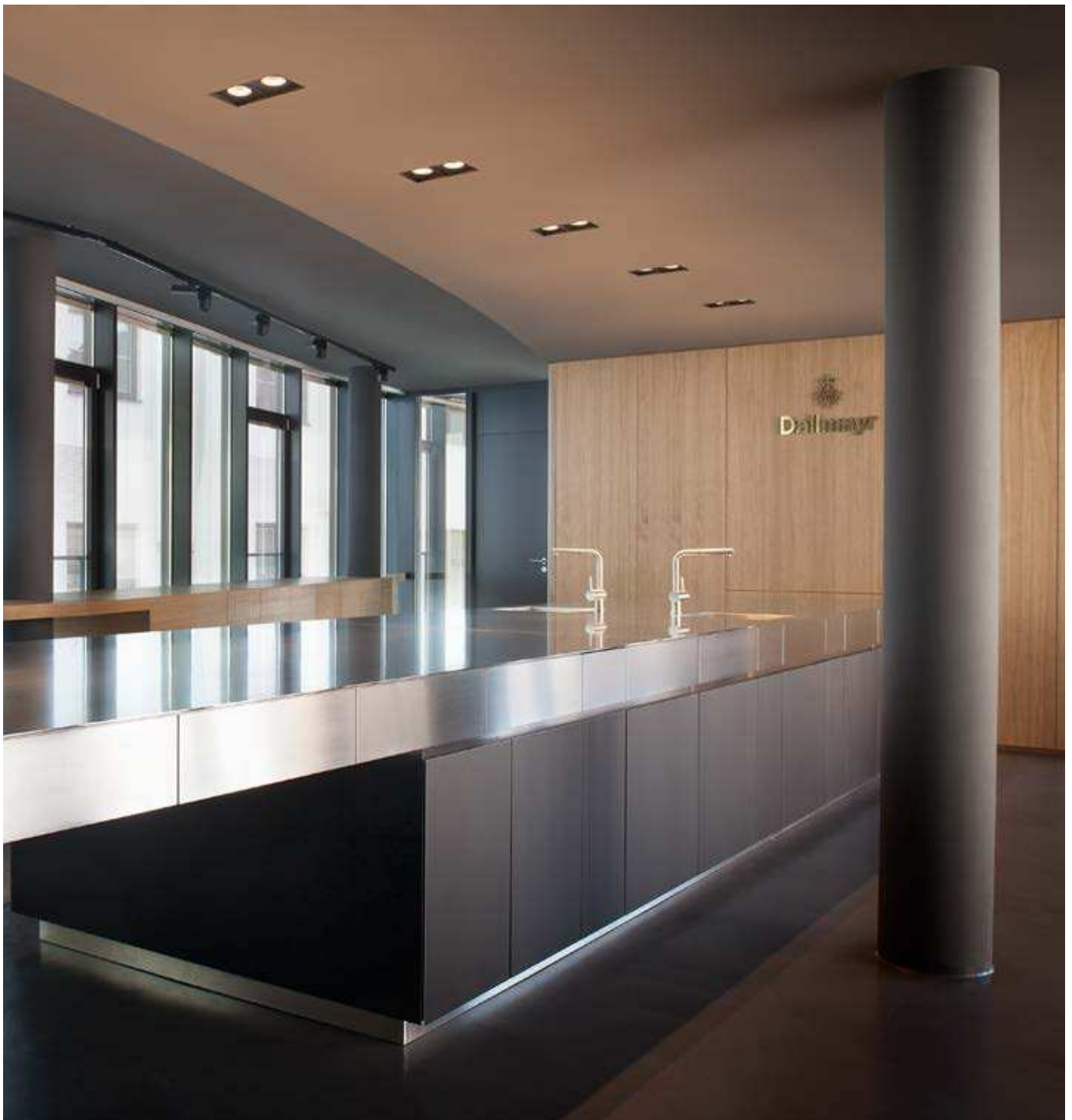


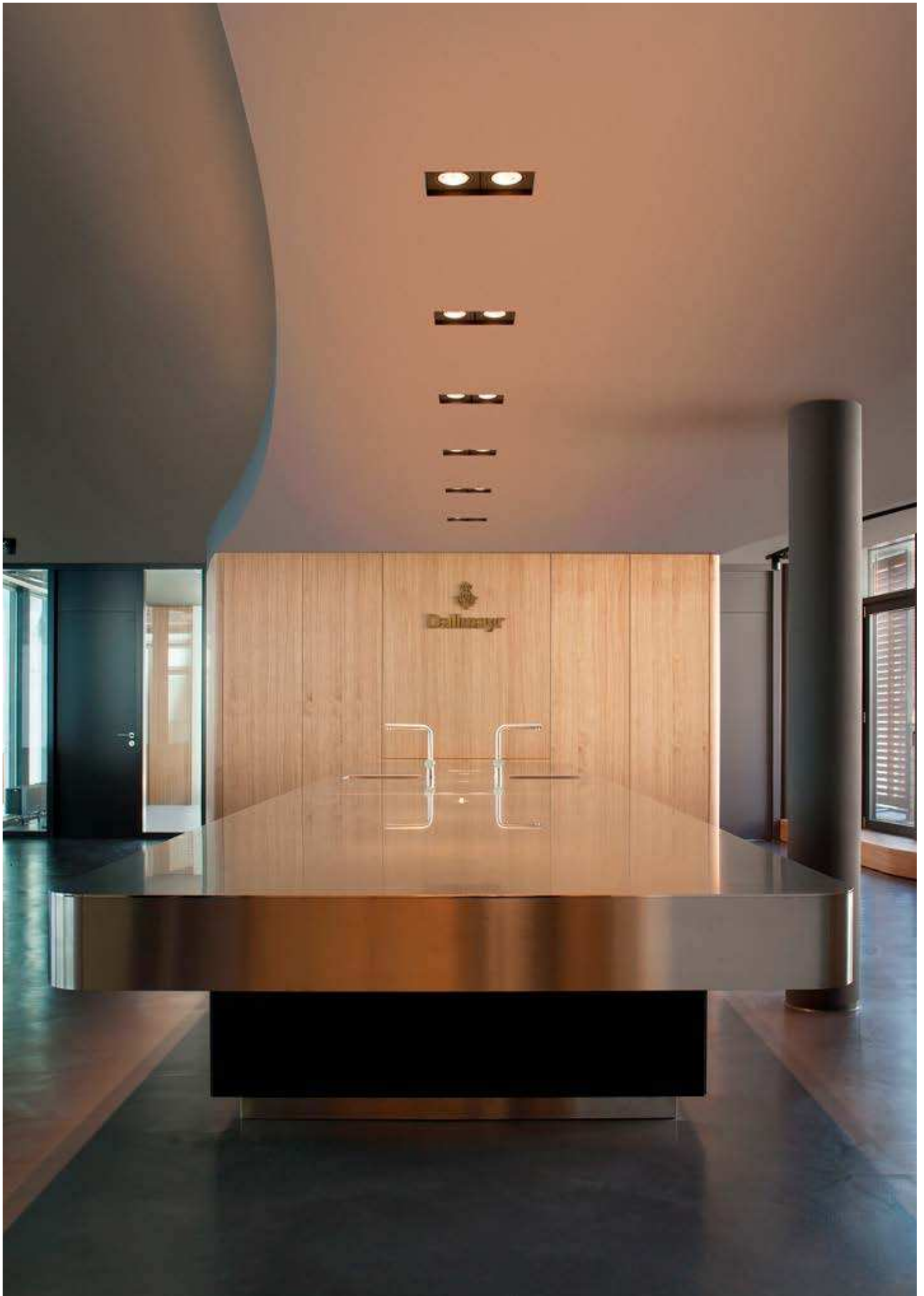
Inspiration

Dallmayr Academy
Munich, Germany

ARCHITECT
Arnold / Werner
Munich, Germany

PRODUCT
KARO 100 trimless

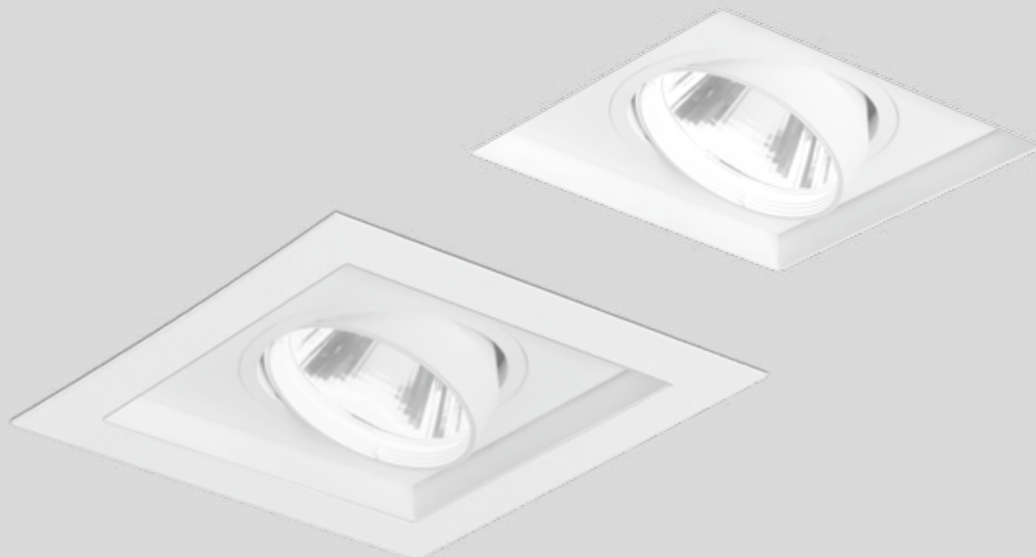




KARO 150

trim / trimless

xal.com/karo



Quickinfo

GENERAL

recessed (with trim / trimless)
IP 20

LED

COB LED module
up to 101lm/W
3000 K, 4000
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Ein- bzw. zweiflammiges Einbaugehäuse, optional mit umlaufendem Rand; Einsatz: rundes Strahlerelement aus Aluminiumdruckguss; werkzeuglose Montage im Montageset durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Einbau in unterschiedlichen Gehäusen möglich; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20; SK II; optional DALI-dimmbar

EN Single or double lamp recessed housing, optionally with trim; insert: round spotlight element in die-cast aluminium; installation without tools in mounting set with ball catch system; 360° rotatable and 35° tiltable; surface powder coated in white or black; installation possible in different housings; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20; PC II; optional DALI dimmable

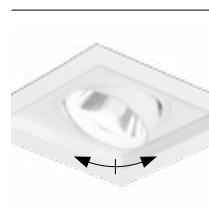
Features



exchangeable light engine



patented ball catch system



rotation adjustment 360°, tilt adjustm. 35°



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR RENDERING INDEX

CRI ≥ 90 5

COLOUR TEMPERATURE 3000K 5

CONTROL non DIM 1

MATERIAL COLOUR white 7

7

REFLECTOR flood 41° F

Extended configuration

COLOUR TEMPERATURE 4000K 6

CONTROL DIM DALI 3

MATERIAL COLOUR black 8

8

+5% surcharges

REFLECTOR spot 14° S
medium 25° M

Options on request

SPECIAL COLOUR

vogue	CRI ≥ 90
gallery	CRI 98
gourmet	CRI ≥ 80
fresh meat & fish	CRI ≥ 80
pastry	CRI ≥ 80
brilliant white	CRI ≥ 90

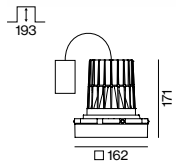
REFLECTOR wide flood 58°



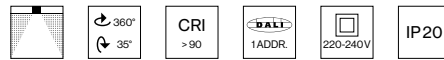
KARO 150 1 lamp



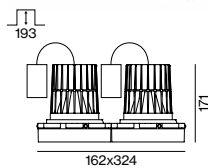
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2670 lm	0 4 8 - 4 5 1 0
44 W	3000 K	3590 lm	0 4 8 - 4 5 1 1
	4000 K	2860 lm	
	4000 K	3850 lm	



KARO 150 2 lamps



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2 × 28 W	3000 K	2 × 2670 lm	0 4 8 - 4 5 2 0
2 × 44 W	3000 K	2 × 3590 lm	0 4 8 - 4 5 2 1
	4000 K	2 × 2860 lm	
	4000 K	2 × 3850 lm	



LIGHT DISTRIBUTION for 44 W, 3000 K (1 lamp)

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32065	ø0,24	1	14573	ø0,44	1	6431	ø0,74
2	8016	ø0,49	2	3643	ø0,87	2	1607	ø1,48
3	3562	ø0,73	3	1619	ø1,31	3	714	ø2,22
4	2004	ø0,97	4	910	ø1,75	4	401	ø2,96
5	1282	ø1,21	5	582	ø2,18	5	257	ø3,70

Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	175-175-51	0 4 8 - 4 2 9 1 1 1 6
2 lamps	337-175-51	0 4 8 - 4 2 9 2 1 1 6

MOUNTING SET WITH TRIM

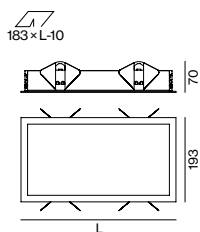
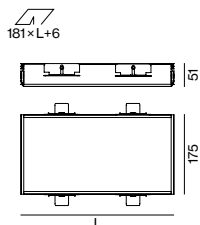
for installation in plasterboard ceilings 5-25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp white	126-126-58	0 4 8 - 4 2 9 1 2 1 7
1 lamp black	126-126-58	0 4 8 - 4 2 9 1 2 1 8
2 lamps white	221-126-58	0 4 8 - 4 2 9 2 2 1 7
2 lamps black	221-126-58	0 4 8 - 4 2 9 2 2 1 8

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 2 9 1 3 1
linear prismatic lens	0 4 8 - 2 2 9 2 3 1
snoot	0 4 8 - 2 2 9 1 1 1
snoot with honeycomb louver	0 4 8 - 2 2 9 1 2 1

use only 1 optical accessory



Inspiration

Fashion Outlet
Oelde, Germany

PRODUCT
KARO 150 trimless
TIMO 80 free

ARCHITECT
drewes+strenge architekten bda
Bielefeld, Germany

LIGHTING DESIGN
drewes+strenge architekten bda
Bielefeld, Germany





INVISIBLE 80

round trimless

xal.com/invisible



Quickinfo

GENERAL

recessed
IP 20, IP 44
plasterboard ceilings only

LED

COB LED module
up to 86lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; runde Innenkontur; geeignet für Deckenstärken von 10-25mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20 oder IP 44; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; round inner contour; suitable for ceiling thickness of 10-25mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000hours; high quality reflector with spherical facet finish; precise radiation characteristic with two different beam angles; installed and exchanged without tools; protection class IP 20 or IP 44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7



REFLECTOR ▲
flood 37° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700K 4
4000K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
silver-grey G
black 8



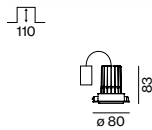
+5% surcharges

REFLECTOR ▲
medium 27° M

LENS ▲
super spot 6° (only 8W non DIM) V

Options on request

CONTROL
phase-cut DIM



INSET SASSO 80 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE	
8W	2700K	630lm	0 4 8 - 2 3 1 0 ◆ ▲	
	3000K	660lm		
	4000K	700lm		
10W CWD	1800-3000K (CRI ≥ 95)		0 4 8 - 2 3 1 0 0 3 ■ M	
	12W	2700K		950lm
		3000K		980lm
	4000K	1050lm		
12W IP44	3000K	980lm	8 4 8 - 2 3 1 2 5 ◆ F	

LIGHT DISTRIBUTION for 12W, 3000K

super spot 6° (8W)			medium 27°			flood 37°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	21750	ø0,11	1	2534	ø0,48	1	1826	ø0,68
2	5437	ø0,21	2	633	ø0,96	2	456	ø1,36
3	2416	ø0,32	3	281	ø1,44	3	202	ø2,03
4	1359	ø0,43	4	158	ø1,92	4	114	ø2,71
5	870	ø0,53	5	101	ø2,40	5	73	ø3,39

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 0 9 2 3 1 ■
snoot	0 4 8 - 2 0 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1 ■

use only 1 optical accessory

Mounting accessories

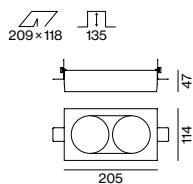
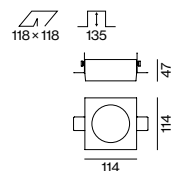
INVISIBLE 80 round

TRIMLESS MOUNTING HOUSING 80 1 LAMP
for installation in plasterboard ceilings 10-25mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 2 6 1 7

TRIMLESS MOUNTING HOUSING 80 2 LAMPS
for installation in plasterboard ceilings 10-25mm

TYPE	ORDER CODE
2 lamps	0 6 0 - 0 2 6 2 7



Inspiration

Spreedreieck
Berlin, Germany

ARCHITECT
Ankett + Heese
Berlin, Germany

PRODUCT
INVISIBLE 80 round trimless

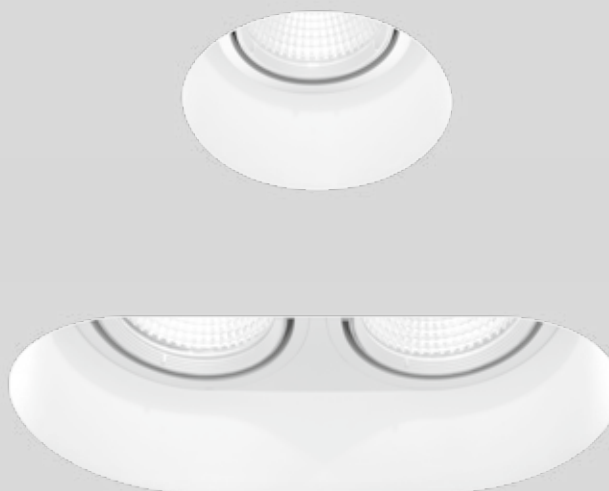




INVISIBLE 100

round trimless

xal.com/invisible



Quickinfo

GENERAL

recessed
IP20, IP44
plasterboard ceilings only

LED

COB LED module
up to 93lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 18°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; runde Innenkontur; geeignet für Deckenstärken von 10-25mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20 oder IP44; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; round inner contour; suitable for ceiling thickness of 10-25mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20 or IP44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7

7

REFLECTOR ▲
flood 36° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700K 4
4000K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
silver-grey G
black 8

G

8

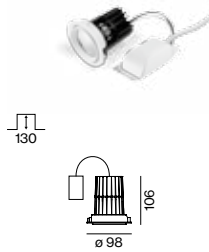
+5% surcharges

REFLECTOR ▲
spot 18° S
medium 24° M

Options on request

CONTROL
phase-cut DIM

LENS
beam angle 14°, 24°



INSET SASSO 100 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	1170 lm	0 4 8 - 2 4 1 0 ◆◆ ▲
18 W CWD	3000 K	1210 lm	0 4 8 - 2 4 1 1 0 3 ■ ▲
27 W	1800–3000 K (CRI ≥ 95)	900 lm	0 4 8 - 2 4 1 2 ◆◆ ▲
	2700 K	2110 lm	
	3000 K	2190 lm	
	4000 K	2340 lm	
27 W IP 44	3000 K	2190 lm	8 4 8 - 2 4 1 2 5 ◆ 7 F

LIGHT DISTRIBUTION for 27W, 3000K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14162	ø0,31	1	9171	ø0,42	1	5376	ø0,65
2	3540	ø0,62	2	2292	ø0,84	2	1344	ø1,31
3	1573	ø0,93	3	1019	ø1,27	3	597	ø1,96
4	885	ø1,24	4	573	ø1,69	4	336	ø2,61
5	566	ø1,55	5	366	ø2,11	5	215	ø3,27

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 1 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 1 9 2 3 1 ■
snoot	0 4 8 - 2 1 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 1 9 1 2 1 ■

use only 1 optical accessory

Mounting accessories

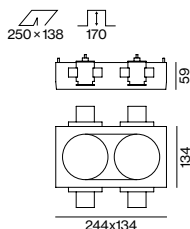
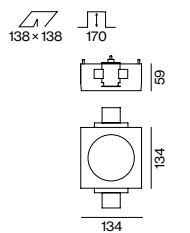
INVISIBLE 100 round

TRIMLESS MOUNTING HOUSING 100 1 LAMP
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 2 5 1 7

TRIMLESS MOUNTING HOUSING 100 2 LAMPS
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
2 lamps	0 6 0 - 0 2 5 2 7



Inspiration

Community Centre
Innertkirchen, Switzerland

ARCHITECT
Gschwind Architekten
Basel, Switzerland

PRODUCT
INVISIBLE 100 round trimless





INVISIBLE 80

asymmetric / square

trimless

xal.com/invisible



Quickinfo

GENERAL

recessed
IP 20, IP 44
plasterboard ceilings only

LED

COB LED module
up to 86lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

asymmetric illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur mit asymmetrischer Abstrahlcharakteristik; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20 oder IP 44; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour with asymmetric radiation characteristic; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20 or IP 44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ⬆
3000K 5

CONTROL ⬆
non DIM 1

MATERIAL COLOUR ▣
white 7



REFLECTOR ▲
flood 37° F

Extended configuration

COLOUR TEMPERATURE ⬆
2700K 4
4000K 6

CONTROL ⬆
DIM DALI 3

MATERIAL COLOUR ▣
silver-grey G
black 8



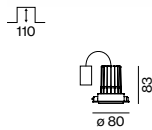
+5% surcharges

REFLECTOR ▲
medium 27° M

LENS ▲
super spot 6° (only 8W non DIM) V

Options on request

CONTROL
phase-cut DIM



INSET SASSO 80 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W	2700K	630lm	0 4 8 - 2 3 1 0 ⬆ 1 ▣ ▲
	3000K	660lm	
	4000K	700lm	
10W CWD	1800-3000K (CRI ≥ 95)		0 4 8 - 2 3 1 0 0 3 ▣ M
	2700K	950lm	
	3000K	980lm	
12W	4000K	1050lm	0 4 8 - 2 3 1 2 ⬆ ⬆ ⬆ ▣ ▲
	3000K	980lm	
12W IP44	3000K	980lm	8 4 8 - 2 3 1 2 5 ⬆ 7 F
	3000K	980lm	

LIGHT DISTRIBUTION for 12W, 3000K

super spot 6° (8W)			medium 27°			flood 37°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	21750	ø0,11	1	2534	ø0,48	1	1826	ø0,68
2	5437	ø0,21	2	633	ø0,96	2	456	ø1,36
3	2416	ø0,32	3	281	ø1,44	3	202	ø2,03
4	1359	ø0,43	4	158	ø1,92	4	114	ø2,71
5	870	ø0,53	5	101	ø2,40	5	73	ø3,39

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1 ▣
linear prismatic lens	0 4 8 - 2 0 9 2 3 1 ▣
snoot	0 4 8 - 2 0 9 1 1 1 ▣
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1 ▣

use only 1 optical accessory

Mounting accessories

INVISIBLE 80 asymmetric

TRIMLESS MOUNTING HOUSING 80
for installation in plasterboard ceilings 10-25mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 2 4 0 7

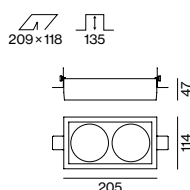
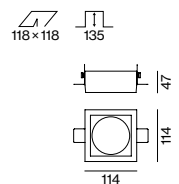
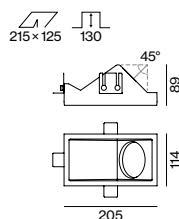
INVISIBLE 80 square

TRIMLESS MOUNTING HOUSING 80 1 LAMP
for installation in plasterboard ceilings 10-25mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 2 0 1 7

TRIMLESS MOUNTING HOUSING 80 2 LAMPS
for installation in plasterboard ceilings 10-25mm

TYPE	ORDER CODE
2 lamps	0 6 0 - 0 2 0 2 7



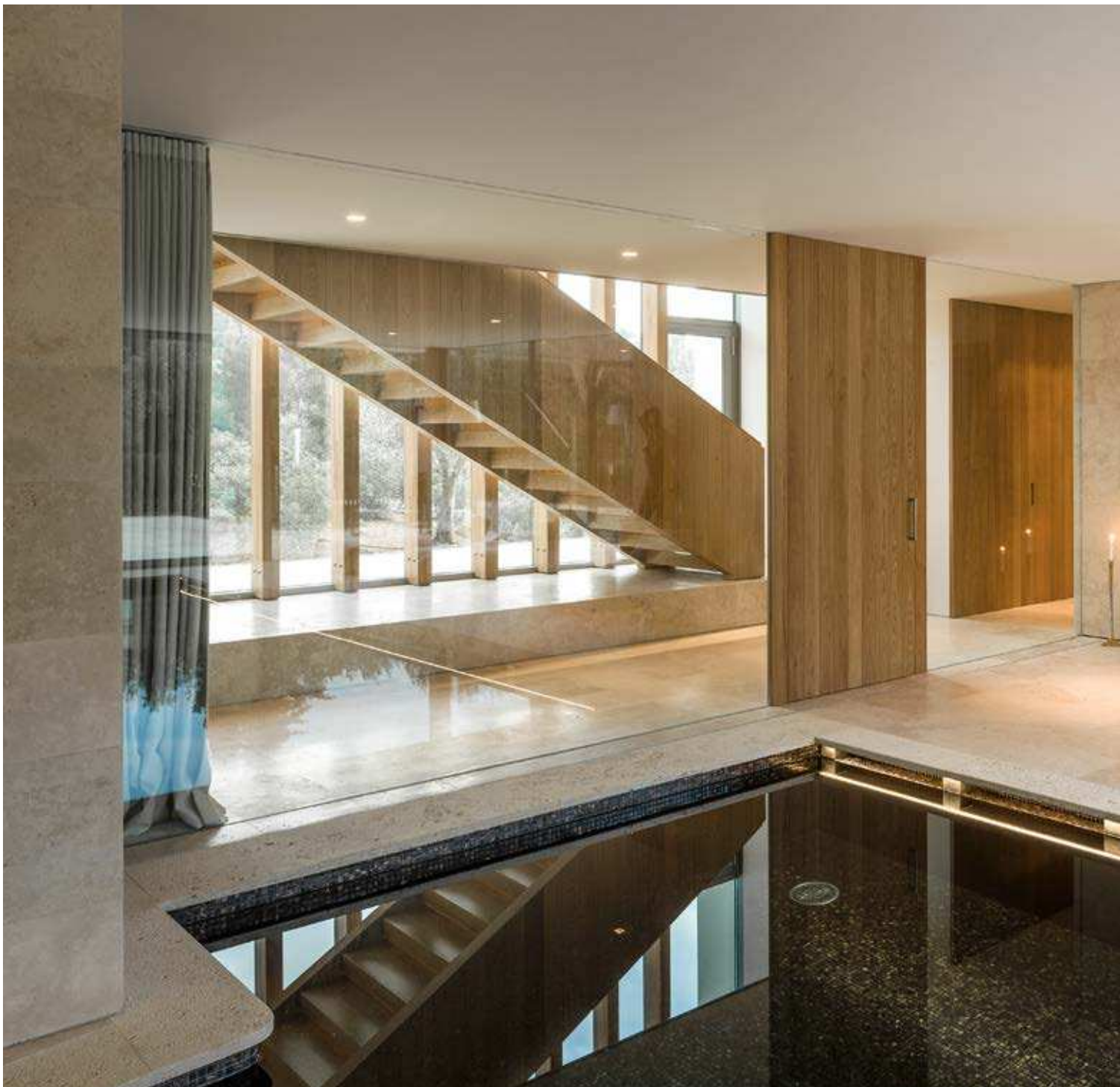
Inspiration

Private Residence
Palma de Mallorca, Spain

PRODUCT
INVISIBLE 80 asymmetric trimless
INVISIBLE 80 square trimless

ARCHITECT
Rambla 9
Palma de Mallorca, Spain

LIGHTING DESIGN
D-Mix
Palma de Mallorca, Spain



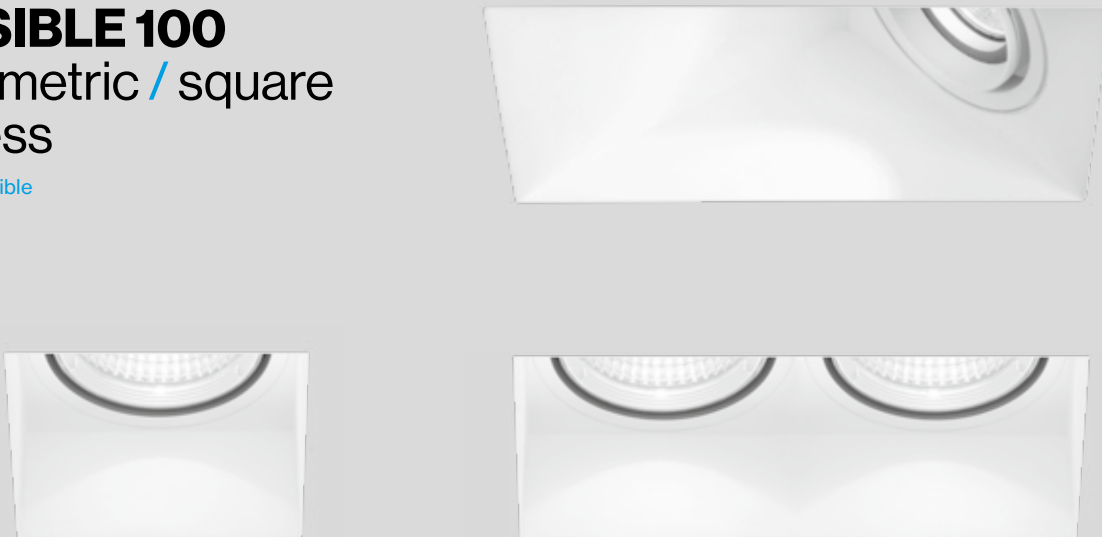


INVISIBLE 100

asymmetric / square

trimless

xal.com/invisible



Quickinfo

GENERAL

recessed
IP 20, IP 44
plasterboard ceilings only

LED

COB LED module
up to 93lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

asymmetric illumination
beam angle 18°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; kantige Innenkontur mit asymmetrischer Abstrahlcharakteristik; geeignet für Deckenstärken von 10-25mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20 oder IP 44; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; angular inner contour with asymmetric radiation characteristic; suitable for ceiling thickness of 10-25mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20 or IP 44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7



REFLECTOR ▲
flood 36° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700K 4
4000K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
silver-grey G
black 8



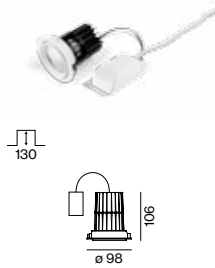
+5% surcharges

REFLECTOR ▲
spot 18° S
medium 24° M

Options on request

CONTROL
phase-cut DIM

LENS
beam angle 14°, 24°



INSET SASSO 100 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	1170 lm	0 4 8 - 2 4 1 0 ◆◆ ▲
18 W CWD	3000 K	1210 lm	
27 W	1800–3000 K (CRI ≥ 95)	900 lm	0 4 8 - 2 4 1 1 0 3 ■ F
	2700 K	2110 lm	0 4 8 - 2 4 1 2 ◆◆ ▲
	3000 K	2190 lm	
	4000 K	2340 lm	
27 W IP 44	3000 K	2190 lm	8 4 8 - 2 4 1 2 5 ◆ 7 F

LIGHT DISTRIBUTION for 27 W, 3000 K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14162	ø0,31	1	9171	ø0,42	1	5376	ø0,65
2	3540	ø0,62	2	2292	ø0,84	2	1344	ø1,31
3	1573	ø0,93	3	1019	ø1,27	3	597	ø1,96
4	885	ø1,24	4	573	ø1,69	4	336	ø2,61
5	566	ø1,55	5	366	ø2,11	5	215	ø3,27

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 1 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 1 9 2 3 1 ■
snoot	0 4 8 - 2 1 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 1 9 1 2 1 ■

use only 1 optical accessory

Mounting accessories

INVISIBLE 100 asymmetric

TRIMLESS MOUNTING HOUSING 100
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 2 4 1 7

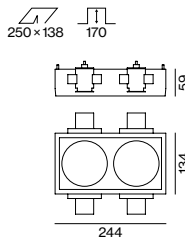
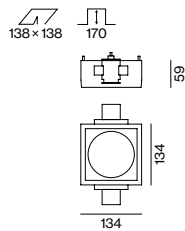
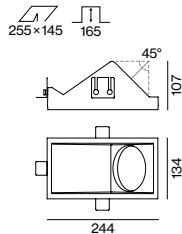
INVISIBLE 100 square

TRIMLESS MOUNTING HOUSING 100 1 LAMP
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
2 lamps	0 6 0 - 0 2 3 1 7

TRIMLESS MOUNTING HOUSING 100 2 LAMPS
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
2 lamps	0 6 0 - 0 2 3 2 7



Inspiration

Doctor's Practice, Dr. Chaker
Geldern, Germany

PRODUCT
INVISIBLE 100 square trimless

ARCHITECT
Göke Praxiskonzepte
Düsseldorf, Germany

LIGHTING DESIGN
Göke Praxiskonzepte
Düsseldorf, Germany

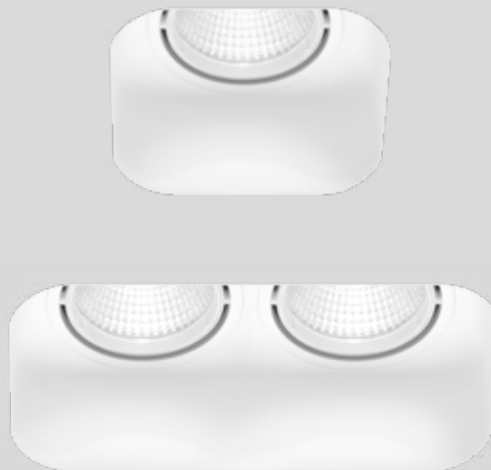




INVISIBLE 80

retro trimless

xal.com/invisible



Quickinfo

GENERAL

recessed
IP20, IP44
plasterboard ceilings only

LED

COB LED module
up to 86lm/W
2700K, 3000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20 oder IP44; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20 or IP44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7



REFLECTOR ▲
flood 37° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700K 4
4000K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
silver-grey G
black 8



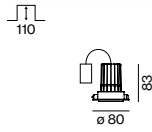
+5% surcharges

REFLECTOR ▲
medium 27° M

LENS ▲
super spot 6° (only 8W non DIM) V

Options on request

CONTROL
phase-cut DIM



INSET SASSO 80 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE	
8W	2700K	630lm	0 4 8 - 2 3 1 0 ◆ ▲	
	3000K	660lm		
	4000K	700lm		
10W CWD	1800-3000K (CRI ≥ 95)		0 4 8 - 2 3 1 0 0 3 ■ M	
	12W	2700K		950lm
		3000K		980lm
	4000K	1050lm		
12W IP44	3000K	980lm	8 4 8 - 2 3 1 2 5 ◆ F	

LIGHT DISTRIBUTION for 12W, 3000K

super spot 6° (8W)			medium 27°			flood 37°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	21750	ø0,11	1	2534	ø0,48	1	1826	ø0,68
2	5437	ø0,21	2	633	ø0,96	2	456	ø1,36
3	2416	ø0,32	3	281	ø1,44	3	202	ø2,03
4	1359	ø0,43	4	158	ø1,92	4	114	ø2,71
5	870	ø0,53	5	101	ø2,40	5	73	ø3,39

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 0 9 2 3 1 ■
snoot	0 4 8 - 2 0 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1 ■

use only 1 optical accessory

Mounting accessories

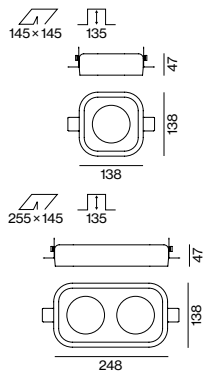
INVISIBLE 80 retro

TRIMLESS MOUNTING HOUSING 80 1 LAMP
for installation in plasterboard ceilings 10-25 mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 0 7 1 7

TRIMLESS MOUNTING HOUSING 80 2 LAMPS
for installation in plasterboard ceilings 10-25 mm

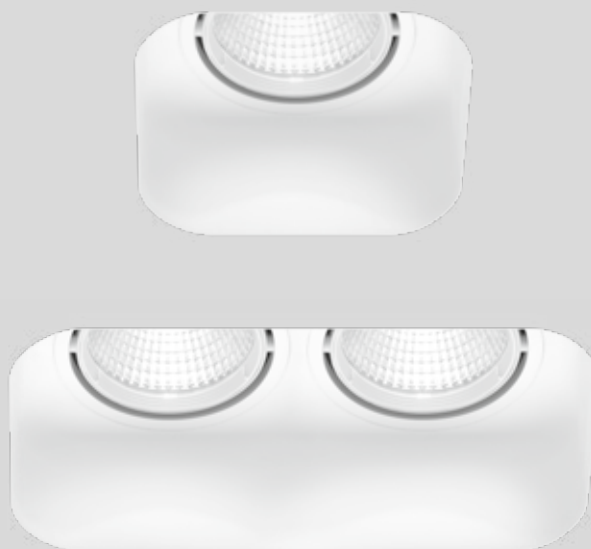
TYPE	ORDER CODE
2 lamps	0 6 0 - 0 0 7 2 7



INVISIBLE 100

retro trimless

xal.com/invisible



Quickinfo

GENERAL

recessed
IP20, IP44
plasterboard ceilings only

LED

COB LED module
up to 93lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 18°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

Description

DE Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; ein oder zwei Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20 oder IP44; SK II; optional DALI-dimmbar

EN Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one or two spotlights (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20 or IP44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆◆
non DIM 1

MATERIAL COLOUR ■
white 7



REFLECTOR ▲
flood 36° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700K 4
4000K 6

CONTROL ◆◆
DIM DALI 3

MATERIAL COLOUR ■
silver-grey G
black 8



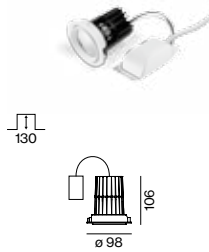
+5% surcharges

REFLECTOR ▲
spot 18° S
medium 24° M

Options on request

CONTROL
phase-cut DIM

LENS
beam angle 14°, 24°



INSET SASSO 100 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	1170 lm	0 4 8 - 2 4 1 0 ◆◆ ▲
18 W CWD	3000 K	1210 lm	0 4 8 - 2 4 1 1 0 3 ■ ▲
27 W	1800–3000 K (CRI ≥ 95)	900 lm	0 4 8 - 2 4 1 2 ◆◆ ▲
	2700 K	2110 lm	
	3000 K	2190 lm	
	4000 K	2340 lm	
27 W IP 44	3000 K	2190 lm	8 4 8 - 2 4 1 2 5 ◆ 7 F

LIGHT DISTRIBUTION for 27 W, 3000 K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14162	ø0,31	1	9171	ø0,42	1	5376	ø0,65
2	3540	ø0,62	2	2292	ø0,84	2	1344	ø1,31
3	1573	ø0,93	3	1019	ø1,27	3	597	ø1,96
4	885	ø1,24	4	573	ø1,69	4	336	ø2,61
5	566	ø1,55	5	366	ø2,11	5	215	ø3,27

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 1 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 1 9 2 3 1 ■
snoot	0 4 8 - 2 1 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 1 9 1 2 1 ■

use only 1 optical accessory

Mounting accessories

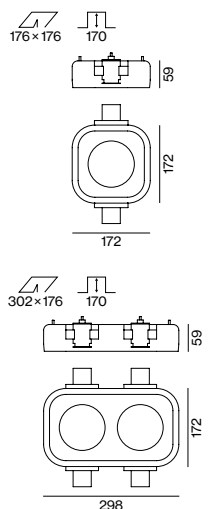
INVISIBLE 100 retro

TRIMLESS MOUNTING HOUSING 100 1 LAMP
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 1 6 1 7

TRIMLESS MOUNTING HOUSING 100 2 LAMPS
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
2 lamps	0 6 0 - 0 1 6 2 7



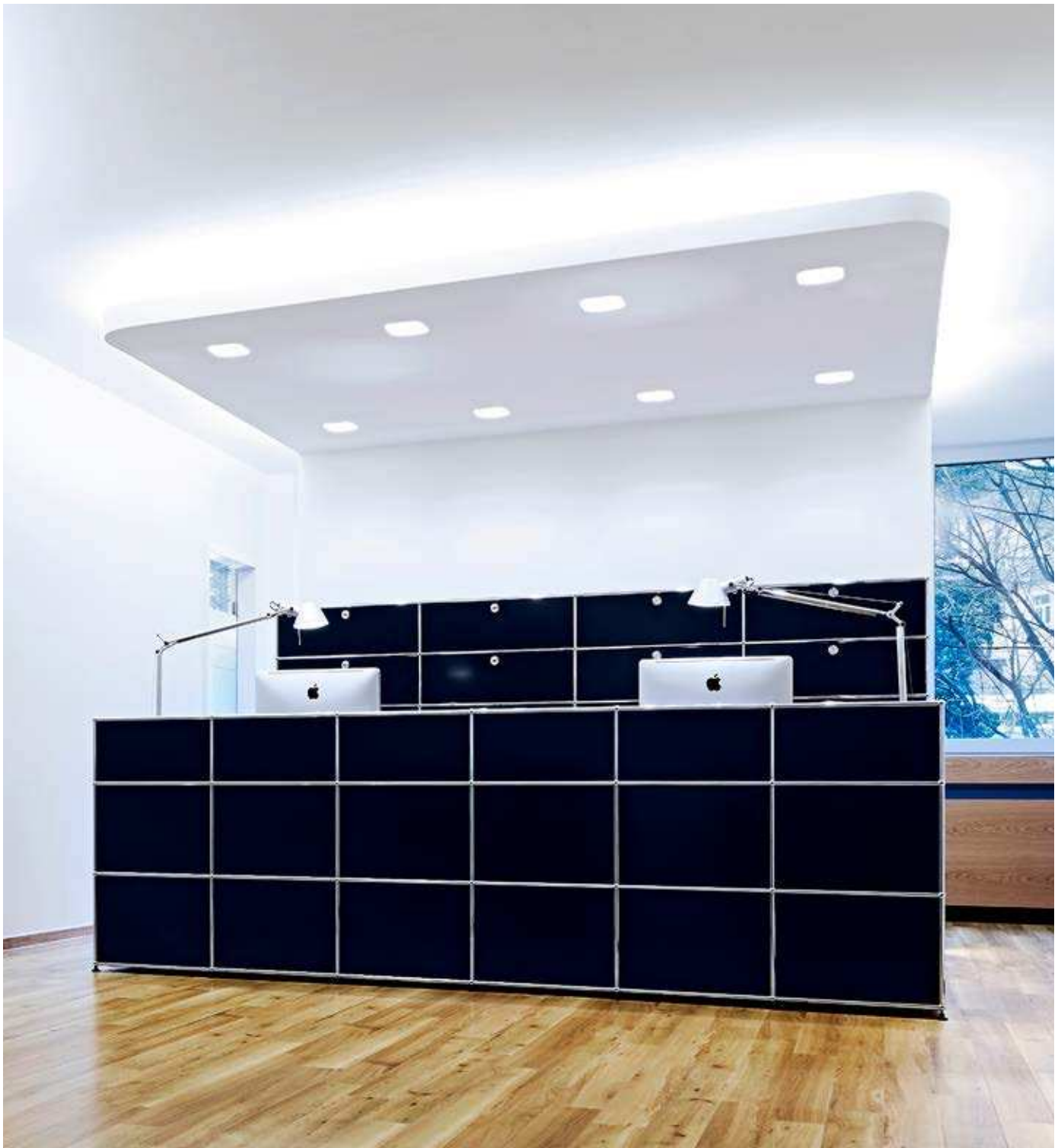
Inspiration

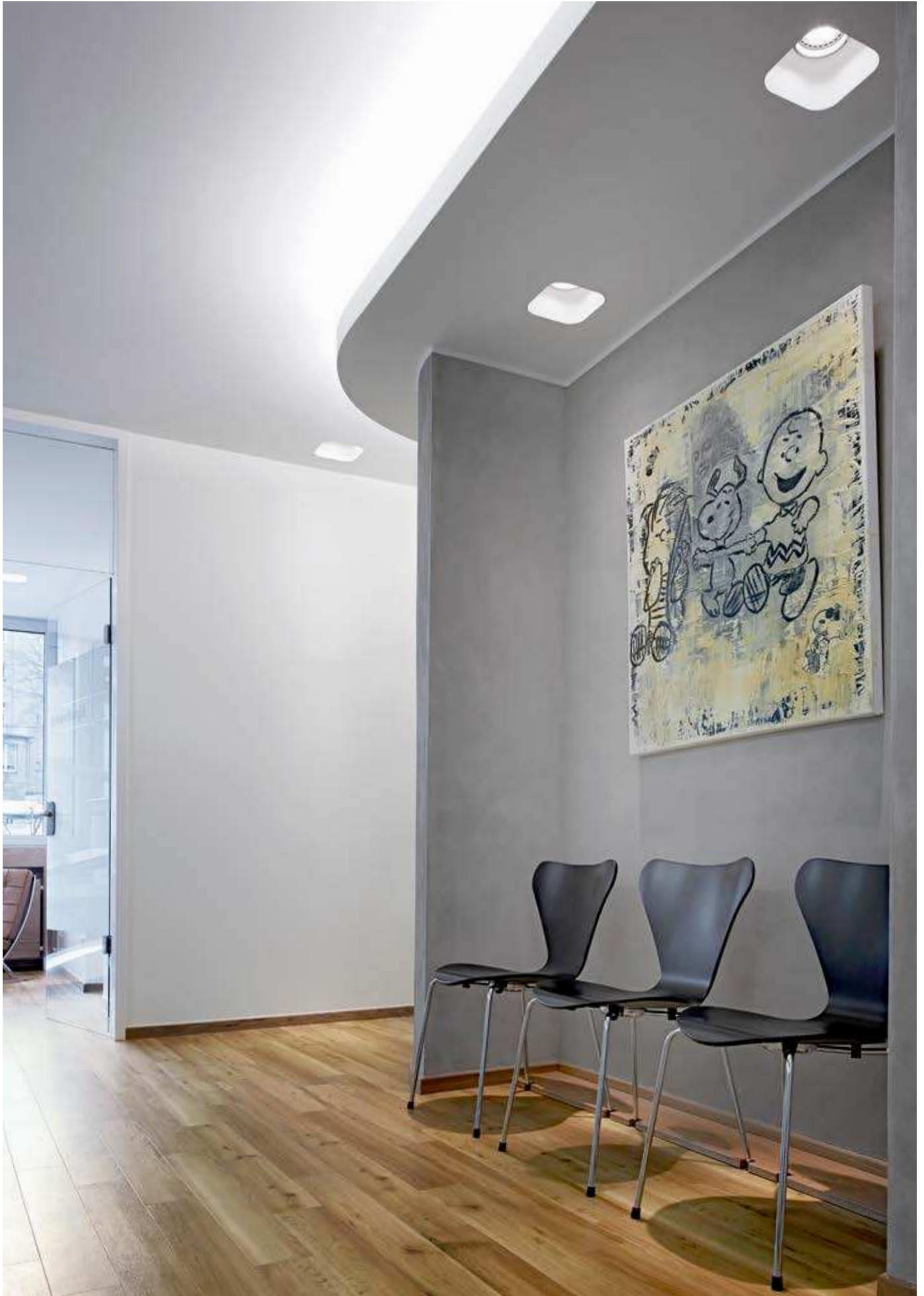
Doctor 's Practice, Dr. Wüllenweber
Aachen, Germany

PRODUCT
INVISIBLE 100 retro trimless

ARCHITECT
Göke Praxiskonzepte
Düsseldorf, Germany

LIGHTING DESIGN
Göke Praxiskonzepte
Düsseldorf, Germany





BUBBLE 80

trimless

xal.com/bubble



Quickinfo

GENERAL

recessed
IP 20, IP 40
plasterboard ceilings only

LED

COB LED module
up to 86lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 6°, 27°, 37°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

BUBBLE

trimless
[page 176](#)



Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20 oder IP 44; SK II; optional DALI-dimmbar

EN Hyperbolic shaped installation housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20 or IP 44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7

7

REFLECTOR ▲
flood 37° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700K 4
4000K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
silver-grey G
black 8

G 8

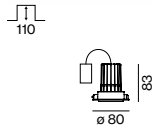
+5% surcharges

REFLECTOR ▲
medium 27° M

LENS ▲
super spot 6° (only 8W non DIM) V

Options on request

CONTROL
phase-cut DIM



INSET SASSO 80 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE	
8 W	2700K	630lm	0 4 8 - 2 3 1 0 ◆ ▲	
	3000K	660lm		
	4000K	700lm		
10 W CWD	1800-3000K (CRI ≥ 95)		0 4 8 - 2 3 1 0 0 3 ■ M	
	12 W	2700K		0 4 8 - 2 3 1 2 ◆ ▲
		3000K		
	4000K	1050lm		
12 W IP 44	3000K	980lm	8 4 8 - 2 3 1 2 5 ◆ F	

LIGHT DISTRIBUTION for 12W, 3000K

super spot 6° (8W)			medium 27°			flood 37°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	21750	ø0,11	1	2534	ø0,48	1	1826	ø0,68
2	5437	ø0,21	2	633	ø0,96	2	456	ø1,36
3	2416	ø0,32	3	281	ø1,44	3	202	ø2,03
4	1359	ø0,43	4	158	ø1,92	4	114	ø2,71
5	870	ø0,53	5	101	ø2,40	5	73	ø3,39

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 0 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 0 9 2 3 1 ■
snoot	0 4 8 - 2 0 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 0 9 1 2 1 ■

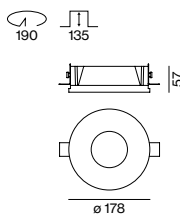
use only 1 optical accessory

Mounting accessories

BUBBLE 80

TRIMLESS MOUNTING HOUSING 80
for installation in plasterboard ceilings 10-25mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 2 8 1 7



Inspiration

Eggersmann Showroom
Hiddenhausen, Germany

ARCHITECT
BKS Architekten
Lübbecke, Germany

PRODUCT
BUBBLE 80 trimless





BUBBLE 100

trimless

xal.com/bubble



Quickinfo

GENERAL

recessed
IP 20, IP 44
plasterboard ceilings only

LED

COB LED module
up to 93lm/W
2700K, 3000K, 4000K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 18°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

BUBBLE

trimless
[page 176](#)



Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20 oder IP 44; SK II; optional DALI-dimmbar

EN Hyperbolic shaped installation housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP 20 or IP 44; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000 K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7

7

REFLECTOR ▲
flood 36° F

Extended configuration

COLOUR TEMPERATURE ◆◆
2700 K 4
4000 K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
silver-grey G
black 8

G

8

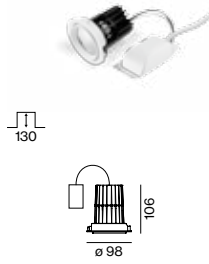
+5% surcharges

REFLECTOR ▲
spot 18° S
medium 24° M

Options on request

CONTROL
phase-cut DIM

LENS
beam angle 14°, 24°



INSET SASSO 100 flush



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700 K	1170 lm	0 4 8 - 2 4 1 0 ◆◆ ▲
	3000 K	1210 lm	
18 W CWD	1800–3000 K (CRI ≥ 95)	900 lm	0 4 8 - 2 4 1 1 0 3 ■ F
27 W	2700 K	2110 lm	0 4 8 - 2 4 1 2 ◆◆ ▲
	3000 K	2190 lm	
	4000 K	2340 lm	
27 W IP 44	3000 K	2190 lm	8 4 8 - 2 4 1 2 5 ◆ 7 F

LIGHT DISTRIBUTION for 27 W, 3000 K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	14162	ø0,31	1	9171	ø0,42	1	5376	ø0,65
2	3540	ø0,62	2	2292	ø0,84	2	1344	ø1,31
3	1573	ø0,93	3	1019	ø1,27	3	597	ø1,96
4	885	ø1,24	4	573	ø1,69	4	336	ø2,61
5	566	ø1,55	5	366	ø2,11	5	215	ø3,27

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 1 9 1 3 1 ■
linear prismatic lens	0 4 8 - 2 1 9 2 3 1 ■
snoot	0 4 8 - 2 1 9 1 1 1 ■
snoot with honeycomb louver	0 4 8 - 2 1 9 1 2 1 ■

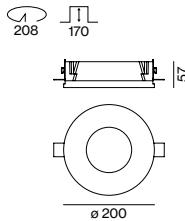
use only 1 optical accessory

Mounting accessories

BUBBLE 100

TRIMLESS MOUNTING HOUSING 100
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 2 9 2 7



Inspiration

Nestlé Super Premium,
Mövenpick Ice Cream Gallery
Zurich, Switzerland

ARCHITECT

Concept Consult Design Sàrl
Lausanne, Switzerland

LIGHTING DESIGN

Aebischer et Bovigny
Lausanne, Switzerland

PRODUCT

BUBBLE 100 trimless





BUBBLE 150

trimless

xal.com/bubble



Quickinfo

GENERAL

recessed
IP20
plasterboard ceilings only

LED

COB LED module
up to 101lm/W
3000K, 4000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

gypsum housing
aluminium inset
powder-coated

BUBBLE

trimless
[page 176](#)



Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; abgerundete Innenkontur; geeignet für Deckenstärken von 10-25 mm; ruhiges Deckenbild durch zurückversetzte Leuchtebene; ein Strahler (SASSO) werkzeuglos einsetzbar durch Kugelschnappsystem; 360° dreh- und 35° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Hyperbolic shaped installation housing made of plaster (paintable); for trimless installation in plasterboard ceilings; rounded internal contour; suitable for ceiling thickness of 10-25 mm; uncluttered ceiling look through recessed lighting level; one spotlight (SASSO), installation with ball catch system, without tools; 360° rotatable and 35° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; optional DALI dimmable

Features



exchangeable light engine



patented ball catch system



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR RENDERING INDEX

CRI ≥ 90 5

COLOUR TEMPERATURE ☐☐
3000K 5

CONTROL ⬇
non DIM 1

MATERIAL COLOUR ☑
white 7

7

REFLECTOR ▲
flood 41° F

Extended configuration

COLOUR TEMPERATURE ☐☐
4000K 6

CONTROL ⬇
DIM DALI 3

MATERIAL COLOUR ☑
silver-grey G
black 8

G

8

+5% surcharges

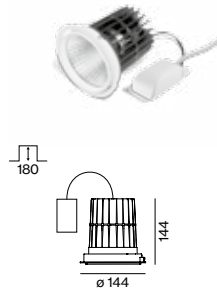
REFLECTOR ▲
spot 14° S
medium 25° M

Options on request

SPECIAL COLOUR

vogue	CRI ≥ 90
gallery	CRI 98
gourmet	CRI ≥ 80
fresh meat & fish	CRI ≥ 80
pastry	CRI ≥ 80
brilliant white	CRI ≥ 90

REFLECTOR
wide flood 58°



INSET SASSO 150 flush



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2670 lm	0 4 8 - 2 5 1 0 ☐☐☐▲
44 W	3000 K	3590 lm	0 4 8 - 2 5 1 1 ☐☐☐▲
	4000 K	2860 lm	
	4000 K	3850 lm	

LIGHT DISTRIBUTION for 44 W, 3000 K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32065	ø0,24	1	14573	ø0,44	1	6431	ø0,74
2	8016	ø0,49	2	3643	ø0,87	2	1607	ø1,48
3	3562	ø0,73	3	1619	ø1,31	3	714	ø2,22
4	2004	ø0,97	4	910	ø1,75	4	401	ø2,96
5	1282	ø1,21	5	582	ø2,18	5	257	ø3,70

Optical accessories

TYPE	ORDER CODE
honeycomb louver	0 4 8 - 2 2 9 1 3 1 ☑
linear prismatic lens	0 4 8 - 2 2 9 2 3 1 ☑
snoot	0 4 8 - 2 2 9 1 1 1 ☑
snoot with honeycomb louver	0 4 8 - 2 2 9 1 2 1 ☑

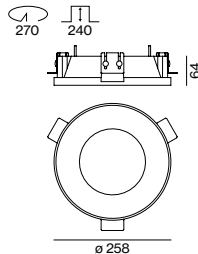
use only 1 optical accessory

Mounting accessories

BUBBLE 150

TRIMLESS MOUNTING HOUSING 150
for installation in plasterboard ceilings 10–25 mm

TYPE	ORDER CODE
1 lamp	0 6 0 - 0 3 0 1 7



Inspiration

Pharmacy Rondell
Munich, Germany

ARCHITECT
reginadahmeningenhoven
Düsseldorf, Germany

LIGHTING DESIGN
Tropp Lighting Design
Weilheim, Germany

PRODUCT
BUBBLE trimless



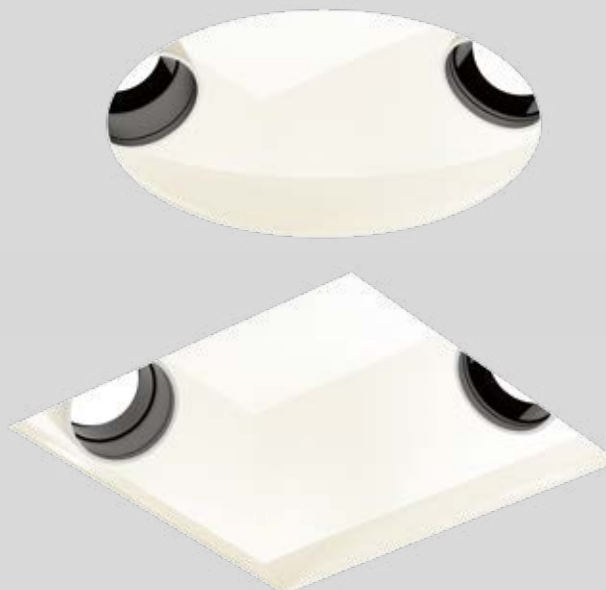


CAVO

round / square

trimless

xal.com/cavo



Quickinfo

GENERAL

recessed trimless

IP20

patented

LED

up to 74 lm/W

3000 K

CRI ≥ 90

ESTIMATED LED LIFETIME

L80/50000 h

OPTICAL

direct illumination

beam angle 14°, 23°

ELECTRICAL

220–240 V

non DIM, DIM DALI

PHYSICAL

aluminium, gypsum

powder-coated

housing: glow, no glow

Description

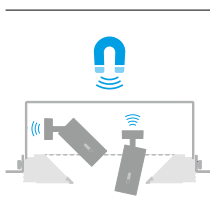
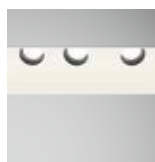
DE Einbaugehäuse aus Stahlblech für randlosen Einbau in Gipskartondecken, Unterseite aus aluminiumverstärktem Gips; wahlweise mit rundem oder quadratischem Ausschnitt; kein Ausbrechen der Kanten; bis zu 3 zylindrische Strahlerköpfe mittels Magnethalter werkzeuglos einsetzbar; einfacher elektrischer Anschluss der Strahler durch verpolungssichere Plug&Play Verbindung; Strahlerkopf 360° dreh- und 90° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optional: Indirektlichtanteil im Gehäuse mittels DALI stufenlos dimmbar; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; Hot Plug-Schutz; optional nicht dimmbar; flimmerfreier Sehkomfort durch analoge Stromstärkenregelung (Minimalwert 1%)

EN Recessed housing made of pressed steel sheet for flush installation in plasterboard ceilings, underside of aluminium-reinforced plaster; alternatively with round or square cut-out; no break-out of edges; up to 3 cylindrical spotlight heads can be installed without tools by means of magnetic holders; simple electrical connection of the spotlights due to non-reversible plug and play connection; spotlight head rotates 360° and tilts 90°; surface powder coated in white or black; optionally: indirect light component in housing continuously adjustable dimming via DALI; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; good glare reduction due to recessed light point plane; incl. high quality lens system; precise radiation characteristics with different beam angles; protection class IP20; PC II; hot plug protection; optional non-dimmable; flicker-free visual comfort through analogue current control (minimum value 1%)

Features

CAVO system
trimless

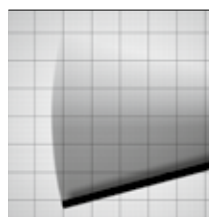
[page 458](#)



magnetic holders for
tool-free mounting



hot plug safe



flicker-free dimming
(minimum value of 1%)



optical accessories
(maximum 1 piece)

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL ▶
DIM DALI 3

MATERIAL COLOUR ▶
white 7
black 8



REFLECTOR ▲
medium 23° M

Extended configuration

CONTROL ▶
non DIM 1

REFLECTOR ▲
spot 14° S

Options on request

COLOUR TEMPERATURE
1800–3000K CWD

CONTROL
ZigBee 3.0

REFLECTOR
super spot 8°

OPTICAL ACCESSORIES

elliptical sculpture foil
snoot
colour filter (red, blue, green, etc.)
only for JUST 32 FOCUS



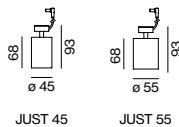
JUST 32 FOCUS 17–43°



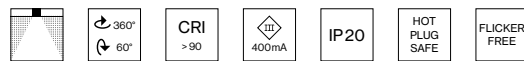
SYSTEM POWER **COLOUR TEMP.** **LUMINOUS FLUX** **ORDER CODE**
5 W 3000K 250lm 0 4 9 - 8 2 1 1 5 3 ▶
max. 3 spotlights 5W

LIGHT DISTRIBUTION

min. angle 17°			max. angle 43°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	1561	0,30	1	449	0,80
2	390	0,59	2	112	1,59
3	173	0,89	3	49	2,39
4	97	1,19	4	28	3,18
5	62	1,49	5	17	3,98



JUST 45 / 55



JUST 45
SYSTEM POWER **COLOUR TEMP.** **LUMINOUS FLUX** **ORDER CODE**
9 W 3000K 670lm 0 4 9 - 8 3 0 2 5 3 ▶ M
max. 3 spotlights 9W

JUST 55
SYSTEM POWER **COLOUR TEMP.** **LUMINOUS FLUX** **ORDER CODE**
15 W 3000K 1090lm 0 4 9 - 8 4 0 0 5 3 ▶ M
max. 1 spotlights 15W + 1 spotlight 9W

LIGHT DISTRIBUTION

JUST45 medium 23°			JUST 55 spot 14°			JUST 55 medium 23°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	3387	0,40	1	10212	0,25	1	4449	0,40
2	846	0,81	2	2553	0,50	2	1112	0,80
3	376	1,21	3	1134	0,76	3	494	1,21
4	211	1,61	4	638	1,01	4	278	1,61
5	135	2,02	5	408	1,26	5	177	2,01

Mounting accessories

MOUNTING HOUSING 1 DALI address, max. 27W
for trimless installation in plasterboard ceilings 8-25mm, \blacksquare 4,5 kg

TYPE	L-W-H (mm)	ORDER CODE
round	260:260:120	<u>0 4 9 - 8 8 0 3 0</u> ▶ ▶
square	260:260:120	<u>0 4 9 - 8 8 1 3 0</u> ▶ ▶

incl. power supply 220–240V AC, 50–60Hz, ENEC approved

MOUNTING HOUSING WITH GLOWING (3000K) 2 DALI addr., max. 27W
for trimless installation in plasterboard ceilings 8-25mm, \blacksquare 4,5 kg

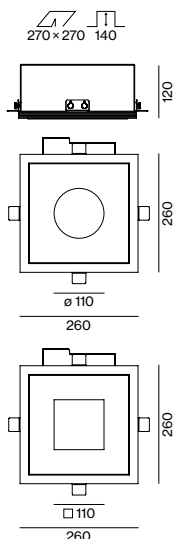
TYPE	L-W-H (mm)	ORDER CODE
round	260:260:120	<u>0 4 9 - 8 8 2 3 5</u> ▶ ▶ ▶ ▶ ▶
square	260:260:120	<u>0 4 9 - 8 8 3 3 5</u> ▶ ▶ ▶ ▶ ▶

incl. power supply 220–240V AC, 50–60Hz, ENEC approved

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
JUST 32 FOCUS	30-4	<u>0 0 7 - 1 9 6 5 1 6 8</u>
JUST 45	42-3	<u>0 0 7 - 1 9 6 5 1 8 8</u>
JUST 55	50-3	<u>0 0 7 - 1 9 6 5 1 9 8</u>



Inspiration

Private Residence
Graz, Austria

ARCHITECT
GSarchitects
Graz, Austria

PRODUCT
CAVO round
JUST 55





Inspiration

Art Gallery
Visualisation

PRODUCT
CAVO square
JUST 45





HANS GEORG GERN

Born Hans Georg Gern in 1898, he grew up in a family of artists and became a painter. He studied at the Academy of Art in Berlin (1926). He was awarded the title of professor for political economy. He then applied at the Academy of West Berlin and moved there in 1951, completing his studies in 1952. During this period he adopted the surname Gern, reflecting his place of birth (Dachstein).

WEDER

Weder
Weder
Weder

WEDER

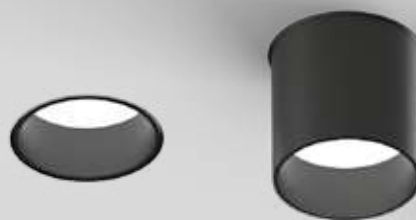
Weder
Weder
Weder



MOVE IT 45

round trimless

xal.com/move-it



Quickinfo

GENERAL

recessed trimless
IP 40

LED

High-power LED
up to 65lm/W
up to 730lm
3000K, CWD
CRI ≥ 80, CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 23°, 35°
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
lacquered

Description

DE Rundes Strahlerelement aus Aluminium; Oberfläche schwarz oder weiß lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; optional mit asymmetrischer Lichtverteilung; Einbau in unterschiedlichen Gehäusen möglich; Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar: deckenbündig, 25 mm oder 35 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 80 oder CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 2 verschiedenen Ausstrahlwinkeln; Schutzart IP 40; SK II; optional nicht dimmbar

EN Round spotlight element in aluminium; surface lacquered in black or white; installation without tools in mounting set with ball catch system; optional with asymmetric light distribution; installation possible in different housings; Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000K; optional with CWD (Colour Warm Dimming); CRI ≥ 80 or CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 2 different beam angles; protection class IP 40; PC II; optional non-dimmable

Features



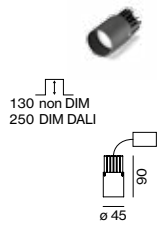
tool-free height
adjustment



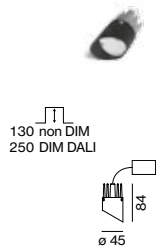
skimmed into plaster-
board ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE	
3000K	5
CONTROL	
DIM DALI	3
MATERIAL COLOUR	
black lacquered	8



LENS	
medium 23°	M
flood 35°	F



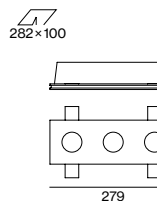
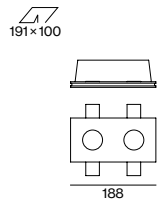
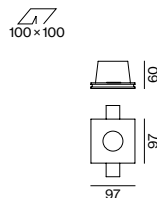
Extended configuration

COLOUR TEMPERATURE	
CWD 1800-3000K	E
CONTROL	
non DIM	1
MATERIAL COLOUR	
white lacquered	7



Options on request

COLOUR TEMPERATURE	
2700K	



MOVE IT 45 round trimless



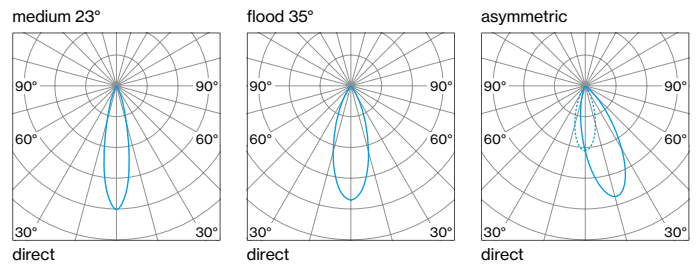
SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4W	3000K (CRI ≥ 80)	240lm	0 6 3 - 0 0 2 2 5 <input type="checkbox"/> 8 F
11W	3000K	730lm	0 6 3 - 0 0 2 3 5 <input type="checkbox"/> <input type="checkbox"/> M
10W CWD	1800-3000K	430lm	0 6 3 - 0 0 2 3 E 3 <input type="checkbox"/> <input type="checkbox"/> A

MOVE IT 45 round trimless asymmetric



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	3000K	600lm	0 6 3 - 0 1 2 3 5 <input type="checkbox"/> <input type="checkbox"/> A
10W CWD	1800-3000K	360lm	0 6 3 - 0 1 2 3 E 3 <input type="checkbox"/> <input type="checkbox"/> A

LIGHT DISTRIBUTION



Mounting accessories

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	97-97-60	0 6 3 - 0 6 1 0 0 1 7

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	188-97-60	0 6 3 - 0 6 2 0 0 1 7

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

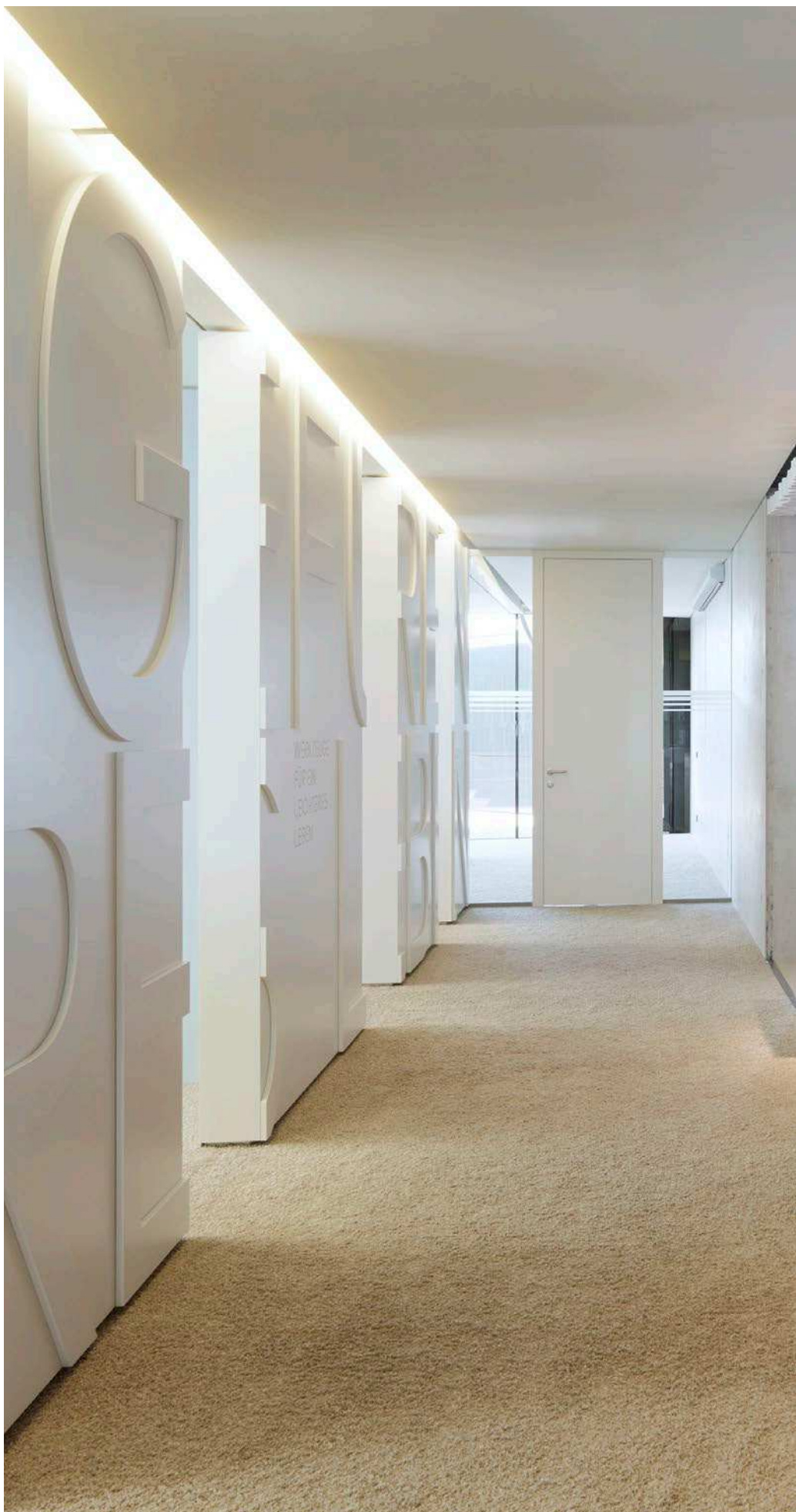
TYPE	L-W-H (mm)	ORDER CODE
3 lamps	279-97-60	0 6 3 - 0 6 3 0 0 1 7

Inspiration

Pro Medico
Graz, Austria

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

PRODUCT
MOVE IT 45 round trimless

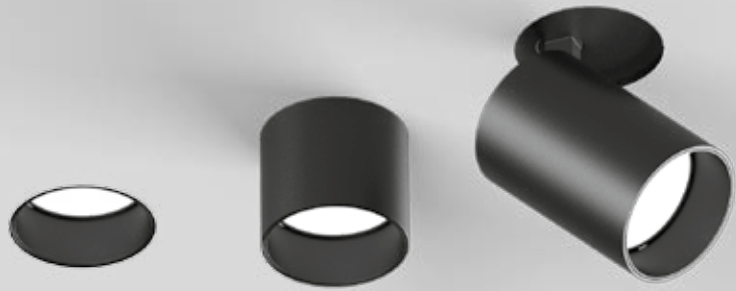




MOVE IT 45

round flex trimless

xal.com/move-it



Quickinfo

GENERAL

recessed trimless
IP 40

LED

High-power LED
up to 65lm/W
up to 730lm
3000 K, CWD
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90/50000h

OPTICAL

direct illumination
beam angle 8°, 23°

ELECTRICAL

220–240 V
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
height-adjustable
355° excentric rotatable
90° tiltable

Description

DE Rundes Strahlerelement aus Aluminium; Oberfläche schwarz oder weiß pulverbeschichtet; werkzeuglose Montage im Montageset; Einbau in unterschiedlichen Gehäusen möglich; Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeug- und stufenlos höhenverstellbar: deckenbündig oder teilweise bzw. ganz herausragend; Strahlerkopf 355° dreh- und 90° schwenkbar; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; optional mit CWD (Colour Warm Dimming); CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 2 verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; optional nicht dimmbar

EN Round spotlight element in aluminium; surface powder coated in black or white; installation without tools with mounting kit; installation possible in different housings; Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; can be adjusted to any height without tools: flush or partly / fully protruding; spotlight head 355° rotatable and 90° tiltable; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; optional with CWD (Colour Warm Dimming); CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 2 different beam angles; protection class IP20; PC II; optional non-dimmable

Features



355° excentric rotatable, 90° tiltable

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL ▶
DIM DALI 3

MATERIAL COLOUR ■
black 8



LENS ▲
medium 23° M

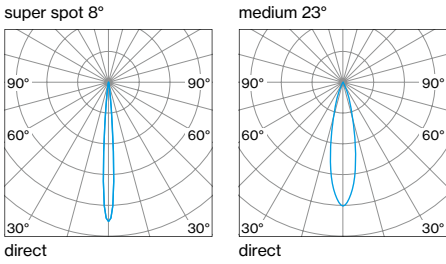


MOVE IT 45 round flex trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	3000K	730lm	0 6 3 - 0 9 1 1 5 ▶ ■ ▲
10 W CWD	1800-3000K	430lm	0 6 3 - 0 9 1 1 E 3 ■ M

LIGHT DISTRIBUTION



Extended configuration

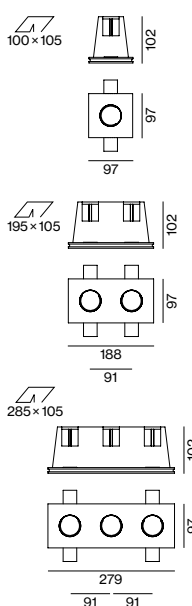
COLOUR TEMPERATURE
CWD 1800-3000K E

CONTROL ▶
non DIM 1

MATERIAL COLOUR ■
white 7



LENS ▲
super spot 8° V



Mounting accessories

TRIMLESS MOUNTING HOUSING
for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	97-97-102	0 6 3 - 0 9 7 0 1 1 0

TRIMLESS MOUNTING HOUSING
for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	188-97-102	0 6 3 - 0 9 7 0 2 1 0

TRIMLESS MOUNTING HOUSING
for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	279-97-102	0 6 3 - 0 9 7 0 3 1 0

Options on request

COLOUR TEMPERATURE
2700K

Inspiration

Private Residence
Visualisation

PRODUCT
MOVE IT 45 round flex trimless

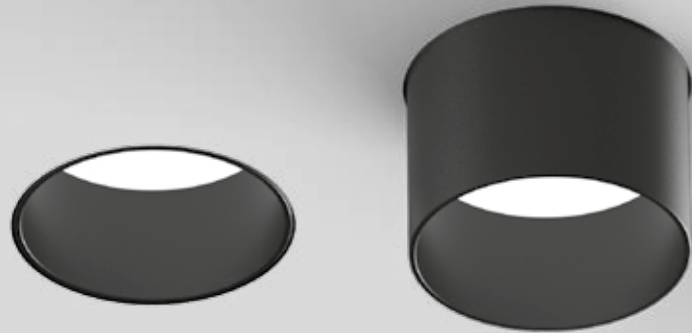




MOVE IT 85

round trimless

xal.com/move-it



Quickinfo

GENERAL

recessed trimless
IP 40

LED

COB LED module
up to 73lm/W
3000 K
CRI \geq 90
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 48°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
lacquered

Description

DE Rundes Strahlerelement aus Aluminium; Oberfläche schwarz lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; Einbau in unterschiedlichen Gehäusen möglich; Einbauehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar; deckenbündig, 25 mm oder 48 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial \leq 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI \geq 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 48° Ausstrahlwinkel; Schutzart IP 40; SK II; optional nicht dimmbar

EN Round spotlight element in aluminium; surface lacquered in black; installation without tools in mounting set with ball catch system; installation possible in different housings; Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 48 mm; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial \leq 3 MacAdam; available in the light colour 3000 K; CRI \geq 90; min. 80 % of the luminous flux after 50000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 48° beam; protection class IP 40; PC II; optional non-dimmable

Features



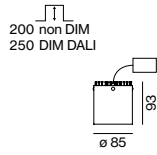
tool-free height
adjustment



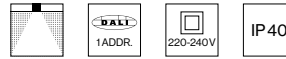
skimmed into plaster-
board ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE	
3000K	5
CONTROL	
DIM DALI	3
MATERIAL COLOUR	
black lacquered	8
LENS	
flood 48°	F



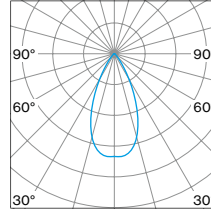
MOVE IT 85 round trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
21W	3000K	1520lm	0 6 3 - 0 0 3 0 5 - 8 F

LIGHT DISTRIBUTION

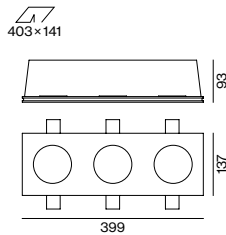
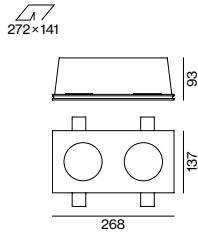
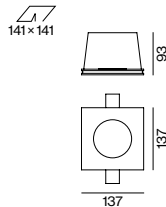
flood 48°



direct

Extended configuration

CONTROL	
non DIM	1



Mounting accessories

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	137-137-93	0 6 3 - 0 6 1 1 0 1 7

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	268-137-93	0 6 3 - 0 6 2 1 0 1 7

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	399-137-93	0 6 3 - 0 6 3 1 0 1 7

Inspiration

Private Residence
Graz, Austria

ARCHITECT
GSarchitects
Graz, Austria

PRODUCT
MOVE IT 85 round trimless

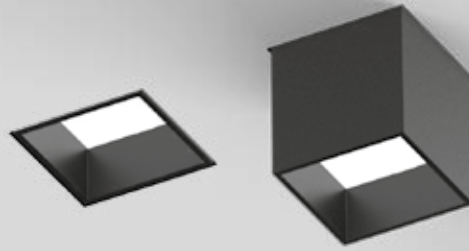




MOVE IT 45

square trimless

xal.com/move-it



Quickinfo

GENERAL

recessed trimless
IP 40

LED

COB LED module
up to 65lm/W
3000 K, CWD
CRI ≥ 80, CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 35°
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
lacquered

Description

DE Quadratisches Strahlerelement aus Aluminium; Oberfläche schwarz oder weiß lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; optional mit asymmetrischer Lichtverteilung; Einbau in unterschiedlichen Gehäusen möglich; Einbaugeschäule aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar: deckenbündig, 25 mm oder 35 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000K; optional mit CWD (Colour Warm Dimming); CRI ≥ 80 oder CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 2 verschiedenen Ausstrahlwinkeln; Schutzart IP 40; SK II; optional nicht dimmbar

EN Square spotlight element in aluminium; surface lacquered in black or white; installation without tools in mounting set with ball catch system; optional with asymmetric light distribution; installation possible in different housings; Recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000K; optional with CWD (Colour Warm Dimming); CRI ≥ 80 or CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 2 different beam angles; protection class IP 40; PC II; optional non-dimmable

Features



tool-free height
adjustment



skimmed into plaster-
board ceiling (trimless)

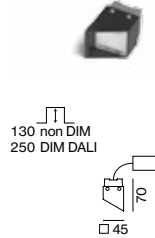
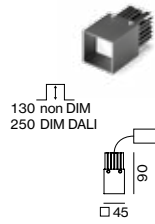
Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL 
DIM DALI 3






MATERIAL COLOUR 
black lacquered 8

LENS
medium 23° M
flood 35° F









MOVE IT 45 square trimless



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4 W	3000K (CRI ≥ 80)	240lm	0 6 3 - 0 3 2 2 5  8 F
11W	3000K	730lm	0 6 3 - 0 3 2 3 5   M
10W CWD	1800–3000K	430lm	0 6 3 - 0 3 2 3 E 3   M

MOVE IT 45 square trimless asymmetric



SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4 W	3000K (CRI ≥ 80)	230lm	0 6 3 - 0 4 2 2 5   A
11W	3000K	600lm	0 6 3 - 0 4 2 3 5   A
10W CWD	1800–3000K	360lm	0 6 3 - 0 4 2 3 E 3   A

Extended configuration

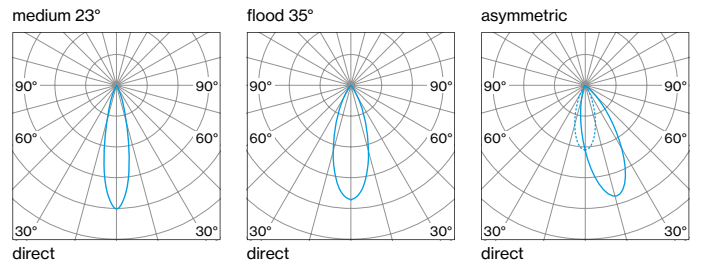
COLOUR TEMPERATURE
CWD 1800–3000K E

CONTROL 
non DIM 1

MATERIAL COLOUR 
white lacquered 7

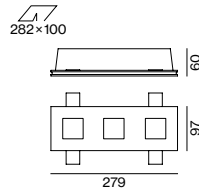
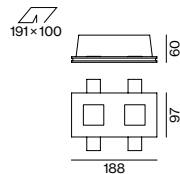
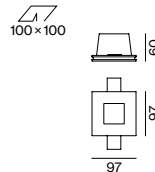
7

LIGHT DISTRIBUTION



Options on request

COLOUR TEMPERATURE
2700K



Mounting accessories

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	97-97-60	0 6 3 - 0 7 1 0 0 1 7

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	188-97-60	0 6 3 - 0 7 2 0 0 1 7

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	279-97-60	0 6 3 - 0 7 3 0 0 1 7

Inspiration

Private Residence
New York, USA

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

PRODUCT
MOVE IT 45 square trimless





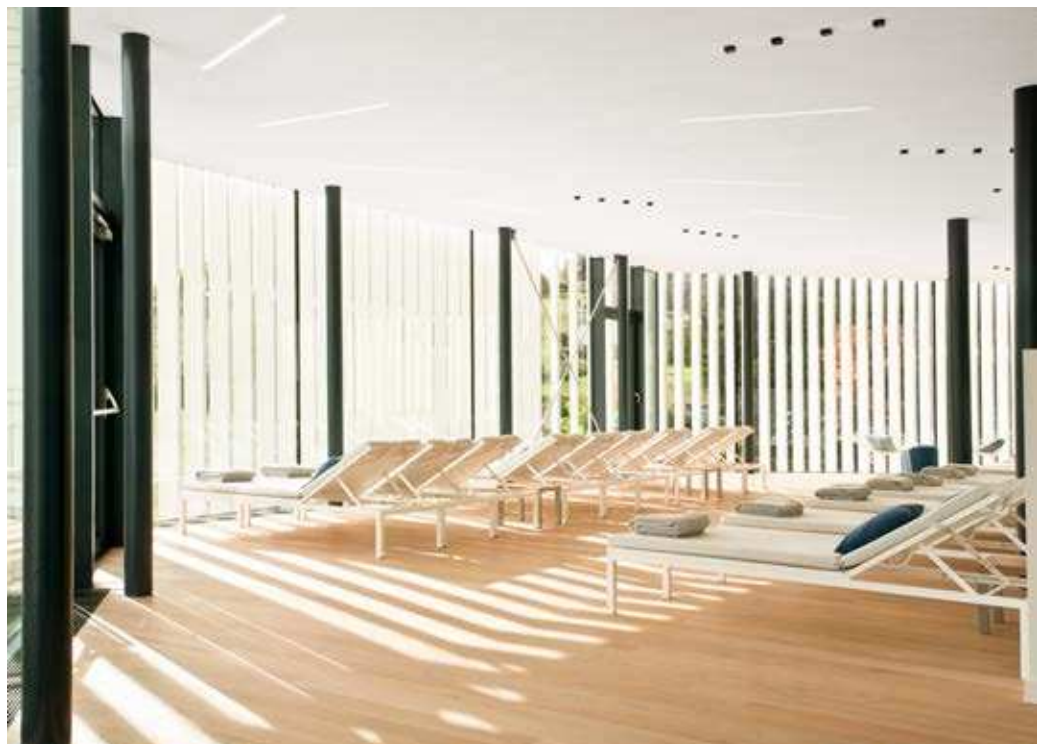
Inspiration

Hotel Stoiser
Loipersdorf, Austria

ARCHITECT
DI Strohecker ZT
Loipersdorf, Austria

PRODUCT
MOVE IT 45 square trimless

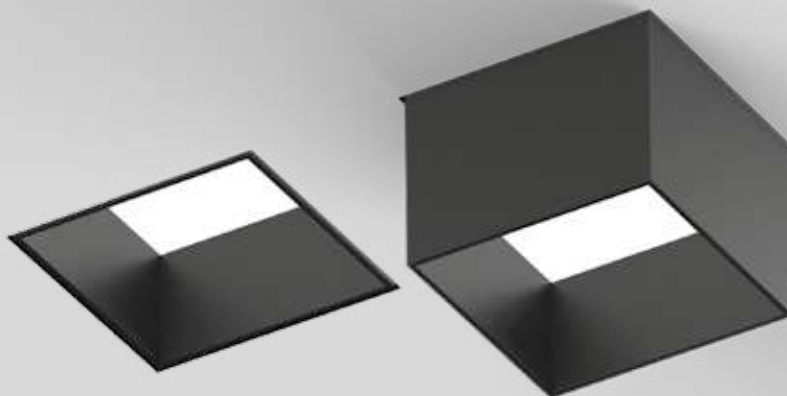




MOVE IT 85

square trimless

xal.com/move-it



Quickinfo

GENERAL

recessed trimless
IP 40

LED

COB LED module
up to 73 lm/W
3000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 48°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
lacquered

Description

DE Quadratisches Strahlerelement aus Aluminium; Oberfläche schwarz lackiert; werkzeuglose Montage im Montageset durch Kugelschnappsystem; Einbau in unterschiedlichen Gehäusen möglich: wahlweise mit umlaufendem Rand oder Einbaugehäuse aus Gips (überstreichbar); für randlosen Einbau in Gipskartondecken; werkzeuglos höhenverstellbar: deckenbündig, 25 mm oder 48 mm herausragend; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit 48° Ausstrahlwinkel; Schutzart IP 40; SK II; optional nicht dimmbar

EN Square spotlight element in aluminium; surface lacquered in black; installation without tools in mounting set with ball catch system; installation possible in different housings: optionally with with trim or recessed housing made of plaster (paintable); for trimless installation in plasterboard ceilings; height adjustable without tools: flush with the ceiling, or extended 25 mm or 48 mm; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; good glare control through inset light point level; incl. high quality lens system; precise radiation characteristic with 48° beam; protection class IP 40; PC II; optional non-dimmable

Features



tool-free height
adjustment



skimmed into plaster-
board ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE	
3000K	5
CONTROL	
DIM DALI	3
MATERIAL COLOUR	
black lacquered	8
LENS	
flood 48°	F



200 non DIM
250 DIM DALI



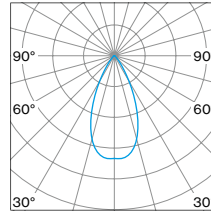
MOVE IT 85 square trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
21W	3000K	1520lm	0 6 3 - 0 3 3 0 5 - 8 F

LIGHT DISTRIBUTION

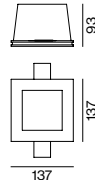
flood 48°



Extended configuration

CONTROL	
non DIM	1

141x141



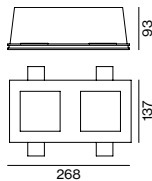
Mounting accessories

TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
1 lamp	137-137-93	0 6 3 - 0 7 1 1 0 1 7

272x141

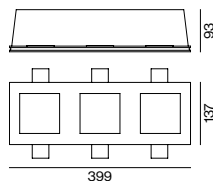


TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
2 lamps	268-137-93	0 6 3 - 0 7 2 1 0 1 7

403x141



TRIMLESS MOUNTING HOUSING

for installation in plasterboard ceilings 12/15/25 mm

TYPE	L-W-H (mm)	ORDER CODE
3 lamps	399-137-93	0 6 3 - 0 7 3 1 0 1 7

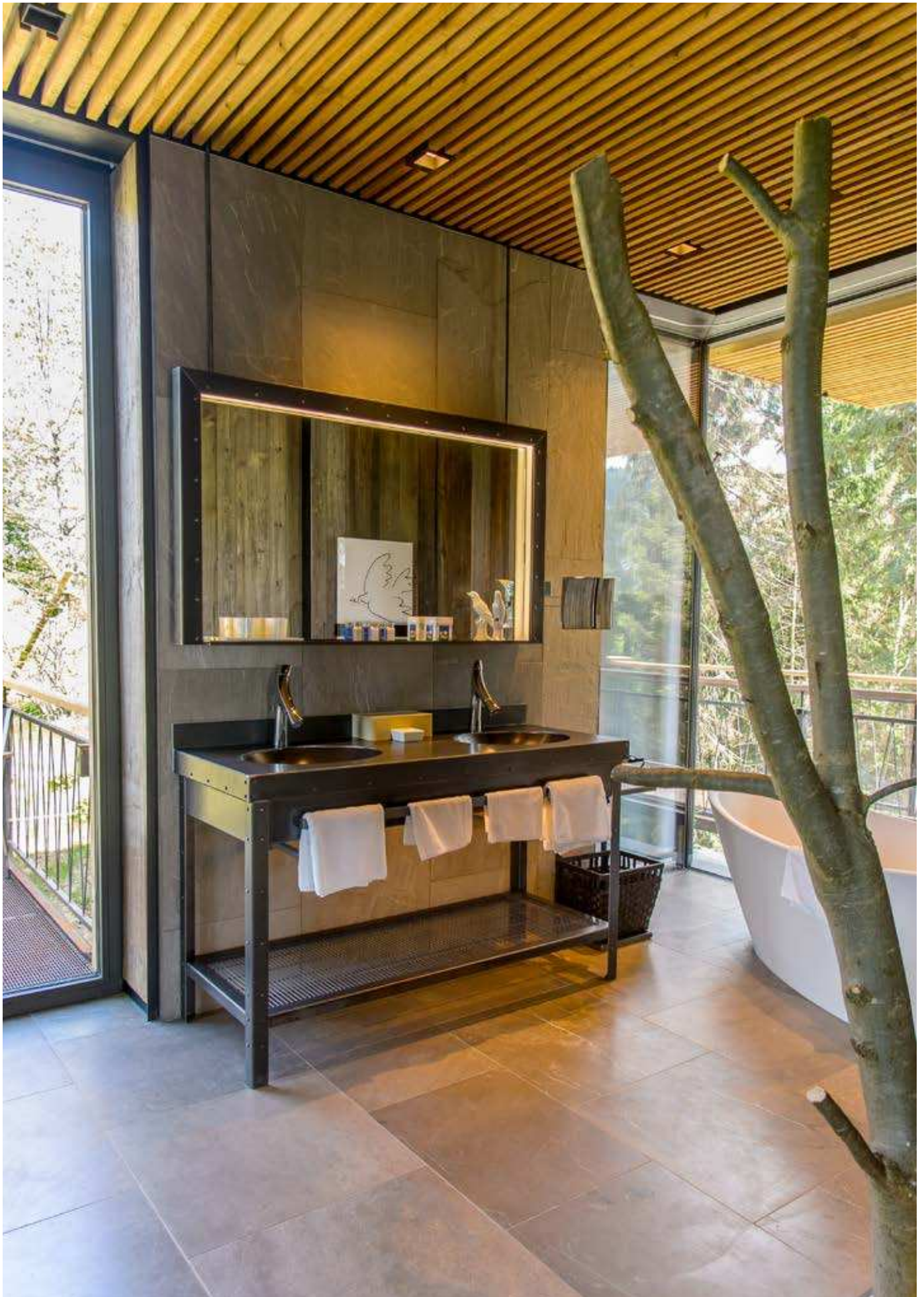
Inspiration

Hotel Steirereck
Pogusch, Austria

ARCHITECT
Viereck Architekten ZT
Kindberg, Austria

PRODUCT
MOVE IT 85 square trimless





AURO FOCUS

trim / trimless

xal.com/auro-focus



Quickinfo

GENERAL

recessed (with trim / trimless)
IP 40

LED

COB LED module
up to 96 lm/W
2700K, 3000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
adjustable beam angle 15°–73°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Rundes Strahlerelement aus Aluminiumdruckguss, optional mit umlaufendem Rand; geeignet für Deckenstärken von 5-25 mm; Oberfläche weiß pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; hochwertige plan-konvexe Glaslinse; 360° dreh- und 20° schwenkbar; variable Abstrahlcharakteristik mit 15°–73° mittels stufenlos fokussierbarer Linsentechnik; Schutzart IP 40; SK II; DALI-dimmbar

EN Round spotlight element of die-cast aluminium, optional with edge; suitable for ceiling thickness of 5-25 mm; surface white powder coated; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K and 3000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality plano-convex glass lens; 360° rotatable and 20° tiltable; variable radiation characteristics with 15°–73° due to continuously focusable lens technology; protection class IP 40; PC II; DALI dimmable

Features



adjustable beam
angle 15°–73°



+/- 20° tiltable

Standard configuration

COLOUR TEMPERATURE ⋮
3000 K 5

CONTROL ↕
DIM DALI 3

MATERIAL COLOUR
white 7

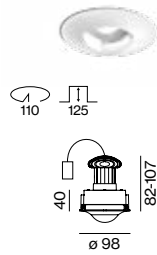


Extended configuration

COLOUR TEMPERATURE ⋮
2700 K 4

Options on request

IP RATING
IP 44



AURO FOCUS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	1020 lm	0 4 8 - 0 4 2 3 ⋮ 7
	3000 K	1180 lm	

for installation in plasterboard ceilings 12/15/25 mm

LIGHT DISTRIBUTION 3000 K

min. angle 15°			max. angle 73°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	6041	ø 0,27	1	984	ø 1,47
2	1510	ø 0,54	2	246	ø 2,95
3	671	ø 0,81	3	109	ø 4,42
4	377	ø 1,08	4	61	ø 5,89
5	241	ø 1,35	5	39	ø 7,37

Mounting accessories

TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 12/15/25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 2 1 4 4 7

ROUND MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

TYPE	ORDER CODE
flush	0 5 2 - 1 9 2 2 4 4 7

SQUARE MOUNTING SET WITH TRIM

for intermediate ceilings 2-25 mm

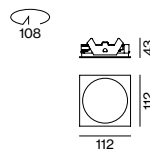
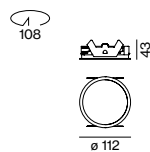
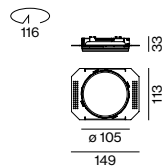
TYPE	ORDER CODE
flush	0 5 2 - 1 9 4 2 4 1 7

CONCRETE MOUNTING HOUSING

for 13W and 18W

TYPE	L/ø·W·H (mm)	ORDER CODE
exposed concrete ceilings*	229-227-160	0 5 2 - 1 9 1 3 4 1 0
primed concrete ceilings**	ø 240-400-130	0 5 2 - 1 9 1 4 4 2 0

*only for flush mounting; **order mounting set separately



Inspiration

Reception
Visualisation

PRODUCT
AURO FOCUS trim





ARGO

trim

xal.com/argo



Quickinfo

GENERAL

recessed
IP20

LED

COB LED module
up to 101lm/W
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Deckeneinbaustrahler aus Aluminiumdruckguss; 365° dreh- und 90° aus-schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II; optional DALI-dimmbar

EN Recessed spotlight made of die-cast aluminium; 365° rotatable and 90° tiltable outward; surface powder coated in white or black; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II; optional DALI dimmable

ARGO track

[page 702](#)



Features



rotation adjustment
365°, tilt adjustm. 90°

Standard configuration

COLOUR TEMPERATURE ◆◆
3000 K 5

COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7

7

REFLECTOR ▲
flood 41° F

Extended configuration

COLOUR TEMPERATURE ◆◆
4000 K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
black 8

8

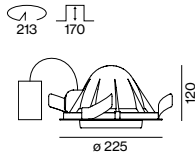
REFLECTOR ▲
spot 14° S
medium 25° M

Options on request

SPECIAL COLOUR

vogue	CRI ≥ 90
gallery	CRI 98
gourmet	CRI ≥ 80
fresh meat & fish	CRI ≥ 80
pastry	CRI ≥ 80
brilliant white	CRI ≥ 90

REFLECTOR
wide flood 58°



ARGO trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2670lm	0 5 3 - 8 1 0 0 ◆◆ ▲
	4000 K	2870lm	
37 W	3000 K	3180lm	0 5 3 - 8 1 0 1 ◆◆ ▲
	4000 K	3400lm	

LIGHT DISTRIBUTION for 37W, 3000K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)	h (m)	E (lx)	Ø (m)
1	28361	Ø 0,24	1	12890	Ø 0,44	1	5688	Ø 0,74
2	7090	Ø 0,49	2	3222	Ø 0,87	2	1422	Ø 1,48
3	3151	Ø 0,73	3	1432	Ø 1,31	3	632	Ø 2,22
4	1772	Ø 0,97	4	805	Ø 1,75	4	355	Ø 2,96
5	1134	Ø 1,21	5	515	Ø 2,18	5	227	Ø 3,70

Optical accessories

LENSES AND HONEYCOMB LOUVER



TYPE	Ø H (mm)	ORDER CODE
sculpture lens	105-3	0 0 6 - 9 2 2 3 7
flood lens clear	105-3	0 0 6 - 9 2 2 3 8
honeycomb louver	105-3	0 0 6 - 9 3 1 3 2

ANTI-GLARE ADAPTOR



TYPE	Ø H (mm)	ORDER CODE
white 65°	106-65	0 0 5 - 0 7 1 0 7
black 65°	106-65	0 0 5 - 0 7 1 0 8
white	106-65	0 0 5 - 0 7 1 1 7
black	106-65	0 0 5 - 0 7 1 1 8

Inspiration

Fashion Store Leffers
Oldenburg, Germany

ARCHITECT
BLOCHER BLOCHER Partners
Stuttgart, Germany

LIGHTING DESIGN
VEDDER LICHTMANAGEMENT
Munich, Germany

PRODUCT
ARGO trim





SPADO 100 / 150

round / asymmetric trim

xal.com/spado



Quickinfo

GENERAL

recessed
IP 44
optional concrete install. housing

LED

Mid-power LED
up to 111lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination (UGR < 19)
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss in 2 verschiedenen Durchmesser; mit umlaufendem Rand; geeignet für Deckenstärken von 2-25 mm; Oberfläche weiß pulverbeschichtet; werkzeuglose Montage mittels Schnappfederverschluss; Reflektor aus Polycarbonat, chrom poliert; wahlweise mit symmetrischer oder asymmetrischer Abstrahlcharakteristik; Leuchtenebene zurückversetzt; Version als bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) verfügbar; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP 44; SK II; Betriebsgerät geeignet für den Betrieb an einem Zentralbatterie-System; optional DALI-dimmbar

EN Round luminaire housing made of die-cast aluminium in 2 different diameters; with trim; suitable for ceiling thickness of 2-25 mm; surface white powder coated; installation without tools using snap spring closure; reflector made of polycarbonate, polished chrome; choice of symmetric or asymmetric radiation characteristic; also available as screen work capable luminaire as per DIN EN 12464-1 (UGR < 19); passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP 44; PC II; operating device suitable for use with a central battery system; optional DALI dimmable

Features



glare-control UGR < 19
by cone-shaped



IP 44 (waterproof
protection)



operating device suitable
for through wiring

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR
white 7



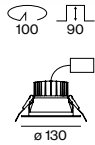
Extended configuration

COLOUR TEMPERATURE ◆◆
4000K 6

CONTROL ◆
DIM DALI 3

Options on request

COLOUR TEMPERATURE
tunable white 3000–4000K (2 DALI)

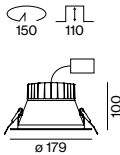
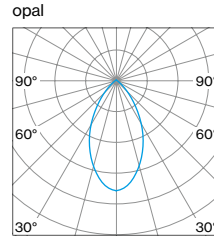


SPADO 100 round, trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9 W	3000K 4000K	940 lm 1000 lm	0 4 9 - 3 1 1 1 ◆◆ 7 0

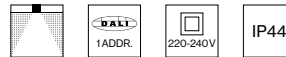
LIGHT DISTRIBUTION



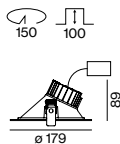
SPADO 150 round, trim



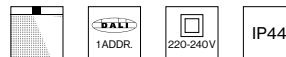
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19 W	3000K 4000K	1900 lm 2020 lm	0 4 9 - 3 1 2 1 ◆◆ 7 0



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000K 4000K	2840 lm 3020 lm	0 4 9 - 3 1 2 3 ◆◆ 7 0

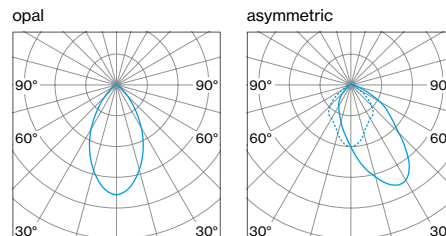


SPADO 150 round, trim, asymmetric



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9 W	3000K 4000K	830 lm 890 lm	0 4 9 - 3 1 2 2 ◆◆ 7 A

LIGHT DISTRIBUTION



Mounting accessories

EXPOSED CONCRETE CEILINGS

TYPE	L·W·H (mm)	ORDER CODE
SPADO 100 round	229·227·160	0 4 9 - 3 1 9 1 3 1 0
SPADO 150 round	295·295·160	0 4 9 - 3 1 9 1 2 1 0

PRIMED CONCRETE CEILINGS

TYPE	Ø·W·H (mm)	ORDER CODE
SPADO 100 round	Ø240·400·130	0 5 2 - 1 9 1 4 4 2 0
SPADO 150 round	Ø310·170	0 4 9 - 3 1 9 1 4 1 0



Inspiration

moovel group
Stuttgart, Germany

PRODUCT
SPADO 100 round

ARCHITECT
FURCH GESTALTUNG +
PRODUKTION GMBH
Stuttgart, Germany





SPADO 150

square trim

xal.com/spado



Quickinfo

GENERAL

recessed
IP 44
optional concrete install. housing

LED

Mid-power LED
up to 109lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Quadratischer Leuchtenkörper aus Aluminiumdruckguss; mit umlaufendem Rand; geeignet für Deckenstärken von 2-25 mm; Oberfläche weiß pulverbeschichtet; werkzeuglose Montage mittels Schnappfederverschluss; Reflektor aus Polycarbonat, chrom poliert; Leuchtenebene zurückversetzt; Version als bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) verfügbar; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP 44; SK II; Betriebsgerät geeignet für den Betrieb an einem Zentralbatterie-System; optional DALI-dimmbar

EN Square luminaire housing in die-cast aluminium; with trim; suitable for ceiling thickness of 2-25 mm; surface white powder coated; installation without tools using snap spring closure; reflector made of polycarbonate, polished chrome; lighting level recessed; also available as screen work capable luminaire as per DIN EN 12464-1 (UGR < 19); passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP 44; PC II; operating device suitable for use with a central battery system; optional DALI dimmable

Features



glare-control UGR < 19
by pyramid-shaped



IP 44 (waterproof
protection)



operating device suitable
for through wiring

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000 K 5

CONTROL ⬢
non DIM 1

MATERIAL COLOUR
white 7



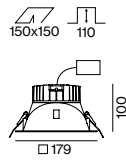
Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000 K 6

CONTROL ⬢
DIM DALI 3

Options on request

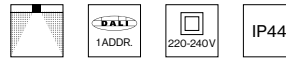
COLOUR TEMPERATURE
tunable white 3000–4000 K (2 DALI)



SPADO 150 square, trim



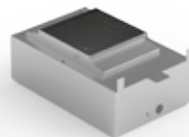
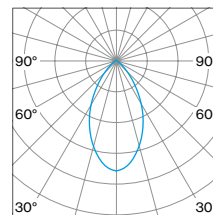
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19 W	3000 K 4000 K	1920 lm 2050 lm	0 4 9 - 3 1 5 1 ⬢⬢ 7 0



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K 4000 K	2890 lm 3070 lm	0 4 9 - 3 1 5 2 ⬢⬢ 7 0

LIGHT DISTRIBUTION

opal



Mounting accessories

EXPOSED CONCRETE CEILINGS

TYPE	L·W·H (mm)	ORDER CODE
SPADO 150 square	400·260·160	0 4 9 - 3 1 9 2 2 1 0

PRIMED CONCRETE CEILINGS

TYPE	Ø·W·H (mm)	ORDER CODE
SPADO 150 square	ø310·170	0 4 9 - 3 1 9 1 4 1 0

Inspiration

Sparkasse
Rüsselsheim, Germany

ARCHITECT
Zaeska und partner Architekten BDA
Hessen, Germany

PRODUCT
SPADO 150 square trim

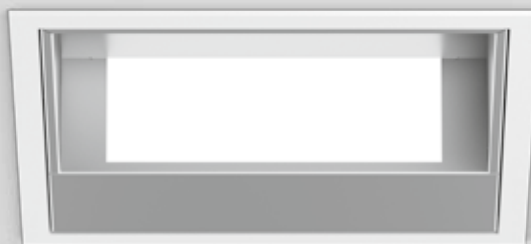




WALL MINI

wallwasher trim / trimless

xal.com/wall-mini



Quickinfo

GENERAL

recessed (with trim / trimless)
IP 40

LED

High-power LED
up to 73 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L70 / 50.000 h

OPTICAL

asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

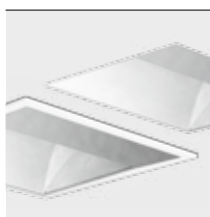
aluminium
powder-coated
low mounting depth

Description

DE Quadratischer Leuchtenkörper aus Aluminium; Wechseleinbaurahmen mit umlaufenden Rand (geeignet für Deckenstärken von 2-25 mm); oder für randlosen Einbau in Gipskartondecken (geeignet für Deckenstärken von 10-25 mm); spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; Oberfläche weiß oder grau pulverbeschichtet; mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken; Reflektor aus matt eloxiertem Reinaluminium, werkzeuglos einsetzbar; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40; SK II; optional DALI-dimmbar

EN Square aluminium luminaire housing; exchange mounting frame with with trim, suitable for ceiling thickness of 2-25 mm; or for trimless installation in plasterboard ceilings, suitable for ceiling thickness of 10-25 mm; special edge design with grooves for better adhesion of filler; surface powder coated in white or grey; with specially computed, asymmetrical reflector for homogeneous lighting intensity; reflector in matt anodised aluminium, installation without tools; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 70 % of the luminous flux after 50000 hours; protection class IP 40; PC II; optional DALI dimmable

Features



reversible mounting
frame

Standard configuration

COLOUR TEMPERATURE ⋮
3000 K 5

CONTROL ⬇
non DIM 1

MATERIAL COLOUR ▣
white 7



Extended configuration

COLOUR TEMPERATURE ⋮
4000 K 6

CONTROL ⬇
DIM DALI 3

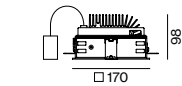
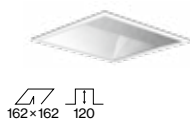
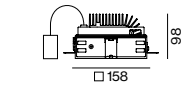
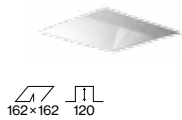
MATERIAL COLOUR ▣
grey 6



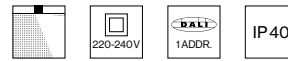
+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



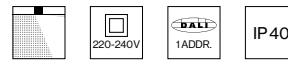
WALL MINI wallwasher, trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22 W	3000 K	1520 lm	0 5 2 - 8 0 1 0 ⋮ 7
	4000 K	1620 lm	

changeable mounting frame for trimless installation or with trim

WALL MINI wallwasher, trim

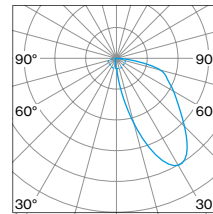


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22 W	3000 K	1520 lm	0 5 2 - 8 0 1 0 ⋮ ▣
	4000 K	1620 lm	

changeable mounting frame for trimless installation or with trim

LIGHT DISTRIBUTION

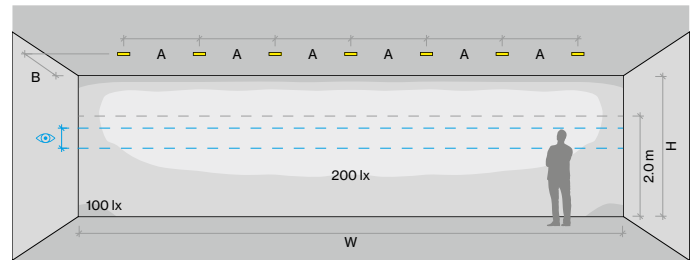
asymmetric



direct

Technical data

WALL MINI wallwasher, trim/trimless, 22W, 3000K

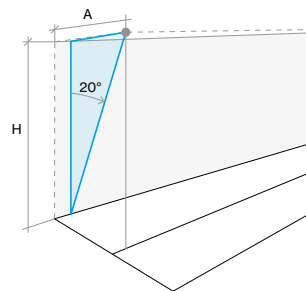


ROOM VALUES

Wall dimensions	H = 2.8 m W = 10.8 m
Distance to wall	B = 1.3 m
Distance between Spotlights	A = 1.5 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	10.8 × 2.8 m
Surface height	0 – 2.8 m
Eye level	1.35 m – 1.75 m



MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

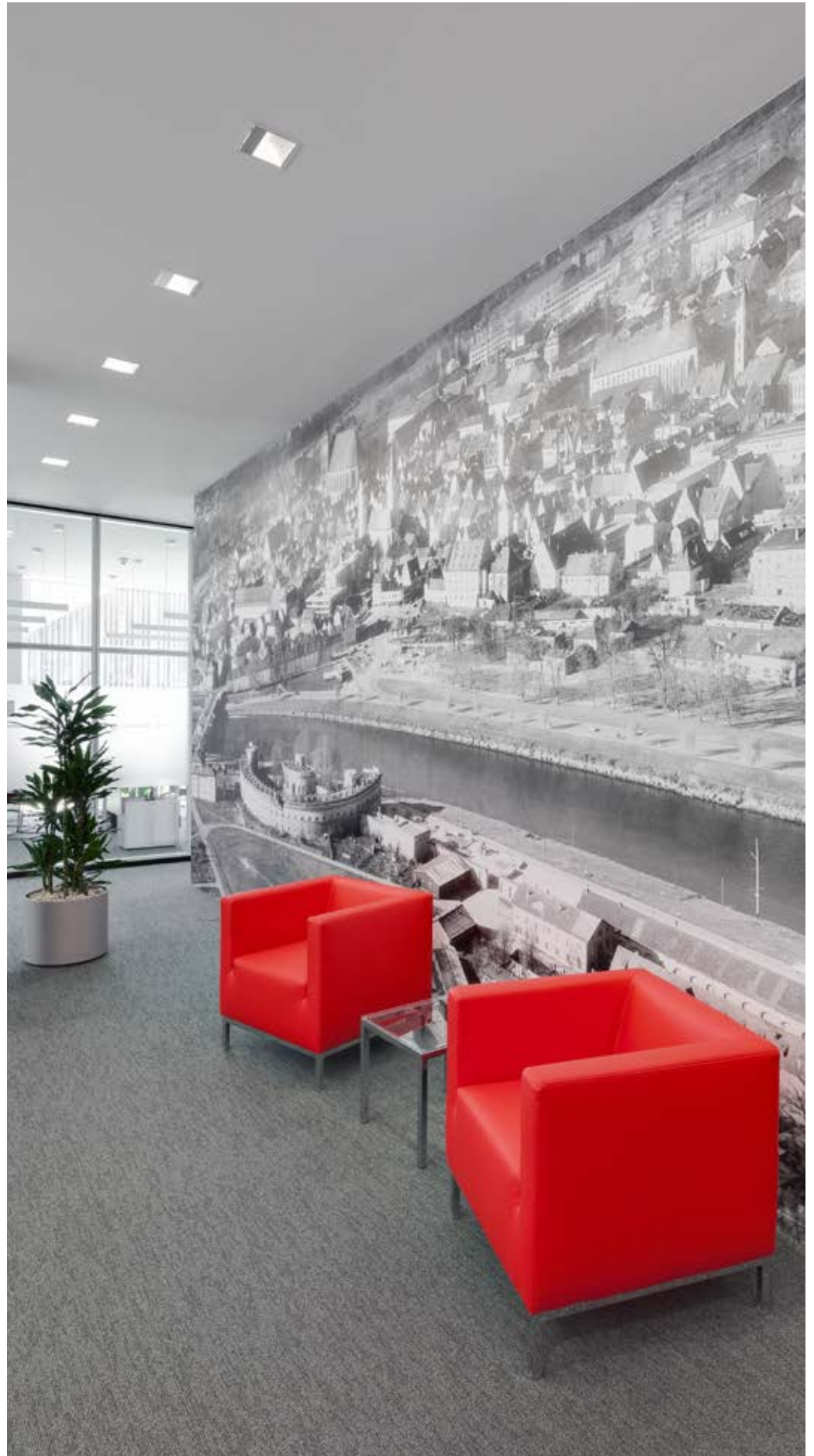
Inspiration

Office Center Pionierkaserne
Ingolstadt, Germany

PRODUCT
WALL MINI wallwasher trim

ARCHITECT
pbb Planung + Projektsteuerung GmbH
Ingolstadt, Germany

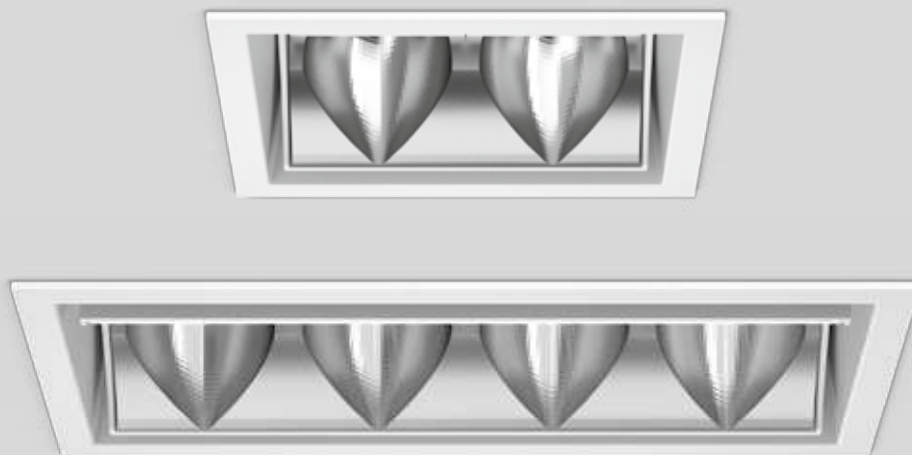




SQUADRO

wallwasher trim

xal.com/squadro



Quickinfo

GENERAL

recessed with trim
IP20, IP40
quick installation

LED

COB LED module
up to 14240lm
up to 117lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

asymmetric illumination
PMMA/aluminium coated reflector
shelf/wall floor washer

ELECTRICAL

220–240V
non DIM, DIM DALI

PHYSICAL

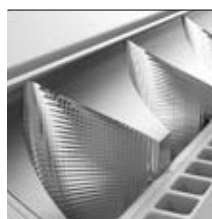
aluminium
powder-coated
white

Description

DE Deckeneinbaustrahler aus Aluminiumdruckguss in 2 Größen, in verschiedenen Varianten (2-flammig, 4-flammig bzw. 2 × 4-flammig) und mit 2 verschiedenen Lichtmodulen (für shelf floor washer and wall floor washer); mit umlaufendem Rand; Oberfläche weiß pulverbeschichtet; werkzeuglose Montage mittels Schnappfederverschluss; Gangzonenstrahler mit speziellen Multi-Freiformflächenreflektoren mit Facettenoptik zur äußerst präzisen Lichtlenkung; punktgenaue Regal- und Gangzonenausleuchtung, optimale Längsentblendung für hohen Sehkomfort in der Gangzone, einstellbare Lichtmodule mit Verriegelung; (+20° bis -15° schwenkbar, Variante double-sided output: maximaler Schwenkbereich für eine Seite einstellbar); Kühlkörper in Leuchtegeometrie für optimales Thermomanagement und passive Kühlung der LEDs integriert; COB (Chip on Board) Technologie für höchste Effizienz; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; IP40-Schutzglas als Zubehör erhältlich; SK II; optional DALI-dimmbar

EN Recessed ceiling spotlight in die cast aluminium in 2 sizes, in different types (2 lamps, 4 lamps or 2 × 4 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); with trim; surface white powder coated; installation without tools using snap spring closure; aisle spotlight with special, multi-free-form, facet effect surface reflectors for high precision light control; precise shelf and aisle zone lighting, optimum longitudinal glare control for high viewing comfort in the aisle zone, adjustable light modules with interlock; (tiltable from +20° up to -15°, double-sided output variant: maximum swivel range adjustable for one side); heat sink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; COB (Chip on Board) technology for maximum efficiency; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP20; IP40 protection glass available as an accessory; PC II; optional DALI dimmable

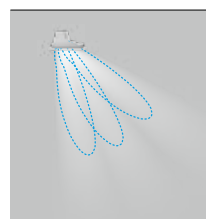
Features



microfaceting



+20° up to -15° tiltable



adjustable light module

Standard configuration

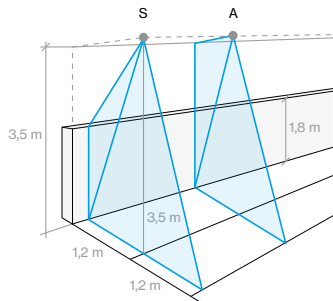
COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR
white 7



REFLECTOR ▲
shelf floor washer S
wall floor washer A



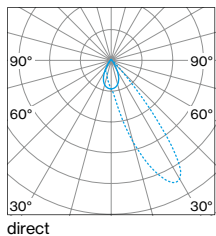
Extended configuration

COLOUR TEMPERATURE ◆◆
4000K 6

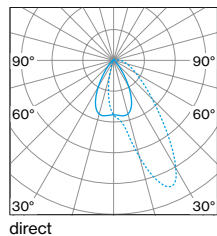
CONTROL ◆
DIM DALI 3

LIGHT DISTRIBUTION 4 LAMPS

shelf floor washer

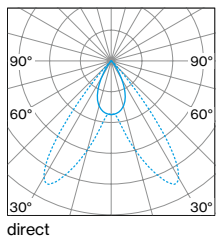


wall floor washer

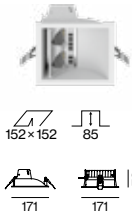
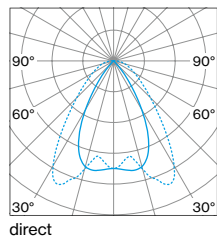


LIGHT DISTRIBUTION 2x4 LAMPS

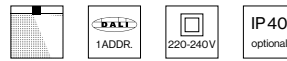
shelf floor washer



wall floor washer



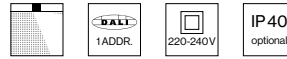
SQUADRO 2 lamps, wallwasher, trim



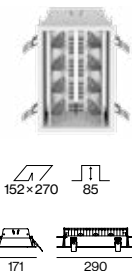
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30W	3000K	3410lm	0 4 9 - 2 0 1 1 ◆◆ 7 ▲
	4000K	3560lm	



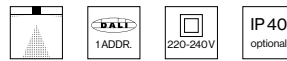
SQUADRO 4 lamps, wallwasher, trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
61W	3000K	6830lm	0 4 9 - 2 0 3 1 ◆◆ 7 ▲
	4000K	7120lm	



SQUADRO 2x4 lamps, wallwasher, trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2x61W	3000K	13650lm	0 4 9 - 2 0 4 1 ◆◆ 7 ▲
	4000K	14240lm	

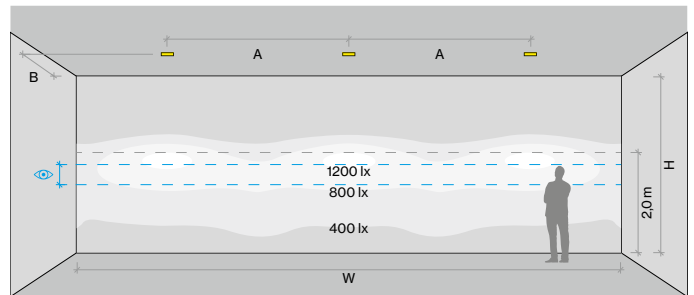
Optical accessories

IP 40 PROTECTION GLASS

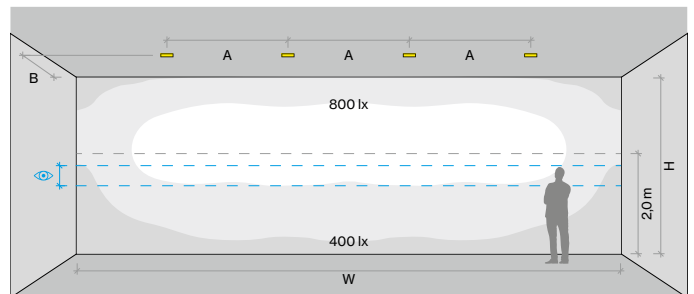
TYPE	ORDER CODE
2 lamps / single-sided output	0 4 9 - 2 9 1 0 0 1 0
4 lamps / single-sided output	0 4 9 - 2 9 3 0 0 1 0
2x4 lamps / double-sided output	0 4 9 - 2 9 4 0 0 1 0

Technical data

SQUADRO 4 lamps, wall shelf washer, trim, 61W, 3000K



SQUADRO 4 lamps, wall floor washer, trim, 61W, 3000K





























ROOM VALUES

Wall dimensions	H = 3.5 m W = 10.8 m
Distance to wall	B = 1.3 m
Distance between Spotlights	A = 3.6 m
Aisle width	2.6 m
Reflection factor	0.7 0.7 0.2
Maintenance factor	0.9

CALCULATION SURFACE

Surface dimensions	10.8 x 3.5 m
Surface height	0 - 3.5 m
Eye level	1.35 m - 1.75 m

Accessories Overview

		SNOOT ø54mm	SNOOT ø74mm	SNOOT ø119mm	LENSES AND HONEYCOMB ø54mm	LENSES AND HONEYCOMB ø74mm	LENSES AND HONEYCOMB ø119mm	ANTI- GLARE ADAPTOR	LENSES AND HONEYCOMB ø105mm
									
INVISIBLE 80 asymmetric		•			•				
INVISIBLE 100 asymmetric			•		•				
INVISIBLE 80 round		•			•				
INVISIBLE 100 round			•		•				
INVISIBLE 80 retro		•			•				
INVISIBLE 100 retro			•		•				
INVISIBLE 80 square		•			•				
INVISIBLE 100 square			•		•				
BUBBLE 80		•			•				
BUBBLE 100			•		•				
BUBBLE 150				•		•			
SASSO 80 flush SASSO 80 offset		•			•				
SASSO 100 flush SASSO 100 offset			•		•				
SASSO 150 flush SASSO 150 offset				•		•			
KARO 80 trim KARO 80 trimless		•			•				
KARO 100 trim KARO 100 trimless			•		•				
KARO 150 trim KARO 150 trimless				•		•			
ARGO							•	•	

Order options

MATERIAL COLOUR	
silver-grey	G
white	7
black	8



SNOOT

TYPE	Ø-H (mm)	ORDER CODE
snoot	54-25	0 4 8 - 2 0 9 1 1 1
snoot with honeycomb louver	54-25	0 4 8 - 2 0 9 1 2 1



SNOOT

TYPE	Ø-H (mm)	ORDER CODE
snoot	74-25	0 4 8 - 2 1 9 1 1 1
snoot with honeycomb louver	74-25	0 4 8 - 2 1 9 1 2 1



SNOOT

TYPE	Ø-H (mm)	ORDER CODE
snoot	119-25	0 4 8 - 2 2 9 1 1 1
snoot with honeycomb louver	119-25	0 4 8 - 2 2 9 1 2 1



LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	54-11	0 4 8 - 2 0 9 1 3 1
linear prismatic lens	54-11	0 4 8 - 2 0 9 2 3 1



LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	74-11	0 4 8 - 2 1 9 1 3 1
linear prismatic lens	74-11	0 4 8 - 2 1 9 2 3 1



LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	119-11	0 4 8 - 2 2 9 1 3 1
linear prismatic lens	119-11	0 4 8 - 2 2 9 2 3 1



ANTI-GLARE ADAPTOR

TYPE	Ø-H (mm)	ORDER CODE
white 65°	106-65	0 0 5 - 0 7 1 0 7
black 65°	106-65	0 0 5 - 0 7 1 0 8
white	106-65	0 0 5 - 0 7 1 1 7
black	106-65	0 0 5 - 0 7 1 1 8



LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
sculpture lens	105-3	0 0 6 - 9 2 2 3 7
flood lens clear	105-3	0 0 6 - 9 2 2 3 8
honeycomb louver	105-3	0 0 6 - 9 3 1 3 2

02



EINBAULEUCHTEN / WALLWASHER RECESSED LUMINAIRES / WALLWASHER



SONO FLEX
trim

→ 154



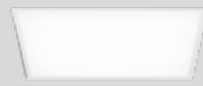
COMBO ROUND
trim

→ 158



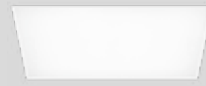
MENO ROUND
trimless

→ 162



COMBO SQUARE
trim

→ 168



MENO SQUARE
trimless

→ 172



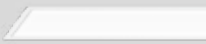
BUBBLE
trimless

→ 176



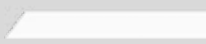
TRAPEZ
trimless

→ 182



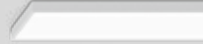
LENO
trim

→ 186



LENO
trimless

→ 190



LENO
semi-recessed

→ 194



LENO GRID
100 / 150

→ 198 / 200



MINO X

→ 202



BASO 40
trim

→ 206



CANYON 60
trim offset

→ 210



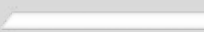
FRAME 60
trim

→ 216



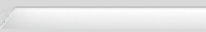
FRAME 100
trim

→ 220



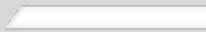
BASO 40
trimless

→ 224



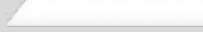
CANYON 60
trimless offset

→ 226



MINIMAL 60
trimless

→ 230



MINIMAL 100
trimless

→ 234

SONO FLEX

trim

xal.com/sono



Quickinfo

GENERAL

recessed
IP50
optional concrete install. housing

LED

Mid-power LED
up to 128 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

SONO FLEX

IP54 trim
[page 754](#)



Description

DE Runde Einbauleuchte aus Aluminium, bestehend aus Leuchtenkörper (SONO) und Einbaugehäuse; Gehäuse mit umlaufendem Rand geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchte wahlweise deckenbündig oder 25 mm hervorstehend werkzeuglos im Gehäuse einsetzbar; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP50; SK I; DALI-dimmbare mit CLO-Funktion; optional nicht dimmbar

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing with trim suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 10-25 mm; surface white powder coated; luminaire installs in housing without tools optionally flush or protruding by 25 mm; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP50; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



tool-free installation of light engine



flexible flush or jut-out installation



IP50 (dust and insect protection)



tunable white 3000–6000 K on request

Standard configuration

IP RATING

IP50

COLOUR TEMPERATURE ⦿
3000K 5

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
opal 0

Extended configuration

COLOUR TEMPERATURE ⦿
4000K 6

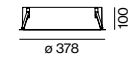
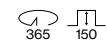
CONTROL ⬆
non DIM 1

Options on request

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

CONTROL
RCS Master (☉)
RCS Slave (☉)

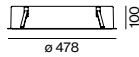
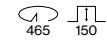
EMERGENCY LIGHT
1h accupack
3h accupack



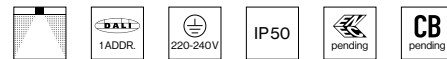
SONO FLEX 350 trim



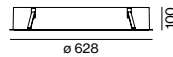
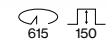
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W	3000K 4000K	1900lm 2040lm	0 6 3 - 3 2 3 8 ⦿ 7 0



SONO FLEX 450 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W	3000K 4000K	2810lm 2990lm	0 6 3 - 3 2 4 8 ⦿ 7 0



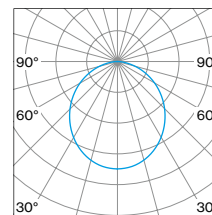
SONO FLEX 600 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W	3000K 4000K	5330lm 5660lm	0 6 3 - 3 2 5 8 ⦿ 7 0

LIGHT DISTRIBUTION

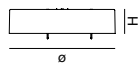
opal



Accessories

CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX 350	350-107	0 6 3 - 2 2 3 8 1 0 0
SONO FLEX 450	450-107	0 6 3 - 2 2 4 8 1 0 0
SONO FLEX 600	600-107	0 6 3 - 2 2 5 8 1 0 0



Inspiration

Volksbank headquarters
Bolzano, Italy

LIGHTING DESIGN
lichtdesign GRATZEL
Innsbruck, Austria

ARCHITECT
Christian Rübbert Architekt
Bolzano, Italy

PRODUCT
SONO FLEX trim

INTERIOR DESIGN
INNOCAD Architektur ZT
Graz, Austria
bergundtal GmbH
Bruneck, Italy





COMBO ROUND trim

xal.com/combo



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 138lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

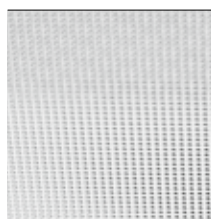
aluminium
powder-coated
halogen-free cable

Description

DE Runder Leuchtenkörper aus Aluminium mit umlaufendem Rand; geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 2-25 mm; Oberfläche weiß pulverbeschichtet; werkzeuglose mechanische Verbindung mittels Federverschluss; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80 ; min. 90% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Round luminaire housing in aluminium with trim; suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 2-25mm; surface white powder coated; mechanical connection without tools using spring closure; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80 ; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



microprismatic
(UGR < 19)



tunable white 3000-
6000K on request

Standard configuration

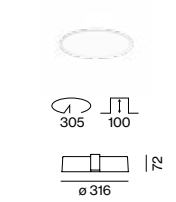
COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
non DIM 1

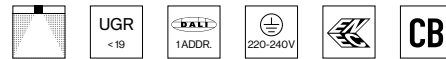
MATERIAL COLOUR
white 7



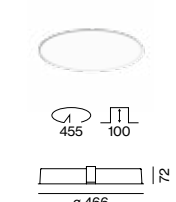
LIGHT OPTIC COVER ☑
opal 0



COMBO ROUND 300 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000K 4000K	1300lm 1380lm	0 6 4 - 1 0 3 1 ⋮ ⬆ ☑



COMBO ROUND 450 trim



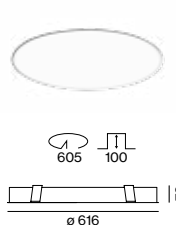
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	3000K 4000K	2070lm 2200lm	0 6 4 - 1 0 4 1 ⋮ ⬆ ☑

Extended configuration

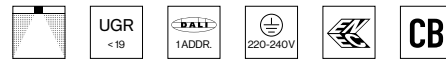
COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
DIM DALI / CLO 3

LIGHT OPTIC COVER ☑
microprismatic (UGR < 19) P



COMBO ROUND 600 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31 W	3000K 4000K	3970lm 4220lm	0 6 4 - 1 0 5 1 ⋮ ⬆ ☑

Options on request

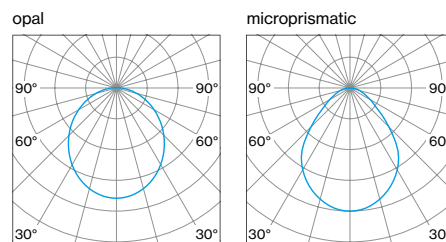
COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

EMERGENCY LIGHT
1h accupack
3h accupack

ACCESSORY
concrete installation housing

LIGHT DISTRIBUTION



Inspiration

Dermatologic Clinic
Portugal

PRODUCT
COMBO ROUND trim

ARCHITECT

José Martinez Silva
Ateliercentral Arquitectos
Lisbon, Portugal

LIGHTING DESIGN

Lightlab and José Martinez Silva
Ateliercentral Arquitectos
Lisbon, Portugal





MENO ROUND trimless

xal.com/meno



Quickinfo

GENERAL

recessed
IP20
optional concrete install. housing

LED

Mid-power LED
up to 134lm/W
3000K, 4000K
CRI > 80
Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency light 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

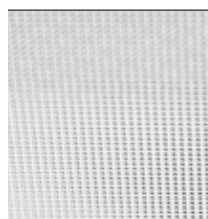
DE Runder Leuchtenkörper aus Aluminium; für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; bis ø450 mm Leuchtgehäuse für Deckeneinbau vorab lieferbar; Lichteinsatz bestehend aus Konvertereinheit und Platineinheit; werkzeuglose mechanische Verbindung mittels Drehverschluss; elektrische Verbindung mittels verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbare mit CLO-Funktion; optional nicht dimmbar; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; for ceiling thickness of 10-25 mm; surface white powder coated; up to ø450 mm: luminaire housing for ceiling installation available in advance; lighting insert consisting of converter unit and circuit board unit; mechanical connection without tools using twist closure; electrical connection by means of reverse polarity protected plug system; up highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); cover removable without tools for easy maintenance; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable; optional with LED emergency light with 1h or 3h battery and self test

Features



skimmed into plasterboard ceiling (trimless)



microprismatic (UGR < 19)

Standard configuration

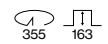
COLOUR TEMPERATURE 
3000K 5

CONTROL 
DIM DALI / CLO 3

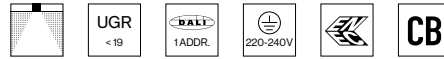
MATERIAL COLOUR
white 7




7

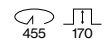
LIGHT OPTIC COVER 
opal 0



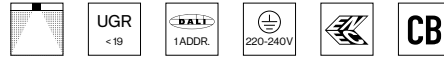
MENO ROUND 350 trimless






SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9 W	3000K 4000K	1140lm 1210lm	0 6 3 - 2 2 3 6   



MENO ROUND 450 trimless




SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
18 W	3000K 4000K	2080lm 2210lm	0 6 3 - 2 2 4 6   

Extended configuration

COLOUR TEMPERATURE 
4000K 6

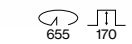
CONTROL 
non DIM 1

LIGHT OPTIC COVER 
microprismatic (UGR < 19) P

EMERGENCY LIGHT 
1h accupack N L 1
3h accupack N L 3




Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



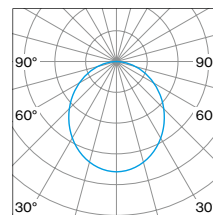
MENO ROUND 650 trimless



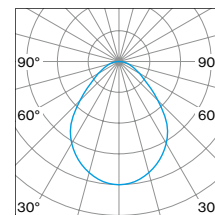
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
39 W	3000K 4000K	4410lm 4680lm	0 6 3 - 2 2 6 6   

LIGHT DISTRIBUTION

opal



microprismatic



Accessories

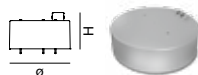
INSTALLATION TEMPLATE

TYPE	ORDER CODE
MENO ROUND 450	0 1 8 - 6 9 0 4 5
MENO ROUND 650	0 1 8 - 6 9 0 6 5



CONCRETE INSTALLATION HOUSING

TYPE	ø-H (mm)	ORDER CODE
MENO ROUND 350	358-160	0 1 8 - 6 9 0 1 6
MENO ROUND 450	462-166	0 1 8 - 6 9 0 1 7



Inspiration

Taschen Store
Berlin, Germany

ARCHITECT
SPIESS Interior Design
Dresden, Germany

LIGHTING DESIGN
Salvatore Licitra
Alberto Stambanoni
Milan, Italy

PRODUCT
MENO ROUND trimless





Inspiration

Rowing Club Naturarena Rotsee
Luzern, Switzerland

ARCHITECT

Architekten ETH BSA SIA
Zurich, Switzerland

LIGHTING DESIGN

B+S Elektro Engineering
Emmenbrücke, Switzerland

PRODUCT

MENO ROUND trimless

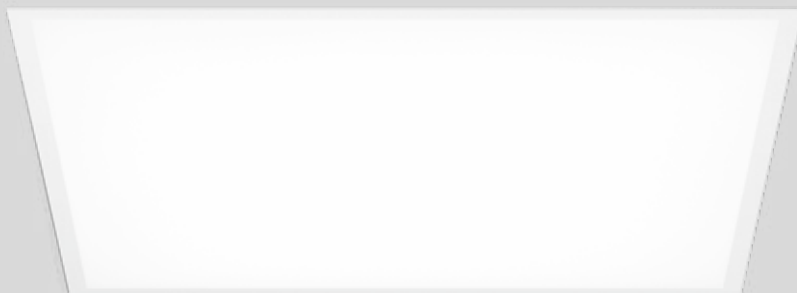




COMBO SQUARE

trim

xal.com/combo



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 122lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency light 1 h / 3 h

PHYSICAL

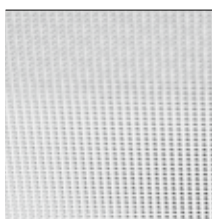
aluminium
powder-coated
halogen-free cable

Description

DE Quadratischer Leuchtenkörper aus Aluminium mit umlaufendem Rand; geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 2-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Lichteinsatz bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische Verbindung mittels Drehverschluss; elektrische Verbindung mittels verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Square aluminium luminaire housing with trim; suitable for installation in plaster-board ceilings; suitable for ceiling thickness of 2-25 mm; surface white powder coated; luminaire housing for ceiling installation available in advance; lighting insert consisting of converter unit and circuit board unit; mechanical connection without tools using twist closure; electrical connection by means of reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); cover removable without tools for easy maintenance; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ↕
non DIM 1

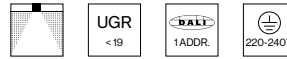
MATERIAL COLOUR
white 7

7

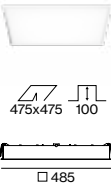
LIGHT OPTIC COVER ☑
opal 0



COMBO SQUARE 250 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	3000K	810lm	0 6 4 - 1 2 3 1 ⋮ ↕ 7 ☑
	4000K	860lm	



COMBO SQUARE 450 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W	3000K	2710lm	0 6 4 - 1 2 4 1 ⋮ ↕ 7 ☑
	4000K	2880lm	

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ↕
DIM DALI / CLO 3

LIGHT OPTIC COVER ☑
microprismatic (UGR < 19) P

Options on request

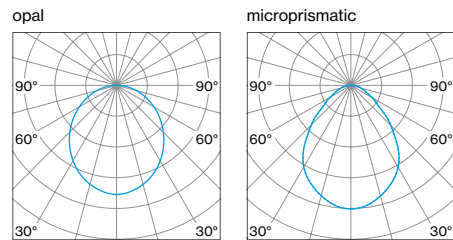
COLOUR RENDERING INDEX
CRI ≥ 90

EMERGENCY LIGHT

1h accupack

3h accupack

LIGHT DISTRIBUTION



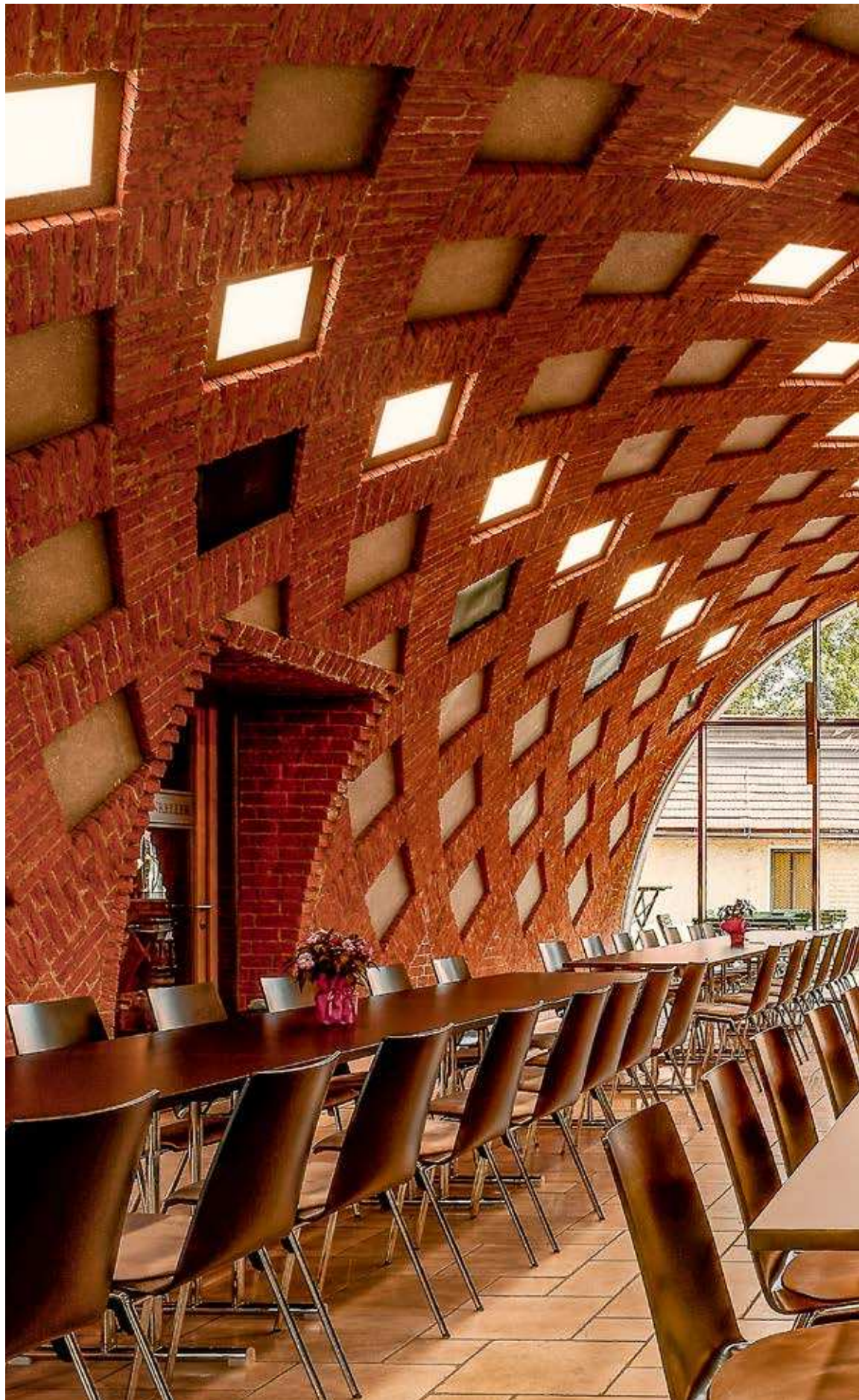
Inspiration

Erzherzog Johann Weine
Ehrenhausen, Austria

ARCHITECT
DI Johann Oster
St. Georgen/Stiefing, Austria

LIGHTING DESIGN
TB Petar GmbH
Gleinstätten, Austria

PRODUCT
COMBO SQUARE trim

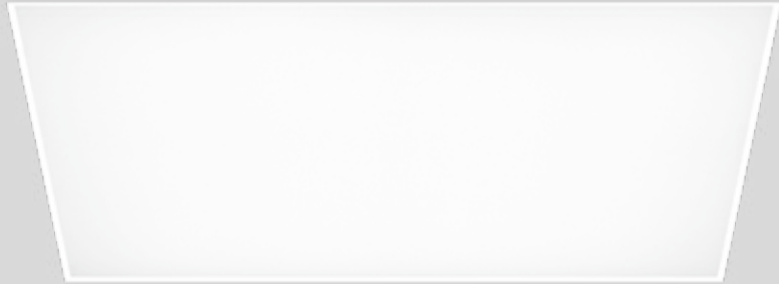




MENO SQUARE

trimless

xal.com/meno



Quickinfo

GENERAL

recessed
IP20
plasterboard ceilings only

LED

Mid-power LED
up to 122lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency light 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

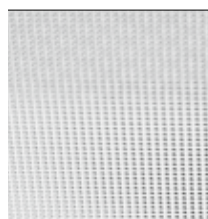
DE Quadratischer Leuchtenkörper aus Aluminium; für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; für Deckenstärken von 10-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Lichteinsatz bestehend aus Konvertereinheit und Platineinheit; werkzeuglose mechanische Verbindung mittels Drehverschluss; elektrische Verbindung mittels verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte oder mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Square aluminium luminaire housing; for trimless installation in plasterboard ceilings; specially designed trim (grooves) for better adhesion of smoothing compound; for ceiling thickness of 10-25mm; surface white powder coated; luminaire housing for ceiling installation available in advance; lighting insert consisting of converter unit and circuit board unit; mechanical connection without tools using twist closure; electrical connection by means of reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); cover removable without tools for easy maintenance; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable; optional with LED emergency light with 1h or 3h battery and self test

Features



skimmed into plasterboard ceiling (trimless)



microprismatic (UGR < 19)

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
DIM DALI / CLO 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER ⬢
opal O

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

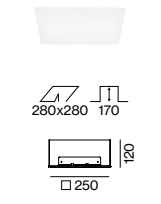
CONTROL ⬢
non DIM 1

LIGHT OPTIC COVER ⬢
microprismatic (UGR < 19) P

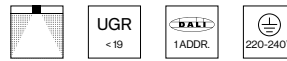
EMERGENCY LIGHT ●
1h accupack N L 1
3h accupack N L 3

Options on request

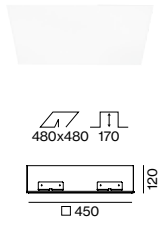
COLOUR RENDERING INDEX
CRI ≥ 90



MENO SQUARE 250 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8 W	3000K	810lm	0 6 3 - 2 5 2 6 ⬢⬢ ⬢ 7 ⬢
	4000K	860lm	

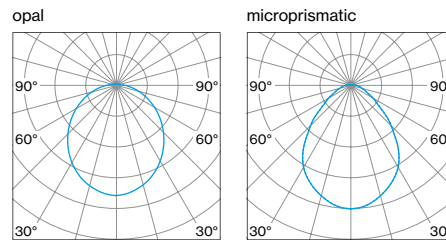


MENO SQUARE 450 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W	3000K	2710lm	0 6 3 - 2 5 4 6 ⬢⬢ ⬢ 7 ⬢ ●
	4000K	2880lm	

LIGHT DISTRIBUTION



Inspiration

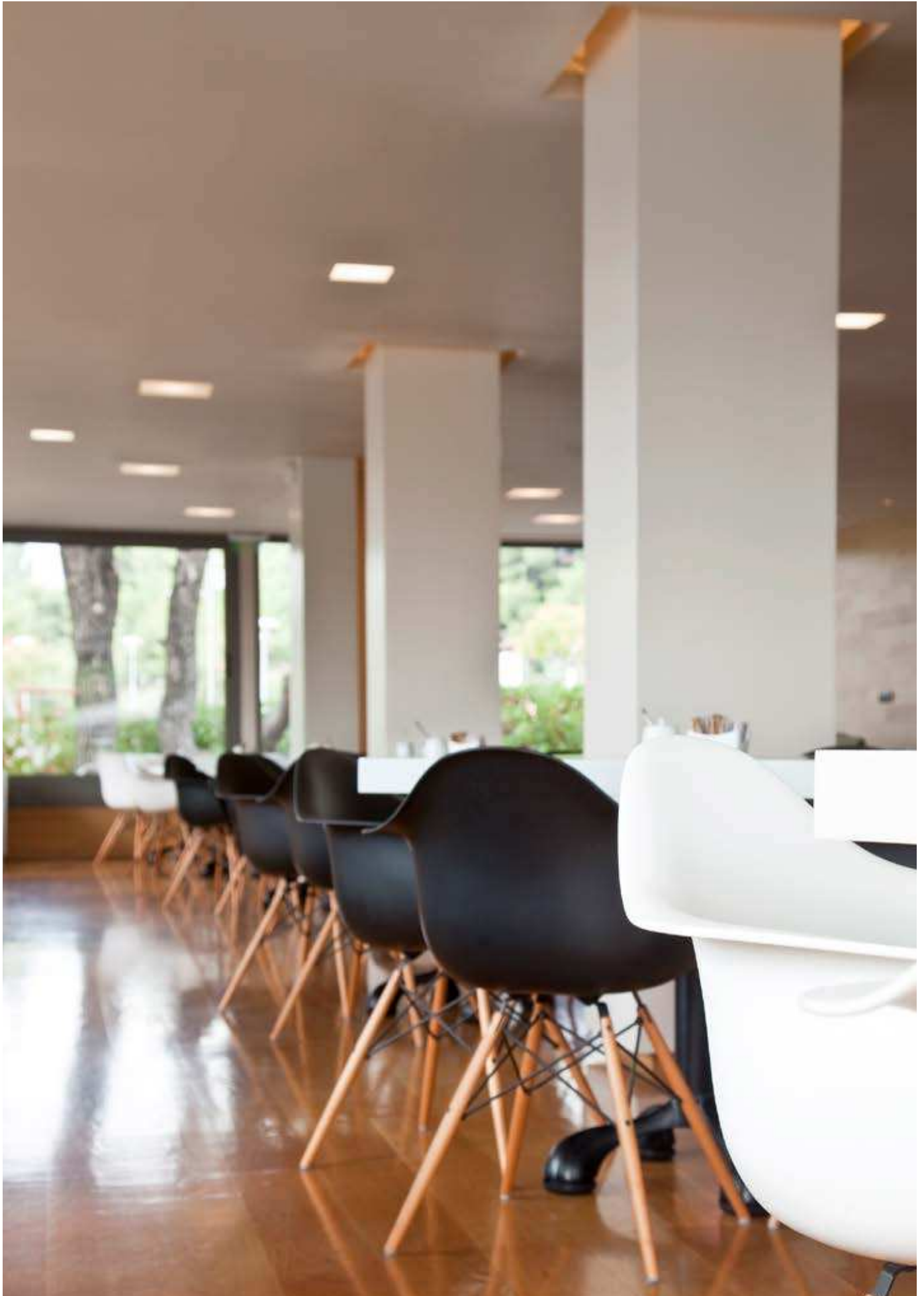
Best Friends Cafe
Athens, Greece

ARCHITECT
Blossom
Athens, Greece

LIGHTING DESIGN
HALO
Athens, Greece

PRODUCT
MENO SQUARE trimless





BUBBLE

trimless

xal.com/bubble



Quickinfo

GENERAL

recessed
IP20
plasterboard ceilings only

LED

Mid-power LED
up to 116lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
uniform illumination
offset PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

gypsum housing
luminaire housing aluminium
halogen-free cable

BUBBLE

trimless
spotlight
[page 88](#)



Description

DE Hyperbolisch geformtes Einbaugehäuse aus Gips (übermalbar) mit aufgesetztem Leuchtenkörper aus Aluminium; geeignet für randlosen Einbau in Gipskartondecken in den Stärken 12,5, 15 oder 25 mm; Bubblegehäuse und Leuchtgehäuse für Deckeneinbau vorab lieferbar; Lichteinsatz bestehend aus Konvertereinheit und Platineneinheit; werkzeuglose mechanische Verbindung mittels Drehverschluss; elektrische Verbindung mittels verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung, werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Hyperbolic shaped, square recessed housing made of plaster (paintable) with mounted aluminium luminaire housing; suitable for trimless installation in plasterboard ceilings with thickness of 12.5, 15 or 25 mm; Bubble and luminaire housing for recessed mounting available in advance; lighting insert consisting of converter unit and circuit board unit; mechanical connection without tools using twist closure; electrical connection by means of reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover, removable without tools for easy maintenance; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



skimmed into plasterboard ceiling (trimless)

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ↕
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal

Extended configuration

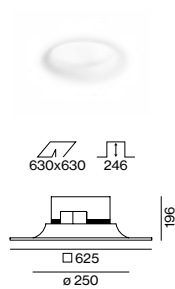
COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ↕
non DIM 1

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

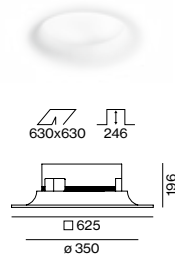
EMERGENCY LIGHT
 1h accupack
 3h accupack



BUBBLE 250 trimless



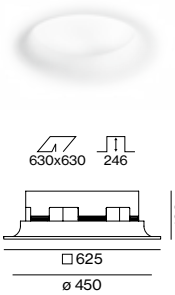
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	3000K	940lm	0 6 3 - 9 1 2 6 ⋮ 7 O
	4000K	1000lm	



BUBBLE 350 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19W	3000K	1990lm	0 6 3 - 9 1 3 6 ⋮ 7 O
	4000K	2120lm	

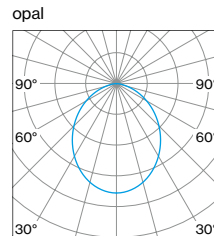


BUBBLE 450 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
27W	3000K	2980lm	0 6 3 - 9 1 4 6 ⋮ 7 O
	4000K	3160lm	

LIGHT DISTRIBUTION



Inspiration

SCOPE architekten
Stuttgart, Germany

ARCHITECT
SCOPE architekten
Stuttgart, Germany

PRODUCT
BUBBLE trimless
customised





Inspiration

Sparkasse
Dachau, Germany

PRODUCT
BUBBLE trimless
TASK suspended

ARCHITECT
G.H.K Architekten
Dachau, Germany

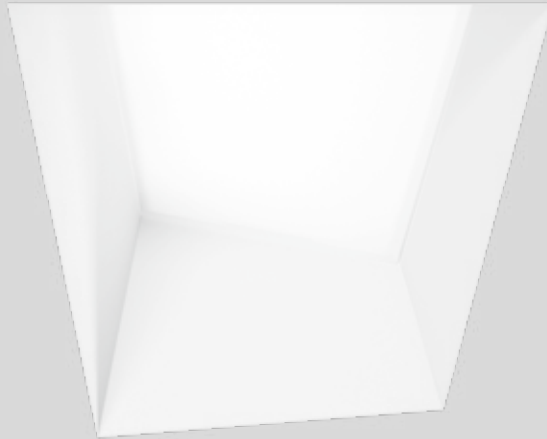




TRAPEZ

trimless

xal.com/trapez



Quickinfo

GENERAL

recessed
IP20
plasterboard ceilings only

LED

Mid-power LED
up to 77 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
uniform illumination
offset PMMA cover opal

ELECTRICAL

DIM DALI
DALI: CLO

PHYSICAL

gypsum housing
halogen-free cable

Description

DE Polygoner Leuchtenkörper aus Gips (übermalbar) für randlosen Einbau in Gipskartondecken; geeignet für Deckenstärken 12,5/15 mm; Leuchtgehäuse für Deckeneinbau vorab lieferbar; Leuchte bestehend aus Leuchtenkörper und Einbaugehäuse; werkzeuglose mechanische Verbindung mittels Schnappverschluss; elektrische Verbindung mittels verpolungssicherem Steckersystem; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung, werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion

EN Polygon shaped, square luminaire housing in plaster (paintable) for trimless installation in plasterboard ceilings; suitable for ceiling thickness of 12.5/15 mm; luminaire housing for ceiling installation available in advance; luminaire consisting of light housing and recessed housing; mechanical connection without tools using snap closure; electrical connection by means of reverse polarity protected plug system; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover, removable without tools for easy maintenance; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function

Features



skimmed into plasterboard ceiling (trimless)



tool-free mounting of light engine

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



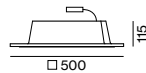
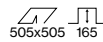
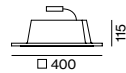
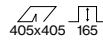
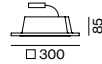
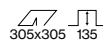
LIGHT OPTIC COVER
opal 0

Extended configuration

COLOUR TEMPERATURE 
4000K 6


Options on request

COLOUR RENDERING INDEX
CRI ≥ 90 0




TRAPEZ 200 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14W	3000K 4000K	1000lm 1060lm	0 6 3 - 9 3 2 6  3 7 0


TRAPEZ 300 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
21W	3000K 4000K	1550lm 1650lm	0 6 3 - 9 3 3 6  3 7 0

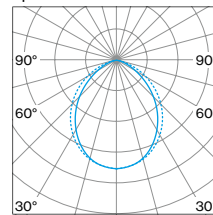
TRAPEZ 400 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000K 4000K	3040lm 3230lm	0 6 3 - 9 3 4 6  3 7 0

LIGHT DISTRIBUTION

opal



Accessories

VACUUM CUP

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0

DISMOUNTING TOOL

TYPE	ORDER CODE
dismounting tool	0 6 3 - 9 3 0 0 0 1 0

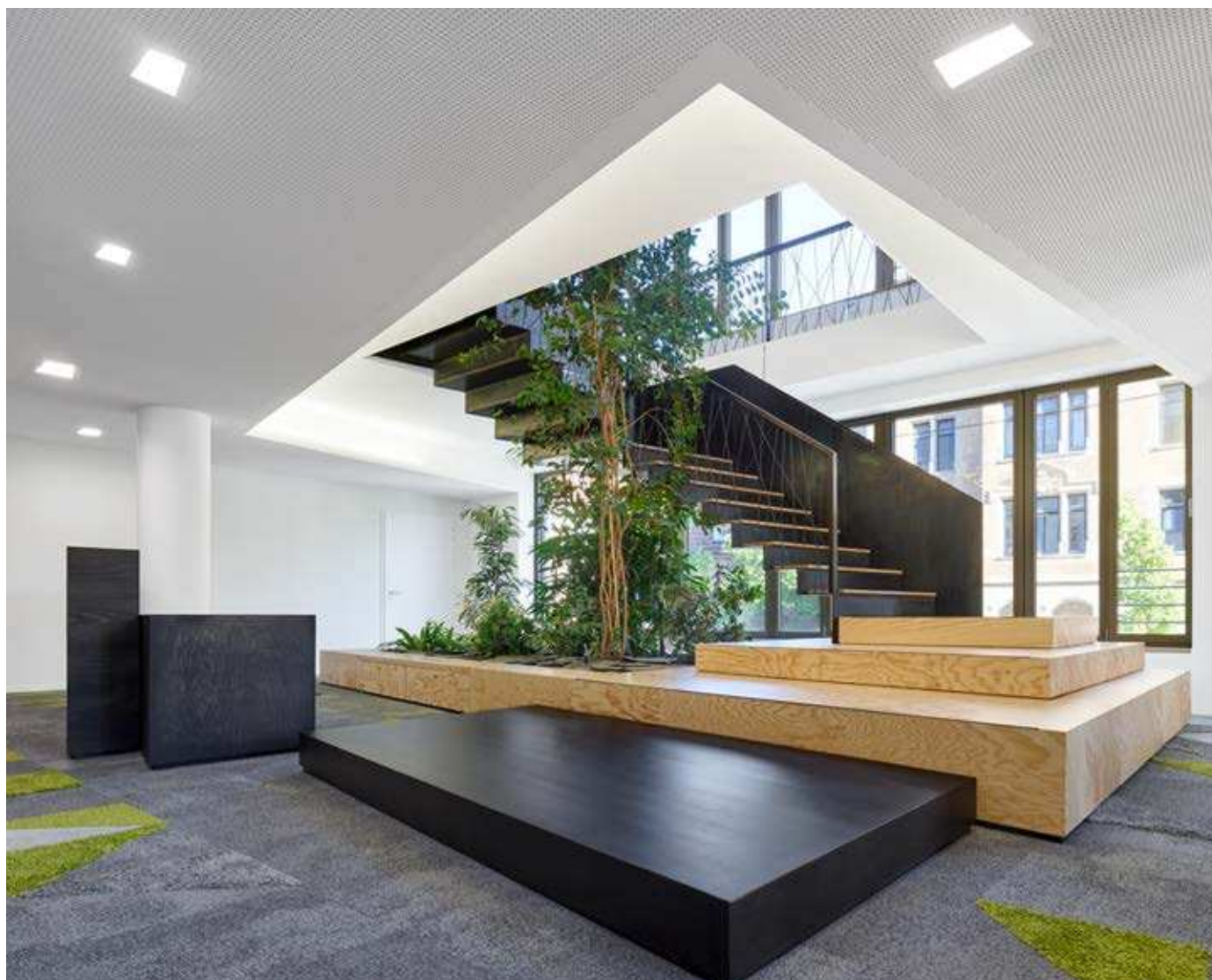


Inspiration

moovel group
Stuttgart, Germany

ARCHITECT
FURCH GESTALTUNG +
PRODUKTION GMBH
Stuttgart, Germany

PRODUCT
TRAPEZ trimless





LENO

trim

xal.com/leno



Quickinfo

GENERAL

recessed with trim
ceiling thickness 12,5 mm
↓ IP 40 / ↑ IP 20
quick installation

LED

Mid-power LED
up to 2007 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

220–240 V
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

LENO

trim system
[page 558](#)



Description

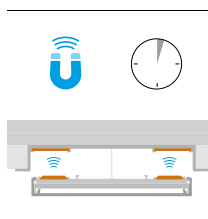
DE Extrem flacher Einbaukanal mit 14 mm Höhe; geeignet für den Einbau in 12,5 mm Decken, mit umlaufendem Rand; geeignet für die Wand- oder Deckenmontage; Oberfläche weiß pulverbeschichtet; einfache Montage ohne Schneiden der Unterkonstruktion; absturzgesicherter Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

EN Low profile recessed channel, height 14 mm; suitable for installation in 12.5 mm ceilings, with trim; suitable for wall or ceiling mounting; surface white powder coated; easy mounting without need to cut the substructure; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

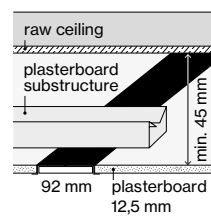
Features



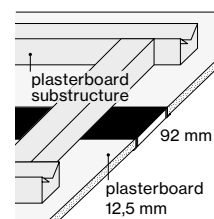
flat inset (11 mm)
UGR < 19



magnetic holders for
tool-free mounting



plasterboard
installation



alternative installation

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal high performance H

Extended configuration

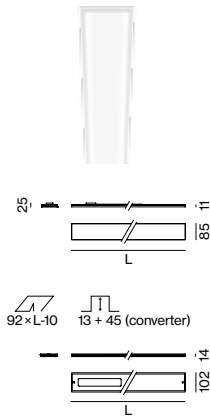
COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
non DIM 1

LIGHT OPTIC COVER
microprismatic (UGR < 19) G

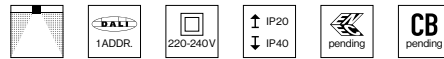
Options on request

EMERGENCY LIGHT
1h accupack
3h accupack

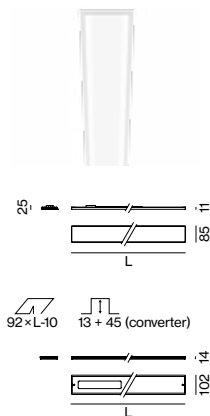


LENO trim, opal high performance

INSET + CHANNEL TRIM



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1150lm	629	0 5 1 - 8 4 1 2 ⋮ 7 H
	4000K	1220lm		
19W	3000K	2300lm	1237	0 5 1 - 8 4 1 4 ⋮ 7 H
	4000K	2450lm		
29W	3000K	3450lm	1846	0 5 1 - 8 4 1 6 ⋮ 7 H
	4000K	3670lm		
39W	3000K	4600lm	2454	0 5 1 - 8 4 1 8 ⋮ 7 H
	4000K	4890lm		



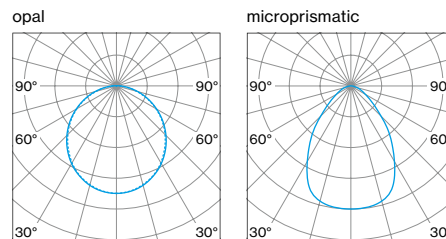
LENO trim, microprismatic

INSET + CHANNEL TRIM



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1090lm	629	0 5 1 - 8 4 1 2 ⋮ 7 G
	4000K	1160lm		
19W	3000K	2180lm	1237	0 5 1 - 8 4 1 4 ⋮ 7 G
	4000K	2310lm		
29W	3000K	3260lm	1846	0 5 1 - 8 4 1 6 ⋮ 7 G
	4000K	3470lm		
39W	3000K	4350lm	2454	0 5 1 - 8 4 1 8 ⋮ 7 G
	4000K	4620lm		

LIGHT DISTRIBUTION



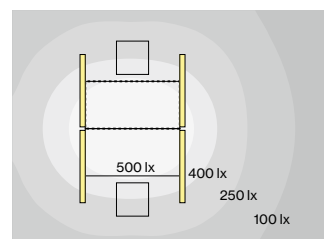
Accessories



DISMOUNTING TOOL

TYPE ORDER CODE
vacuum cup 0 8 6 - 3 0 0 0

Technical data



LENO trim, 19W, 4000K

ROOM VALUES

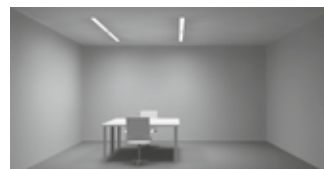
Room dimensions 5.4 × 4 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE

Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²



Inspiration

Pro Medico
Graz, Austria

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

PRODUCT
LENO trim
LENO system trim





LENO

trimless

xal.com/leno



Quickinfo

GENERAL

recessed trimless
ceiling thickness 12,5 mm
↓ IP 40 / ↑ IP 20
quick installation

LED

Mid-power LED
up to 2007 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

220–240 V
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

LENO

trimless system
page 562

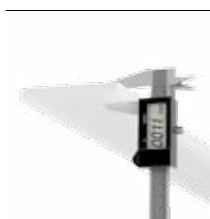


Description

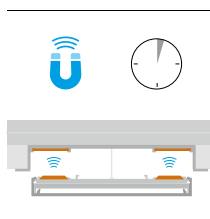
DE Extrem flacher Einbaukanal mit 13 mm Höhe; geeignet für den randlosen Einbau in 12,5 mm Gipskartondecken; geeignet für die Wand- oder Deckenmontage; Oberfläche weiß pulverbeschichtet; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; einfache Montage ohne Schneiden der Unterkonstruktion; absturzesicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP40 unten (oben IP20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

EN Low profile recessed channel, height 13 mm; suitable for rimless installation in 12.5 mm plasterboard ceilings; suitable for wall or ceiling mounting; surface white powder coated; special edge design with grooves for better adhesion of filler; easy mounting without need to cut the substructure; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

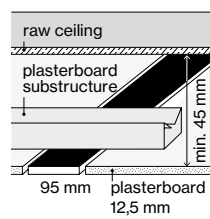
Features



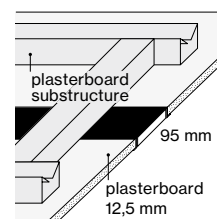
flat inset (11 mm)
UGR < 19



magnetic holders for
tool-free mounting



plasterboard
installation



alternative installation

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal high performance H

Extended configuration

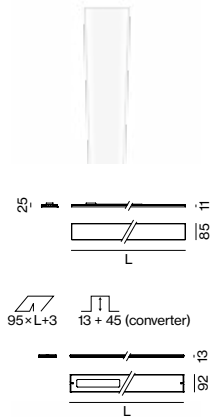
COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
non DIM 1

LIGHT OPTIC COVER
microprismatic (UGR < 19) G

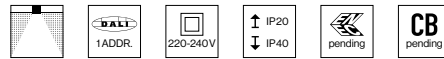
Options on request

EMERGENCY LIGHT
1h accupack
3h accupack



LENO trimless, opal high performance

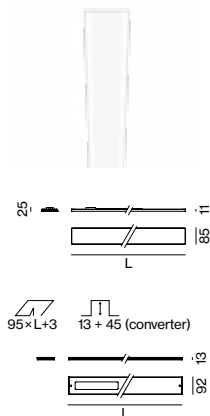
INSET + CHANNEL TRIMLESS



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1150lm	616	0 5 1 - 8 3 1 2 ⋮ 7 H
	4000K	1220lm		
19W	3000K	2300lm	1224	0 5 1 - 8 3 1 4 ⋮ 7 H
	4000K	2450lm		
29W	3000K	3450lm	1833	0 5 1 - 8 3 1 6 ⋮ 7 H
	4000K	3670lm		
39W	3000K	4600lm	2441	0 5 1 - 8 3 1 8 ⋮ 7 H
	4000K	4890lm		

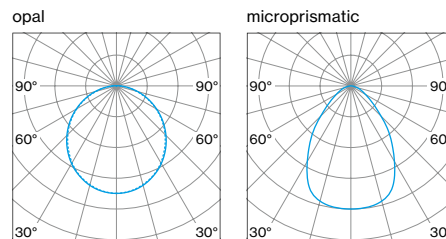
LENO trimless, microprismatic

INSET + CHANNEL TRIMLESS



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1090lm	616	0 5 1 - 8 3 1 2 ⋮ 7 G
	4000K	1160lm		
19W	3000K	2180lm	1224	0 5 1 - 8 3 1 4 ⋮ 7 G
	4000K	2310lm		
29W	3000K	3260lm	1833	0 5 1 - 8 3 1 6 ⋮ 7 G
	4000K	3470lm		
39W	3000K	4350lm	2441	0 5 1 - 8 3 1 8 ⋮ 7 G
	4000K	4620lm		

LIGHT DISTRIBUTION



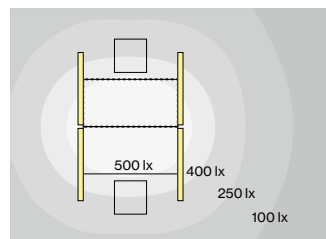
Accessories



DISMOUNTING TOOL

TYPE
vacuum cup 0 8 6 - 3 0 0 0

Technical data



LENO trimless, 19W, 4000K

ROOM VALUES

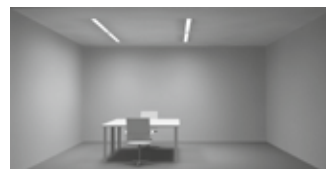
Room dimensions 5.4 × 4 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE

Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²



Inspiration

michael pachleitner group
Graz, Austria

ARCHITECT
GSarchitects
Graz, Austria

PRODUCT
LENO trimless

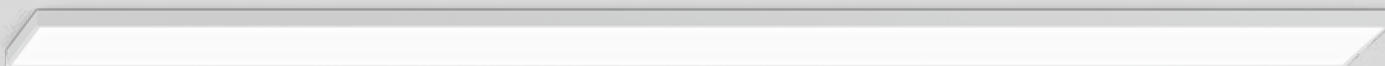




LENO

semi-recessed

xal.com/leno



Quickinfo

GENERAL

semi-recessed

IP 40 / IP 20

quick installation

LED

Mid-power LED

up to 2007 lm/m

up to 126 lm/W

3000K, 4000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

220–240V

DIM DALI

PHYSICAL

aluminium

powder-coated

LENO

semi-recessed
system

[page 566](#)



Description

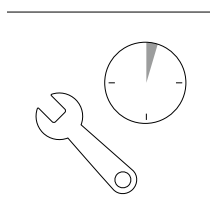
DE Extrem flache Einbauleuchte mit 15 mm sichtbarer Höhe; geeignet für die Wand- oder Deckenmontage; geeignet für den Einbau in gespachtelten Beton oder Sichtbeton, in Gipskartonkonstruktionen und in verputzten Wänden oder Decken; Oberfläche weiß, grau oder schwarz pulverbeschichtet; absturzesicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar

EN Low profile recessed mounted luminaire, 15 mm visible height; suitable for wall or ceiling mounting; suitable for installation in primed or exposed concrete, in plasterboard constructions and in plastered walls or ceilings; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable

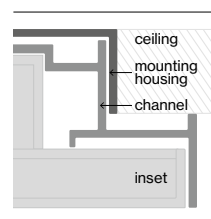
Features



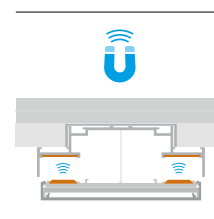
flat inset (11mm)
UGR < 19



quick installation



mounting



magnetic holders for
tool-free mounting

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬇
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal high performance H

Extended configuration

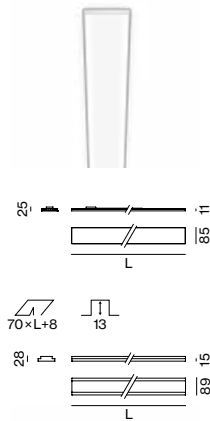
COLOUR TEMPERATURE ⋮
4000K 6

MATERIAL COLOUR ▣
grey G
black 8



+5% surcharges

LIGHT OPTIC COVER
microprismatic (UGR < 19) G

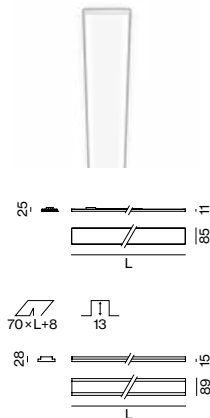


LENO semi-recessed, opal high performance

INSET + CHANNEL SEMI-RECESSED



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1150lm	618	0 5 1 - 8 5 1 2 ⋮ 3 ▣ H
	4000K	1220lm		
19W	3000K	2300lm	1226	0 5 1 - 8 5 1 4 ⋮ 3 ▣ H
	4000K	2450lm		
29W	3000K	3450lm	1835	0 5 1 - 8 5 1 6 ⋮ 3 ▣ H
	4000K	3670lm		
39W	3000K	4600lm	2443	0 5 1 - 8 5 1 8 ⋮ 3 ▣ H
	4000K	4890lm		



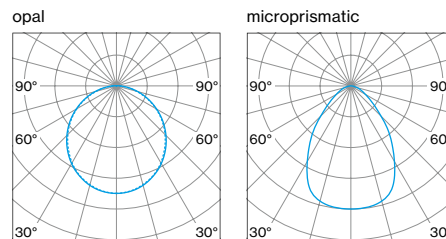
LENO semi-recessed, microprismatic

INSET + CHANNEL SEMI-RECESSED



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1090lm	618	0 5 1 - 8 5 1 2 ⋮ 3 ▣ G
	4000K	1160lm		
19W	3000K	2180lm	1226	0 5 1 - 8 5 1 4 ⋮ 3 ▣ G
	4000K	2310lm		
29W	3000K	3260lm	1835	0 5 1 - 8 5 1 6 ⋮ 3 ▣ G
	4000K	3470lm		
39W	3000K	4350lm	2443	0 5 1 - 8 5 1 8 ⋮ 3 ▣ G
	4000K	4620lm		

LIGHT DISTRIBUTION



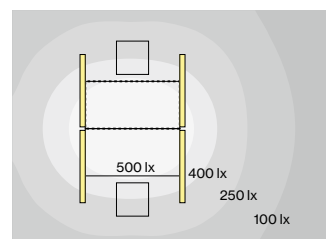
Accessories



DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0

Technical data



LENO semi-recessed, 19W, 4000K

ROOM VALUES

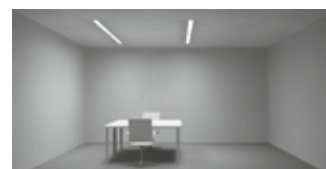
Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	

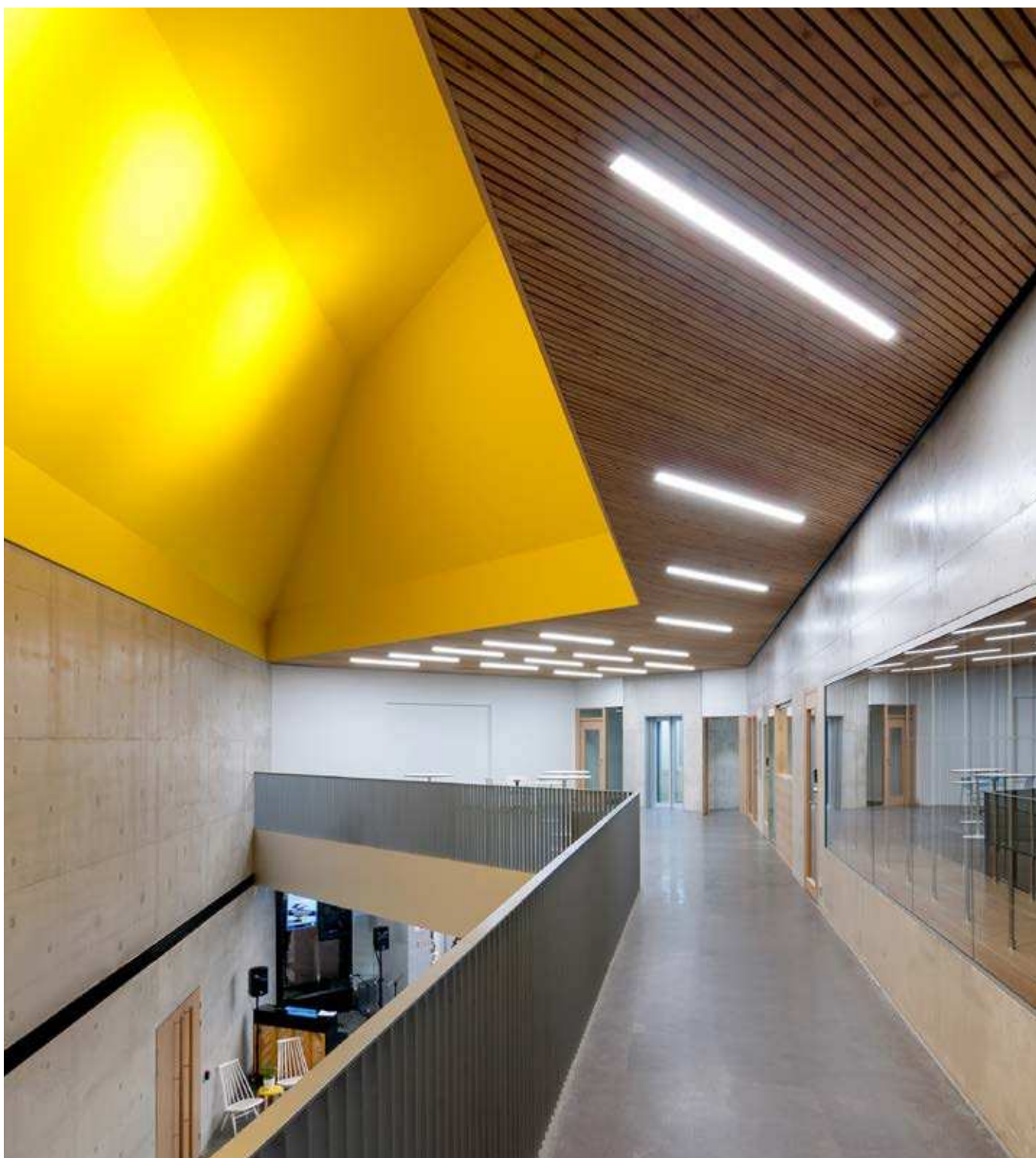


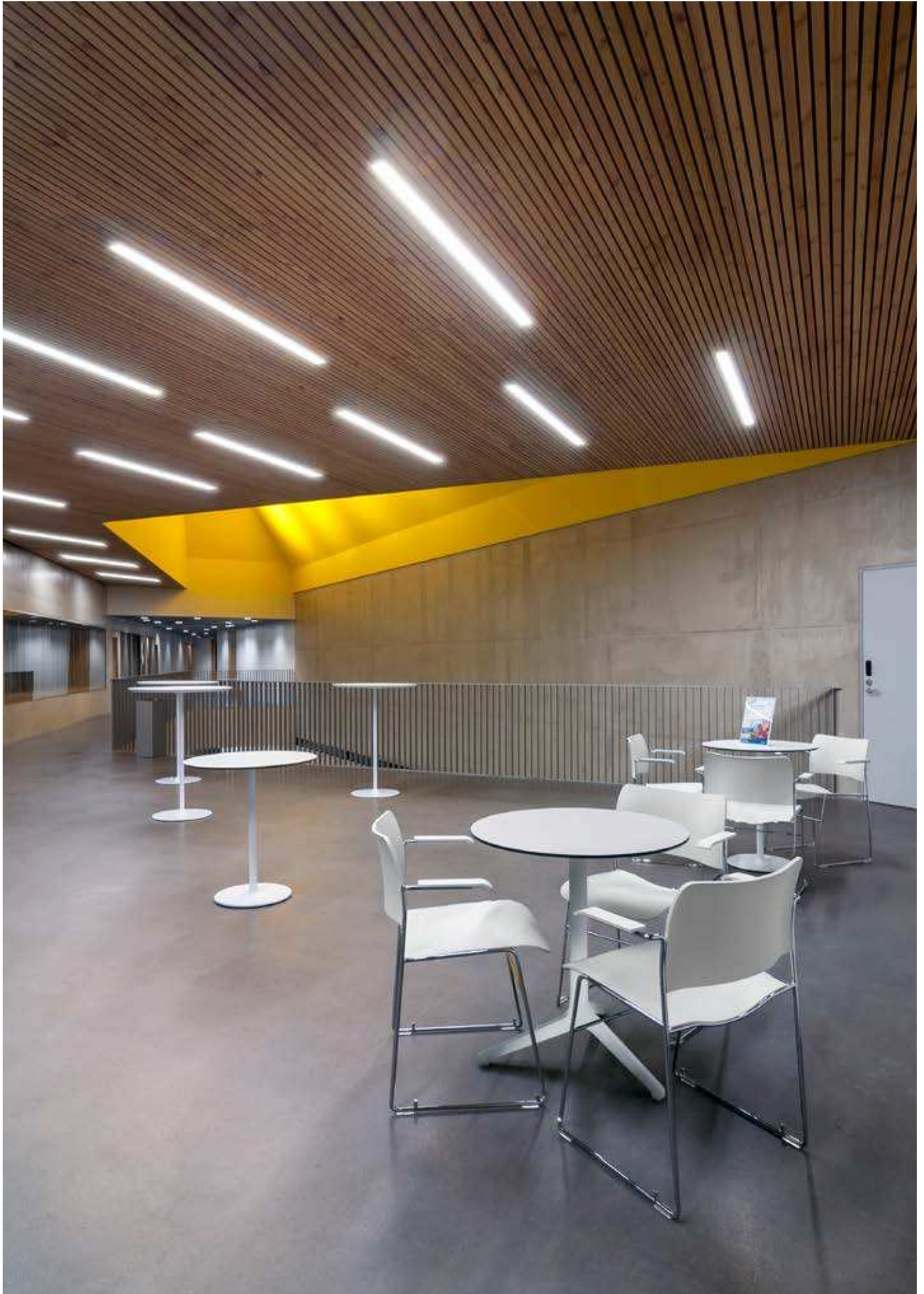
Inspiration

Maunulan työväenopisto
Helsinki, Finland

PRODUCT
LENO semi-recessed

ARCHITECT
Teclux Oy
Helsinki, Finland





LENO GRID 100

xal.com/leno

Quickinfo

GENERAL

ceiling recessed

± IP 40 / ± IP 20

quick installation

LED

Mid-power LED

up to 2590 lm/m

up to 128 lm/W

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic

ELECTRICAL

220–240 V

DIM DALI

PHYSICAL

aluminium

powder-coated

LENO GRID 100

system

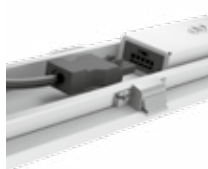
[page 578](#)

Description

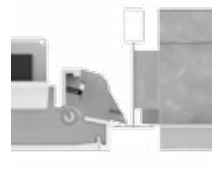
DE Extrem flache Einbauleuchte aus Aluminiumstrangpressprofil mit 39 mm Höhe und 85 mm Breite, geeignet für den Einbau in Armstrong® Rasterdecken On-Center Linear Lighting und TechZone™, Oberfläche weiß pulverbeschichtet; absturzesicherte Leuchte werkzeuglos mittels patentrelevantem Schnappmechanismus in das Armstrong® Deckensystem einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar; Plug & Play

EN Low profile recessed luminaire made from extruded aluminium profile with 39 mm height and 85 mm width, suitable for installation into Armstrong® ceiling systems using On-Center Linear Lighting and TechZone™, surface powder coated in white; fall-safe luminaire can be installed into Armstrong® ceiling systems without tools thanks to snap mechanism (patent pending); side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable; Plug & Play

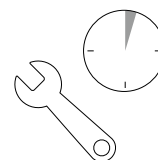
Features

made for "Armstrong
TechZone™"

plug & play



snap in



quick installation

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER □
opal high performance H

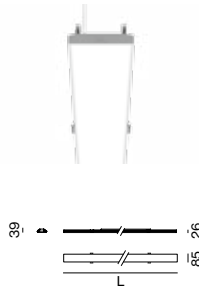
Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

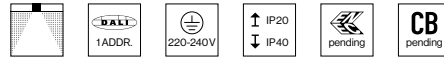
LIGHT OPTIC COVER □
microprismatic P

Options on request

EMERGENCY LIGHT
1h accupack
3h accupack



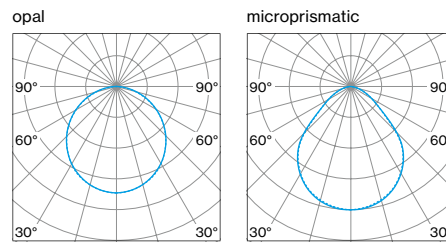
LENO GRID 100



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12 W	3000K	1420 lm	584	0 5 1 - 6 0 1 2 ⋮ 3 7 □
24 W	4000K	1510 lm	1184	0 5 1 - 6 0 1 4 ⋮ 3 7 □
	3000K	2840 lm		
35 W	4000K	3010 lm	1784	0 5 1 - 6 0 1 6 ⋮ 3 7 □
	3000K	4250 lm		
47 W	4000K	4520 lm	2384	0 5 1 - 6 0 1 8 ⋮ 3 7 □
	3000K	5670 lm		
	4000K	6030 lm		

luminous flux opal high performance

LIGHT DISTRIBUTION



LENO GRID 150

xal.com/leno

Quickinfo

GENERAL

ceiling recessed

IP 40 / IP 20

quick installation

LED

Mid-power LED

up to 2080 lm/m

up to 133 lm/W

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

220–240 V

DIM DALI

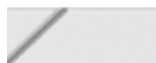
PHYSICAL

aluminium

powder-coated

LENO GRID 150

system

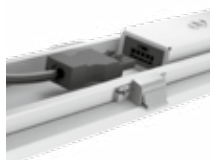
[page 580](#)

Description

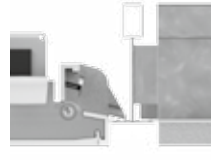
DE Extrem flache Einbauleuchte aus Aluminiumstrangpressprofil mit 39 mm Höhe und 135 mm Breite, geeignet für den Einbau in Armstrong® Rasterdecken On-Center Linear Lighting und TechZone™, Oberfläche weiß pulverbeschichtet; absturzesicherte Leuchte werkzeuglos mittels patentrelevantem Schnappmechanismus in das Armstrong® Deckensystem einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierete oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar; Plug & Play

EN Low profile recessed luminaire made from extruded aluminium profile with 39 mm height and 135 mm width, suitable for installation into Armstrong® ceiling systems using On-Center Linear Lighting and TechZone™, surface powder coated in white; fall-safe luminaire can be installed into Armstrong® ceiling systems without tools thanks to snap mechanism (patent pending); side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable; Plug & Play

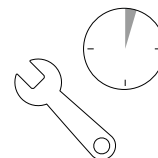
Features

made for "Armstrong
TechZone™"

plug & play



snap in



quick installation

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER □
microprismatic (UGR < 19) P

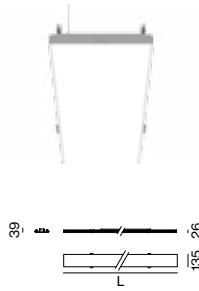
Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

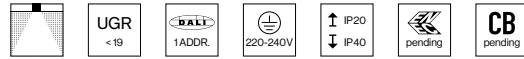
LIGHT OPTIC COVER □
opal high performance H

Options on request

EMERGENCY LIGHT
1h accupack
3h accupack



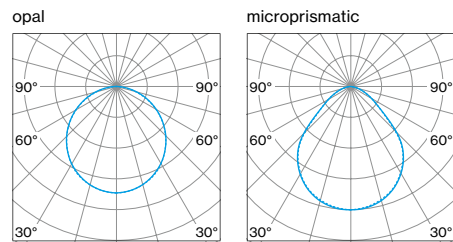
LENO GRID 150



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10 W	3000K 4000K	1140 lm 1210 lm	584	0 5 1 - 6 3 1 2 ⋮ 3 7 □
18 W	3000K 4000K	2280 lm 2420 lm	1184	0 5 1 - 6 3 1 4 ⋮ 3 7 □
27 W	3000K 4000K	3420 lm 3630 lm	1784	0 5 1 - 6 3 1 6 ⋮ 3 7 □
36 W	3000K 4000K	4560 lm 4840 lm	2384	0 5 1 - 6 3 1 8 ⋮ 3 7 □

luminous flux opal high performance

LIGHT DISTRIBUTION



MINO X

xal.com/mino

Rockfon
ACTIVATE YOUR CEILING

Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 2730lm/m
up to 122lm/W
3000K, 4000K, tunable white
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal, microprismatic
CSC cover jut-out

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

MINO X system

recessed

[page 606](#)



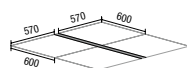
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; Oberfläche weiß pulverbeschichtet; speziell für Einsatz in Rockfon® System X Deckeneinbausystemen konzipiert; individuelle Anpassung möglich; mit Snap-In Einbaubügel für einfache und werkzeuglose Montage; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung, wahlweise deckenbündig oder 8mm hervorstehend (jut-out); mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; Betriebsgerät in aufgesetztem Aluminiumgehäuse verbaut; optional nicht dimmbar

EN Luminaire housing made of extruded aluminium; surface white powder coated; specially developed for use in Rockfon® System X recessed ceiling systems; individual adjustment possible; with snap-in mounting brackets for easy mounting without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for homogeneous illumination, optionally flush with ceiling or protruding by 8mm (jut-out); micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; operating unit installed in attached aluminium housing; optional non-dimmable

Features

Rockfon
ACTIVATE YOUR CEILING



made for "Rockfon®
System X"



tunable white
3000-6000K

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ↕
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER ☐
opal high performance H

Extended configuration

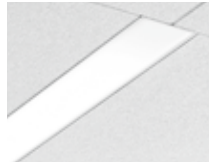
COLOUR TEMPERATURE ⋮
4000K 6
tunable white 3000-6000K

CONTROL ↕
non DIM 1

LIGHT OPTIC COVER ☐
microprismatic Z
jut-out J

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



MINO X



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	3000K	1480lm	600	0 5 9 - 4 0 3 2 ⋮ 7 ☐
	4000K	1570lm		
26 W	3000K	2960lm	1200	0 5 9 - 4 0 3 4 ⋮ 7 ☐
	4000K	3140lm		
39 W	3000K	4430lm	1800	0 5 9 - 4 0 3 6 ⋮ 7 ☐
	4000K	4710lm		
51 W	3000K	5910lm	2400	0 5 9 - 4 0 3 8 ⋮ 7 ☐
	4000K	6280lm		
64 W	3000K	7390lm	3000	0 5 9 - 4 0 3 9 ⋮ 7 ☐
	4000K	7850lm		

luminous flux opal high performance

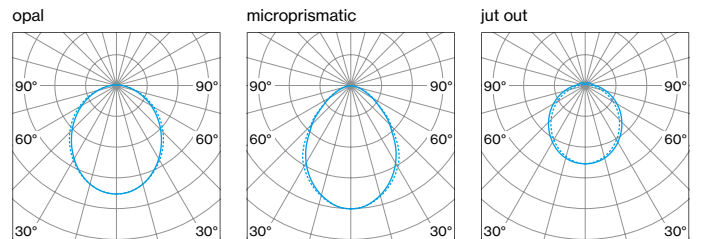
MINO X tunable white 3000-6000K



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27 W	3000-6000K	3260lm	1200	0 5 9 - 4 0 3 4 0 3 7 ☐
40 W	3000-6000K	4890lm	1800	0 5 9 - 4 0 3 6 0 3 7 ☐
54 W	3000-6000K	6530lm	2400	0 5 9 - 4 0 3 8 0 3 7 ☐

luminous flux opal high performance

LIGHT DISTRIBUTION



Inspiration

DTU Space, National Space Institute
Denmark

PRODUCT
MINO X
MINO X system

ARCHITECT
Erik Møller Architects A/S
Copenhagen, Denmark

LIGHTING DESIGN
anker & co
Copenhagen, Denmark

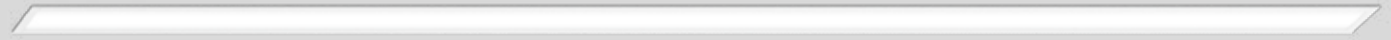




BASO 40

trim

xal.com/baso



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 2345 lm/m
up to 102 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

BASO 40

system trim

[page 466](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-20 mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial \leq 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI \geq 80; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; optional nicht dimmbar

EN Luminaire housing made of extruded aluminium; Recessed luminaire with trim; suitable for ceiling thickness of 8-20 mm; surface white powder coated; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; energy-efficient LEDs with very good colour rendering; binning initial \leq 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI \geq 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optional non-dimmable

Features



high-quality aluminium frame



asymmetric lens

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR
white 7



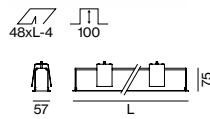
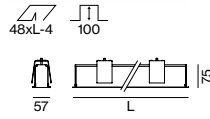
LIGHT OPTIC COVER
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
non DIM 1

LIGHT OPTIC LENS
asymmetric A



BASO 40 trim, opal high performance



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1290 lm	619	0 4 5 - 0 5 2 2 ⬢⬢ 7 H
	4000K	1370 lm		
28 W	3000K	2580 lm	1219	0 4 5 - 0 5 2 4 ⬢⬢ 7 H
	4000K	2740 lm		
42 W	3000K	3860 lm	1819	0 4 5 - 0 5 2 6 ⬢⬢ 7 H
	4000K	4100 lm		
56 W	3000K	5150 lm	2419	0 4 5 - 0 5 2 8 ⬢⬢ 7 H
	4000K	5470 lm		

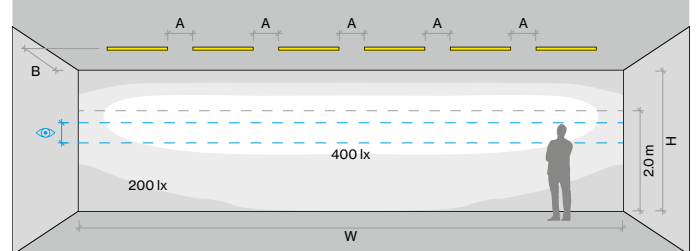
BASO 40 trim, wallwasher



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1320 lm	619	0 4 5 - 0 5 2 2 ⬢⬢ 7 A
	4000K	1400 lm		
28 W	3000K	2640 lm	1219	0 4 5 - 0 5 2 4 ⬢⬢ 7 A
	4000K	2810 lm		
42 W	3000K	3970 lm	1819	0 4 5 - 0 5 2 6 ⬢⬢ 7 A
	4000K	4210 lm		
56 W	3000K	5290 lm	2419	0 4 5 - 0 5 2 8 ⬢⬢ 7 A
	4000K	5620 lm		

Technical data

BASO 40 trim, wallwasher, 28 W, 3000 K

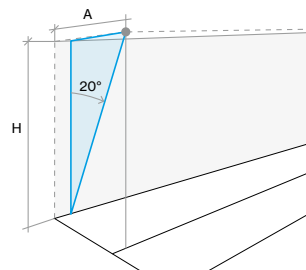


ROOM VALUES

Wall dimensions H = 2.8 m | W = 10.8 m
Distance to wall B = 1.3 m
Distance between luminaires 0.5 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE

Surface dimensions 10.8 × 2.8 m
Surface height 0 – 2.8 m
Eye level 1.35 m – 1.75 m



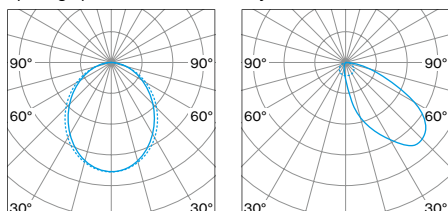
MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

LIGHT DISTRIBUTION

opal high performance

asymmetric



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	W-H (mm)	ORDER CODE
605	55-86	045-0592010
1205	55-86	045-0594010
1805	55-86	045-0596010
2405	55-86	045-0598010

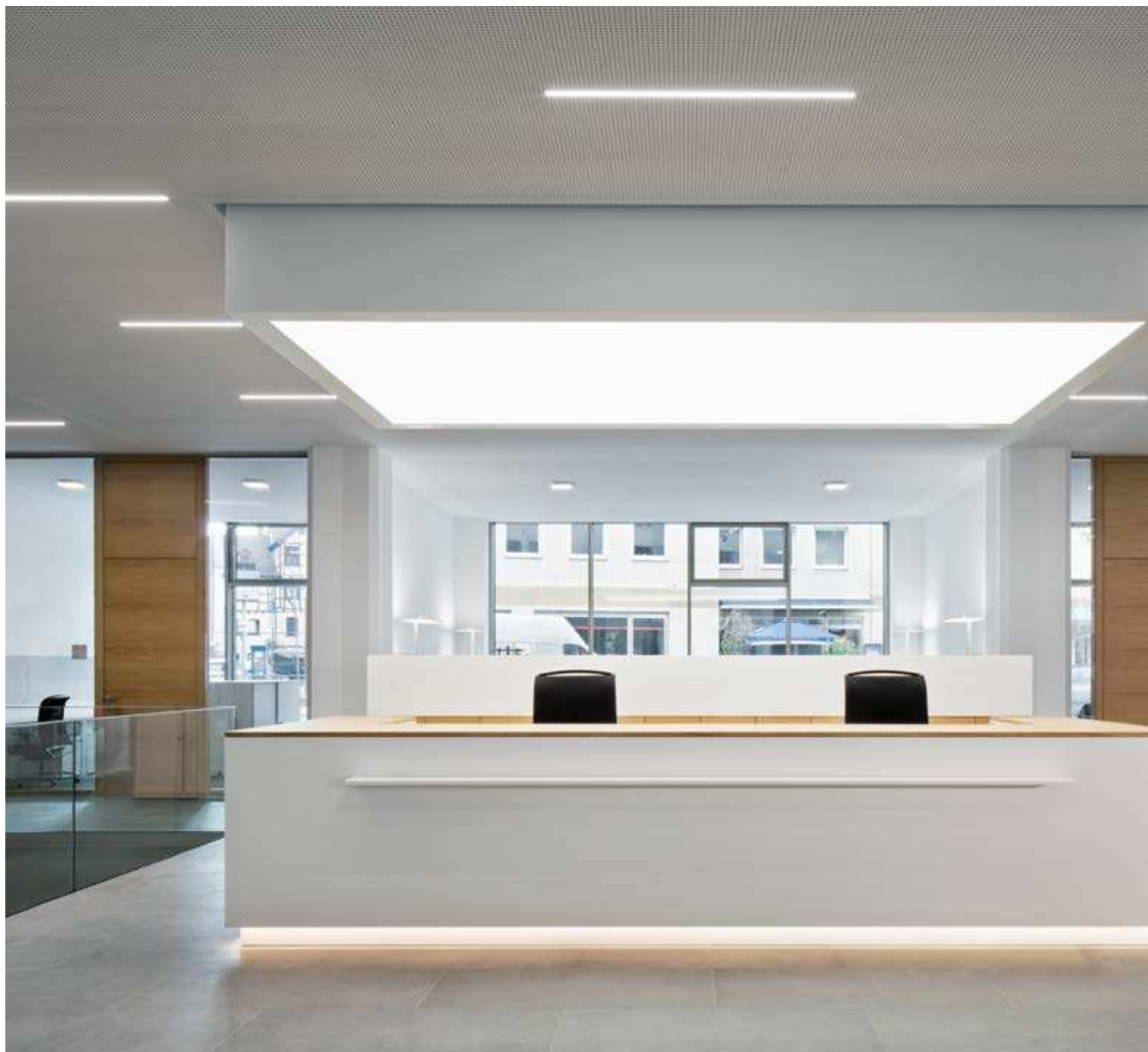
no use for wall installation (only on request)

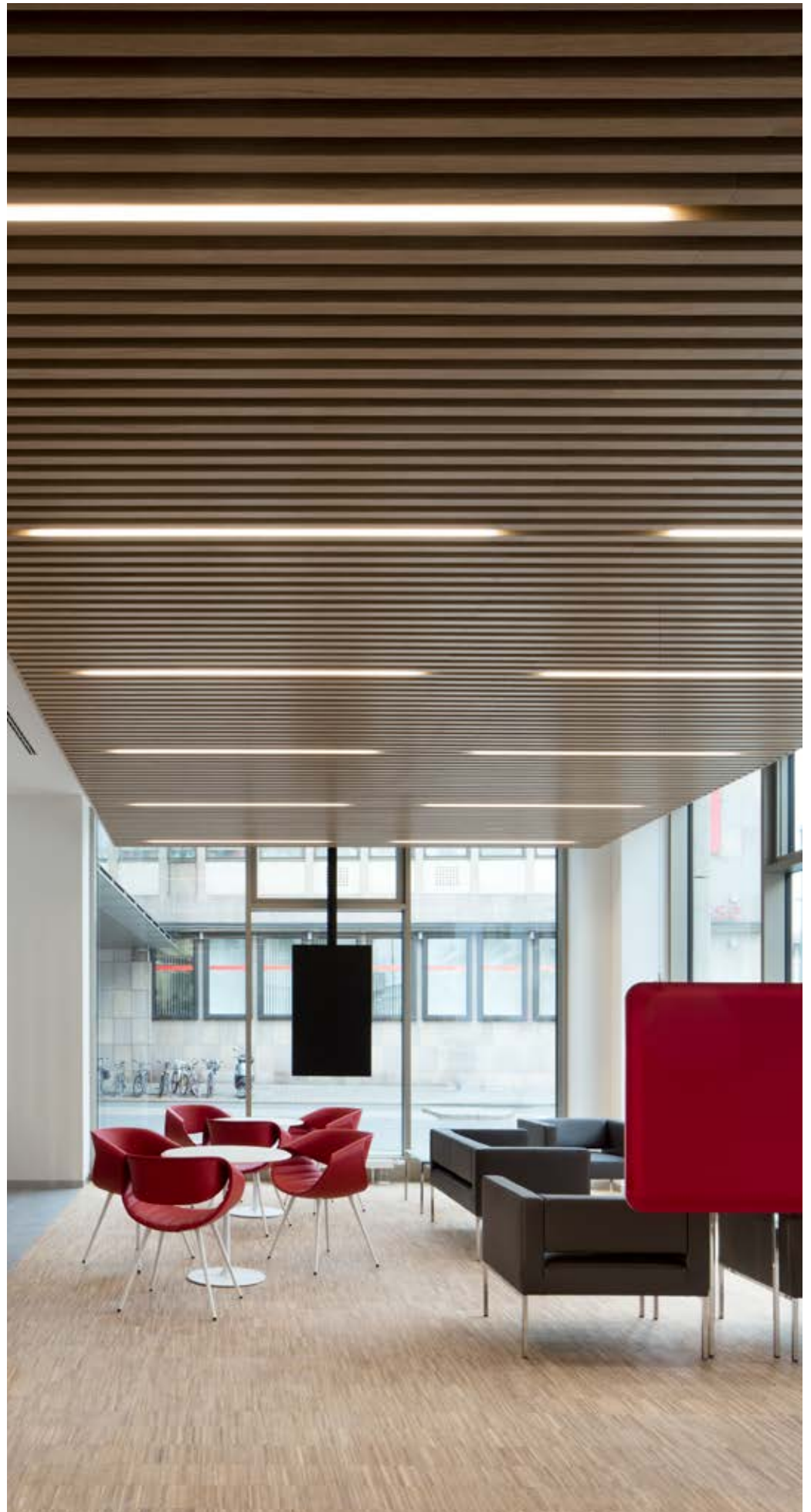
Inspiration

Sparkasse, Bank
Nuremberg, Germany

PRODUCT
BASO 40 trim

ARCHITECT
baum-kappler architekten
Nuremberg, Germany

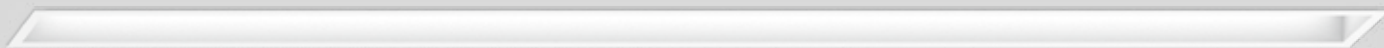




CANYON 60

trim offset

xal.com/canyon



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 3001lm/m
up to 97lm/W
3000K, 4000K
CRI > 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
impact resistant diffusor
halogen-free cable

CANYON 60

system trim
offset

[page 480](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß oder schwarz pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Leuchte laut DIN 57710 Teil 13 / VDE 0710 Teil 13 ballwurfsicher ausgeführt; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing made of extruded aluminium; uncluttered ceiling look through recessed lighting level; Recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface powder coated in white or black; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; luminaire, ball proof version to 57710 part 13 / VDE 0710 part 13; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Features



high-quality aluminium frame



offset installation of luminaire



ball-impact-resistant (DIN 57710-13)



power switch

Standard configuration

COLOUR TEMPERATURE ⬆
3000K 5

CONTROL ⬆
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER ▣
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬆
4000K 6

MATERIAL COLOUR ▣
black 8



+5% surcharges

LIGHT OPTIC COVER ▣
microprismatic Z

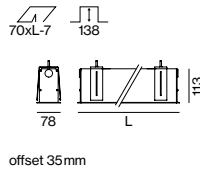
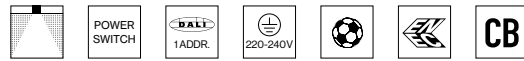
Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)



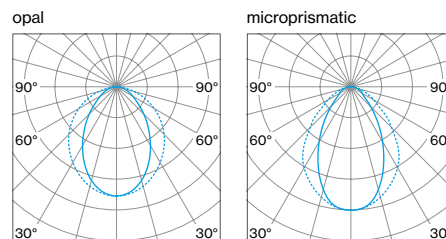
CANYON 60 trim offset



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K 4000K	770 lm 820 lm	593	0 5 2 - 5 2 P 2 ⬆ ▣ ▣
15W e ²	3000K 4000K	1240 lm 1320 lm		
21W e ²⁺	3000K 4000K	1620 lm 1720 lm		
13W e	3000K 4000K	1160 lm 1230 lm	893	0 5 2 - 5 2 P 3 ⬆ ▣ ▣
22W e ²	3000K 4000K	1860 lm 1980 lm		
31W e ²⁺	3000K 4000K	2420 lm 2570 lm		
17W e	3000K 4000K	1550 lm 1650 lm	1193	0 5 2 - 5 2 P 4 ⬆ ▣ ▣
29W e ²	3000K 4000K	2480 lm 2640 lm		
41W e ²⁺	3000K 4000K	3230 lm 3430 lm		
21W e	3000K 4000K	1940 lm 2060 lm	1493	0 5 2 - 5 2 P 5 ⬆ ▣ ▣
37W e ²	3000K 4000K	3100 lm 3300 lm		
52W e ²⁺	3000K 4000K	4040 lm 4290 lm		
34W e	3000K 4000K	3100 lm 3290 lm	2365	0 5 2 - 5 2 P 8 ⬆ ▣ ▣
59W e ²	3000K 4000K	4960 lm 5270 lm		
82W e ²⁺	3000K 4000K	6460 lm 6870 lm		

luminous flux white profile, opal high performanc, -9% by microprismatic cover

LIGHT DISTRIBUTION



Inspiration

Microsoft Headquarters
Vienna, Austria

PRODUCT
CANYON 60 trim offset

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

LIGHTING DESIGN
INNOCAD Architektur ZT
Graz, Austria





Inspiration

Sportpark Lissfeld
Linz, Austria

PRODUCT
CANYON 60 trim offset

ARCHITECT
sps architekten
Thalgau, Austria

LIGHTING DESIGN
Instaplan Technisches
Büro für Elektrotechnik
Faistenau, Austria





FRAME 60

trim

xal.com/frame

Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 3562lm/m
up to 115lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

FRAME 60

system
trim

[page 486](#)



Description

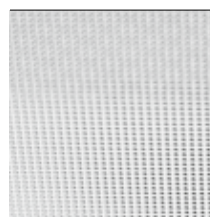
DE Leuchtenkörper aus Aluminiumstrangpressprofil; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25mm; Oberfläche weiß oder grau pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing made of extruded aluminium; Recessed luminaire with trim; suitable for ceiling thickness of 8-25mm; surface powder coated in white or grey; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Features



high-quality aluminium frame



microprismatic (UGR < 19)



power switch



tunable white 3000–6000K on request

Standard configuration

COLOUR TEMPERATURE ⦿
3000K 5

CONTROL ⬇
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⦿
4000K 6

MATERIAL COLOUR ☑
grey G



+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic Z
microprismatic (UGR < 19)* G

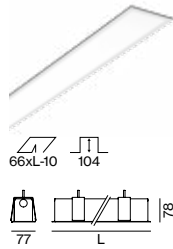
*UGR < 19 only with e LED

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

INDIVIDUAL MATERIAL COLOUR
please contact factory



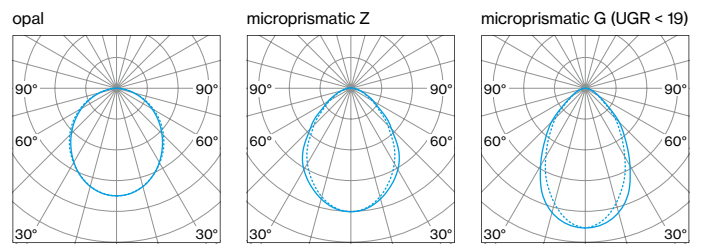
FRAME 60 trim



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K	860 lm	593	0 5 2 - 4 7 P 2 ⦿ ☑ ☑
	4000K	980 lm		
15W e ²	3000K	1470 lm	893	0 5 2 - 4 7 P 3 ⦿ ☑ ☑
	4000K	1560 lm		
21W e ²⁺	3000K	1920 lm	1193	0 5 2 - 4 7 P 4 ⦿ ☑ ☑
	4000K	2040 lm		
13W e	3000K	1290 lm	1493	0 5 2 - 4 7 P 5 ⦿ ☑ ☑
	4000K	1470 lm		
22W e ²	3000K	2210 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	2350 lm		
31W e ²⁺	3000K	2880 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	3060 lm		
17W e	3000K	1720 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	1950 lm		
29W e ²	3000K	2950 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	3130 lm		
41W e ²⁺	3000K	3830 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	4070 lm		
21W e	3000K	2150 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	2440 lm		
37W e ²	3000K	3680 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	3910 lm		
52W e ²⁺	3000K	4790 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	5090 lm		
34W e	3000K	3430 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	3910 lm		
59W e ²	3000K	5890 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	6260 lm		
82W e ²⁺	3000K	7670 lm	2365	0 5 2 - 4 7 P 8 ⦿ ☑ ☑
	4000K	8150 lm		

luminous flux opal high performance, -13% by microprismatic Z cover,
-15% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	W-H (mm)	ORDER CODE
582	75-88	0 3 5 - 0 4 0 6 6
882	75-88	0 3 5 - 0 4 0 9 6
1182	75-88	0 3 5 - 0 4 1 2 6
1482	75-88	0 3 5 - 0 4 1 5 6
2354	75-88	0 3 5 - 0 4 2 3 6

no use for wall installation (only on request)



Inspiration

F & F CUCINE
Ahmedabad, India

PRODUCT
FRAME 60 trim

ARCHITECT
SamARCH Architects
Ahmedabad, India

LIGHTING DESIGN
SamARCH Architects
Ahmedabad, India

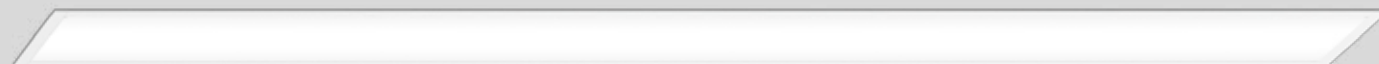




FRAME 100

trim

xal.com/frame



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 3990 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

FRAME 100

system trim

[page 526](#)



Description

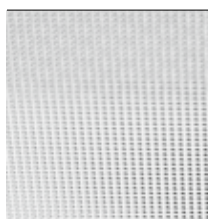
DE Leuchtenkörper aus Aluminiumstrangpressprofil; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß oder grau pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e" und "e2"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial \leq 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI \geq 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing made of extruded aluminium; Recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface powder coated in white or grey; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e" and "e²"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial \leq 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI \geq 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Features



high-quality aluminium frame



microprismatic (UGR < 19)



power switch



tunable white 3000–6000 K on request

Standard configuration

COLOUR TEMPERATURE ⦿
3000K 5

CONTROL ⬇
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⦿
4000K 6

MATERIAL COLOUR ☑
grey G



+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic Z
microprismatic (UGR < 19)* G

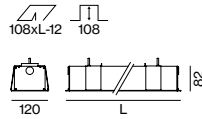
*UGR < 19 only with e/e² LED

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

INDIVIDUAL MATERIAL COLOUR
please contact factory



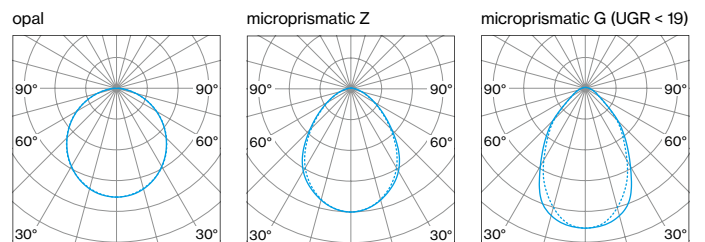
FRAME 100 trim



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K	1030 lm	596	0 5 2 - 4 3 P 2 ⦿ ☑ ☑
	4000K	1090 lm		
15W e ²	3000K	1650 lm	896	0 5 2 - 4 3 P 3 ⦿ ☑ ☑
	4000K	1750 lm		
21W e ²⁺	3000K	2150 lm	1196	0 5 2 - 4 3 P 4 ⦿ ☑ ☑
	4000K	2280 lm		
13W e	3000K	1540 lm	1496	0 5 2 - 4 3 P 5 ⦿ ☑ ☑
	4000K	1640 lm		
22W e ²	3000K	2470 lm	2368	0 5 2 - 4 3 P 8 ⦿ ☑ ☑
	4000K	2630 lm		
31W e ²⁺	3000K	3220 lm		
	4000K	3420 lm		
17W e	3000K	2060 lm		
	4000K	2190 lm		
29W e ²	3000K	3300 lm		
	4000K	3510 lm		
41W e ²⁺	3000K	4300 lm		
	4000K	4560 lm		
21W e	3000K	2570 lm		
	4000K	2730 lm		
37W e ²	3000K	4120 lm		
	4000K	4380 lm		
52W e ²⁺	3000K	5370 lm		
	4000K	5700 lm		
34W e	3000K	4120 lm		
	4000K	4380 lm		
59W e ²	3000K	6600 lm		
	4000K	7010 lm		
82W e ²⁺	3000K	8590 lm		
	4000K	9130 lm		

luminous flux opal high performance, -8% by microprismatic Z cover,
-10% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	W-H (mm)	ORDER CODE
582	116-94	0 3 5 - 0 5 0 6 6
882	116-94	0 3 5 - 0 5 0 9 6
1182	116-94	0 3 5 - 0 5 1 2 6
1482	116-94	0 3 5 - 0 5 1 5 6
2354	116-94	0 3 5 - 0 5 2 3 6

no use for wall installation (only on request)



Inspiration

Geriatrics
Simmering, Austria

ARCHITECT
Josef Weichenberger architects + Partner
Vienna, Austria

LIGHTING DESIGN
Josef Weichenberger architects + Partner
Vienna, Austria

PRODUCT
FRAME 100 trim





BASO 40

trimless

xal.com/baso

Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 2345 lm/m
up to 102 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium raw
halogen-free cable

BASO 40

system trimless

[page 470](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Löchern für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-20 mm; Oberfläche roh; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial \leq 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI \geq 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; optional nicht dimmbar

EN Luminaire housing made of extruded aluminium; for trimless installation in plasterboard ceilings; special edge design with perforations for better adhesion of filler; suitable for ceiling thickness of 8-20 mm; surface raw; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; energy-efficient LEDs with very good colour rendering; binning initial \leq 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI \geq 80; min. 90 % of the luminous flux after 50000 hours; protection class IP20; PC I; optional non-dimmable

Features



skimmed into plasterboard ceiling (trimless)



asymmetric lens

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR
aluminium raw 0



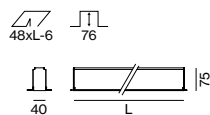
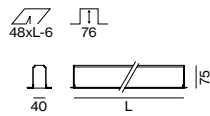
LIGHT OPTIC COVER
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
non DIM 1

LIGHT OPTIC LENS
asymmetric A



BASO 40 trimless, opal high performance



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1290 lm	620	0 4 5 - 0 7 2 2 ⬢⬢ 0 H
	4000K	1370 lm		
28 W	3000K	2580 lm	1220	0 4 5 - 0 7 2 4 ⬢⬢ 0 H
	4000K	2740 lm		
42 W	3000K	3860 lm	1820	0 4 5 - 0 7 2 6 ⬢⬢ 0 H
	4000K	4100 lm		
56 W	3000K	5150 lm	2420	0 4 5 - 0 7 2 8 ⬢⬢ 0 H
	4000K	5470 lm		

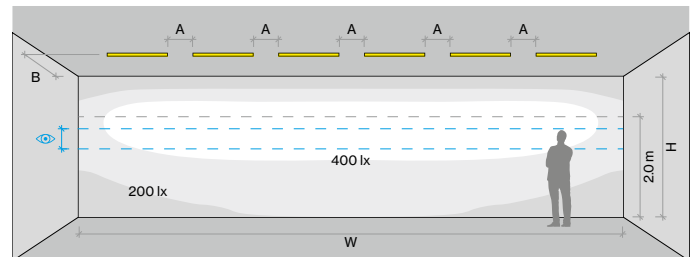
BASO 40 trimless, wallwasher



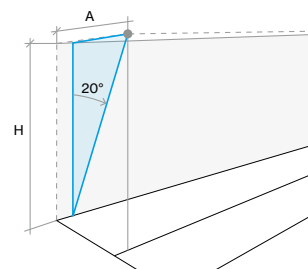
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1320 lm	620	0 4 5 - 0 7 2 2 ⬢⬢ 0 A
	4000K	1400 lm		
28 W	3000K	2640 lm	1220	0 4 5 - 0 7 2 4 ⬢⬢ 0 A
	4000K	2810 lm		
42 W	3000K	3970 lm	1820	0 4 5 - 0 7 2 6 ⬢⬢ 0 A
	4000K	4210 lm		
56 W	3000K	5290 lm	2420	0 4 5 - 0 7 2 8 ⬢⬢ 0 A
	4000K	5620 lm		

Technical data

BASO 40 trimless, wallwasher, 28 W, 3000K



ROOM VALUES		CALCULATION SURFACE	
Wall dimensions	H = 2.8 m W = 10.8 m	Surface dimensions	10.8 × 2.8 m
Distance to wall	B = 1.3 m	Surface height	0 – 2.8 m
Distance between luminaires	0.5 m	Eye level	1.35 m – 1.75 m
Reflection factor	0.7 0.5 0.2		
Maintenance factor	0.8		



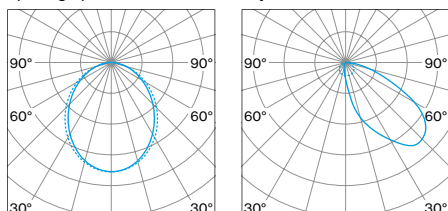
MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

LIGHT DISTRIBUTION

opal high performance

asymmetric



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	W-H (mm)	ORDER CODE
605	55-86	045-0792010
1205	55-86	045-0794010
1805	55-86	045-0796010
2405	55-86	045-0798010

no use for wall installation (only on request)

CANYON 60

trimless offset

xal.com/canyon

Quickinfo

GENERAL

recessed
IP20
plasterboard ceilings only

LED

Mid-power LED
up to 3001lm/m
up to 97lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
offset PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated. anodised
impact resistant diffuser
halogen-free cable

CANYON 60

system
trimless offset
[page 484](#)

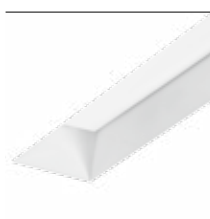


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet oder schwarz eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Leuchte laut DIN 57710 Teil 13 / VDE 0710 Teil 13 ballwurfsicher ausgeführt; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing made of extruded aluminium; uncluttered ceiling look through recessed lighting level; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25 mm; surface white powder coated or anodised black; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; luminaire, ball proof version to 57710 part 13 / VDE 0710 part 13; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Features



offset installation of luminaire



ball-impact-resistant (DIN 57710-13)



skimmed into plasterboard ceiling (trimless)



power switch

Standard configuration

COLOUR TEMPERATURE ⦿
3000K 5

CONTROL ⬆
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⦿
4000K 6

MATERIAL COLOUR ☑
black 8



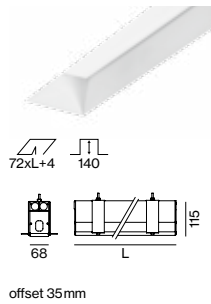
+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic Z

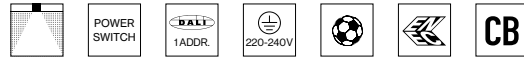
Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)



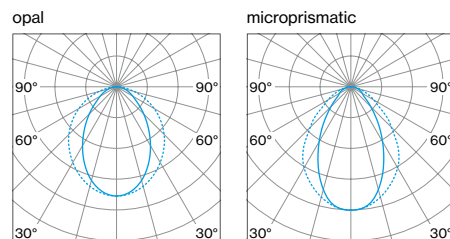
CANYON 60 trimless offset



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K 4000K	770 lm 820 lm	580	0 5 2 - 3 7 P 2 ⦿ ⬆ ☑ ☑
15W e ²	3000K 4000K	1240 lm 1320 lm		
21W e ²⁺	3000K 4000K	1620 lm 1720 lm		
13W e	3000K 4000K	1160 lm 1230 lm	880	0 5 2 - 3 7 P 3 ⦿ ⬆ ☑ ☑
22W e ²	3000K 4000K	1860 lm 1980 lm		
31W e ²⁺	3000K 4000K	2420 lm 2570 lm		
17W e	3000K 4000K	1550 lm 1650 lm	1180	0 5 2 - 3 7 P 4 ⦿ ⬆ ☑ ☑
29W e ²	3000K 4000K	2480 lm 2640 lm		
41W e ²⁺	3000K 4000K	3230 lm 3430 lm		
21W e	3000K 4000K	1940 lm 2060 lm	1480	0 5 2 - 3 7 P 5 ⦿ ⬆ ☑ ☑
37W e ²	3000K 4000K	3100 lm 3300 lm		
52W e ²⁺	3000K 4000K	4040 lm 4290 lm		
34W e	3000K 4000K	3100 lm 3290 lm	2352	0 5 2 - 3 7 P 8 ⦿ ⬆ ☑ ☑
59W e ²	3000K 4000K	4960 lm 5270 lm		
82W e ²⁺	3000K 4000K	6460 lm 6870 lm		

luminous flux white profile, opal high performance, -9% by microprismatic cover

LIGHT DISTRIBUTION



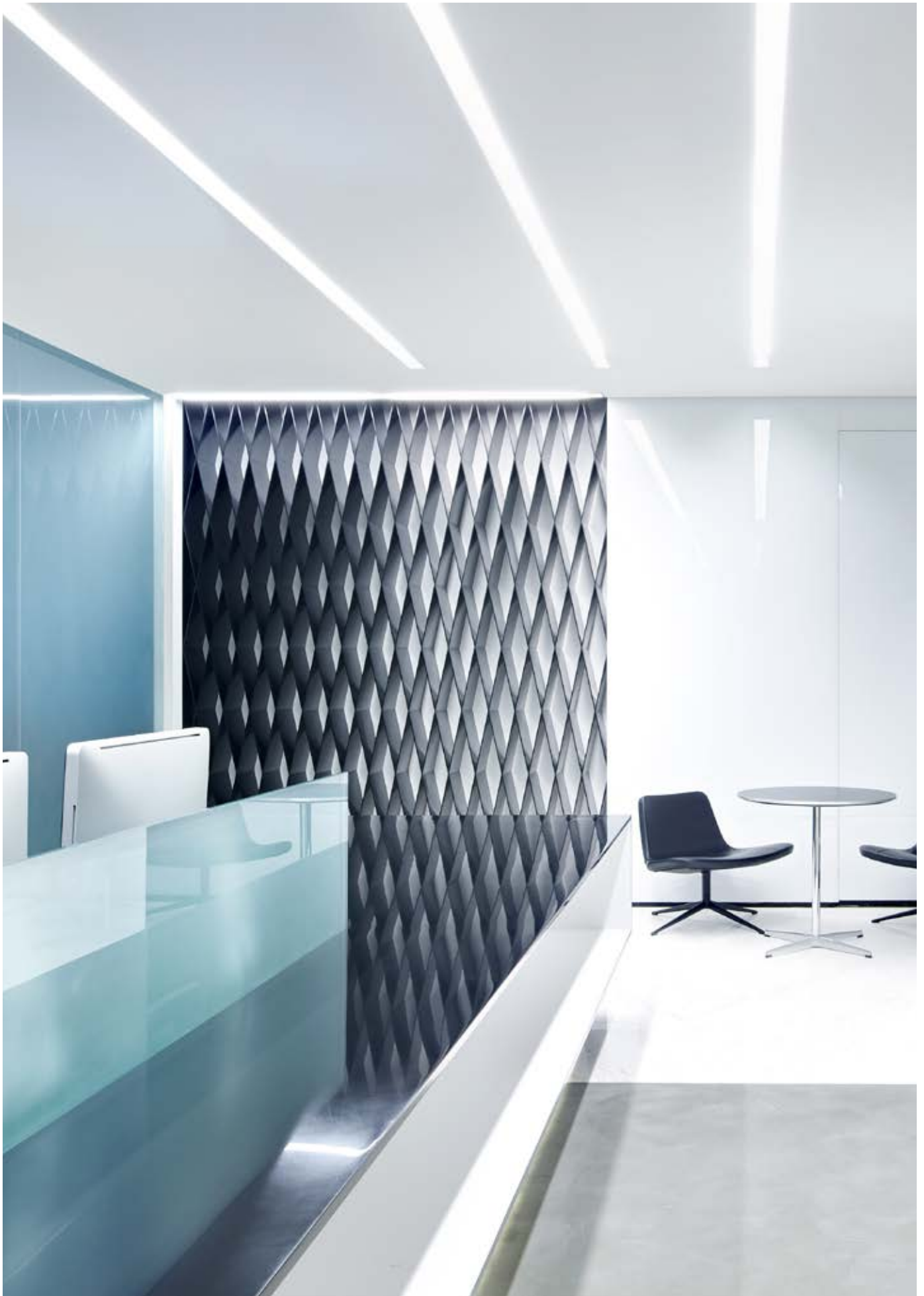
Inspiration

SNS headquarters
Moscow, Russia

ARCHITECT
ABD Architects
Moscow, Russia

PRODUCT
CANYON 60 trimless offset
CANYON 60 trimless offset system





MINIMAL 60

trimless

xal.com/minimal

Quickinfo

GENERAL

recessed
IP 20
opt. concrete installation housing

LED

Mid-power LED
up to 3562lm/m
up to 115lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

MINIMAL 60

system trimless
recessed
[page 494](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-25mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing made of extruded aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Features



skimmed into plasterboard ceiling (trimless)



power switch



tunable white 3000-6000K on request

Standard configuration

COLOUR TEMPERATURE ⚡
3000 K 5

CONTROL ↕
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR
white 7

LIGHT OPTIC COVER ◻
opal high performance H

Extended configuration

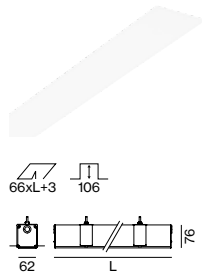
COLOUR TEMPERATURE ⚡
4000 K 6

LIGHT OPTIC COVER ◻
microprismatic Z
microprismatic (UGR < 19)* G
*UGR < 19 only with e LED

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000 K (2 DALI)



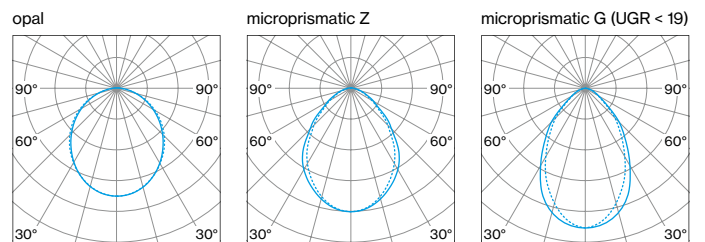
MINIMAL 60 trimless



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K	860 lm	576	0 5 2 - 3 2 P 2 ⚡ ↕ ◻ ◻
	4000K	980 lm		
15W e ²	3000K	1470 lm	876	0 5 2 - 3 2 P 3 ⚡ ↕ ◻ ◻
	4000K	1560 lm		
21W e ²⁺	3000K	1920 lm	1176	0 5 2 - 3 2 P 4 ⚡ ↕ ◻ ◻
	4000K	2040 lm		
13W e	3000K	1290 lm	1476	0 5 2 - 3 2 P 5 ⚡ ↕ ◻ ◻
	4000K	1470 lm		
22W e ²	3000K	2210 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	2350 lm		
31W e ²⁺	3000K	2880 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	3060 lm		
17W e	3000K	1720 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	1950 lm		
29W e ²	3000K	2950 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	3130 lm		
41W e ²⁺	3000K	3830 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	4070 lm		
21W e	3000K	2150 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	2440 lm		
37W e ²	3000K	3680 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	3910 lm		
52W e ²⁺	3000K	4790 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	5090 lm		
34W e	3000K	3430 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	3910 lm		
59W e ²	3000K	5890 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	6260 lm		
82W e ²⁺	3000K	7670 lm	2348	0 5 2 - 3 2 P 8 ⚡ ↕ ◻ ◻
	4000K	8150 lm		

luminous flux opal high performance, -13% by microprismatic Z cover, -15% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	W-H (mm)	ORDER CODE
582	75-88	0 3 6 - 0 4 0 6 6
882	75-88	0 3 6 - 0 4 0 9 6
1182	75-88	0 3 6 - 0 4 1 2 6
1482	75-88	0 3 6 - 0 4 1 5 6
2354	75-88	0 3 6 - 0 4 2 3 6

no use for wall installation (only on request)



Inspiration

Gymnasium Buchloe
Allgäu, Germany

ARCHITECT
LRO Architekten
Stuttgart, Germany

LIGHTING DESIGN
ratec licht
Lindenberg, Germany

PRODUCT
MINIMAL 60 trimless





MINIMAL 100

trimless

xal.com/minimal

Quickinfo

GENERAL

recessed
IP 20
opt. concrete installation housing

LED

Mid-power LED
up to 3990 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

MINIMAL 100

system trimless
recessed
[page 530](#)



Description

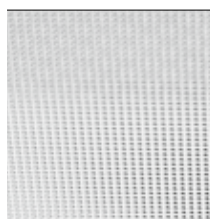
DE Leuchtenkörper aus Aluminiumstrangpressprofil; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e" und "e2"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e2, e2+) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial \leq 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI \geq 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing made of extruded aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25 mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e" and "e2"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e2, e2+) with switchable versions, adjustable on the insert; binning initial \leq 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI \geq 80; min. 90 % of the luminous flux after 50000 hours; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable

Features



skimmed into plasterboard ceiling (trimless)



microprismatic (UGR < 19)



power switch



tunable white 3000-6000 K on request

Standard configuration

COLOUR TEMPERATURE ⚡
3000K 5

CONTROL ↕
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER □
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⚡
4000K 6

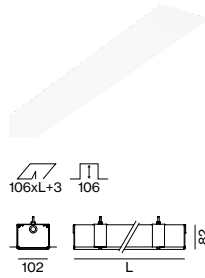
LIGHT OPTIC COVER □
microprismatic Z
microprismatic (UGR < 19)* G

*UGR < 19 only with e/e² LED

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)



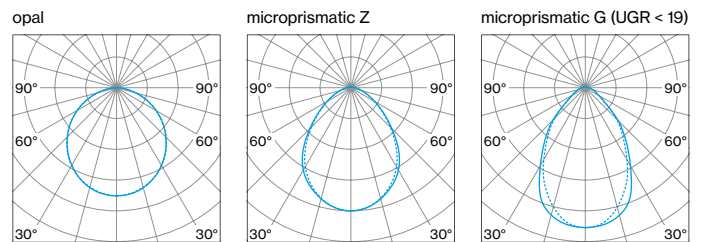
MINIMAL 100 trimless



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K	1030 lm	576	0 5 2 - 3 3 P 2 ⚡ ↕ □ 7 □
	4000K	1090 lm		
15W e ²	3000K	1650 lm	876	0 5 2 - 3 3 P 3 ⚡ ↕ □ 7 □
	4000K	1750 lm		
21W e ²⁺	3000K	2150 lm	1176	0 5 2 - 3 3 P 4 ⚡ ↕ □ 7 □
	4000K	2280 lm		
13W e	3000K	1540 lm	1476	0 5 2 - 3 3 P 5 ⚡ ↕ □ 7 □
	4000K	1640 lm		
22W e ²	3000K	2470 lm	2348	0 5 2 - 3 3 P 8 ⚡ ↕ □ 7 □
	4000K	2630 lm		
31W e ²⁺	3000K	3220 lm		
	4000K	3420 lm		
17W e	3000K	2060 lm		
	4000K	2190 lm		
29W e ²	3000K	3300 lm		
	4000K	3510 lm		
41W e ²⁺	3000K	4300 lm		
	4000K	4560 lm		
21W e	3000K	2570 lm		
	4000K	2730 lm		
37W e ²	3000K	4120 lm		
	4000K	4380 lm		
52W e ²⁺	3000K	5370 lm		
	4000K	5700 lm		
34W e	3000K	4120 lm		
	4000K	4380 lm		
59W e ²	3000K	6600 lm		
	4000K	7010 lm		
82W e ²⁺	3000K	8590 lm		
	4000K	9130 lm		

luminous flux opal high performance, -8% by microprismatic Z cover,
-10% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



Mounting accessories

CONCRETE INSTALLATION HOUSING

L (mm)	W-H (mm)	ORDER CODE
582	116-94	0 3 6 - 0 5 0 6 6
882	116-94	0 3 6 - 0 5 0 9 6
1182	116-94	0 3 6 - 0 5 1 2 6
1482	116-94	0 3 6 - 0 5 1 5 6
2354	116-94	0 3 6 - 0 5 2 3 6

no use for wall installation (only on request)



Inspiration

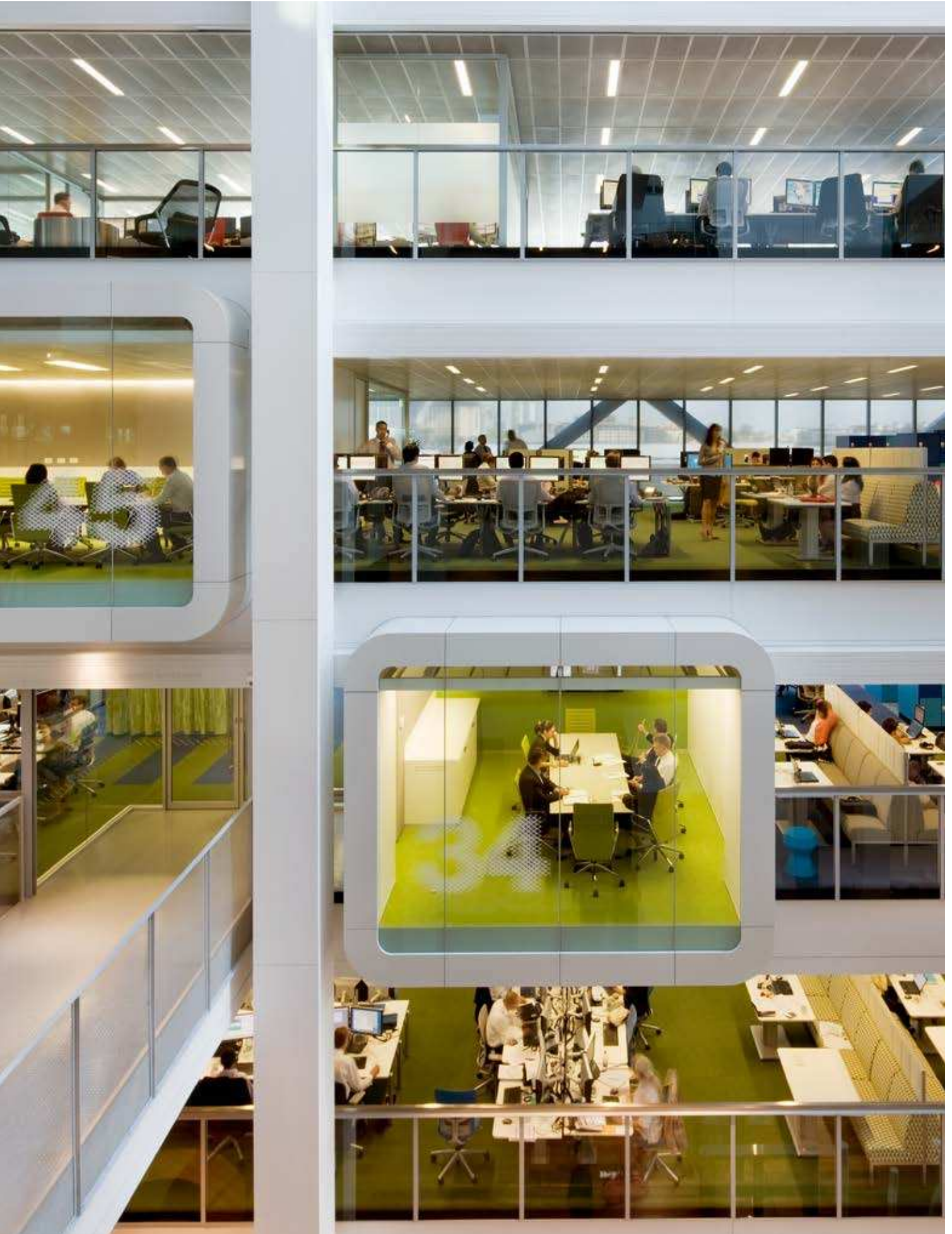
One Shelley Street, Macquarie Group
Sydney, Australia

ARCHITECT
Clive Wilkinson Architects
California, USA

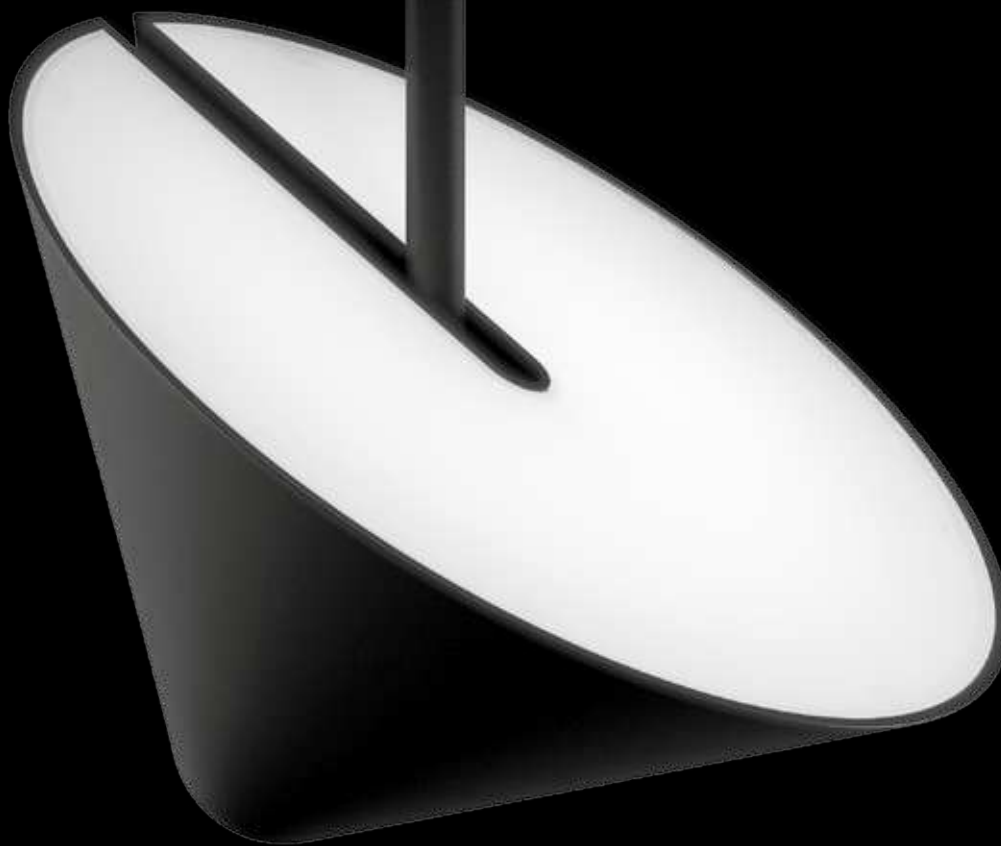
LIGHTING DESIGN
Space Lighting Pty Ltd.
Surry Hills, Australia

PRODUCT
MINIMAL 100 trimless





03



ANBAU- / PENDELSTRAHLER SURFACE MOUNTED AND SUSPENDED SPOTLIGHTS



BO 55 basic / wls
surface /
semi-recessed
→ 240 **new**



KIS
surface /
semi-recessed
→ 244



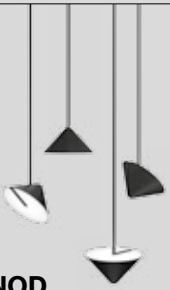
SASSO
ceiling
→ 248



SASSO
suspended
→ 254



KARO
ceiling
→ 258



NOD
suspended
→ 262 **new**



TULA
suspended
→ 266

BO 55 basic / wls surface / semi-recessed

xal.com/bo



Quickinfo

GENERAL

surface mounted
IP20
several mounting options

LED

COB LED module
up to 84 lm/W
2700K, 3000K, 4000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 6°, 14°, 23°, 33°

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated

Description

DE Strahlerelement aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 90° schwenkbar; wahlweise mit Aufbaueinheit oder als Deckeneinbauvariante; Konverter im Strahlerkopf integriert; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700 K, 3000 K und 4000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; wahlweise mit hochwertiger Linsenoptik mit präziser Abstrahlcharakteristik; bzw. hochwertiger Reflektor mit sphärischer Facettenoptik, präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK II

EN Spotlight element in die-cast aluminium; surface powder coated in white or black; spotlight head 355° rotatable and 90° tiltable; either with surface mounted housing or as ceiling recessed variant; converter integrated into spotlight head; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; with optional high-quality lens system with precise radiation characteristic; and high-quality reflector with spherical facet effect design, precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC II

BO 55 basic
track

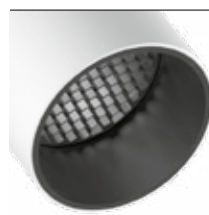
[page 678](#)



Features



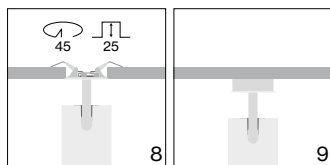
glare-free due to
recessed LED



honeycomb louver as
accessory

Standard configuration

MOUNTING	
semi-recessed	8
surface	9



COLOUR TEMPERATURE	
3000K	5

CONTROL	
non DIM	1

MATERIAL COLOUR	
white	7
black	8



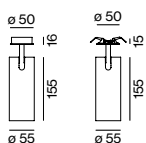
REFLECTOR	
flood 33°	F

Extended configuration

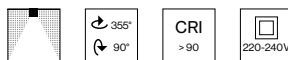
COLOUR TEMPERATURE	
2700K	4
4000K	6

REFLECTOR	
spot 14°	S
medium 23°	M

LED LENS	
super spot 6°	V



BO 55 basic

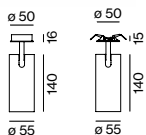


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20 W	2700K	1350lm	0 5 3 - 3 0 0 1 :: 1 ▣ ▲
	3000K	1560lm	
	4000K	1670lm	

luminous flux flood 33°

LIGHT DISTRIBUTION for 3000K

spot 14°			medium 23°			flood 33°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	12907	ø0,25	1	6769	ø0,40	1	3625	ø0,68
2	3227	ø0,51	2	1692	ø0,81	2	906	ø1,37
3	1434	ø0,76	3	752	ø1,21	3	403	ø2,05
4	807	ø1,01	4	423	ø1,61	4	227	ø2,74
5	516	ø1,26	5	271	ø2,02	5	145	ø3,42



BO 55 wls



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700K	620lm	0 5 3 - 3 0 0 0 :: 1 ▣ ▲
	3000K	710lm	
	4000K	710lm	

luminous flux spot 14°

LIGHT DISTRIBUTION for BO 55 basic wls, 3000K

super spot 6°			spot 14°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	22562	ø0,11	1	6667	ø0,25
2	5640	ø0,21	2	1666	ø0,50
3	2506	ø0,32	3	740	ø0,76
4	1410	ø0,43	4	416	ø1,01
5	902	ø0,53	5	266	ø1,26

medium 23°			flood 33°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2905	ø0,40	1	1801	ø0,60
2	726	ø0,80	2	450	ø1,20
3	322	ø1,21	3	200	ø1,80
4	181	ø1,61	4	112	ø2,40
5	116	ø2,01	5	72	ø3,00

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	50-3	0 0 7 - 1 9 6 5 1 9 8

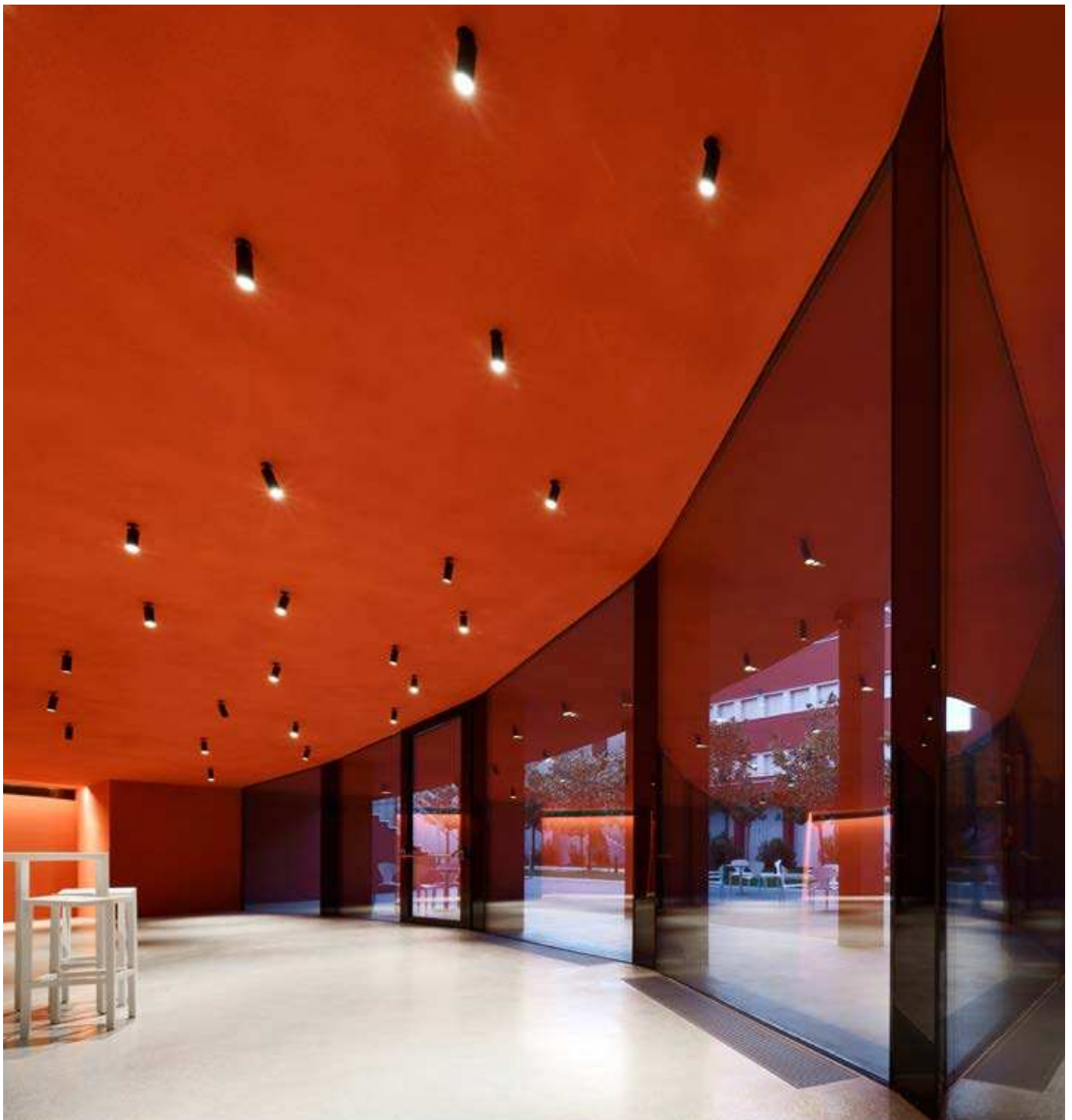
Inspiration

Speisesaal Eurac
Bolzano, Italy

PRODUCT
BO 55 basic semi-recessed

ARCHITECT
Roland Baldi architects
Bolzano, Italy

LIGHTING DESIGN
Eurolicht S.r.l.
Bolzano, Italy





KIS

surface / semi-recessed

xal.com/kis



Quickinfo

GENERAL

surface mounted
IP 40
several mounting options

LED

COB LED module
up to 69lm/W
3000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

beam angle 21°, 36°
lens optics
glare reduction

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Rundes Strahlerelement aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; 360° dreh- und 85° schwenkbar; werkzeuglose Montage im Montageset durch Kugelschnappsystem; Montage wahlweise in Aufbauehäuse oder als Einbau-Variante (mittels Zubehör randlos bzw. mit umlaufendem Rand); passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000 h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP 40; SK II; optional DALI-dimmbar

EN Round spotlight element of die-cast aluminium; surface powder coated in white or black; 355° rotatable and 85° tiltable; installation without tools in mounting set with ball catch system; installation either in surface mounted housing or as recessed variant (through accessories with or without trim); passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality single lens; precise radiation characteristic with two different beam angles; protection class IP 40; PC II; optional DALI dimmable

KIS

track
[page 698](#)



Features



lens optics

Standard configuration

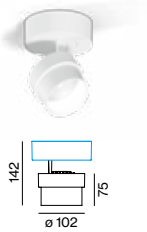
COLOUR TEMPERATURE  5
3000K

CONTROL  3
non DIM

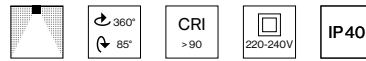
MATERIAL COLOUR  7
white


7

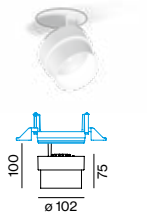
REFLECTOR  F
flood 36°



KIS surface




SYSTEM POWER 16 W
COLOUR TEMP. 3000 K
LUMINOUS FLUX 1080 lm
ORDER CODE 0 4 9 - 1 7 1 2 5 3 



KIS semi-recessed



SYSTEM POWER 16 W
COLOUR TEMP. 3000 K
LUMINOUS FLUX 1080 lm
ORDER CODE 0 4 9 - 1 7 1 2 5 

Extended configuration

CONTROL  2
DIM DALI

MATERIAL COLOUR  8
black

8

+5% surcharges

REFLECTOR  M
medium 21°

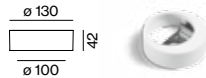
LIGHT DISTRIBUTION for 16 W

medium 21°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	6221	ø 0,36	1	1484	ø 0,65
2	1555	ø 0,73	2	371	ø 1,30
3	691	ø 1,09	3	164	ø 1,95
4	388	ø 1,46	4	92	ø 2,60
5	248	ø 1,82	5	59	ø 3,25

Mounting accessories

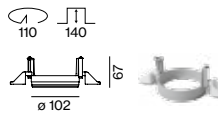
SURFACE HOUSING

TYPE surface housing
ORDER CODE 0 4 9 - 1 1 9 1 1 1 
do not use with DIM DALI (on request)



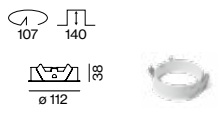
MOUNTING SET TRIMLESS

for installation in plasterboard ceilings
CEILING THICKNESS (mm) 8-25
ORDER CODE 0 5 2 - 1 9 2 1 4 4 7



MOUNTING RING WITH TRIM

for intermediate ceilings
CEILING THICKNESS (mm) 2-25
ORDER CODE 0 5 2 - 1 9 2 2 4 3 



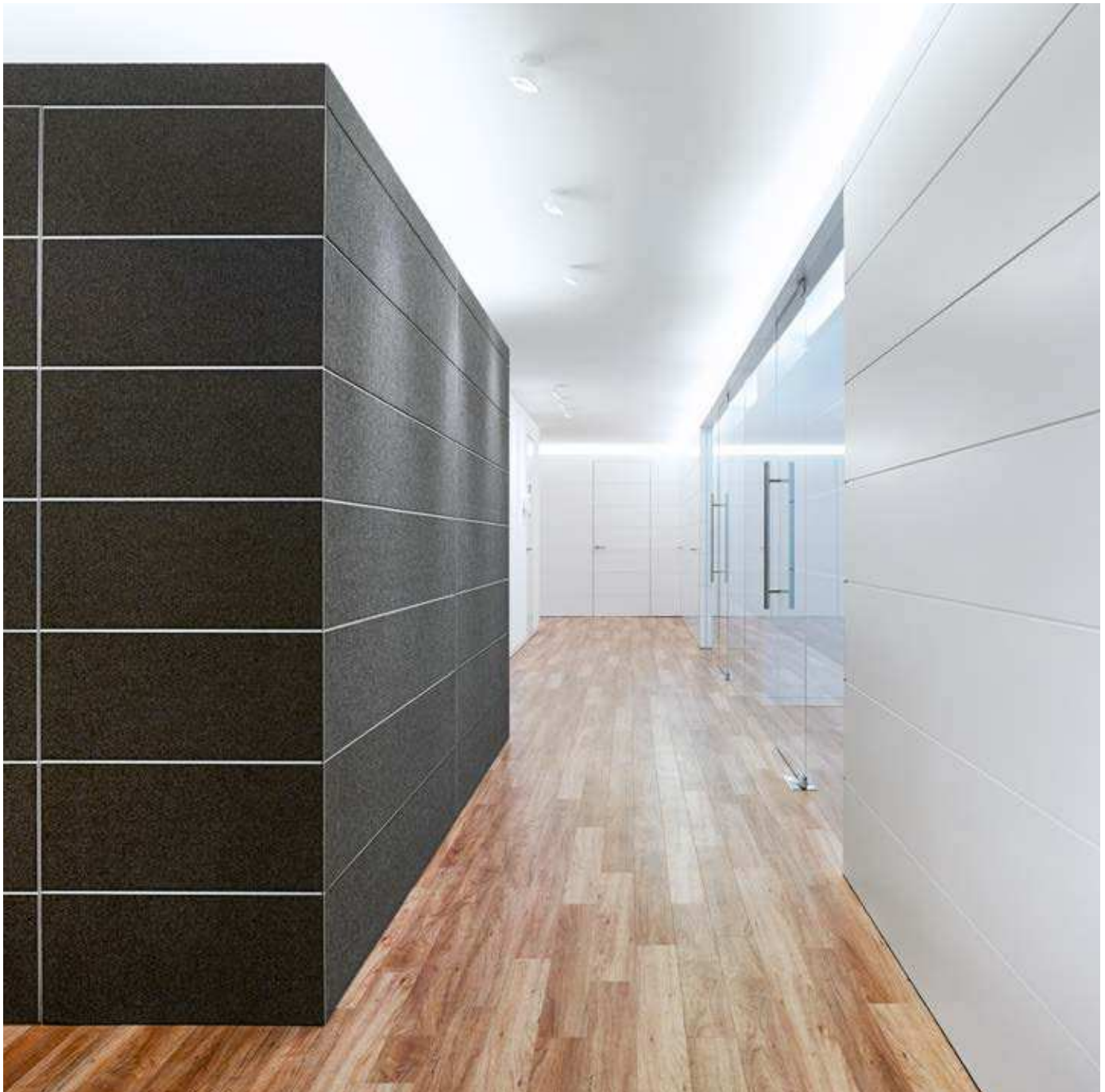
Inspiration

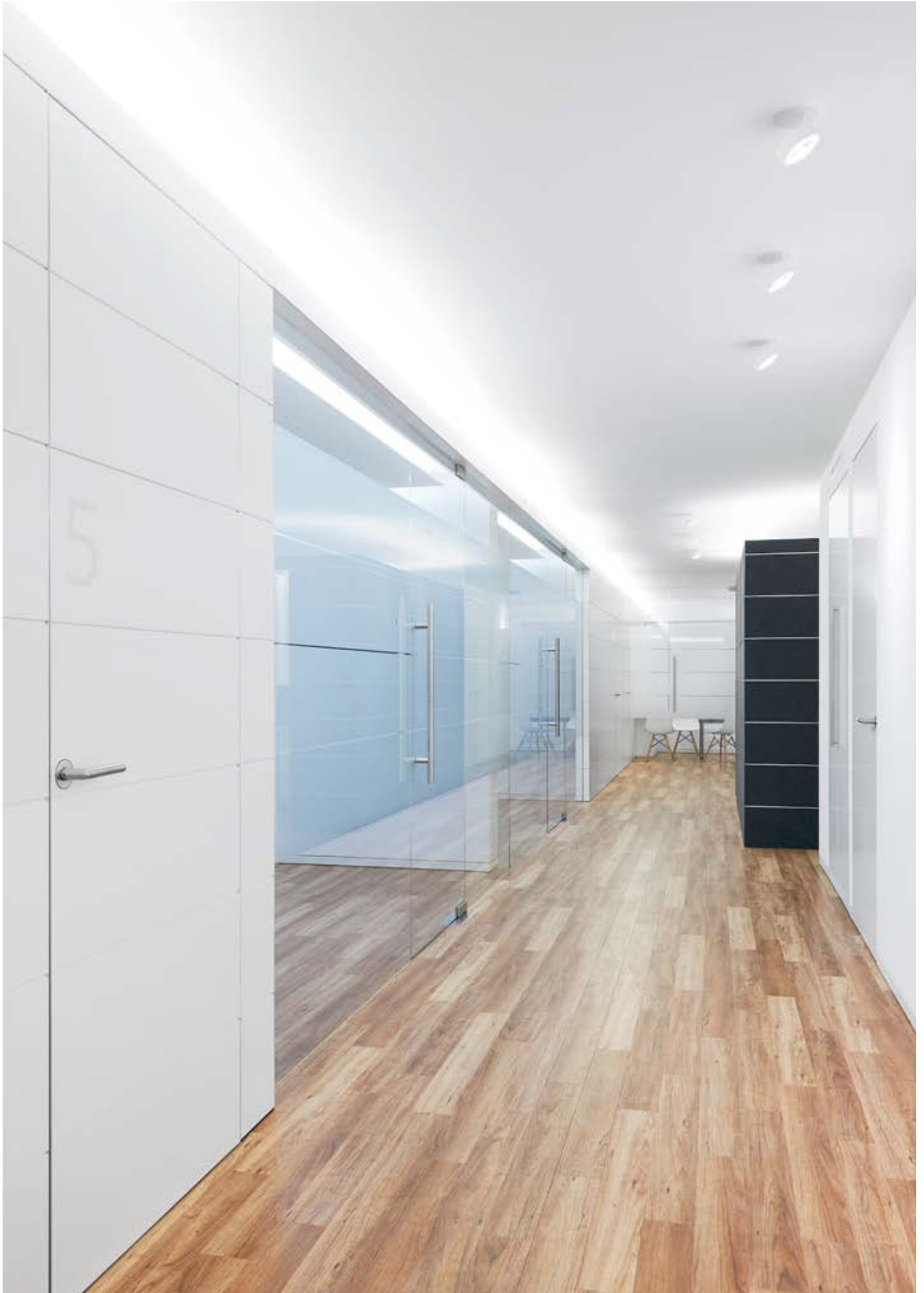
Dentist Dr. Fuchs
Ingolstadt, Germany

PRODUCT
KIS semi-recessed
customised

ARCHITECT
Göke Praxiskonzepte
Düsseldorf, Germany

LIGHTING DESIGN
Göke Praxiskonzepte
Düsseldorf, Germany





SASSO

ceiling

xal.com/sasso



Quickinfo

GENERAL

ceiling mounted

IP20

light engine exchangeable

LED

COB LED module

up to 101lm/W

2700K, 3000K, 4000K

CRI ≥ 90

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

beam angle 18°, 24°, 36° (100)

beam angle 14°, 25°, 41° (150)

optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

Description

DE Zylindrischer Aufbaustrahler aus Aluminium in 2 verschiedenen Durchmessern; werkzeuglose Montage im Gehäuse durch Kugelschnappsystem; 360° dreh- und 15° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; optional DALI-dimmbar

EN Cylindrical surface mounted spotlight in aluminium in 2 different diameters; installation without tools in housing with ball catch system; 360° rotatable and 15° tiltable; surface powder coated in white or black; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; optional DALI dimmable

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
non DIM 1

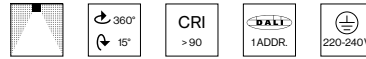
MATERIAL COLOUR 
white 7




7

REFLECTOR SASSO 100 / 150 
flood 36° / 41° F



SASSO 100 ceiling




SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700K 3000K	1170lm 1210lm	0 4 8 - 2 4 4 0   

LIGHT DISTRIBUTION for 3000K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	7824	ø 0,31	1	5067	ø 0,42	1	2970	ø 0,65
2	1956	ø 0,62	2	1266	ø 0,84	2	742	ø 1,31
3	869	ø 0,93	3	563	ø 1,27	3	330	ø 1,96
4	489	ø 1,24	4	316	ø 1,69	4	185	ø 2,61
5	312	ø 1,55	5	202	ø 2,11	5	118	ø 3,27

Extended configuration


COLOUR TEMPERATURE 
2700K 4
4000K 6

CONTROL 
DIM DALI 3

MATERIAL COLOUR 
black 8

8





+5% surcharges

REFLECTOR SASSO 100 / 150 
spot 18° / 14° S
medium 24° / 25° M



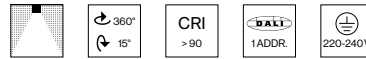
Optical accessories




SASSO 100

TYPE	ø-H (mm)	ORDER CODE
honeycomb	74-11	0 4 8 - 2 1 9 1 3 1 
linear prismatic lens	74-11	0 4 8 - 2 1 9 2 3 1 
snoot	74-25	0 4 8 - 2 1 9 1 1 1 
snoot + honeycomb	74-25	0 4 8 - 2 1 9 1 2 1 

use only 1 optical accessory

SASSO 150 ceiling



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000K 4000K	2640lm 2830lm	0 4 8 - 2 5 4 0   

LIGHT DISTRIBUTION for 3000K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23559	ø 0,24	1	10710	ø 0,44	1	4724	ø 0,74
2	5889	ø 0,48	2	2677	ø 0,87	2	1181	ø 1,48
3	2617	ø 0,73	3	1190	ø 1,31	3	524	ø 2,22
4	1472	ø 0,97	4	669	ø 1,74	4	295	ø 2,96
5	942	ø 1,21	5	428	ø 2,18	5	188	ø 3,70





Options on request

INDIVIDUAL MATERIAL COLOUR
please contact factory



Optical accessories

SASSO 150

TYPE	ø-H (mm)	ORDER CODE
honeycomb	119-11	0 4 8 - 2 2 9 1 3 1 
linear prismatic lens	119-11	0 4 8 - 2 2 9 2 3 1 
snoot	119-25	0 4 8 - 2 2 9 1 1 1 
snoot + honeycomb	119-25	0 4 8 - 2 2 9 1 2 1 

use only 1 optical accessory



Inspiration

Kinderkunsthhaus
Munich, Germany

PRODUCT
SASSO 100 ceiling

ARCHITECT
ateliersv
Munich, Germany

LIGHTING DESIGN
ateliersv
Munich, Germany





Inspiration

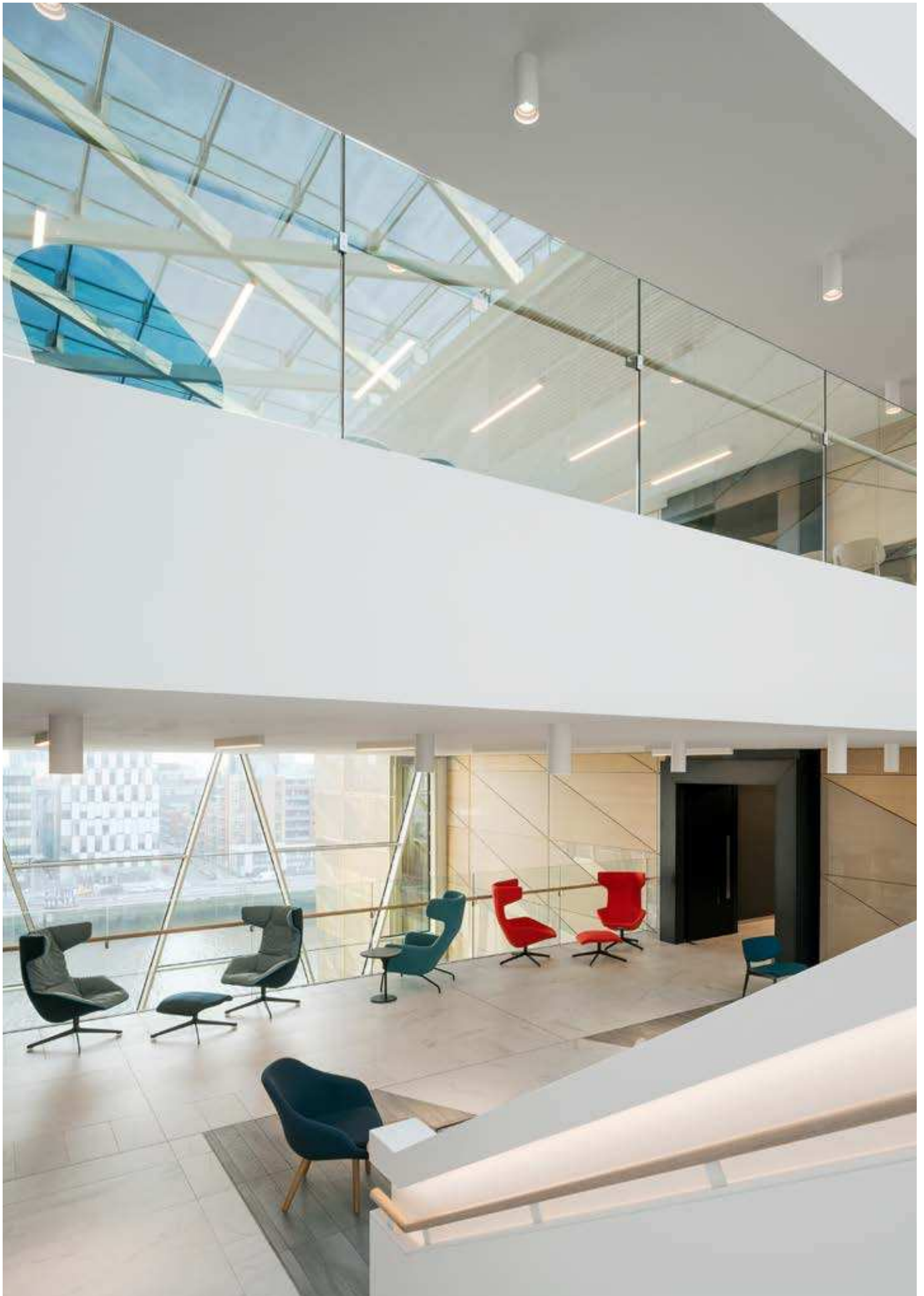
Bank of Ireland
Dublin, Ireland

PRODUCT
SASSO 100 ceiling

ARCHITECT
Henry J Lyons Architects
Dublin, Ireland

LIGHTING DESIGN
O'Connor Sutton Cronin
Dublin, Ireland





SASSO

suspended

xal.com/sasso



Quickinfo

GENERAL

suspended
IP20
light engine exchangeable

LED

COB LED module
up to 101lm/W
2700K, 3000K, 4000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

beam angle 18°, 24°, 36° (100)
beam angle 14°, 25°, 41° (150)
optical accessories

ELECTRICAL

non DIM, DIM DALI
transparent power cable

PHYSICAL

aluminium
powder-coated

Description

DE Zylindrischer Strahler aus Aluminium in 2 verschiedenen Durchmessern; Pendelleuchte mit 1500 mm Seilabhängung; 5x0,75 mm²; 360° dreh- und 15° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; optional DALI-dimmbar

EN Cylindrical spotlight in aluminium in 2 different diameters; Suspended luminaire with 1500 mm cable suspension; 5x0,75 mm²; 360° rotatable and 15° tiltable; surface powder coated in white or black; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; optional DALI dimmable

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
non DIM 1

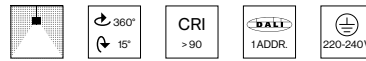
MATERIAL COLOUR 
white 7






REFLECTOR SASSO 100 / 150 
flood 36° / 41° F



SASSO 100 suspended




SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700K 3000K	1170lm 1210lm	0 4 8 - 2 4 5 0   

LIGHT DISTRIBUTION for 3000K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	7824	ø 0,31	1	5067	ø 0,42	1	2970	ø 0,65
2	1956	ø 0,62	2	1266	ø 0,84	2	742	ø 1,31
3	869	ø 0,93	3	563	ø 1,27	3	330	ø 1,96
4	489	ø 1,24	4	316	ø 1,69	4	185	ø 2,61
5	312	ø 1,55	5	202	ø 2,11	5	118	ø 3,27

Extended configuration

COLOUR TEMPERATURE 
2700K 4
4000K 6

CONTROL 
DIM DALI 3

MATERIAL COLOUR 
black 8











+5% surcharges

REFLECTOR SASSO 100 / 150 
spot 18° / 14° S
medium 24° / 25° M



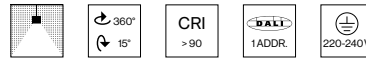
Optical accessories




SASSO 100

TYPE	ø-H (mm)	ORDER CODE
honeycomb	74-11	0 4 8 - 2 1 9 1 3 1  
linear prismatic lens	74-11	0 4 8 - 2 1 9 2 3 1  
snoot	74-25	0 4 8 - 2 1 9 1 1 1  
snoot + honeycomb	74-25	0 4 8 - 2 1 9 1 2 1  

use only 1 optical accessory

SASSO 150 suspended



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000K 4000K	2640lm 2830lm	0 4 8 - 2 5 5 0   

LIGHT DISTRIBUTION for 3000K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	23559	ø 0,24	1	10710	ø 0,44	1	4724	ø 0,74
2	5889	ø 0,48	2	2677	ø 0,87	2	1181	ø 1,48
3	2617	ø 0,73	3	1190	ø 1,31	3	524	ø 2,22
4	1472	ø 0,97	4	669	ø 1,74	4	295	ø 2,96
5	942	ø 1,21	5	428	ø 2,18	5	188	ø 3,70









Options on request

INDIVIDUAL MATERIAL COLOUR
please contact factory



Optical accessories

SASSO 150

TYPE	ø-H (mm)	ORDER CODE
honeycomb	119-11	0 4 8 - 2 2 9 1 3 1  
linear prismatic lens	119-11	0 4 8 - 2 2 9 2 3 1  
snoot	119-25	0 4 8 - 2 2 9 1 1 1  
snoot + honeycomb	119-25	0 4 8 - 2 2 9 1 2 1  

use only 1 optical accessory

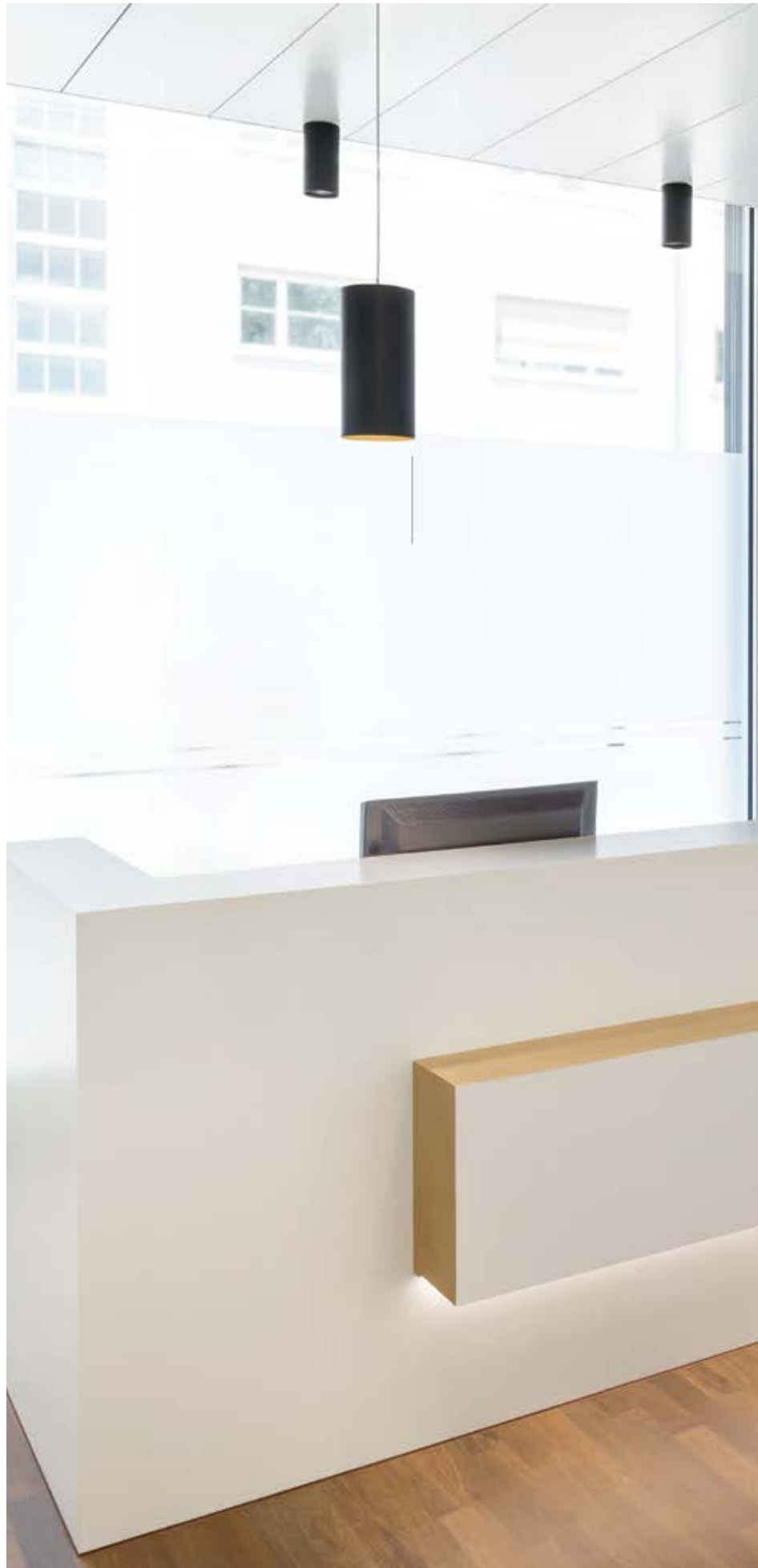


Inspiration

Hirslanden Ortho Clinic
Zurich, Switzerland

ARCHITECT
Itten+Brechbühl AG
Basel, Switzerland

PRODUCT
SASSO 100 surface
SASSO 100 suspended

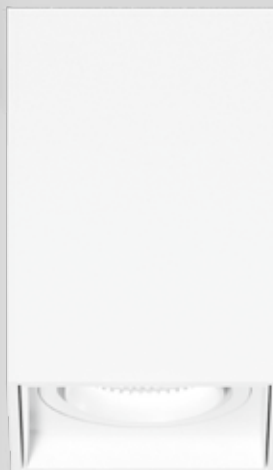




KARO

ceiling

xal.com/karo



Quickinfo

GENERAL

ceiling mounted
IP20
light engine exchangeable

LED

COB LED module
up to 93lm/W
2700K, 3000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

beam angle 18°, 24°, 36°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Kubischer Aufbaustrahler aus Aluminium; 360° dreh- und 15° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; optional DALI-dimmbar

EN Cubic surface mounted spotlight made of aluminium; 360° rotatable and 15° tiltable; surface powder coated in white or black; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K and 3000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; optional DALI dimmable

Standard configuration

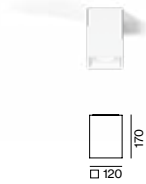
COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆️
non DIM 1

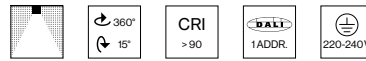
MATERIAL COLOUR ☑️
white 7



REFLECTOR ▲
flood 36° F



KARO ceiling



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	2700K 3000K	1170lm 1210lm	0 4 8 - 4 4 3 0 ⋮ ⬆️ ▲

LIGHT DISTRIBUTION for 3000K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	7637	ø 0,31	1	4945	ø 0,42	1	2899	ø 0,65
2	1909	ø 0,62	2	1236	ø 0,84	2	724	ø 1,31
3	848	ø 0,93	3	549	ø 1,27	3	322	ø 1,96
4	477	ø 1,24	4	309	ø 1,69	4	181	ø 2,61
5	305	ø 1,55	5	197	ø 2,11	5	115	ø 3,27

Extended configuration

COLOUR TEMPERATURE ⋮
2700K 4

CONTROL ⬆️
DIM DALI 3

MATERIAL COLOUR ☑️
grey G
black 8



+5% surcharges

REFLECTOR ▲
spot 18° S
medium 24° M



Optical accessories

HONEYCOMB, LENS AND SNOOT

TYPE	øH (mm)	ORDER CODE
honeycomb	74-11	0 4 8 - 2 1 9 1 3 1 ☑️
linear prismatic lens	74-11	0 4 8 - 2 1 9 2 3 1 ☑️
snoot	74-25	0 4 8 - 2 1 9 1 1 1 ☑️
snoot + honeycomb	74-25	0 4 8 - 2 1 9 1 2 1 ☑️

use only 1 optical accessory

Options on request

INDIVIDUAL MATERIAL COLOUR
please contact factory

Inspiration

Ryser Optical Store
St. Gallen, Switzerland

PRODUCT
KARO ceiling

ARCHITECT
Heikaus, shopfitting
Mundelsheim, Germany

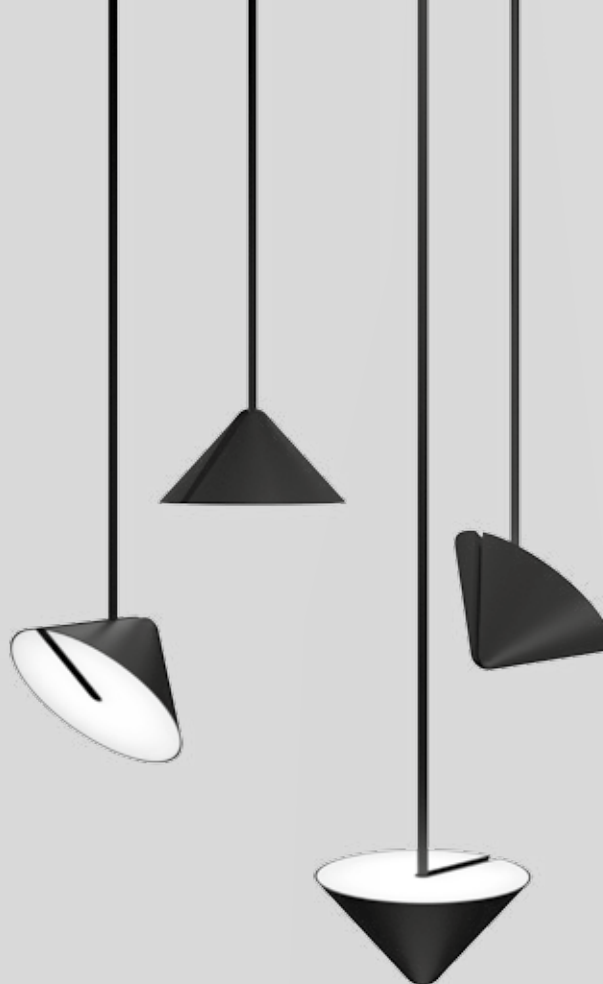




NOD

suspended

xal.com/nod



Quickinfo

GENERAL

suspended (rod)
IP20

LED

Mid-power LED
up to 95lm/W
2700K, 3000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct light 100%
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

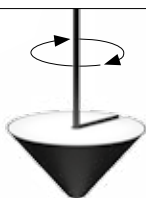
soft touch coated surface
330° turnable, 180° tiltable

Description

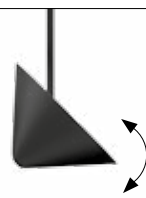
DE Kegelförmiger Leuchtenkörper aus Kunststoff; Leuchtenkörper 330° dreh- und 180° schwenkbar gelagert; elegante Hängeleuchte mit schwarzer Soft-Touch-Oberfläche; mit kürzbarer Pendelrohrabhangung, wahlweise 1500 mm oder 2500 mm, Einspeiseleitung in Pendelrohr; optional mit Pendelrohrabhangung 1500 mm und 3 Phasen Adapter fur werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschienen; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700 K und 3000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; inkl. Konverter, nicht dimmbar

EN Cone-shaped luminaire housing made of plastic; luminaire housing 330° rotatable and 180° tiltable pivot-mounted; elegant suspended luminaire with black soft-touch surface; with adjustable pendant rod mounting, either 1500 mm or 2500 mm, feed in rod; optionally with pendant rod mounting 1500 mm and 3 phase adapter for toolless installation or movement on various 3 phase power tracks; completely homogeneously illuminated, satinised PMMA cover; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700 K and 3000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; protection class IP20; PC I; incl. converter, non dimmable

Features



330° rotatable




180° tiltable



available with
3-phase adapter

Standard configuration

SUSPENSION  5
rod 1500 mm


COLOUR TEMPERATURE  4
2700 K
3000 K 5

CONTROL
non DIM 1

MATERIAL COLOUR
black 8



Extended configuration

SUSPENSION  6
rod 2500 mm
3-phase adapter 1500 mm 2

Options on request

CONTROL
phase-cut DIM

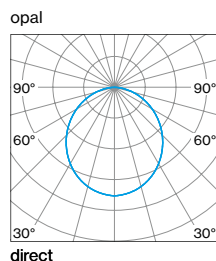


NOD suspended



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10W	2700K	890lm	0 7 2 - 6  2 2  1 8 0
	3000K	960lm	

LIGHT DISTRIBUTION



Inspiration

Kastner & Öhler
Graz, Austria

PRODUCT
NOD suspended

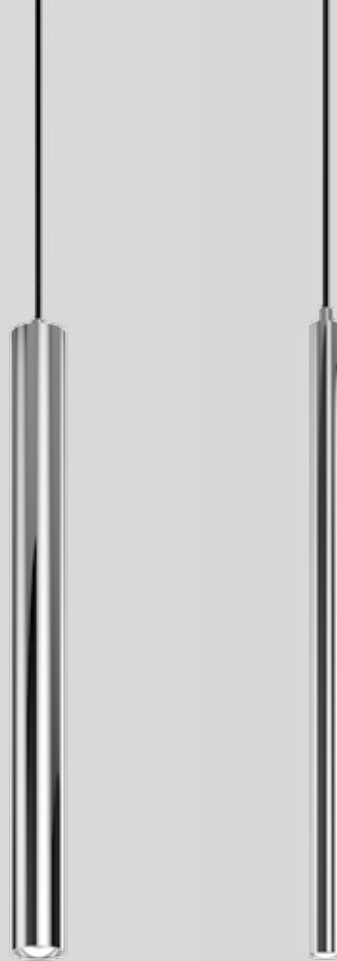




TULA

suspended

xal.com/tula



Quickinfo

GENERAL

suspended
IP20
several mounting options

LED

High-power LED/COB LED module
up to 62lm/W
2700K
CRI ≥ 80

ESTIMATED LED LIFETIME

L70 / 50000h (TULA NANO)
L80 / 50000h (TULA MICRO)

OPTICAL

direct illumination
beam angle 28°, 33°
lens optics

ELECTRICAL

non DIM

PHYSICAL

aluminium
chrome
powder-coated

Description

DE Dekorative Pendelleuchte aus Aluminium; Oberfläche chrom poliert, schwarz oder grau pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 2700 K; CRI ≥ 80; min. 70% bzw. 80% (TULA MICRO) des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK III; Konverter im Baldachin enthalten, wahlweise als Einbau- oder Aufbauvariante

EN Decorative suspended luminaire in aluminium; surface polished chrome, black or grey powder coated; Suspended luminaire with 1500 mm cable suspension; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 2700 K; CRI ≥ 80; min. 70% or 80% (TULA MICRO) of the luminous flux after 50000 hours; protection class IP20; PC III; converter included in canopy, either recessed or surface mounted version

Features



decorative gold lamp
ring for TULA MICRO

Standard configuration

COLOUR TEMPERATURE

2700 K 4

CONTROL

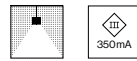
non DIM 1

MATERIAL COLOUR

chrome 4
grey 6
black 8



TULA NANO suspended



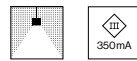
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700 K	320 lm	0 5 3 - 5 2 2 0 4 1 <input checked="" type="checkbox"/> M

LIGHT DISTRIBUTION

medium 28°

h (m)	E (lx)	ø (m)
1	1040	ø 0,50
2	260	ø 1,00
3	116	ø 1,50
4	65	ø 1,99
5	42	ø 2,49

TULA MICRO suspended



TYPE	COLOUR TEMP.	LUM. FLUX	H (mm)	ORDER CODE
6 W	2700 K	280 lm	330	0 5 3 - 5 3 2 1 4 1 <input checked="" type="checkbox"/> M
6 W	2700 K	280 lm	530	0 5 3 - 5 5 2 1 4 1 <input checked="" type="checkbox"/> M

LIGHT DISTRIBUTION

medium 33°

h (m)	E (lx)	ø (m)
1	768	ø 0,59
2	192	ø 1,18
3	85	ø 1,78
4	48	ø 2,37
5	31	ø 2,96



Order options

MATERIAL COLOUR CANOPY

chrome 4
white 7
black 8



Mounting accessories

RECESSED CANOPY

TYPE	ø-H (mm)	ORDER CODE
1 spotlight	84-20	0 5 3 - 5 1 2 0 0 1 <input checked="" type="checkbox"/>



CEILING CANOPY

TYPE	ø-H (mm)	ORDER CODE
1 spotlight	84-45	0 5 3 - 5 1 1 0 0 1 <input checked="" type="checkbox"/>



Optical accessories

LAMP RING FOR TULA MICRO

COLOUR	ø-H (mm)	ORDER CODE
gold	43-26	0 5 3 - 5 1 4 0 0 9

Inspiration

Kucera legal practice
Darmstadt, Germany

PRODUCT
TULA MICRO suspended

ARCHITECT
ruby³ architekten BDA
Darmstadt, Germany













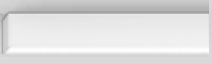
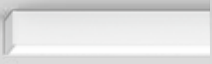
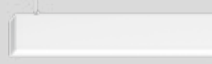
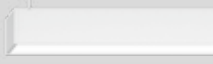
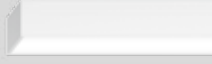
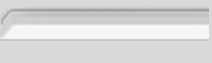

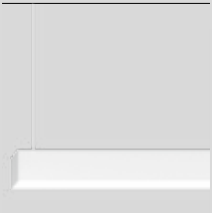
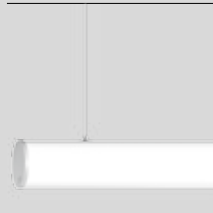

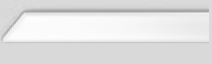










04



ANBAU- / PENDELLEUCHTEN SURFACE MOUNTED AND SUSPENDED LUMINAIRES

					
TASK round surface → 272 new	TASK round suspended → 276 new	SONO surface → 280	SONO suspended → 282	VELA EVO surface / ceiling → 286 new	VELA EVO suspended → 296 new
					
CIRO surface → 306	CIRO suspended → 310	HELIOS suspended → 314	SONIC suspended → 318	MINO 60 CIRCLE ceiling → 324	MINO 60 CIRCLE suspended → 326
					
BASO 40 surface → 334 new	MINO 60 surface → 338	MINO 100 surface → 342	BASO 40 suspended → 346 new	MINO 60 suspended → 350	MINO 100 suspended → 354
					
LENO surface → 358 new	LENO suspended → 362 new	LITO 60 suspended → 366	TUBO 100 surface → 370	TUBO 100 suspended → 374	TASK S suspended → 378 new
					
TASK surface → 382	TASK suspended → 386	TASK square surface → 392 new	TASK square suspended → 396 new	TASK circle suspended → 400 new	TASK angular suspended → 404 new
					
FLOW EVO surface → 406 new	FLOW EVO suspended → 410 new	HEX-O surface → 414	HEX-O suspended → 420	GEAR 3 suspended → 426	

TASK

round surface

xal.com/task



Quickinfo

GENERAL

ceiling mounted

IP 40

quick installation

LED

Mid-power LED

up to 133lm/W

3000K, 4000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct illumination

microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO

PHYSICAL

aluminium

powder-coated

halogen-free cable

Description

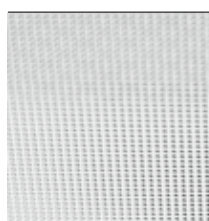
DE Runder Leuchtenkörper aus Aluminium; extrem flache Bauform (nur 15 mm); moderne Formensprache im edlen Design für höchste Ansprüche; Oberfläche weiß oder schwarz pulverbeschichtet; komfortables, werkzeugloses Schnellmontagesystem; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; mikroprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP40; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Round luminaire housing in aluminium; ultra low-profile design (only 15 mm); modern shape in an elegant design for high demands; surface powder coated in white or black; convenient quick mounting system without tools; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; microprismatic PMMA cover, completely homogeneous illumination using a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP40; PC I; DALI dimmable with CLO function; optional non-dimmable

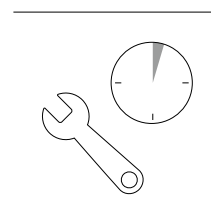
Features



flat design (15 mm)



microprismatic
(UGR < 19)



quick installation

Standard configuration

COLOUR TEMPERATURE ◆◆
4000K 6

CONTROL ◆◆
DIM DALI / CLO 3

MATERIAL COLOUR ■
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆◆
non DIM 1

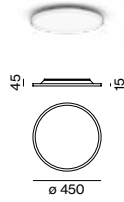
MATERIAL COLOUR ■
black 8



+5% surcharges

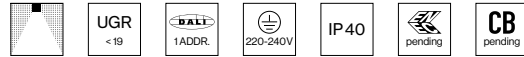
Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

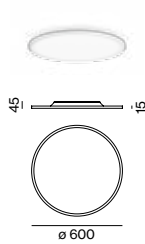


TASK 450 round surface

DIRECT

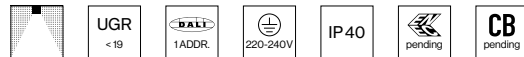


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W e	3000K	2070lm	0 5 9 - 0 1 4 1 ◆◆ ■ P
	4000K	2200lm	
24W e ²	3000K	2550lm	0 5 9 - 0 1 5 1 ◆◆ ■ P
	4000K	2715lm	



TASK 600 round surface

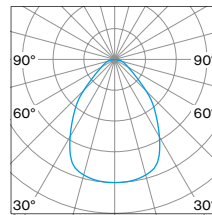
DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30W e	3000K	3760lm	0 5 9 - 0 1 4 2 ◆◆ ■ P
	4000K	4000lm	
42W e ²	3000K	4400lm	0 5 9 - 0 1 5 2 ◆◆ ■ P
	4000K	4680lm	

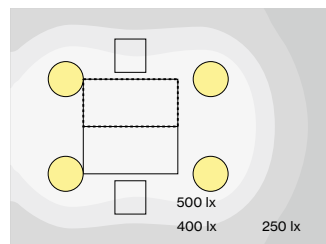
LIGHT DISTRIBUTION

microprismatic



direct

Technical data



TASK ROUND 600 surface,
42W, 4000K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8m
Surface height	0.75m
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	



Inspiration

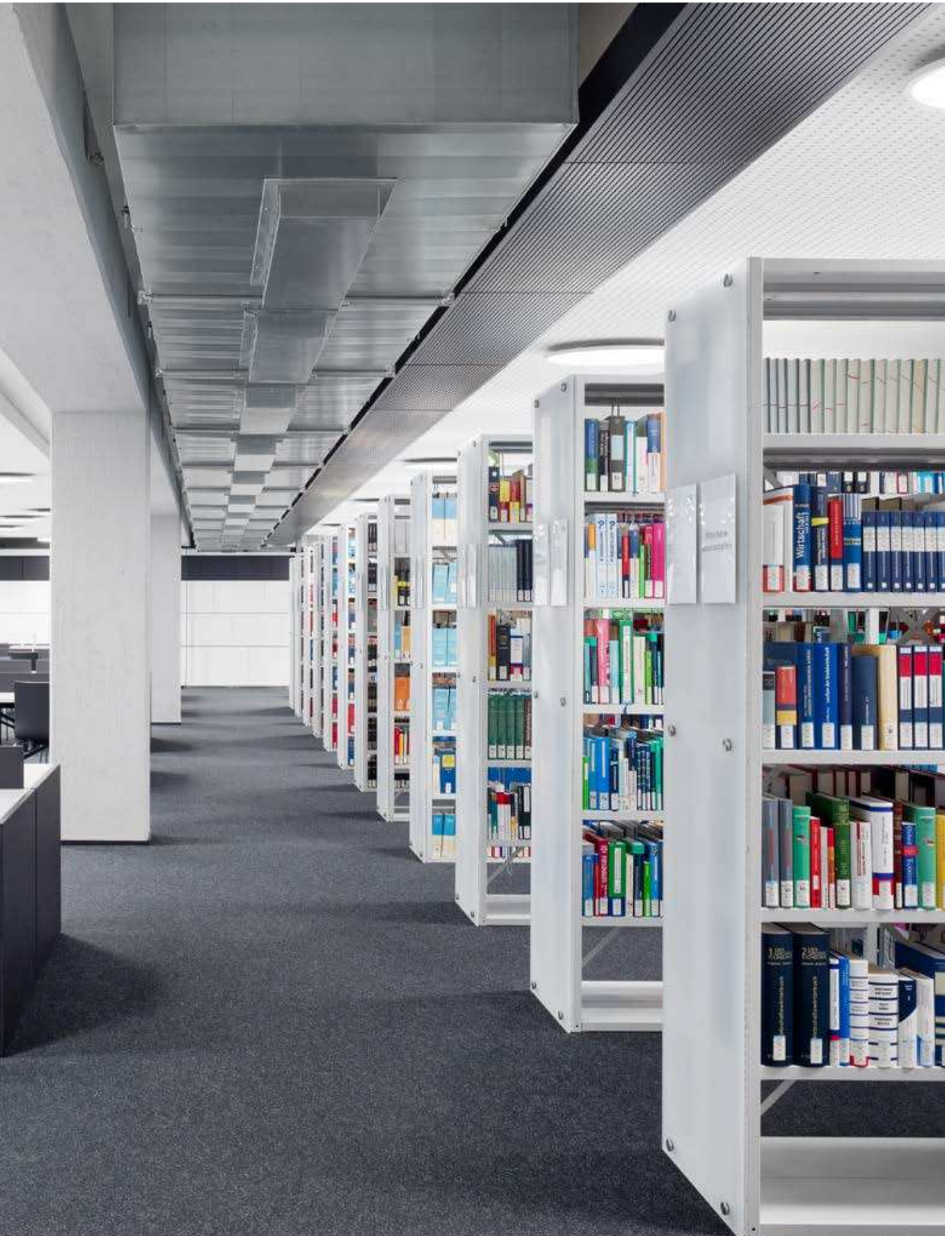
Triplex Universitätsbibliothek und Ausleihe
Heidelberg, Germany

ARCHITECT
ap88 Architekten Partnerschaft mbB
Heidelberg, Germany

LIGHTING DESIGN
LDE BELZNER HOLMES
Stuttgart, Germany

PRODUCT
TASK round surface





TASK

round suspended

xal.com/task



Quickinfo

GENERAL

suspended
IP 40

LED

Mid-power LED
up to 133lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct, direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

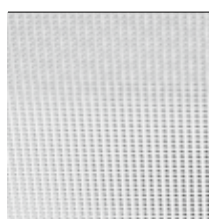
DE Runder Leuchtenkörper aus Aluminium; extrem flache Bauform (nur 15 mm); Oberfläche weiß oder schwarz pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendelrohrabhängung (chrom), Einspeiseleitung in Pendelrohr; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; optional: Indirektlichtanteil mit eigenen Platinen für erhöhten Lichtstrom und maximale Deckenaufhellung; mikroprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP 40; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Round luminaire housing in aluminium; ultra low-profile design (only 15 mm); surface powder coated in white or black; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; microprismatic PMMA cover, completely homogeneous illumination using a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP 40; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



flat design (15 mm)




microprismatic
(UGR < 19)

Standard configuration

SUSPENSION 
rod 1000mm 4

COLOUR TEMPERATURE 
4000K 6

CONTROL 
DIM DALI / CLO 3

MATERIAL COLOUR 
white 7

7

LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

SUSPENSION 
cable 1500mm 2

COLOUR TEMPERATURE 
3000K 5

CONTROL 
non DIM 1

MATERIAL COLOUR 
black 8

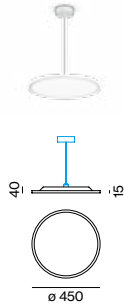
8

+5% surcharges

Options on request

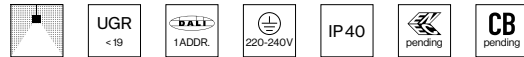
COLOUR RENDERING INDEX
CRI ≥ 90

SUSPENSION
rod 2000mm



TASK 450 round suspended





DIRECT

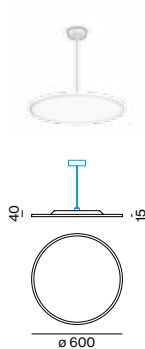


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W e	3000K	2070lm	0 5 9 - 0 4 1     P
	4000K	2200lm	

DIRECT / INDIRECT POWER







SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
40W e ²	3000K	↓ 3160 / ↑ 1690lm	0 5 9 - 0 6 1     P
	4000K	↓ 3325 / ↑ 1780lm	



TASK 600 round suspended





DIRECT



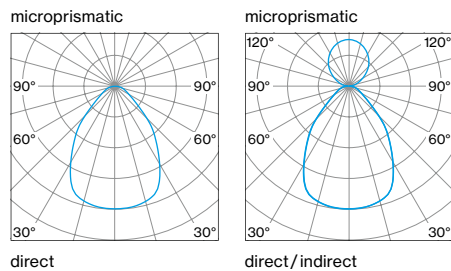
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30W e	3000K	3760lm	0 5 9 - 0 4 2     P
	4000K	4000lm	

DIRECT / INDIRECT POWER

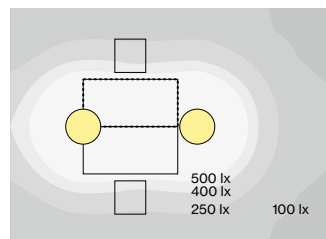


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
51W e ²	3000K	↓ 4160 / ↑ 2225lm	0 5 9 - 0 6 2     P
	4000K	↓ 4380 / ↑ 2345lm	

LIGHT DISTRIBUTION



Technical data

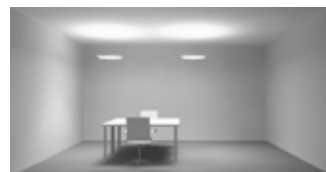


TASK ROUND 600 suspended
51W, 4000K, direct/indirect power

ROOM VALUES
Room dimensions 5.4 × 4 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8
Mounting height 2.25 m

CALCULATION SURFACE
Surface dimensions 1.6 × 0.8 m
Surface height 0.75 m
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²



Inspiration

Creative Lab
Barcelona, Spain

PRODUCT
TASK round suspended





SONO

surface

xal.com/sono



Quickinfo

GENERAL

surface mounted
IP50, IP40

LED

Mid-power LED
up to 138lm/W
3000K, 4000K,
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency light 1h / 3h

PHYSICAL

aluminium
powder-coated
halogen-free cable
shock resistance IK07

SONO

IP54 surface
[page 748](#)

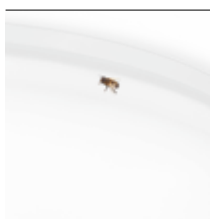


Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss; Oberfläche weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP40 (direct/indirect) bzw. IP50 (DIRECT); SK I; Schlagfestigkeit IK07; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in die-cast aluminium; surface white powder coated; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP40 (direct/indirect) or IP50 (direct); PC I; shock resistance IK07; DALI dimmable with CLO function; optional non-dimmable; optional with LED emergency light with 1h or 3h battery and self test

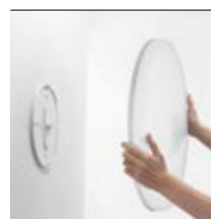
Features



IP50 (dust and insect protection)



shock resistance IK07



easy mounting by click-mechanism



tunable white 3000–6000K on request

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal 0

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

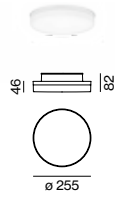
CONTROL ⬆
non DIM 1

EMERGENCY LIGHT ●
1h accupack N L 1
3h accupack N L 3

Options on request

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

CONTROL
RCS Master (☉)
RCS Slave (☉)

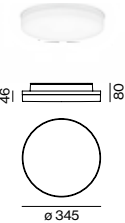


SONO 260 surface

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W	3000K	930lm	071-9126 ⋮ 70
	4000K	990lm	



SONO 350 surface

DIRECT

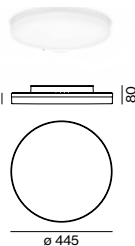


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W	3000K	2050lm	071-9136 ⋮ 70
	4000K	2200lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23W	3000K	↓ 2050 / ↑ 800lm	071-9138 ⋮ 70
	4000K	↓ 2200 / ↑ 820lm	



SONO 450 surface

DIRECT

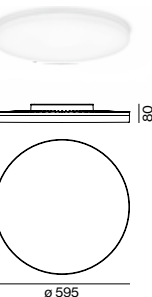


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W	3000K	3030lm	071-9146 ⋮ 70
	4000K	3220lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
35W	3000K	↓ 3220 / ↑ 1030lm	071-9148 ⋮ 70
	4000K	↓ 3450 / ↑ 1100lm	



SONO 600 surface

DIRECT



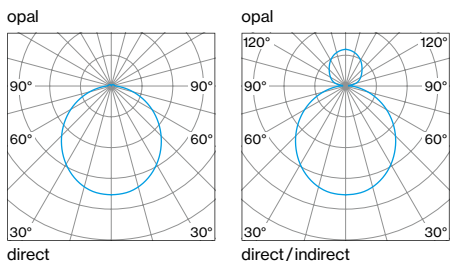
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W	3000K	5750lm	071-9156 ⋮ 70
	4000K	6100lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
68W	3000K	↓ 5740 / ↑ 2590lm	071-9158 ⋮ 70
	4000K	↓ 6100 / ↑ 2760lm	

LIGHT DISTRIBUTION



SONO

suspended

xal.com/sono



Quickinfo

GENERAL

suspended
IP50, IP 40
several mounting options

LED

Mid-power LED
up to 138lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
emergency light 1h / 3h
transparent feeder cable

PHYSICAL

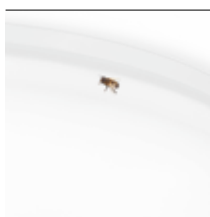
aluminium
powder-coated
halogen-free cable (internal wiring)

Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss; Oberfläche weiß pulverbeschichtet; Pendelleuchte mit kürzbarer Pendelrohrabhangung (chrom) 1000 mm, Einspeiseleitung in Pendelrohr; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flachenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabeloffnungen und Steckklemme fur Durchgangsverdrahtung; Schutzart IP 40 (direct/indirect) bzw. IP 50 (DIRECT); SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar; optional mit LED Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Round luminaire housing in die-cast aluminium; surface white powder coated; suspended luminaire with adjustable pendant rod mounting (chrome) 1000 mm, feed in rod; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP 40 (direct/indirect) or IP 50 (direct); PC I; DALI dimmable with CLO function; optional non-dimmable; optional with LED emergency light with 1h or 3h battery and self test

Features



IP50 (dust and insect protection)



tunable white 3000–6000 K on request

Standard configuration

SUSPENSION
rod 1000mm 4

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
DIM DALI / CLO 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
opal 0

Extended configuration

COLOUR TEMPERATURE ◆◆
4000K 6

CONTROL ◆
non DIM 1

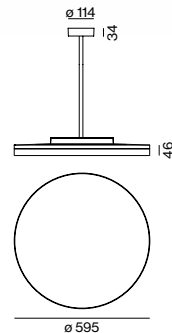
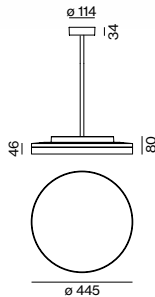
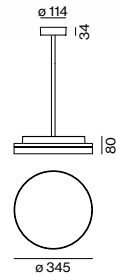
EMERGENCY LIGHT ●
1h accupack N L 1
3h accupack N L 3

Options on request

SUSPENSION
cable 1500 mm (not for ø350)
rod 2000 mm (min. 300 mm)

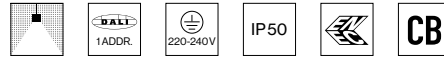
COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

CONTROL
RCS Master (☉)
RCS Slave (☉)



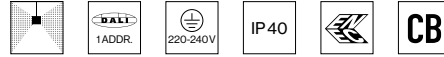
SONO 350 suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	3000K	2050lm	071-9436 ◆◆◆70 ●
	4000K	2200lm	

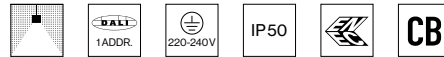
DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23 W	3000K	↓ 2050 / ↑ 800lm	071-9438 ◆◆◆70
	4000K	↓ 2200 / ↑ 820lm	

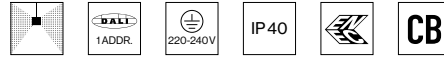
SONO 450 suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W	3000K	3030lm	071-9446 ◆◆◆70 ●
	4000K	3220lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
35 W	3000K	↓ 3220 / ↑ 1030lm	071-9448 ◆◆◆70
	4000K	↓ 3450 / ↑ 1100lm	

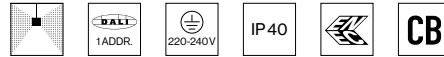
SONO 600 suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44 W	3000K	5750lm	071-9456 ◆◆◆70
	4000K	6100lm	

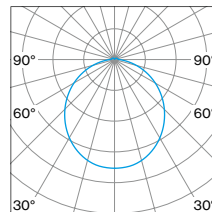
DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
68 W	3000K	↓ 5740 / ↑ 2590lm	071-9458 ◆◆◆70
	4000K	↓ 6100 / ↑ 2760lm	

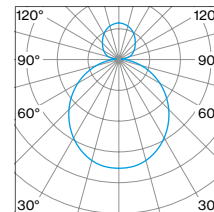
LIGHT DISTRIBUTION

opal



direct

opal



direct/indirect

Inspiration

XALcc
Graz, Austria

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

PRODUCT
SONO suspended





VELA EVO

surface / ceiling

xal.com/vela-evo



Quickinfo

GENERAL

ceiling mounted
IP 40

LED

Mid-power LED
up to 143lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

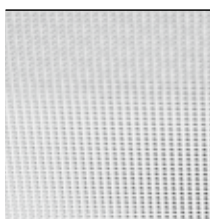
aluminium
powder-coated
halogen-free cable

Description

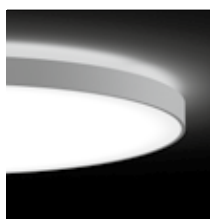
DE Runder Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; komfortables, werkzeugloses Schnellmontagesystem; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; bis ø600 mm: mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); direkt/indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED, e² LED oder e²⁺ LED); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP 40; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface powder coated in white, grey, dark grey, black, beige or dark brown; highly reflective coating for improved efficiency; convenient quick mounting system without tools; completely homogeneously illuminated, satinised PMMA cover; up to ø600 mm: microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; same light density for all surface lights with the same components (e LED, e² LED or e²⁺ LED); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP 40; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



microprismatic
(UGR < 19)



direct/indirect light
distribution



easy mounting by
click-mechanism



tunable white 3000–
6000 K on request

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal 0

Extended configuration

COLOUR TEMPERATURE
4000K 6

CONTROL
non DIM 1

MATERIAL COLOUR
beige K
grey G
dark grey D
dark brown N
black 8



+5% surcharges

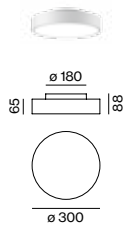
LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

EMERGENCY LIGHT
1h accupack
3h accupack
not available for VELA EVO 300



VELA EVO 300 surface

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W e ²	3000K	1300lm	0 7 3 - 1 1 3 1 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	1380lm	
17W e ²⁺	3000K	1910lm	0 7 3 - 1 1 3 2 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	2030lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13W e ²	3000K	↓ 1300/↑ 390lm	0 7 3 - 1 1 3 4 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	↓ 1380/↑ 410lm	
21W e ²⁺	3000K	↓ 1910/↑ 590lm	0 7 3 - 1 1 3 5 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	↓ 2030/↑ 620lm	

VELA EVO 450 surface

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W e ²	3000K	2070lm	0 7 3 - 1 1 4 1 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	2200lm	
27W e ²⁺	3000K	3290lm	0 7 3 - 1 1 4 2 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	3490lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23W e ²	3000K	↓ 2070/↑ 860lm	0 7 3 - 1 1 4 4 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	↓ 2200/↑ 910lm	
37W e ²⁺	3000K	↓ 3290/↑ 1220lm	0 7 3 - 1 1 4 5 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	↓ 3490/↑ 1300lm	

VELA EVO 600 surface

DIRECT

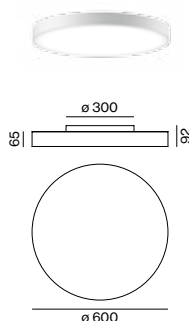
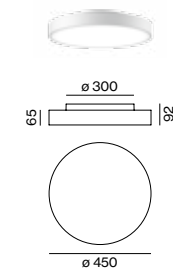


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31W e ²	3000K	3970lm	0 7 3 - 1 1 5 1 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	4220lm	
46W e ²⁺	3000K	5640lm	0 7 3 - 1 1 5 2 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	5990lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W e ²	3000K	↓ 3970/↑ 1810lm	0 7 3 - 1 1 5 4 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	↓ 4220/↑ 1920lm	
59W e ²⁺	3000K	↓ 5640/↑ 1760lm	0 7 3 - 1 1 5 5 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	↓ 5990/↑ 1870lm	



Standard configurationCOLOUR TEMPERATURE ⚡
3000 K 5CONTROL ⬆
DIM DALI / CLO 3MATERIAL COLOUR ■
white 7

7

LIGHT OPTIC COVER
opal O**Extended configuration**COLOUR TEMPERATURE ⚡
4000 K 6CONTROL ⬆
non DIM 1MATERIAL COLOUR ■
beige K
grey G
dark grey D
dark brown N
black 8

K

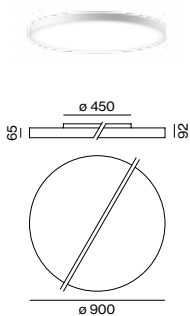
G

D

N

8

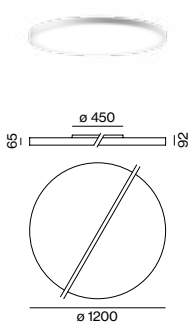
+5% surcharges

Options on requestCOLOUR RENDERING INDEX
CRI ≥ 90COLOUR TEMPERATURE
tunable white 3000–6000 K (2 DALI)LIGHT OPTIC COVER
microprismatic**VELA EVO 900 ceiling****DIRECT**

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
46 W e	3000 K	6130 lm	0 7 3 - 1 1 7 0 ⚡ 1 ■ O
73 W e ²	4000 K	6520 lm	
	3000 K	9360 lm	0 7 3 - 1 1 7 1 ⚡ ■ O
	4000 K	9950 lm	

DIRECT / INDIRECT

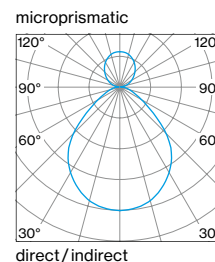
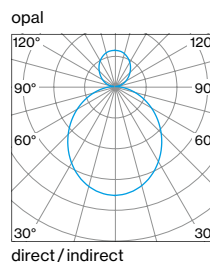
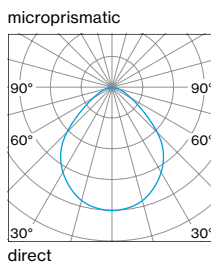
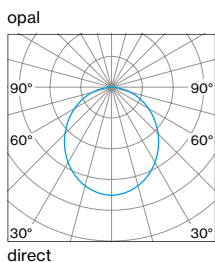
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
61 W e	3000 K	↓ 6130 / ↑ 2090 lm	0 7 3 - 1 1 7 3 ⚡ 1 ■ O
	4000 K	↓ 6520 / ↑ 2220 lm	
104 W e ²	3000 K	↓ 9360 / ↑ 4140 lm	0 7 3 - 1 1 7 4 ⚡ ■ O
	4000 K	↓ 9950 / ↑ 4400 lm	

**VELA EVO 1200 ceiling****DIRECT**

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
81 W e	3000 K	10760 lm	0 7 3 - 1 1 8 0 ⚡ 1 ■ O
	4000 K	11430 lm	
158 W e ²	3000 K	20360 lm	0 7 3 - 1 1 8 1 ⚡ ■ O
	4000 K	21630 lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
110 W e	3000 K	↓ 10760 / ↑ 3950 lm	0 7 3 - 1 1 8 3 ⚡ 1 ■ O
	4000 K	↓ 11430 / ↑ 4200 lm	
199 W e ²	3000 K	↓ 20360 / ↑ 5400 lm	0 7 3 - 1 1 8 4 ⚡ ■ O
	4000 K	↓ 21630 / ↑ 5740 lm	

AccessoriesTYPE
dismounting tool (for ø 600 / 900 / 1200) ORDER CODE
0 7 3 - 1 1 0 0 0 0**LIGHT DISTRIBUTION**

Inspiration

ÖBB Headquarters
Vienna, Austria

PRODUCT
VELA EVO surface

ARCHITECT
Zechner & Zechner ZT GmbH
Vienna, Austria



Inspiration

Optician and Eyewear Külling
St. Gallen, Switzerland

CONCEPT/DESIGN
HEIKAUS Concept GmbH

PRODUCT
VELA EVO surface





Inspiration

O.A.S.E Medical Library
Dusseldorf, Germany

PRODUCT
VELA EVO ceiling

ARCHITECT
HPP Architects
Dusseldorf, Germany

LIGHTING DESIGN
a · g Licht Gbr
Bonn, Germany





Inspiration

Betonring
St. Veit, Austria

ARCHITECT
spado architects
Klagenfurt, Austria

LIGHTING DESIGN
Hans Vieth Lebens-Art Einrichtungsdesign
Cologne, Germany

PRODUCT
VELA EVO surface





VELA EVO

suspended

xal.com/vela-evo



Quickinfo

GENERAL

suspended mounted
IP 40

LED

mid-power LED
up to 143lm/W
3000 K, 4000 K
CRI ≥ 80
binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90/50000h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO
transparent feeder cable

PHYSICAL

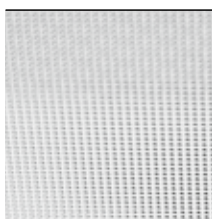
aluminium
powder-coated
halogen-free cable (internal wiring)

Description

DE Runder Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendelrohrabhängung (chrom), Einspeiseleitung in Pendelrohr; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; bis ø 600 mm: mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); direkt/indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; gleiche Leuchtdichte bei allen Flächenleuchten mit selber Bestückung (e LED, e² LED oder e²⁺ LED); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP 40; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface powder coated in white, grey, dark grey, black, beige or dark brown; Suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover; up to ø 600 mm: microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; same light density for all surface lights with the same components (e LED, e² LED or e²⁺ LED); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP 40; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



microprismatic
(UGR < 19)



direct/indirect light
distribution








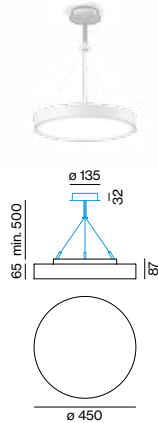
available with
rod suspension



tunable white 3000–
6000 K on request

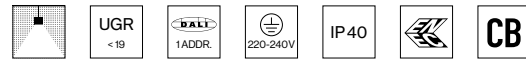
Standard configuration



SUSPENSION	
cable 1500mm	2
COLOUR TEMPERATURE	
3000K	5
CONTROL	
DIM DALI / CLO	3
MATERIAL COLOUR	
white	7
7	
LIGHT OPTIC COVER	
opal	0



VELA EVO 450 suspended



DIRECT







SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W e ²	3000K	2070lm	0 7 3 - 1 5 4 1 
27 W e ²⁺	4000K	2200lm	0 7 3 - 1 5 4 2 
	4000K	3490lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23 W e ²	3000K	↓ 2070/± 860lm	0 7 3 - 1 5 4 4 
37 W e ²⁺	4000K	↓ 2200/± 910lm	0 7 3 - 1 5 4 5 
	4000K	↓ 3290/± 1220lm	
	4000K	↓ 3490/± 1300lm	

Extended configuration

SUSPENSION	
rod 1000mm	4
COLOUR TEMPERATURE	
4000K	6
CONTROL	
non DIM	1
MATERIAL COLOUR	
beige	K
grey	G
dark grey	D
dark brown	N
black	8



+5% surcharges

LIGHT OPTIC COVER	
microprismatic (UGR < 19)	P

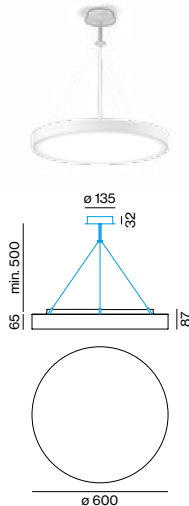
Options on request

COLOUR RENDERING INDEX	
CRI ≥ 90	

SUSPENSION	
rod 2000mm	

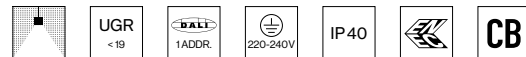
COLOUR TEMPERATURE	
tunable white 3000–6000K (2 DALI)	



EMERGENCY LIGHT	
1h accupack	
3h accupack	



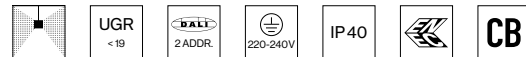
VELA EVO 600 suspended



DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31 W e ²	3000K	3970lm	0 7 3 - 1 5 5 1 
46 W e ²⁺	4000K	4220lm	0 7 3 - 1 5 5 2 
	3000K	5640lm	
	4000K	5990lm	

DIRECT / INDIRECT





SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44 W e ²	3000K	↓ 3970/± 1810lm	0 7 3 - 1 5 5 4 
59 W e ²⁺	4000K	↓ 4220/± 1920lm	0 7 3 - 1 5 5 5 
	3000K	↓ 5640/± 1760lm	
	4000K	↓ 5990/± 1870lm	

VELA EVO 900 suspended



DIRECT

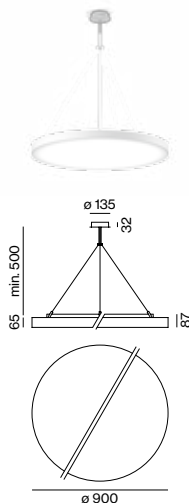


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
46 W e	3000K	6130lm	0 7 3 - 1 2 7 0 
73 W e ²	4000K	6520lm	0 7 3 - 1 2 7 1 
	3000K	9360lm	
	4000K	9950lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
61 W e	3000K	↓ 6130/± 2090lm	0 7 3 - 1 2 7 3 
104 W e ²	4000K	↓ 6520/± 2220lm	0 7 3 - 1 2 7 4 
	3000K	↓ 9360/± 4140lm	
	4000K	↓ 9950/± 4400lm	



Standard configuration

COLOUR TEMPERATURE ⚡
3000 K 5

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR ■
white 7

7

LIGHT OPTIC COVER
opal O

Extended configuration

COLOUR TEMPERATURE ⚡
4000 K 6

CONTROL ⬆
non DIM 1

MATERIAL COLOUR ■
beige K
grey G
dark grey D
dark brown N
black 8



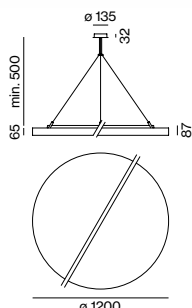
+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000 K (2 DALI)

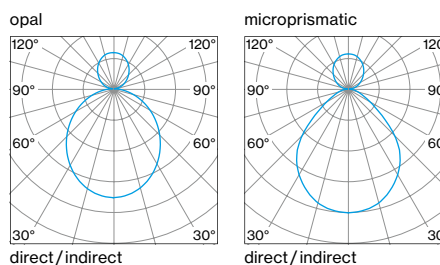
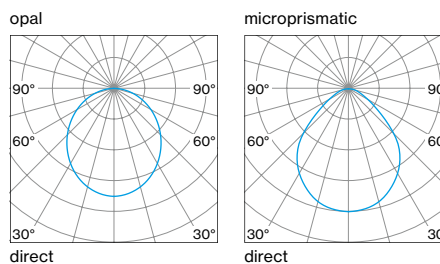
LIGHT OPTIC COVER
microprismatic

**VELA EVO 1200 suspended****DIRECT**

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
81 W e	3000K	10760 lm	0 7 3 - 1 2 8 0 ⚡ 1 ■ O
158 W e ²	4000K	11430 lm	
	3000K	20360 lm	0 7 3 - 1 2 8 1 ⚡ ⬆ ■ O
	4000K	21630 lm	

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
110 W e	3000K	↓ 10760 / ↑ 3950 lm	0 7 3 - 1 2 8 3 ⚡ 1 ■ O
	4000K	↓ 11430 / ↑ 4200 lm	
199 W e ²	3000K	↓ 20360 / ↑ 5400 lm	0 7 3 - 1 2 8 4 ⚡ ⬆ ■ O
	4000K	↓ 21630 / ↑ 5740 lm	

LIGHT DISTRIBUTION

Inspiration

Taschen Store
Berlin, Germany

ARCHITECT
SPIESS Interior Design
Dresden, Germany

LIGHTING DESIGN
Salvatore Licitra
Alberto Stampanoni
Milan, Italy

PRODUCT
VELA EVO suspended



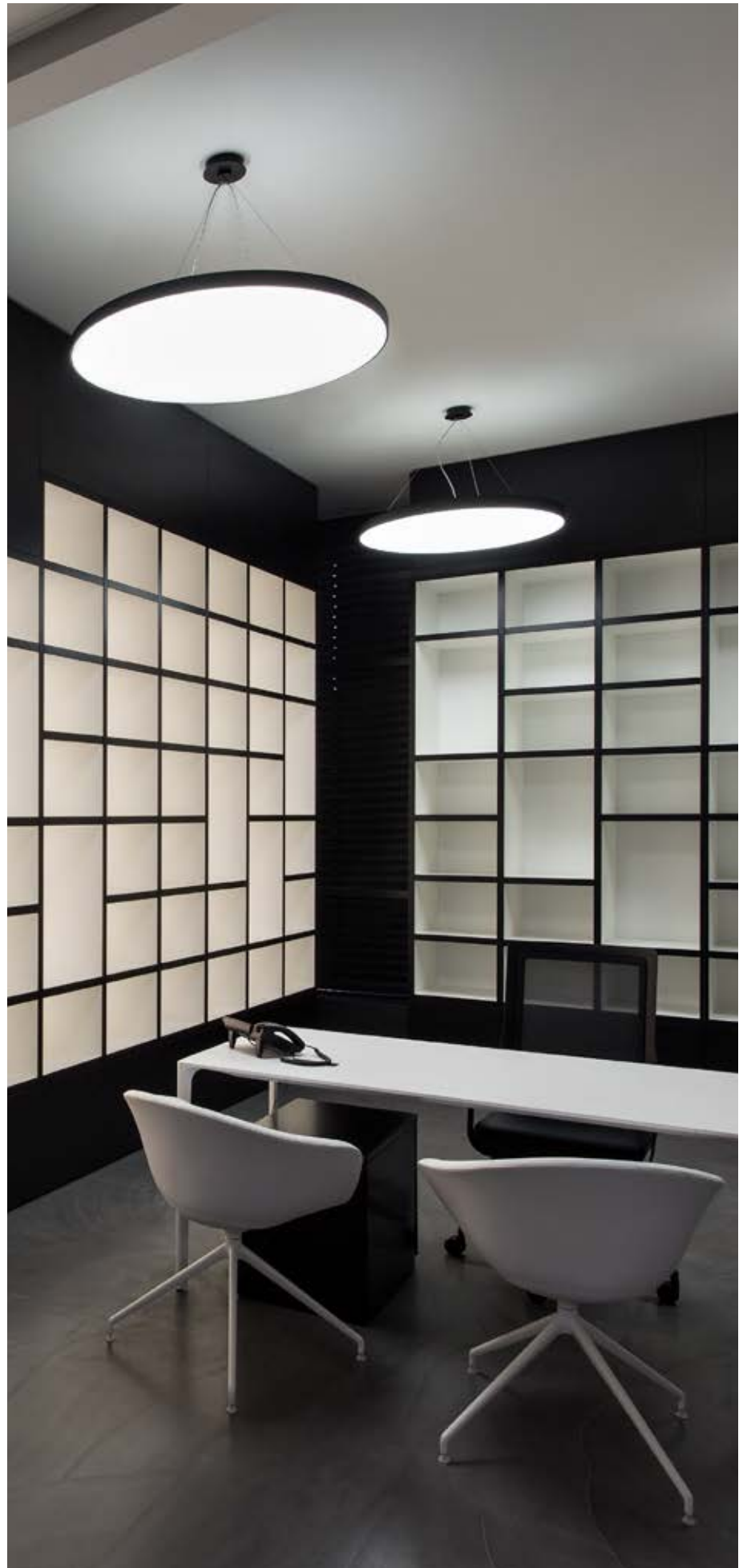
Inspiration

MASCHAGENCY GmbH & Co. kg
Munich, Germany

PRODUCT
VELA EVO suspended

ARCHITECT
Gruschwitz GmbH
Munich, Germany





Inspiration

Price f(x) Meteor Center
Prague, Czech Republic

ARCHITECT
COLLABORATIVE COLLECTIVE
Prague, Czech Republic

PRODUCT
VELA EVO suspended





Inspiration

Hult School of Business
San Francisco, USA

PRODUCT
VELA EVO suspended

ARCHITECT
TSAO Design Group
San Francisco, USA

LIGHTING DESIGN
Mary Wang, TSAO Design Group
Nino De La Rosa, Pivotal Lighting Design
San Francisco, USA





CIRO surface

xal.com/ciro



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 139lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumprofil, nahtlos verschweißt, flache Bauform (Leuchtenkörper 45mm); Oberfläche weiß oder schwarz pulverbeschichtet; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; optional mit direkt/indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Ring shaped luminaire housing from rolled aluminium profile, seamlessly welded, low-profile design (luminaire housing 45mm); surface powder coated in white or black; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; completely homogeneously illuminated, satinised PMMA cover; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR ■
white 7



LIGHT OPTIC COVER O
opal

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
non DIM 1

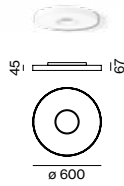
MATERIAL COLOUR ■
black 8



+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



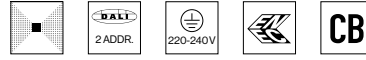
CIRO 600 surface

DIRECT

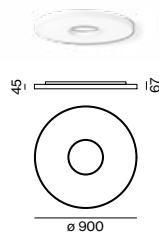


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000K	5080lm	0 7 2 - 5 1 5 6 ⋮ ⬆ ■ O
	4000K	5400lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
54W	3000K	↓ 5080 / ↑ 1440lm	0 7 2 - 5 1 5 8 ⋮ ⬆ ■ O
	4000K	↓ 5400 / ↑ 1530lm	



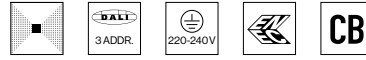
CIRO 900 surface

DIRECT

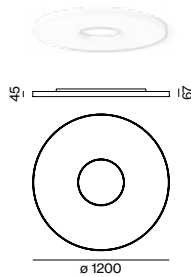


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
85W	3000K	10160lm	0 7 2 - 5 1 7 6 ⋮ ⬆ ■ O
	4000K	10800lm	

DIRECT / INDIRECT

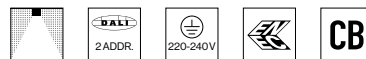


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
101W	3000K	↓ 10160 / ↑ 3040lm	0 7 2 - 5 1 7 8 ⋮ ⬆ ■ O
	4000K	↓ 10800 / ↑ 3230lm	



CIRO 1200 surface

DIRECT



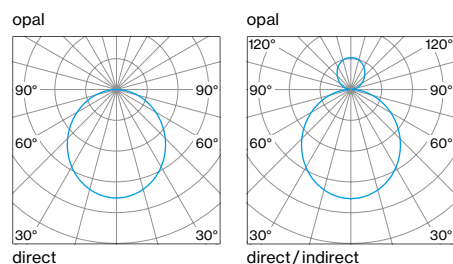
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
107W	3000K	13550lm	0 7 2 - 5 1 8 6 ⋮ ⬆ ■ O
	4000K	14400lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
136W	3000K	↓ 13550 / ↑ 4140lm	0 7 2 - 5 1 8 8 ⋮ ⬆ ■ O
	4000K	↓ 14400 / ↑ 4400lm	

LIGHT DISTRIBUTION



Inspiration

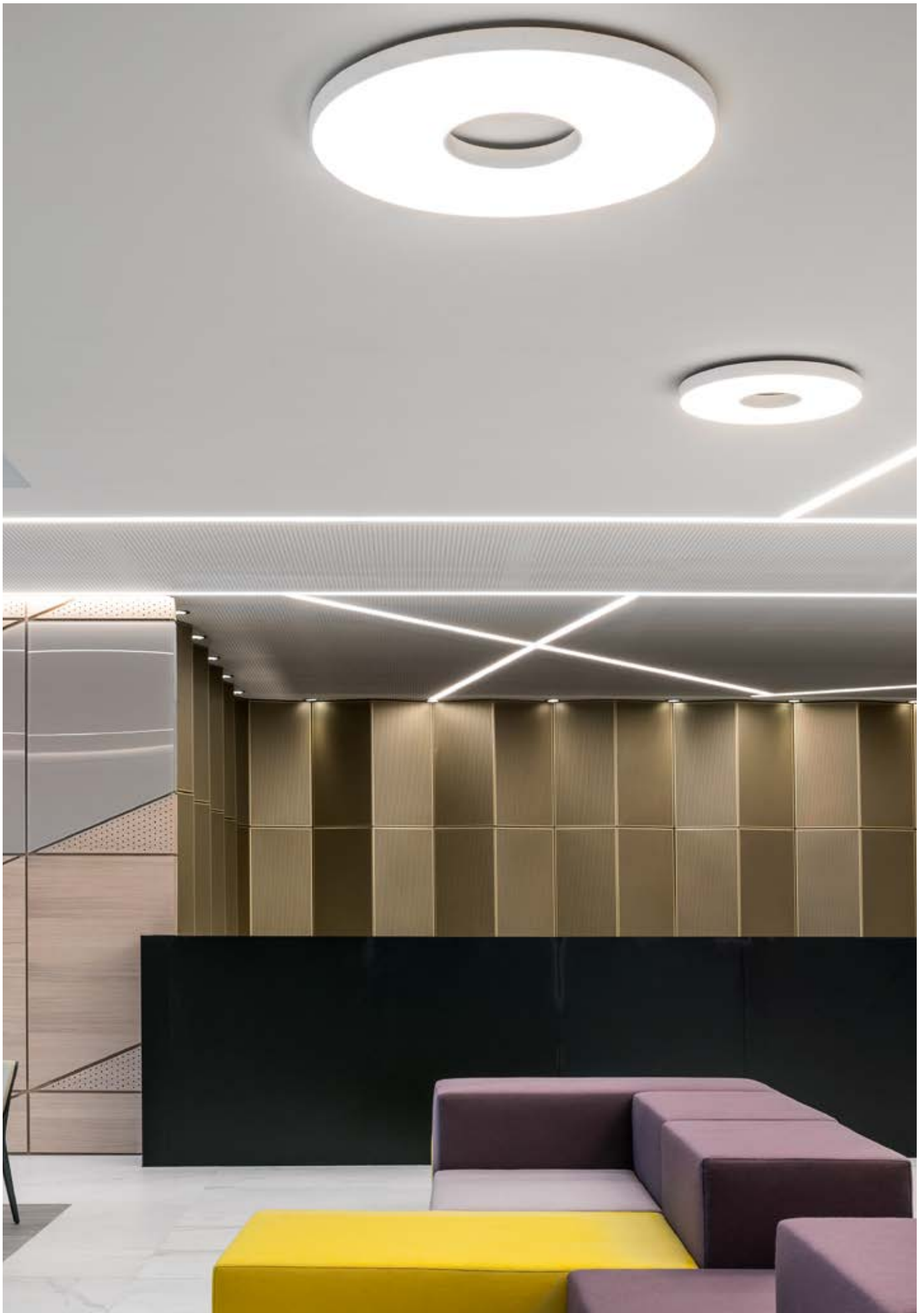
Bank of Ireland
Dublin, Ireland

PRODUCT
CIRO surface

ARCHITECT
Henry J Lyons Architects
Dublin, Ireland

LIGHTING DESIGN
O'Connor Sutton Cronin
Dublin, Ireland





CIRO

suspended

xal.com/ciro



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 139lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumprofil, nahtlos verschweißt, flache Bauform (Leuchtenkörper 45 mm); Oberfläche weiß oder schwarz pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; optional mit direkt/indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Ring shaped luminaire housing from rolled aluminium profile, seamlessly welded, low-profile design (luminaire housing 45 mm); surface powder coated in white or black; Suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; completely homogeneously illuminated, satinised PMMA cover; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Standard configuration

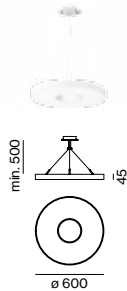
COLOUR TEMPERATURE ⚡
3000K 5

CONTROL ↕
DIM DALI / CLO 3

MATERIAL COLOUR ■
white 7

7

LIGHT OPTIC COVER
opal 0



CIRO 600 suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
42W	3000K	5080lm	0 7 2 - 5 2 5 6 ⚡ ■ □ ○
	4000K	5400lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
54W	3000K	↓ 5080 / ↑ 2020lm	0 7 2 - 5 2 5 8 ⚡ ■ □ ○
	4000K	↓ 5400 / ↑ 2150lm	

Extended configuration

COLOUR TEMPERATURE ⚡
4000K 6

CONTROL ↕
non DIM 1

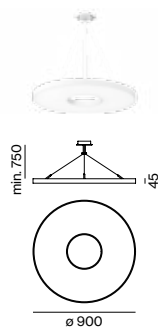
MATERIAL COLOUR ■
black 8

8

+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



CIRO 900 suspended

DIRECT

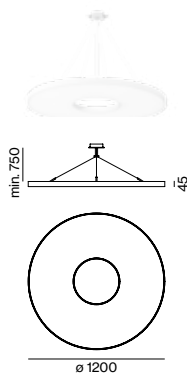


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
85W	3000K	10160lm	0 7 2 - 5 2 7 6 ⚡ ■ □ ○
	4000K	10800lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
103W	3000K	↓ 10160 / ↑ 3200lm	0 7 2 - 5 2 7 8 ⚡ ■ □ ○
	4000K	↓ 10800 / ↑ 3400lm	



CIRO 1200 suspended

DIRECT



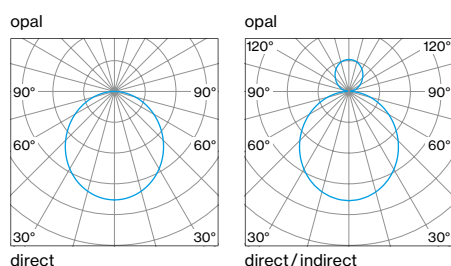
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
107W	3000K	13550lm	0 7 2 - 5 2 8 6 ⚡ ■ □ ○
	4000K	14400lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
136W	3000K	↓ 13550 / ↑ 4110lm	0 7 2 - 5 2 8 8 ⚡ ■ □ ○
	4000K	↓ 14400 / ↑ 4370lm	

LIGHT DISTRIBUTION



Inspiration

RLB headquarters
Graz, Austria

PRODUCT
CIRO suspended

ARCHITECT
Strohecker ZT GmbH
Graz, Austria

LIGHTING DESIGN
Klauss Elektro-Anlagen
Seiersberg, Austria

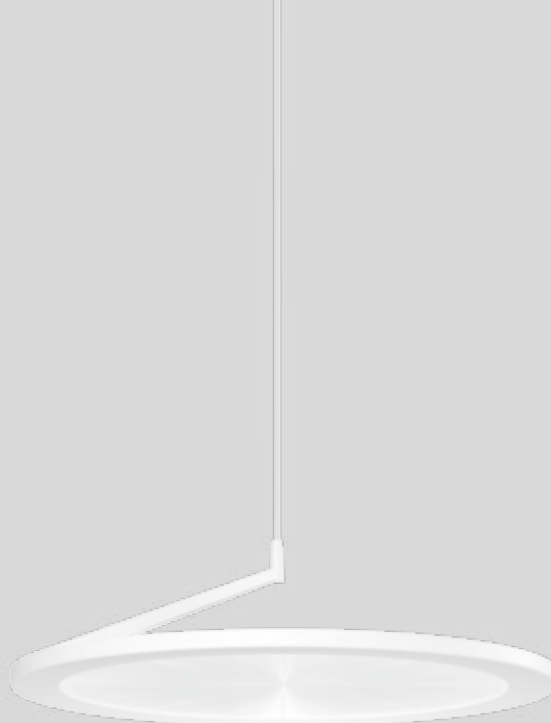




HELIOS

suspended

xal.com/helios



Quickinfo

GENERAL

suspended
IP20
several mounting options

LED

Mid-power LED
up to 110lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct/indirect illumination
circular de-glaring prism (UGR < 19)

ELECTRICAL

DIM DALI
transparent feeder cable

PHYSICAL

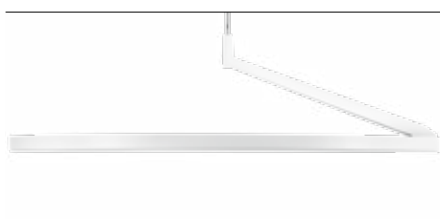
aluminium
powder-coated
halogen-free cable (internal wiring)

Description

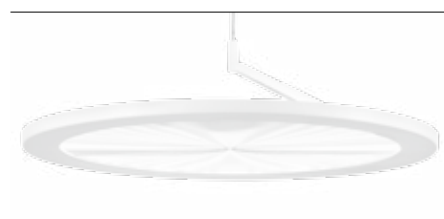
DE Ringförmiger Leuchtenkörper aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung, Seil in transparenter Einspeiseleitung geführt; elektronisches Betriebsgerät im Baldachin verbaut; Schrägpendingrohr mit integrierter Kabelführung und Verstellmechanismus für Neigungsausgleich; Kühlkörper in Leuchtengeometrie für optimales Thermomanagement und passive Kühlung der LEDs integriert; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; optional nur direktstrahlend, Lichtlenkung mittels hochreflektierenden Reflektormaterials; Direktanteil: zirkularprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar

EN Ring shaped luminaire housing in die-cast aluminium; surface powder coated in white or black; Suspended luminaire with 1500 mm cable suspension, cable in a transparent feeder; electronic operating unit installed in the canopy; angled pendent with integrated cable management and adjustment mechanism for levelling; heat sink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; optional direct light beam only, light control via highly reflective reflector material; Direct component: circular prismatic PMMA cover, completely homogeneous illumination; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable

Features



flat design (17 mm)



circular de-glaring prism (UGR < 19)

Standard configuration

COLOUR TEMPERATURE ••
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR ■
white 7



Extended configuration

COLOUR TEMPERATURE ••
4000K 6

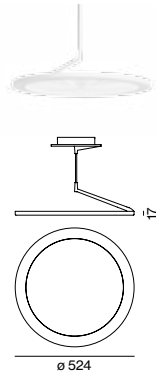
MATERIAL COLOUR ■
black 8



+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



HELIOS suspended

DIRECT



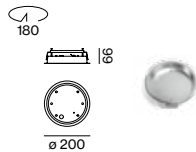
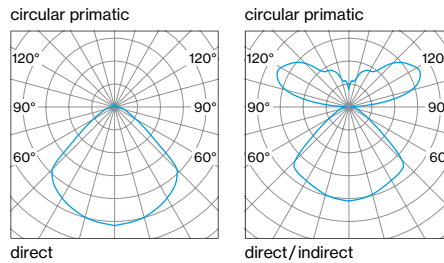
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
48 W	3000 K	4870 lm	0 5 9 - 8 2 2 2 •• 3 ■
	4000 K	5170 lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
65 W	3000 K	↓ 2770 / ↑ 3940 lm	0 5 9 - 8 2 3 2 •• 3 ■
	4000 K	↓ 2940 / ↑ 4190 lm	

LIGHT DISTRIBUTION

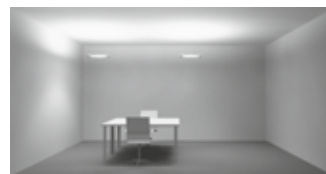
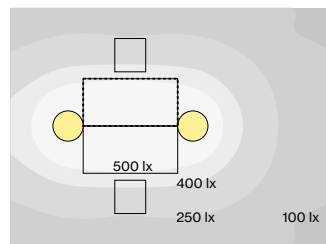


Accessories

RECESSED HOUSING

TYPE	R CODE
recessed housing	0 0 5 - 3 6 0 0 0

Technical data



HELIOS suspended
48 W, 4000 K, direct/indirect

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE 1.6 × 0.8 m

Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	

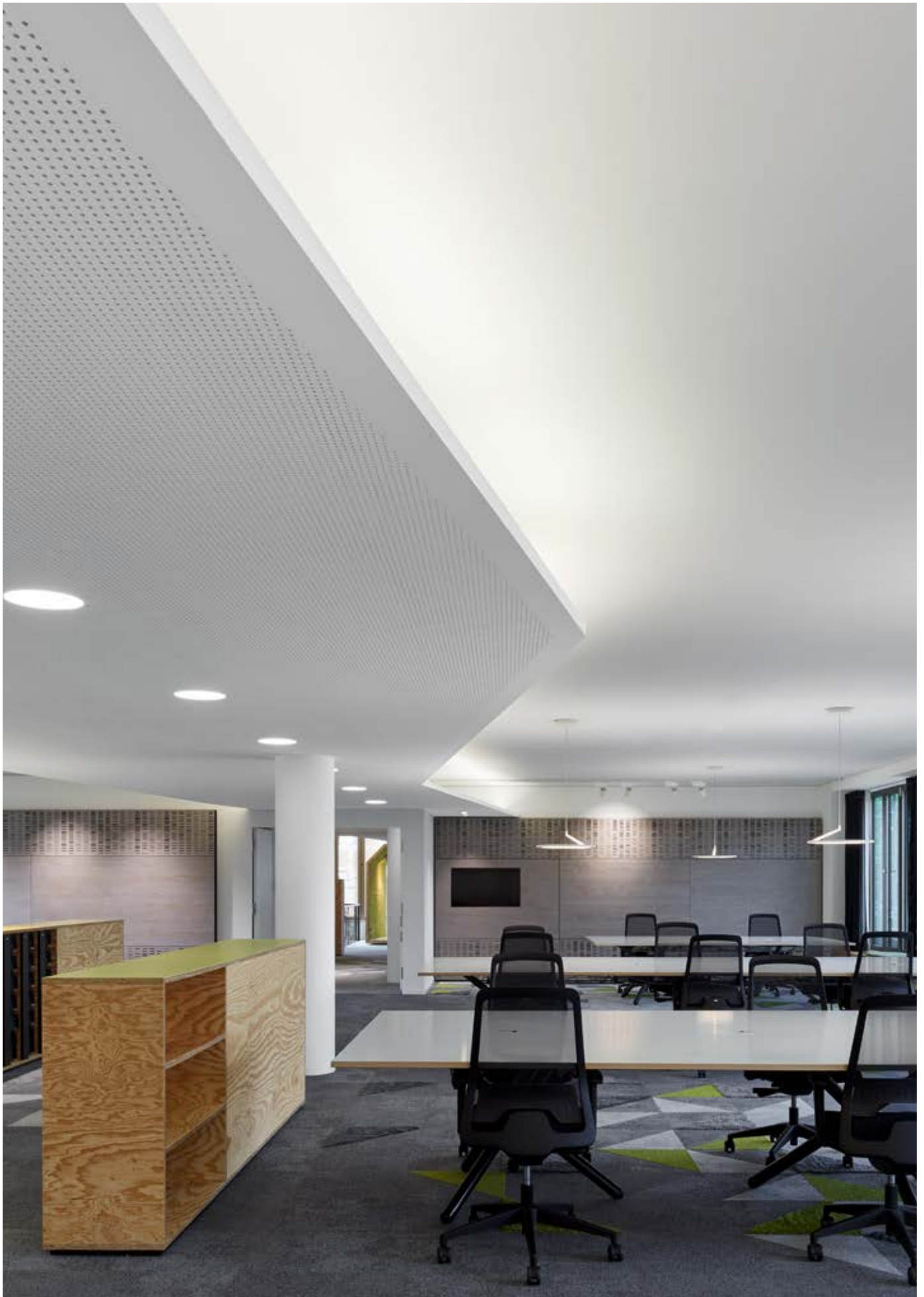
Inspiration

moovel group
Stuttgart, Germany

ARCHITECT
FURCH GESTALTUNG +
PRODUKTION GMBH
Stuttgart, Germany

PRODUCT
HELIOS suspended





SONIC

suspended

xal.com/sonic



Quickinfo

GENERAL

suspended
IP 20
several mounting options available

LED

Mid-power LED
up to 140 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct/indirect illumination
PMMA microprismatic (UGR < 19)

ELECTRICAL

DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
acoustically effective
halogen-free cable (internal wiring)

SONIC free
standing
(absorber)

[page 634](#)



Description

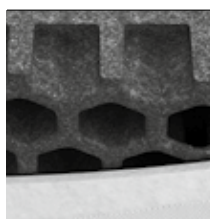
DE Konischer Leuchtenkörper aus gerolltem Aluminiumprofil; Oberfläche weiß oder dunkelgrau pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendelrohrabhängung (chrom), Einspeiseleitung in Pendelrohr; mit direkt/indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung; Reflektor für verbesserten Wirkungsgrad (96 % Reflexionsgrad); bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar; schallreduzierendes Zubehör erhältlich: patentiertes Schallschutzelement aus expandiertem Polystyrol (EPS)

EN Conical light housing in rolled aluminium profile; surface white or dark grey powder coated; Suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; microprismatic PMMA cover; completely homogeneous illumination; reflector for improved efficiency (96 % reflectance); workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable; noise reducing accessories available: patented soundproofing element made of expanded polystyrene (EPS)

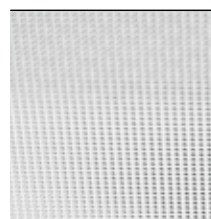
Features



one piece acoustic ring, in 2 colours




patented honeycomb structure



microprismatic (UGR < 19)

Standard configuration

SUSPENSION 
cable 1500 mm 2

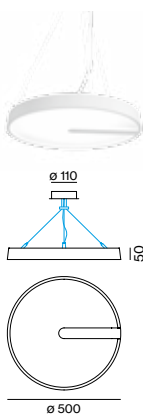
COLOUR TEMPERATURE 
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR 
white 7






LIGHT OPTIC COVER
microprismatic (UGR < 19) P



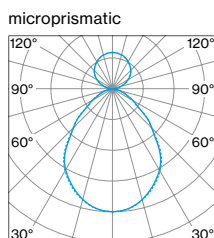
SONIC suspended

DIRECT / INDIRECT




SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
37W	3000K	↓ 3430 / ± 1470 lm	0 5 9 - 6  3 1  3  P
	4000K	↓ 3640 / ± 1560 lm	

LIGHT DISTRIBUTION



direct/indirect

Extended configuration

SUSPENSION 
rod 1000 mm (min. 300 mm) 4

COLOUR TEMPERATURE 
4000K 6

MATERIAL COLOUR 
dark grey 6

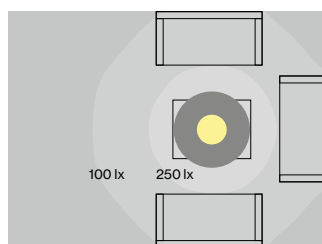


+5% surcharges

Options on request

SUSPENSION
rod 2000 mm (min. 300 mm)

Technical data



SONIC suspended, 49W, 4000K
direct/indirect with absorber

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8
Mounting height	2.25 m

CALCULATION SURFACE

Surface dimensions	Floor
Surface height	0 m

GLARE EVALUATION

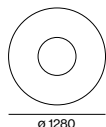
Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	



Accessories

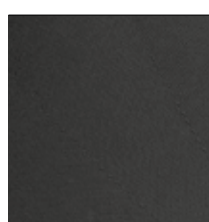
ABSORBER

TYPE	ORDER CODE
bazalt grey	9 5 9 - 6 9 9 9 1 1 6
light grey	9 5 9 - 6 9 9 9 1 1 7



ABSORBER WITH SUSPENSION

TYPE	ORDER CODE
bazalt grey	0 5 9 - 6 2 9 9 1 1 6
light grey	0 5 9 - 6 2 9 9 1 1 7



material example
bazalt grey



material example
light grey

Inspiration

Volksbank headquarters
Bolzano, Italy

ARCHITECT
Christian Rübberth Architekt
Bolzano, Italy

INTERIOR DESIGN
INNOCAD Architektur ZT
Graz, Austria
bergundtal GmbH
Bruneck, Italy

LIGHTING DESIGN
lichtdesign GRATZEL
Innsbruck, Austria

PRODUCT
SONIC suspended





Inspiration

MERCEDES BENZ Lounge
Geneva, Switzerland

PRODUCT
SONIC suspended
customised

ARCHITECT
Kauffmann Theilig & Partner
Ostfildern, Germany

LIGHTING DESIGN
TLD Planungsgruppe GmbH
Wendlingen, Germany

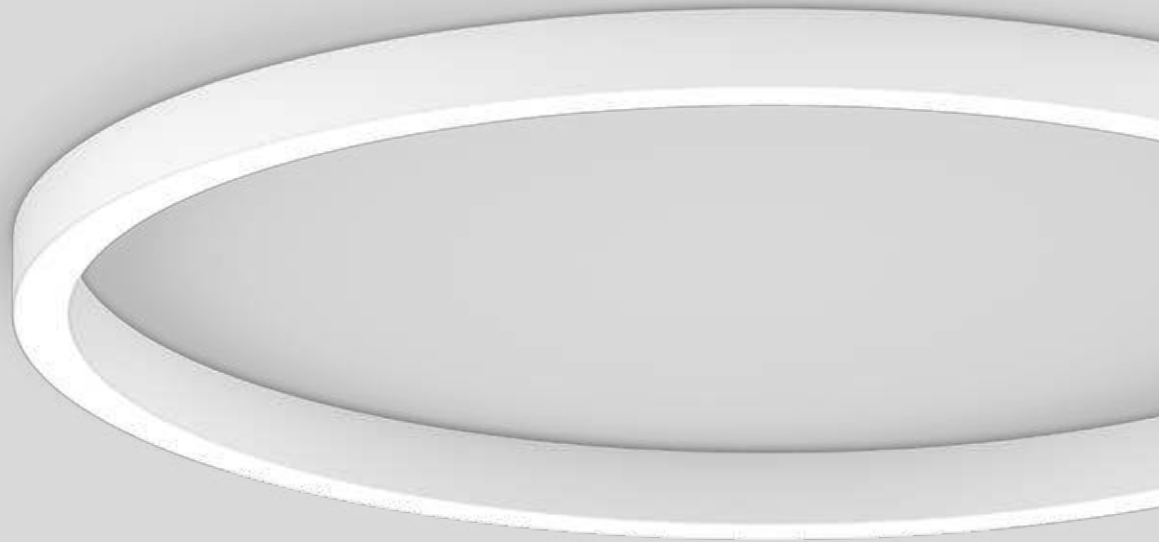




MINO 60 CIRCLE

ceiling

xal.com/mino



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 114lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumstrangpressprofil nahtlos verschweißt; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Lichteinsatz bestehend aus hochreflektierend lackiertem Aluminiumdruckguss für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; surface powder coated in white, grey, dark grey, black, beige or dark brown; lighting insert consisting of highly reflective coated die-cast aluminium for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬇
non DIM 1
DIM DALI 3

MATERIAL COLOUR ☑
white 7

7

LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

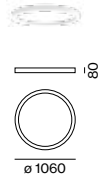
COLOUR TEMPERATURE ⋮
4000K 6

MATERIAL COLOUR ☑
beige K
grey G
dark grey D
dark brown N
black 8

K G D N 8

+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic Z

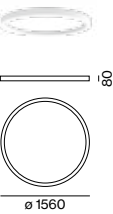


MINO 60 CIRCLE 1000 ceiling

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
67W	3000K	6710lm	0 3 4 - 2 1 1 2 ⋮ ⬇ ☑ ☑
	4000K	7130lm	

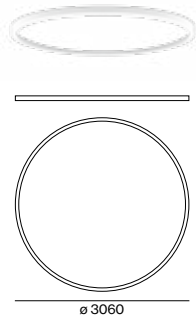


MINO 60 CIRCLE 1500 ceiling

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
101W	3000K	10730lm	0 3 4 - 2 1 1 0 ⋮ ⬇ ☑ ☑
	4000K	11400lm	



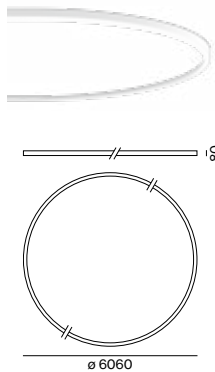
MINO 60 CIRCLE 3000 ceiling

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
202W	3000K	21660lm	0 3 4 - 2 1 1 4 ⋮ ⬇ ☑ ☑ 7 H
	4000K	23010lm	

other configurations on page 508



MINO 60 CIRCLE 6000 ceiling

DIRECT

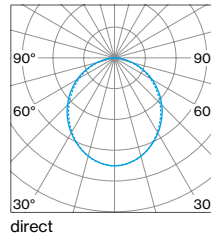


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
403W	3000K	43320lm	0 3 4 - 2 1 1 6 ⋮ ⬇ ☑ ☑ 7 H
	4000K	46030lm	

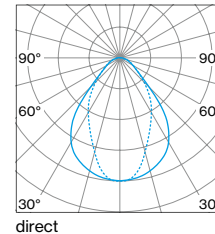
other configurations on page 508

LIGHT DISTRIBUTION

opal



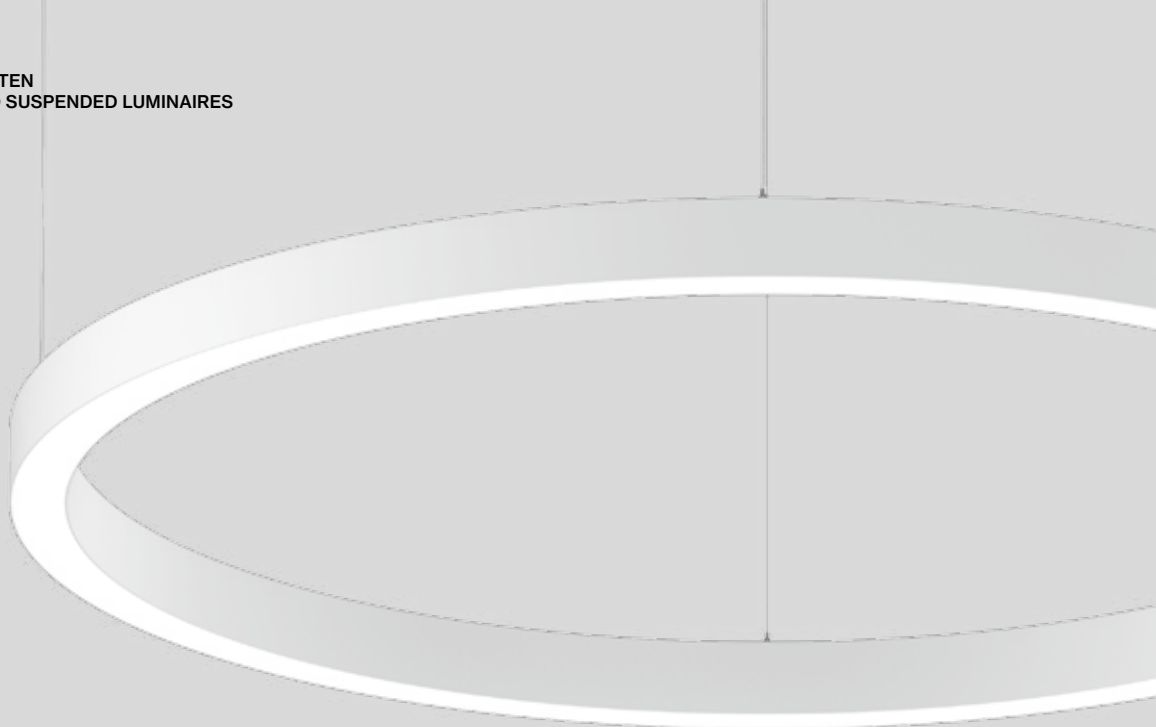
microprismatic



MINO 60 CIRCLE

suspended

xal.com/mino



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 114lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct, direct/indirect illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

DE Ringförmiger Leuchtenkörper aus gerolltem Aluminiumstrangpressprofil nahtlos verschweißt; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Lichteinsatz bestehend aus hochreflektierend lackiertem Aluminiumdruckguss für verbessertes Thermomanagement; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; optional mit direkt/indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; surface powder coated in white, grey, dark grey, black, beige or dark brown; lighting insert consisting of highly reflective coated die-cast aluminium for improved thermal management; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; incl. transparent feed; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
non DIM 1
DIM DALI 3


MATERIAL COLOUR 
white 7

7

LIGHT OPTIC COVER 
opal high performance H

Extended configuration

COLOUR TEMPERATURE 
4000K 6

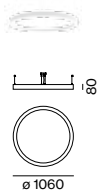
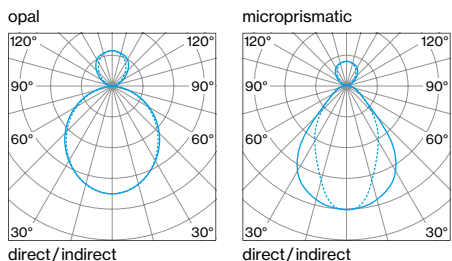
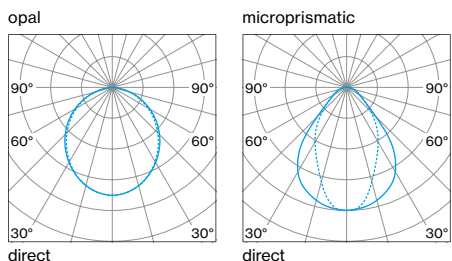
MATERIAL COLOUR 
beige K
grey G
dark grey D
dark brown N
black 8

K G D N 8

+5% surcharges

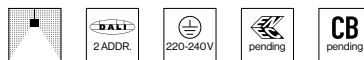
LIGHT OPTIC COVER 
microprismatic Z




LIGHT DISTRIBUTION



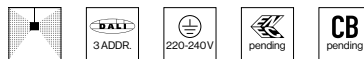
MINO 60 CIRCLE 1000 suspended




DIRECT

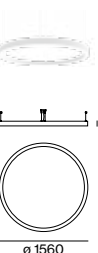


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
67W	3000K	6710lm	0 3 4 - 2 2 1 2   
	4000K	7130lm	

DIRECT / INDIRECT






SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
89W	3000K	↓ 6710/↑ 2730lm	0 3 4 - 2 2 1 3   
	4000K	↓ 7130/↑ 2900lm	



MINO 60 CIRCLE 1500 suspended




DIRECT

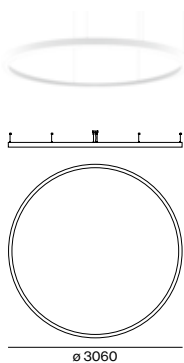


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
101W	3000K	10730lm	0 3 4 - 2 2 1 0   
	4000K	11400lm	

DIRECT / INDIRECT






SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
135W	3000K	↓ 10730/↑ 4370lm	0 3 4 - 2 2 1 1   
	4000K	↓ 11400/↑ 4640lm	



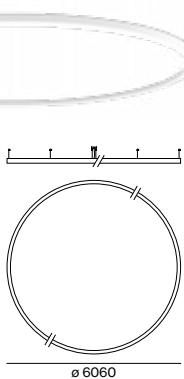
MINO 60 CIRCLE 3000 suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
202W	3000K	21660lm	0 3 4 - 2 2 1 4    7 H
	4000K	23010lm	




other configurations on page 508



MINO 60 CIRCLE 6000 suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
403W	3000K	43320lm	0 3 4 - 2 2 1 6    7 H
	4000K	46030lm	

other configurations on page 508

Inspiration

3M
Langenthal, Switzerland

ARCHITECT
Marazzi + Paul Architekten AG
Zurich, Switzerland

PROJECT DEVELOPMENT
Mobimo
Küsnacht, Switzerland

MAIN CONTRACTOR
Frutiger AG
Muri, Switzerland

PRODUCT
MINO 60 CIRCLE suspended





Inspiration

Sparkasse
Kirn, Germany

PRODUCT
MINO 60 CIRCLE suspended
MINO 60 CURVE

ARCHITECT
DI (FH) Kristin Pfeifer
c/o Sparkasse
Rhein-Nahe, Germany

Reichelt Ingenieurgesellschaft
für Elektrotechnik
Langenlonsheim, Germany





Inspiration

Area 81
Rome, Italy

ARCHITECT
Exclusiva Design
Rome, Italy

LIGHTING DESIGN
Mama Design
Rome, Italy

PRODUCT
MINO 60 CIRCLE suspended
MINO 60 CURVE

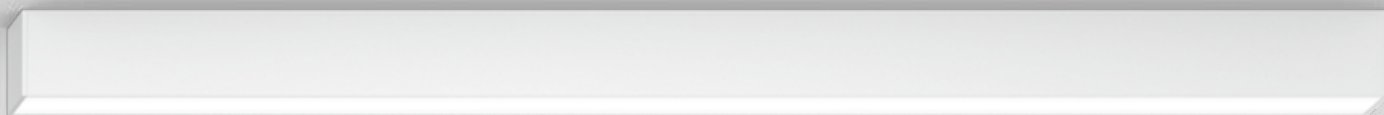




BASO 40

surface

xal.com/baso



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 2345lm/m
up to 102lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

BASO 40

system

[page 474](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; optional nicht dimmbar

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP 20; PC I; optional non-dimmable

Features



asymmetric lens

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

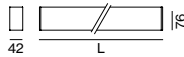
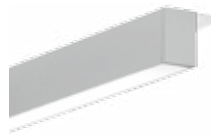
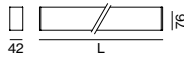
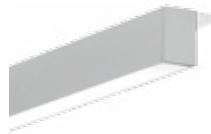
CONTROL ⬢
non DIM 1

MATERIAL COLOUR ▣
beige K
grey G
dark grey D
dark brown N
black 8



+5% surcharges

LIGHT OPTIC LENS
asymmetric A



BASO 40 surface, opal high performance



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1290 lm	609	0 4 5 - 1 1 2 2 ⬢⬢ ▣ ▣ H
	4000K	1370 lm		
28 W	3000K	2580 lm	1209	0 4 5 - 1 1 2 4 ⬢⬢ ▣ ▣ H
	4000K	2740 lm		
42 W	3000K	3860 lm	1809	0 4 5 - 1 1 2 6 ⬢⬢ ▣ ▣ H
	4000K	4100 lm		
56 W	3000K	5150 lm	2409	0 4 5 - 1 1 2 8 ⬢⬢ ▣ ▣ H
	4000K	5470 lm		

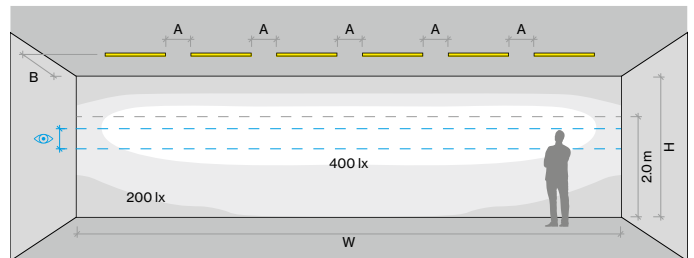
BASO 40 surface, wallwasher



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1320 lm	609	0 4 5 - 1 1 2 2 ⬢⬢ ▣ ▣ A
	4000K	1400 lm		
28 W	3000K	2640 lm	1209	0 4 5 - 1 1 2 4 ⬢⬢ ▣ ▣ A
	4000K	2810 lm		
42 W	3000K	3970 lm	1809	0 4 5 - 1 1 2 6 ⬢⬢ ▣ ▣ A
	4000K	4210 lm		
56 W	3000K	5290 lm	2409	0 4 5 - 1 1 2 8 ⬢⬢ ▣ ▣ A
	4000K	5620 lm		

Technical data

BASO 40 surface, wallwasher, 28 W, 3000 K



ROOM VALUES

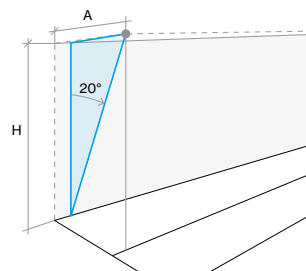
Wall dimensions H = 2.8 m | W = 10.8 m
Distance to wall B = 1.3 m
Distance between Luminaires 0.5 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE

Surface dimensions 10.8 × 2.8 m
Surface height 0 – 2.8 m
Eye level 1.35 m – 1.75 m

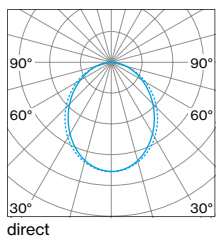
MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

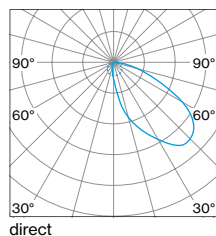


LIGHT DISTRIBUTION

opal high performance



asymmetric



Inspiration

Sparkasse
Lienz, Austria

ARCHITECT
DI Matthias Viehhauser
Salzburg, Austria

PRODUCT
BASO 40 surface

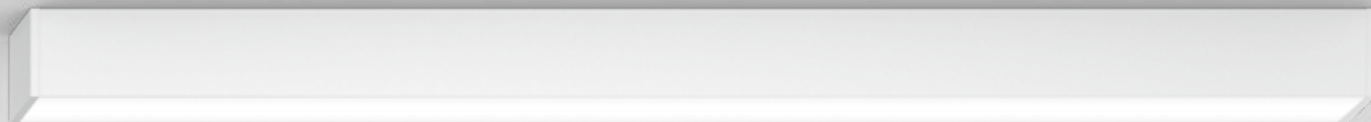




MINO 60

surface

xal.com/mino



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 3562lm/m
up to 115lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

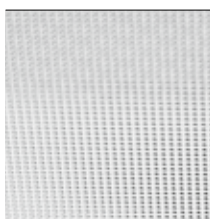
MINO 60

system ceiling

[page 506](#)



Features



microprismatic
(UGR < 19)



power switch



tunable white 3000–
6000 K on request

Standard configuration

COLOUR TEMPERATURE ⦿
3000K 5

CONTROL ◀▶
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER ◻
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⦿
4000K 6

MATERIAL COLOUR ▣
beige K
grey G
dark grey D
dark brown N
black 8



+5% surcharges

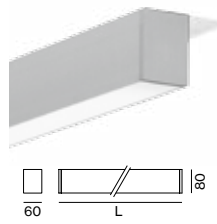
LIGHT OPTIC COVER ◻
microprismatic Z
microprismatic (UGR < 19)* G

*UGR < 19 only with e LED

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)



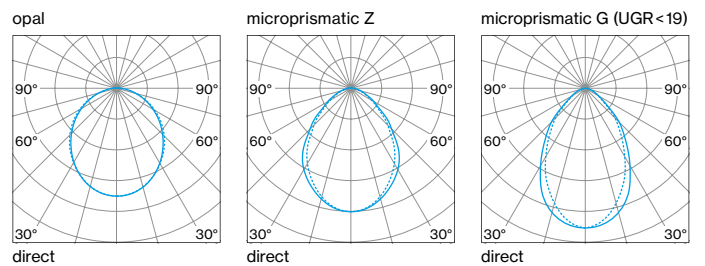
MINO 60 surface



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K	860 lm	580	0 4 6 - 4 1 P 2 ⦿ ◻ ▣
	4000K	980 lm		
15W e ²	3000K	1470 lm	880	0 4 6 - 4 1 P 3 ⦿ ◻ ▣
	4000K	1560 lm		
21W e ²⁺	3000K	1920 lm	1180	0 4 6 - 4 1 P 4 ⦿ ◻ ▣
	4000K	2040 lm		
13W e	3000K	1290 lm	1480	0 4 6 - 4 1 P 5 ⦿ ◻ ▣
	4000K	1470 lm		
22W e ²	3000K	2210 lm	2352	0 4 6 - 4 1 P 8 ⦿ ◻ ▣
	4000K	2350 lm		
31W e ²⁺	3000K	2880 lm		
	4000K	3060 lm		
17W e	3000K	1720 lm		
	4000K	1950 lm		
29W e ²	3000K	2950 lm		
	4000K	3130 lm		
41W e ²⁺	3000K	3830 lm		
	4000K	4070 lm		
21W e	3000K	2150 lm		
	4000K	2440 lm		
37W e ²	3000K	3680 lm		
	4000K	3910 lm		
52W e ²⁺	3000K	4790 lm		
	4000K	5090 lm		
34W e	3000K	3430 lm		
	4000K	3910 lm		
59W e ²	3000K	5890 lm		
	4000K	6260 lm		
82W e ²⁺	3000K	7670 lm		
	4000K	8150 lm		

luminous flux opal high performance, -13% by microprismatic Z cover,
-15% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



Inspiration

Bank of Ireland
Dublin, Ireland

ARCHITECT
Henry J Lyons Architects
Dublin, Ireland

LIGHTING DESIGN
O'Connor Sutton Cronin
Dublin, Ireland

PRODUCT
MINO 60 surface

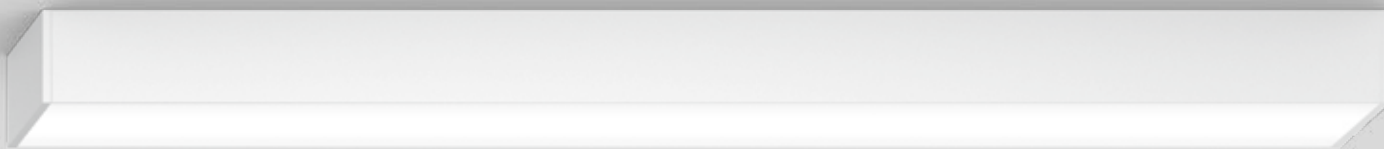




MINO 100

surface

xal.com/mino



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 3990lm/m
up to 129lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

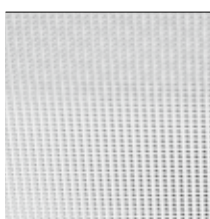
DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e" und "e2"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e2, e2+) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e" and "e2"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e2, e2+) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

MINO 100
system ceiling
[page 536](#)



Features



microprismatic
(UGR < 19)



power switch



tunable white 3000–
6000K on request

Standard configuration

COLOUR TEMPERATURE ⦿
3000K 5

CONTROL ⬆
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
microprismatic Z
microprismatic (UGR < 19)* G
*UGR < 19 only with e/e² LED

Extended configuration

COLOUR TEMPERATURE ⦿
4000K 6

MATERIAL COLOUR ☑
beige K
grey G
dark grey D
dark brown N
black 8



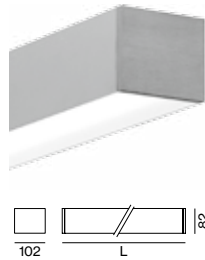
+5% surcharges

LIGHT OPTIC COVER ☑
opal high performance H

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)



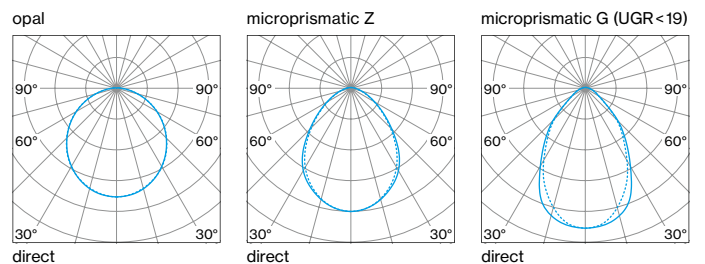
MINO 100 surface



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K	1030 lm	596	0 5 6 - 4 1 P 2 ⦿ ⬆ ☑ ☑
	4000K	1090 lm		
15W e ²	3000K	1650 lm		
	4000K	1750 lm		
21W e ²⁺	3000K	2150 lm		
	4000K	2280 lm		
13W e	3000K	1540 lm	896	0 5 6 - 4 1 P 3 ⦿ ⬆ ☑ ☑
	4000K	1640 lm		
22W e ²	3000K	2470 lm		
	4000K	2630 lm		
31W e ²⁺	3000K	3220 lm		
	4000K	3420 lm		
17W e	3000K	2060 lm	1196	0 5 6 - 4 1 P 4 ⦿ ⬆ ☑ ☑
	4000K	2190 lm		
29W e ²	3000K	3300 lm		
	4000K	3510 lm		
41W e ²⁺	3000K	4300 lm		
	4000K	4560 lm		
21W e	3000K	2570 lm	1496	0 5 6 - 4 1 P 5 ⦿ ⬆ ☑ ☑
	4000K	2730 lm		
37W e ²	3000K	4120 lm		
	4000K	4380 lm		
52W e ²⁺	3000K	5370 lm		
	4000K	5700 lm		
34W e	3000K	4120 lm	2368	0 5 6 - 4 1 P 8 ⦿ ⬆ ☑ ☑
	4000K	4380 lm		
59W e ²	3000K	6600 lm		
	4000K	7010 lm		
82W e ²⁺	3000K	8590 lm		
	4000K	9130 lm		

luminous flux opal high performance, -8% by microprismatic Z cover,
-10% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



Inspiration

Praxis am Bahnhof
Bremgarten, Switzerland

PRODUCT
MINO 100 surface

ARCHITECT
Outlog Architektur+Planung AG
Lenzburg, Switzerland

LIGHTING DESIGN
Outlog Architektur+Planung AG
Lenzburg, Switzerland

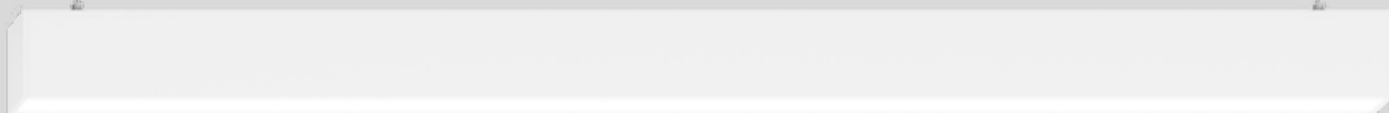




BASO 40

suspended

xal.com/baso



Quickinfo

GENERAL

suspended
IP 20

LED

Mid-power LED
up to 2345lm/m
up to 102lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

BASO 40

system
suspended
[page 474](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 20; SK I; optional nicht dimmbar

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; freely positioned attachment to the luminaire; incl. transparent feed; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP 20; PC I; optional non-dimmable

Features



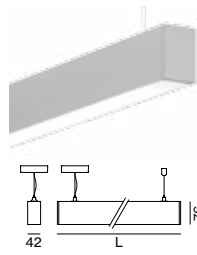
asymmetric lens

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR ⬢
white 7



BASO 40 suspended, opal high performance



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1290 lm	609	0 4 5 - 1 2 2 2 ⬢⬢ ⬢ H
	4000K	1370 lm		
28 W	3000K	2580 lm	1209	0 4 5 - 1 2 2 4 ⬢⬢ ⬢ H
	4000K	2740 lm		
42 W	3000K	3860 lm	1809	0 4 5 - 1 2 2 6 ⬢⬢ ⬢ H
	4000K	4100 lm		
56 W	3000K	5150 lm	2409	0 4 5 - 1 2 2 8 ⬢⬢ ⬢ H
	4000K	5470 lm		

LIGHT OPTIC COVER
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

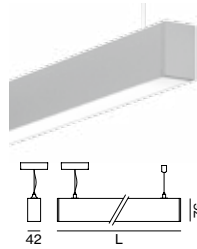
CONTROL ⬢
non DIM 1

MATERIAL COLOUR ⬢
beige K
grey G
dark grey D
dark brown N
black 8



+5% surcharges

LIGHT OPTIC LENS
asymmetric A



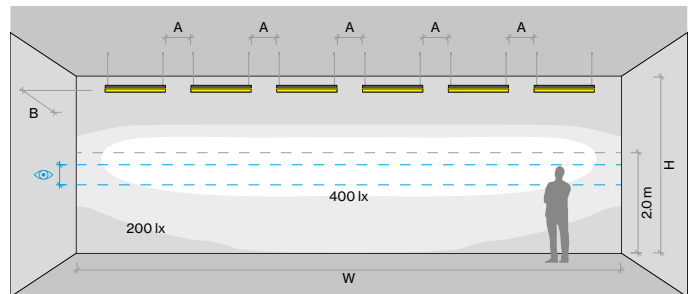
BASO 40 suspended, wallwasher



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1320 lm	609	0 4 5 - 1 2 2 2 ⬢⬢ ⬢ A
	4000K	1400 lm		
28 W	3000K	2640 lm	1209	0 4 5 - 1 2 2 4 ⬢⬢ ⬢ A
	4000K	2810 lm		
42 W	3000K	3970 lm	1809	0 4 5 - 1 2 2 6 ⬢⬢ ⬢ A
	4000K	4210 lm		
56 W	3000K	5290 lm	2409	0 4 5 - 1 2 2 8 ⬢⬢ ⬢ A
	4000K	5620 lm		

Technical data

BASO 40 suspended, wallwasher, 28 W, 3000 K



ROOM VALUES

Wall dimensions H = 2.8m | W = 10.8m
Distance to wall B = 1.3m
Distance between Luminaires 0.5m
Suspension height 2.8m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE

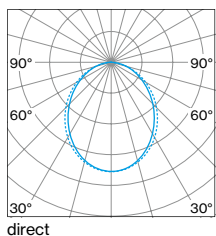
Surface dimensions 10.8 × 3.5m
Surface height 0 – 3.5m
Eye level 👁 1.35m – 1.75m

MOUNTING DISTANCE

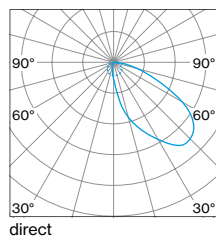
H (mm)	A (mm)
2750	900
3000	1000
3500	1200

LIGHT DISTRIBUTION

opal high performance



asymmetric



Inspiration

Realschule Kloster
Markt Indersdorf, Germany

PRODUCT
BASO 40 suspended

ARCHITECT
jhw Architekten BDA
Munich, Germany

LIGHTING DESIGN
Ingenieurbüro Knab GmbH
Munich, Germany

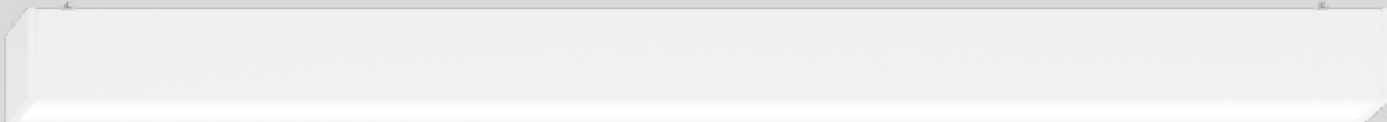




MINO 60

suspended

xal.com/mino



Quickinfo

GENERAL

suspended
IP 20

LED

Mid-power LED
up to 3562lm/m
up to 115lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

MINO 60 system
suspended
[page 506](#)

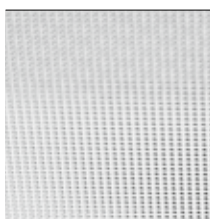


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable

Features



microprismatic
(UGR < 19)



power switch



tunable white 3000–
6000 K on request

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ▾
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ▣
white 7

7

LIGHT OPTIC COVER ▣
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

MATERIAL COLOUR ▣
beige K
grey G
dark grey D
dark brown N
black 8

K G D N 8

+5% surcharges

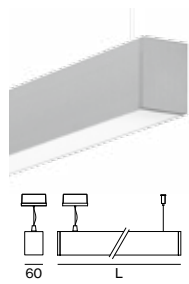
LIGHT OPTIC COVER ▣
microprismatic Z
microprismatic (UGR < 19)* G

*UGR < 19 only with e LED

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)



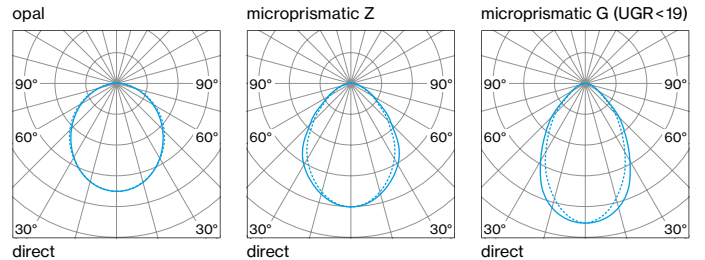
MINO 60 suspended



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13W e	3000K	1290 lm	880	0 4 6 - 4 2 P 3 ⋮ ▾ ▣
	4000K	1470 lm		
22W e ²	3000K	2210 lm		
	4000K	2350 lm		
31W e ²⁺	3000K	2880 lm		
	4000K	3060 lm		
17W e	3000K	1720 lm	1180	0 4 6 - 4 2 P 4 ⋮ ▾ ▣
	4000K	1950 lm		
29W e ²	3000K	2950 lm		
	4000K	3130 lm		
41W e ²⁺	3000K	3830 lm		
	4000K	4070 lm		
21W e	3000K	2150 lm	1480	0 4 6 - 4 2 P 5 ⋮ ▾ ▣
	4000K	2440 lm		
37W e ²	3000K	3680 lm		
	4000K	3910 lm		
52W e ²⁺	3000K	4790 lm		
	4000K	5090 lm		
34W e	3000K	3430 lm	2352	0 4 6 - 4 2 P 8 ⋮ ▾ ▣
	4000K	3910 lm		
59W e ²	3000K	5890 lm		
	4000K	6260 lm		
82W e ²⁺	3000K	7670 lm		
	4000K	8150 lm		

luminous flux opal high performance, -13% by microprismatic Z cover,
-15% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



Inspiration

Office Los Campos
Gijón, Spain

ARCHITECT
Ballina y Canal Arquitectos
Gijón, Spain

LIGHTING DESIGN
Lux Gijón
Gijón, Spain

PRODUCT
MINO 60 suspended

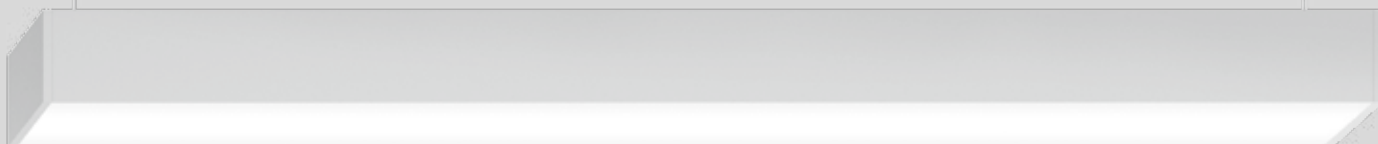




MINO 100

suspended

xal.com/mino



Quickinfo

GENERAL

suspended
IP 20

LED

Mid-power LED
up to 3990 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

MINO 100

system
suspended
[page 536](#)

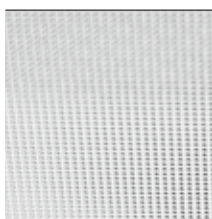


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable

Features



microprismatic
(UGR < 19)



power switch



tunable white 3000–
6000 K on request

Standard configuration

COLOUR TEMPERATURE ☐☐
3000K 5

CONTROL ⬆️⬆️
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3

MATERIAL COLOUR ☑️
white 7



LIGHT OPTIC COVER ☑️
microprismatic Z
microprismatic (UGR < 19)* G
*UGR < 19 only with e/e² LED

Extended configuration

COLOUR TEMPERATURE ☐☐
4000K 6

MATERIAL COLOUR ☑️
beige K
grey G
dark grey D
dark brown N
black 8



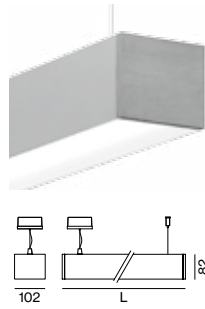
+5% surcharges

LIGHT OPTIC COVER ☑️
opal high performance H

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)



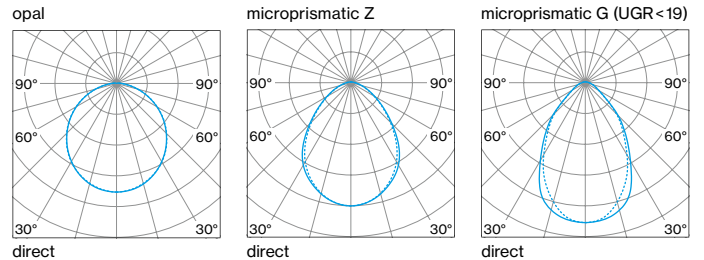
MINO 100 suspended



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13W e	3000K 4000K	1540 lm 1640 lm	896	0 5 6 - 4 2 P 3 ☐☐☐☐
22W e ²	3000K 4000K	2470 lm 2630 lm		
31W e ²⁺	3000K 4000K	3220 lm 3420 lm		
17W e	3000K 4000K	2060 lm 2190 lm	1196	0 5 6 - 4 2 P 4 ☐☐☐☐
29W e ²	3000K 4000K	3300 lm 3510 lm		
41W e ²⁺	3000K 4000K	4300 lm 4560 lm		
21W e	3000K 4000K	2570 lm 2730 lm	1496	0 5 6 - 4 2 P 5 ☐☐☐☐
37W e ²	3000K 4000K	4120 lm 4380 lm		
52W e ²⁺	3000K 4000K	5370 lm 5700 lm		
34W e	3000K 4000K	4120 lm 4380 lm	2368	0 5 6 - 4 2 P 8 ☐☐☐☐
59W e ²	3000K 4000K	6600 lm 7010 lm		
82W e ²⁺	3000K 4000K	8590 lm 9130 lm		

luminous flux opal high performance, -8% by microprismatic Z cover,
-10% by microprismatic G (UGR < 19) cover

LIGHT DISTRIBUTION



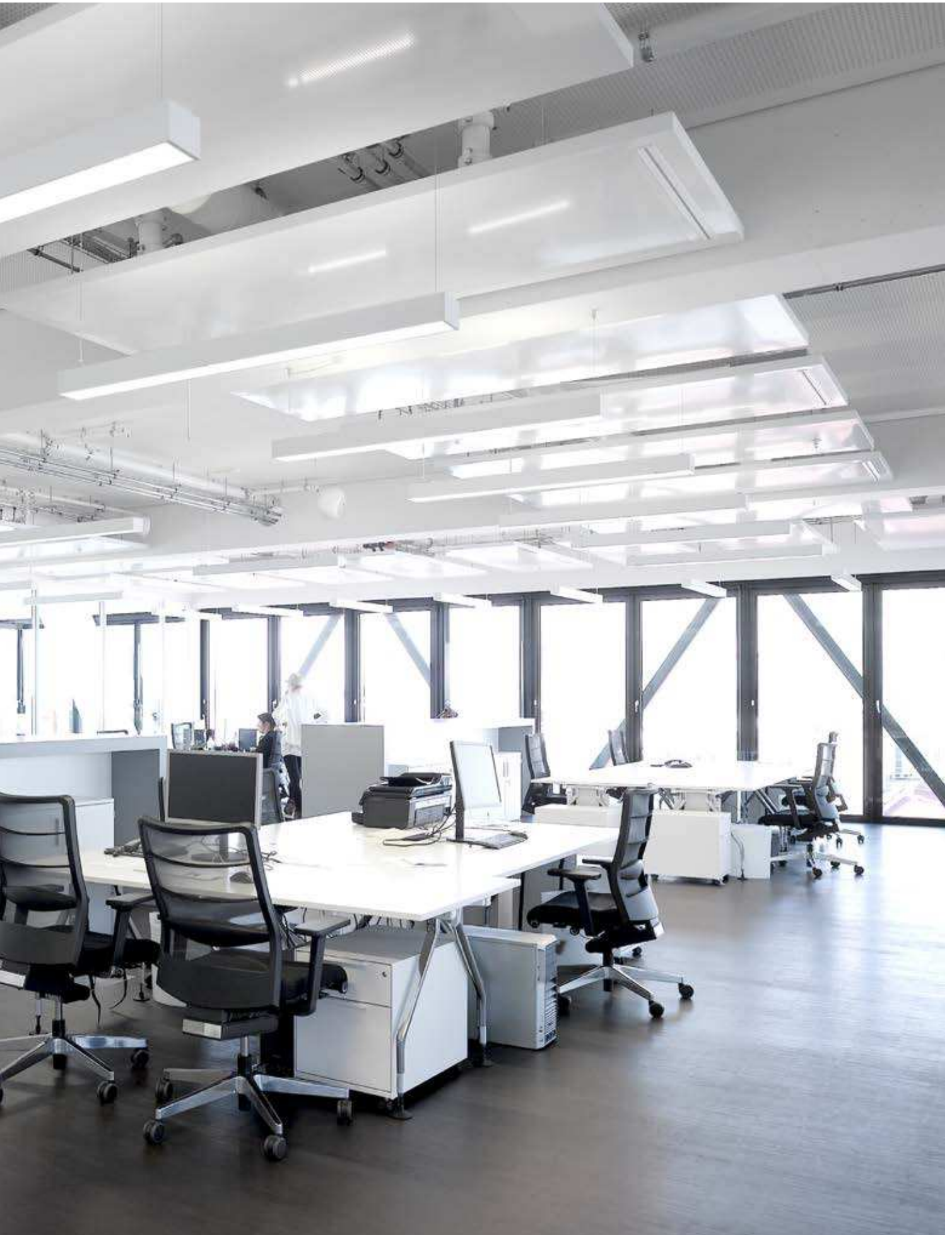
Inspiration

Medienbrücke
Munich, Germany

ARCHITECT
steidle architekten
Munich, Germany

PRODUCT
MINO 100 suspended

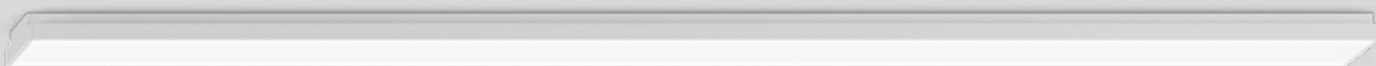




LENO

surface

xal.com/leno



Quickinfo

GENERAL

ceiling surface

± IP 40 / ± IP 20

quick installation

LED

Mid-power LED

up to 2007 lm/m

up to 126 lm/W

3000K, 4000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

DIM DALI

PHYSICAL

aluminium

powder-coated

halogen-free cable

LENO

surface system

[page 570](#)



Description

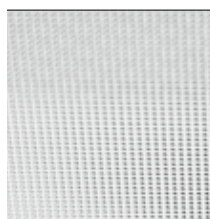
DE Extrem flache Aufbauleuchte mit 28 mm Gesamthöhe; geeignet für die Wand- oder Deckenmontage; Oberfläche weiß, grau oder schwarz pulverbeschichtet; absturzesicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar

EN Low profile surface mounted luminaire, 28 mm total height; suitable for wall or ceiling mounting; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable

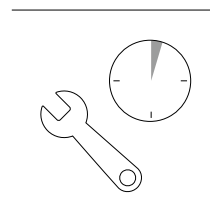
Features



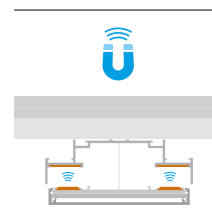
flat design (28 mm)



microprismatic
(UGR < 19)



quick installation



magnetic holders for
tool-free mounting

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

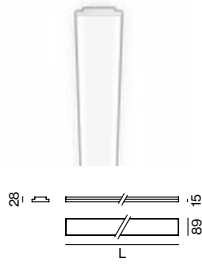
COLOUR TEMPERATURE ⋮
4000K 6

MATERIAL COLOUR ☑
grey G
black 8



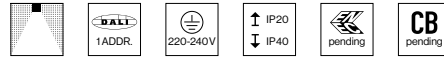
+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic (UGR < 19) G

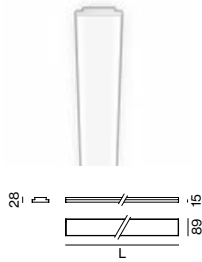


LENO surface, opal high performance

INSET + CHANNEL SURFACE



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1150lm	618	0 5 1 - 9 1 1 2 ⋮ 3 ☑ H
	4000K	1220lm		
19W	3000K	2300lm	1226	0 5 1 - 9 1 1 4 ⋮ 3 ☑ H
	4000K	2450lm		
29W	3000K	3450lm	1835	0 5 1 - 9 1 1 6 ⋮ 3 ☑ H
	4000K	3670lm		
39W	3000K	4600lm	2443	0 5 1 - 9 1 1 8 ⋮ 3 ☑ H
	4000K	4890lm		



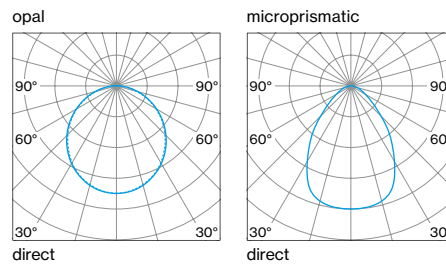
LENO surface, microprismatic

INSET + CHANNEL SURFACE

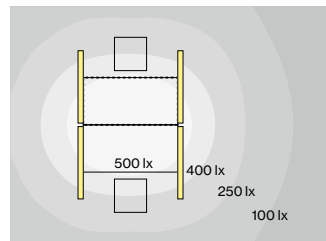


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1090lm	618	0 5 1 - 9 1 1 2 ⋮ 3 ☑ G
	4000K	1160lm		
19W	3000K	2180lm	1226	0 5 1 - 9 1 1 4 ⋮ 3 ☑ G
	4000K	2310lm		
29W	3000K	3260lm	1835	0 5 1 - 9 1 1 6 ⋮ 3 ☑ G
	4000K	3470lm		
39W	3000K	4350lm	2443	0 5 1 - 9 1 1 8 ⋮ 3 ☑ G
	4000K	4620lm		

LIGHT DISTRIBUTION



Technical data



LENO surface, microprismatic,
19W, 4000K

ROOM VALUES

Room dimensions 5.4 × 4 × 2.8m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE

Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²



Inspiration

Private Residence
Hausmannstätten, Austria

PRODUCT
LENO surface

ARCHITECT
DI Thomas Schwed
Vienna, Austria





LENO

suspended

xal.com/leno



Quickinfo

GENERAL

suspended

IP 20

quick installation

LED

Mid-power LED

up to 2007 lm/m

up to 126 lm/W

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

DIM DALI

PHYSICAL

aluminium

powder-coated

halogen-free cable (internal wiring)

LENO

suspended
system

[page 572](#)



Description

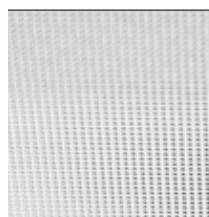
DE Extrem flache Aufbauleuchte mit 28 mm Gesamthöhe; geeignet für die Wand- oder Deckenmontage; Oberfläche weiß, grau oder schwarz pulverbeschichtet; absturzesicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar

EN Low profile suspended luminaire, 28 mm total height; luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; incl. transparent feed; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class IP 20; PC I; DALI dimmable

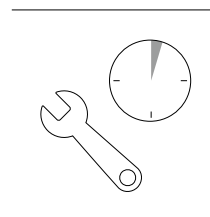
Features



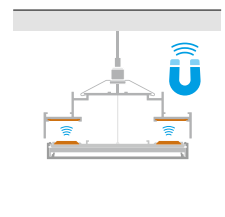
flat design (28 mm)



microprismatic
(UGR < 19)



quick installation



magnetic holders for
tool-free mounting

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal high performance H

Extended configuration

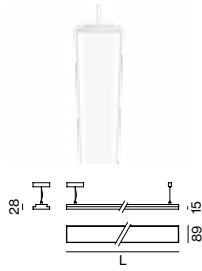
COLOUR TEMPERATURE
4000K 6

MATERIAL COLOUR
grey G
black 8



+5% surcharges

LIGHT OPTIC COVER
microprismatic (UGR < 19) G

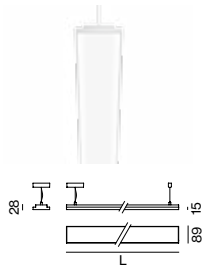


LENO suspended, opal high performance

INSET + CHANNEL SUSPENDED

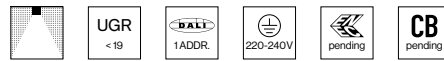


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1150lm	618	0 5 1 - 9 2 1 2 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> H
	4000K	1220lm		
19W	3000K	2300lm	1226	0 5 1 - 9 2 1 4 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> H
	4000K	2450lm		
29W	3000K	3450lm	1835	0 5 1 - 9 2 1 6 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> H
	4000K	3670lm		
39W	3000K	4600lm	2443	0 5 1 - 9 2 1 8 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> H
	4000K	4890lm		



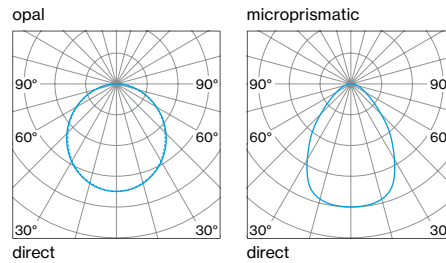
LENO suspended, microprismatic

INSET + CHANNEL SUSPENDED

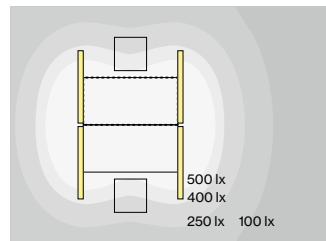


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1090lm	618	0 5 1 - 9 2 1 2 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> G
	4000K	1160lm		
19W	3000K	2180lm	1226	0 5 1 - 9 2 1 4 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> G
	4000K	2310lm		
29W	3000K	3260lm	1835	0 5 1 - 9 2 1 6 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> G
	4000K	3470lm		
39W	3000K	4350lm	2443	0 5 1 - 9 2 1 8 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> G
	4000K	4620lm		

LIGHT DISTRIBUTION



Technical data



LENO suspended, microprismatic,
19W, 4000K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8
Mounting height	2.25m

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	



Inspiration

Office EY
Vienna, Austria

ARCHITECT
Andreas Burghardt
Vienna, Austria

LIGHTING DESIGN
Andreas Burghardt
Vienna, Austria

PRODUCT
LENO suspended

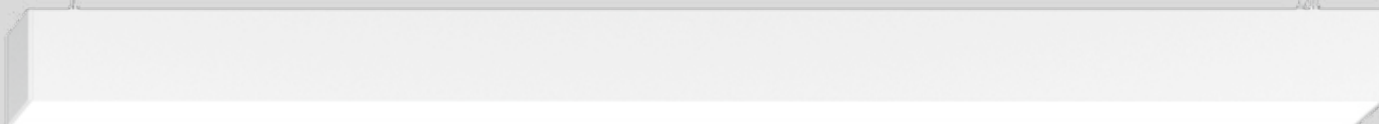




LITO 60

suspended

xal.com/lito



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 3870 lm/m
up to 109 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
daylight & movement sensor
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

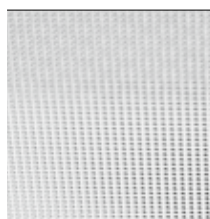
DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau oder schwarz pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); direkt/indirekte Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional mit integriertem Infrarot Anwesenheits- und Helligkeitssensor

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey or black; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable; optionally with integrated infrared presence and brightness sensor

Features



direct/indirect light
distribution



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ↕
non DIM 1
DIM DALI 3

MATERIAL COLOUR ▣
white 7

7

LIGHT OPTIC COVER
microprismatic (UGR < 19)

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ↕
daylight & movement sensor 7

MATERIAL COLOUR ▣
grey G
black 8

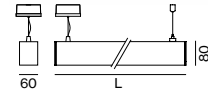
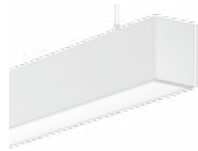
G

8

+5% surcharges

Options on request

CONTROL
dynamic daylight control



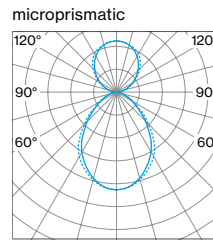
LITO 60 suspended

DIRECT / INDIRECT



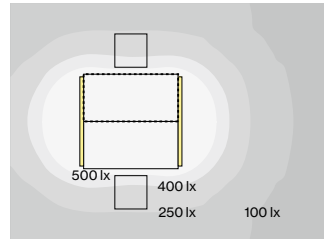
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
42 W	3000 K	↓ 2480 / ↑ 1780 lm	1180	0 4 6 - 5 2 2 4 ⋮ ↕ Z
	4000 K	↓ 2640 / ↑ 1890 lm		
52 W	3000 K	↓ 3103 / ↑ 2220 lm	1480	0 4 6 - 5 2 2 5 ⋮ ↕ Z
	4000 K	↓ 3300 / ↑ 2360 lm		
83 W	3000 K	↓ 4970 / ↑ 3560 lm	2352	0 4 6 - 5 2 2 8 ⋮ ↕ Z
	4000 K	↓ 5280 / ↑ 3780 lm		

LIGHT DISTRIBUTION



direct/indirect

Technical data



LITO 60 suspended, 52 W, 4000 K

ROOM VALUES

Room dimensions 5.4 × 4 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8
Mounting height 2.25 m

CALCULATION SURFACE

Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²



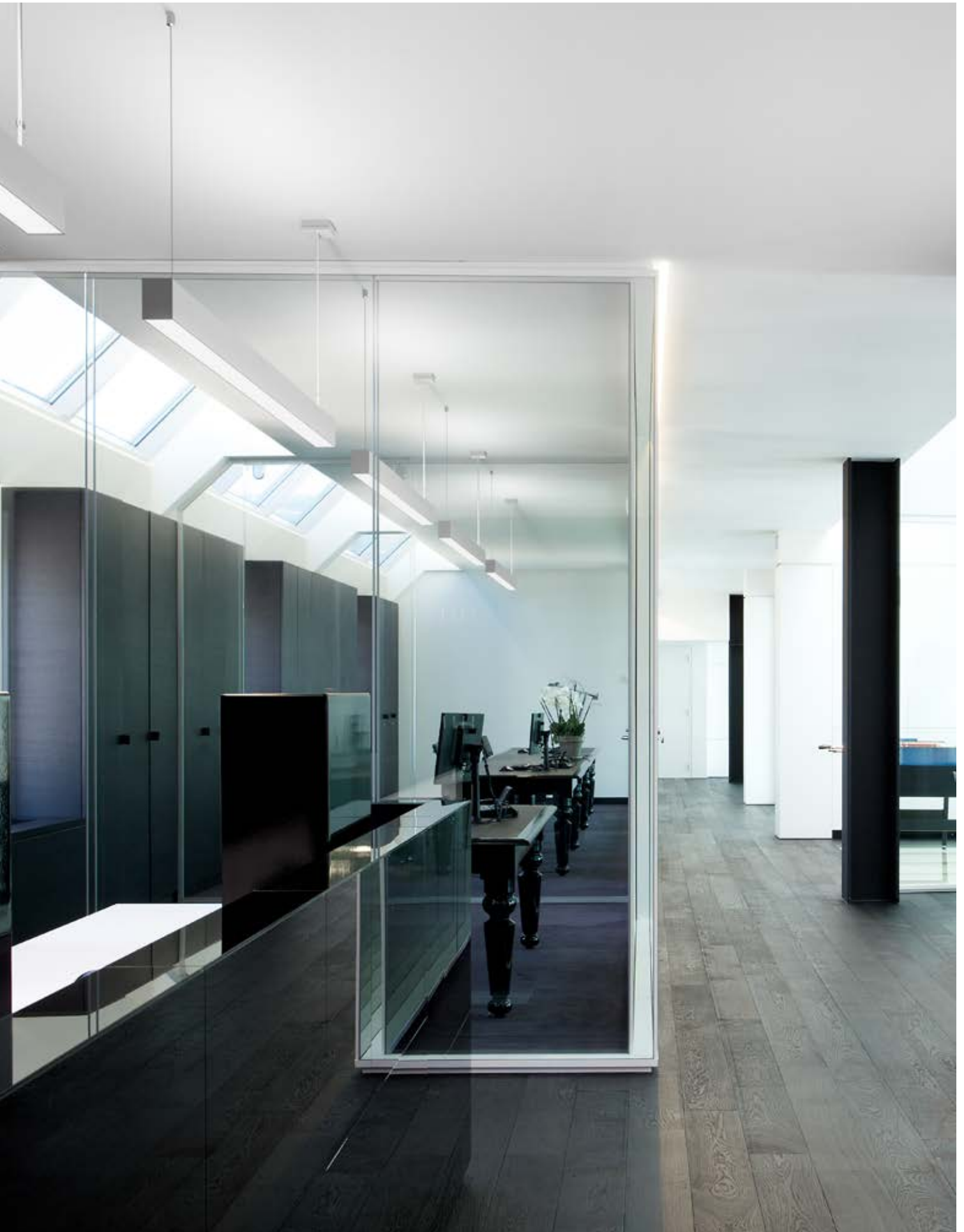
Inspiration

Office
Brussels, Belgium

ARCHITECT
Conix Architects
Antwerpen, Belgium

PRODUCT
LITO 60 suspended

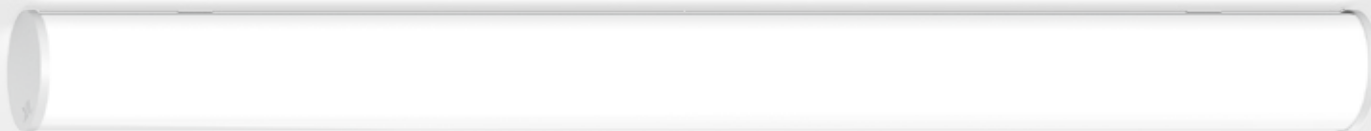




TUBO 100

surface

xal.com/tubo



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 4135lm/m
up to 129lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

TUBO 100

system

[page 592](#)

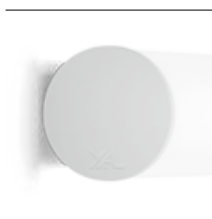


Description

DE Tragprofil aus Aluminiumstrangpressprofil; Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; zylindrische Abdeckung aus satiniertem PMMA für homogene Ausleuchtung; mit 340° Lichtabstrahlung und leichter Deckenaufhellung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; surface white powder coated; suitable for wall or ceiling mounting; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; cylindrical cover made of satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP20; PC I; optional DALI dimmable

Features



detail end caps

Standard configuration

COLOUR TEMPERATURE ⚡
3000K 5

CONTROL ↕
non DIM 1

LIGHT OPTIC COVER
opal 0

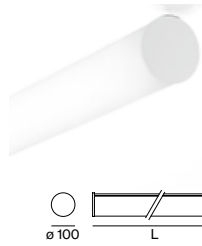
MATERIAL COLOUR
white 7

7

Extended configuration

COLOUR TEMPERATURE ⚡
4000K 6

CONTROL ↕
DIM DALI 3

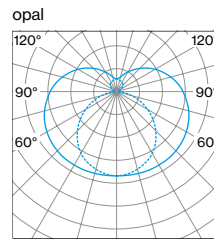


TUBO 100 surface



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
28 W	3000 K	3390 lm	877	0 5 8 - 1 1 3 3 ⚡ 7 0
	4000 K	3600 lm		
37 W	3000 K	4520 lm	1177	0 5 8 - 1 1 3 4 ⚡ 7 0
	4000 K	4800 lm		
47 W	3000 K	5650 lm	1477	0 5 8 - 1 1 3 5 ⚡ 7 0
	4000 K	6000 lm		
75 W	3000 K	9040 lm	2347	0 5 8 - 1 1 3 8 ⚡ 7 0
	4000 K	9600 lm		

LIGHT DISTRIBUTION



direct

Inspiration

Gartenhof School
Allschwil, Switzerland

ARCHITECT
BUR Architekten AG
Zurich, Switzerland

LIGHTING DESIGN
d-lite lichtdesign
Zurich, Switzerland

PRODUCT
TUBO 100 surface





TUBO 100

suspended

xal.com/tubo



Quickinfo

GENERAL

suspended
IP 20

LED

Mid-power LED
up to 4135 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

TUBO 100

system
[page 592](#)



Description

DE Tragprofil aus Aluminiumstrangpressprofil; Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; zylindrische Abdeckung aus satiniertem PMMA für homogene Ausleuchtung; mit 340° Lichtabstrahlung und leichter Deckenaufhellung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 20; SK I; optional DALI-dimmbar

EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; surface white powder coated; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; cylindrical cover made of satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP 20; PC I; optional DALI dimmable

Features



detail end caps

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ↕
non DIM 1

LIGHT OPTIC COVER
opal O

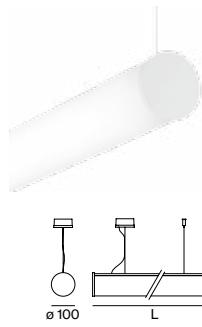
MATERIAL COLOUR
white 7

7

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ↕
DIM DALI 3

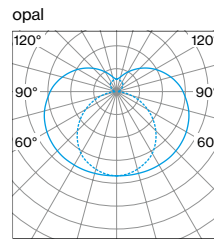


TUBO 100 suspended



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
28 W	3000 K 4000 K	3390 lm 3600 lm	877	0 5 8 - 1 2 3 3 ⋮ 7 O
37 W	3000 K 4000 K	4520 lm 4800 lm	1177	0 5 8 - 1 2 3 4 ⋮ 7 O
47 W	3000 K 4000 K	5650 lm 6000 lm	1477	0 5 8 - 1 2 3 5 ⋮ 7 O
75 W	3000 K 4000 K	9040 lm 9600 lm	2347	0 5 8 - 1 2 3 8 ⋮ 7 O

LIGHT DISTRIBUTION



direct

Inspiration

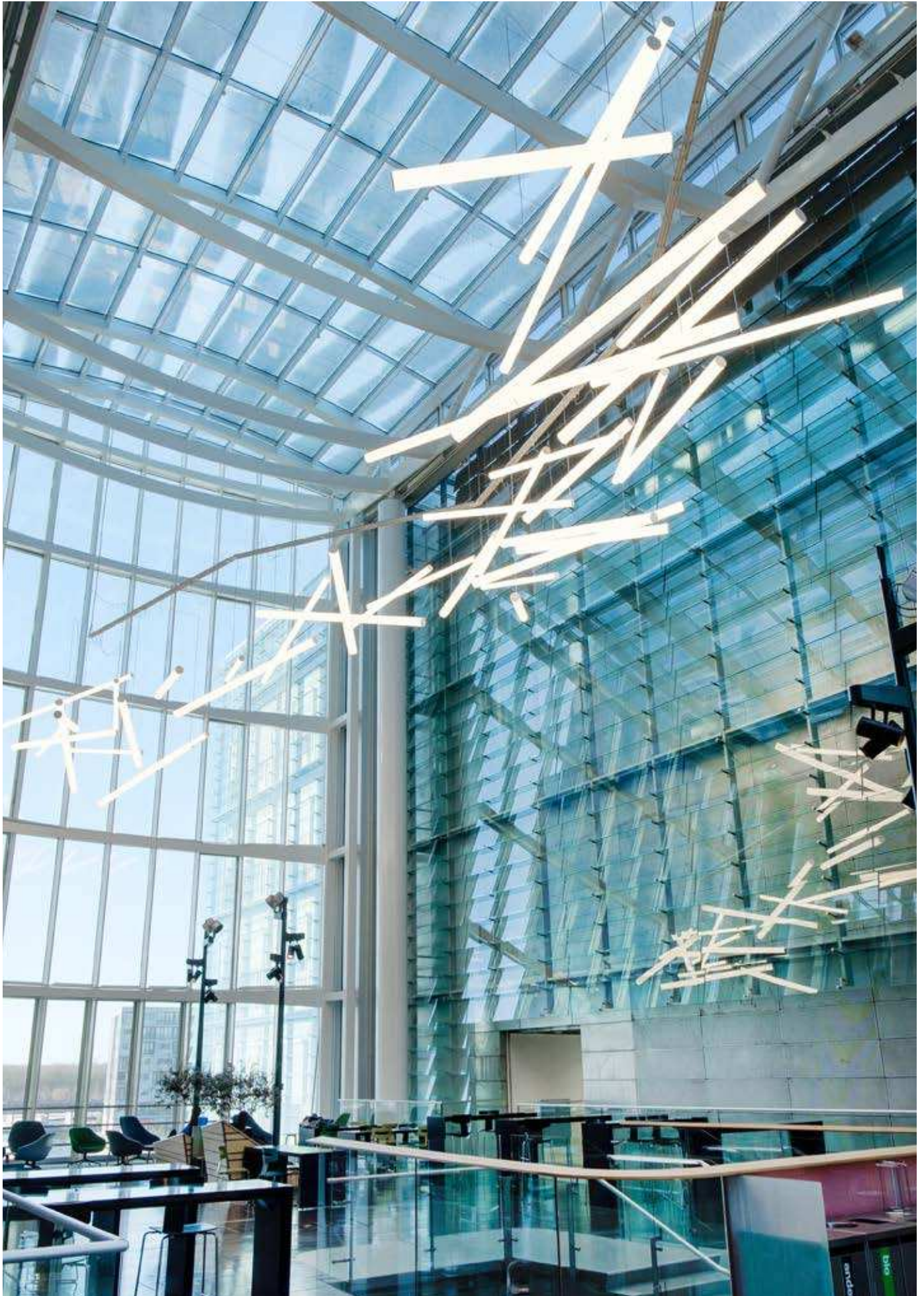
DR Byen
Kopenhagen, Denmark

ARCHITECT
Vilhelm Lauritzen Arkitekter
Kopenhagen, Denmark

LIGHTING DESIGN
Willerup&Heinsvig
Kopenhagen, Denmark

PRODUCT
TUBO 100 suspended

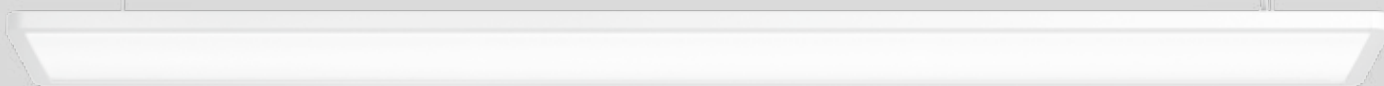




TASK S

suspended

xal.com/task



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 126lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

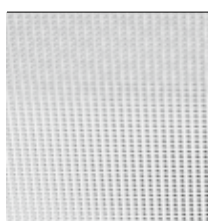
DE Rechteckiger Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; optional: Indirektlichtanteil mit eigenen Platinen für erhöhten Lichtstrom und maximale Deckenaufhellung; mikroprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbare mit CLO-Funktion; optional nicht dimmbar

EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface white powder coated; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools on the luminaire; incl. transparent feed; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; light control via highly reflective reflector material; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; microprismatic PMMA cover, completely homogeneous illumination using a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



flat design (15 mm)



microprismatic
(UGR < 19)

TASK system
suspended
[page 550](#)



Standard configuration

COLOUR TEMPERATURE ⚡
4000K 6

CONTROL ↕
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

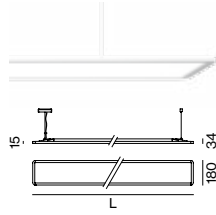
COLOUR TEMPERATURE ⚡
3000K 5

CONTROL ↕
non DIM 1

Options on request

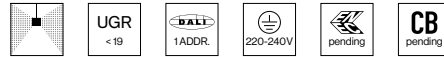
COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL
daylight & movement sensor



TASK S suspended

DIRECT / INDIRECT SOFT



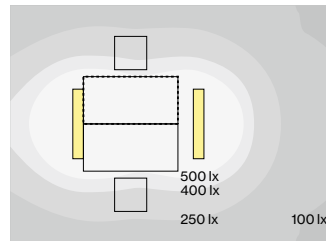
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
23W	3000K	↓ 2300/± 430 lm	1180	0 5 9 - 5 2 5 4 ⚡ 7 P
	4000K	↓ 2450/± 450 lm		
35W	3000K	↓ 3450/± 640 lm	1748	0 5 9 - 5 2 5 6 ⚡ 7 P
	4000K	↓ 3670/± 680 lm		
46W	3000K	↓ 4600/± 850 lm	2315	0 5 9 - 5 2 5 8 ⚡ 7 P
	4000K	↓ 4890/± 910 lm		

DIRECT / INDIRECT POWER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
54W	3000K	↓ 3770/± 2430 lm	1180	0 5 9 - 5 2 6 4 ⚡ 7 P
	4000K	↓ 4010/± 2580 lm		
81W	3000K	↓ 5650/± 3640 lm	1748	0 5 9 - 5 2 6 6 ⚡ 7 P
	4000K	↓ 6010/± 3870 lm		
102W	3000K	↓ 7540/± 4860 lm	2315	0 5 9 - 5 2 6 8 ⚡ 7 P
	4000K	↓ 8010/± 5160 lm		

Technical data



TASK S suspended
54W, 4000K, direct/indirect power

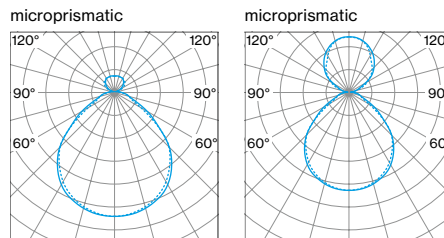
ROOM VALUES
Room dimensions 5.4 × 4 × 2.8m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8
Suspension height 2.25m

CALCULATION SURFACE
Surface dimensions 1.6 × 0.8m
Surface height 0.75m
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6



GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²

LIGHT DISTRIBUTION



direct/indirect soft

direct/indirect power

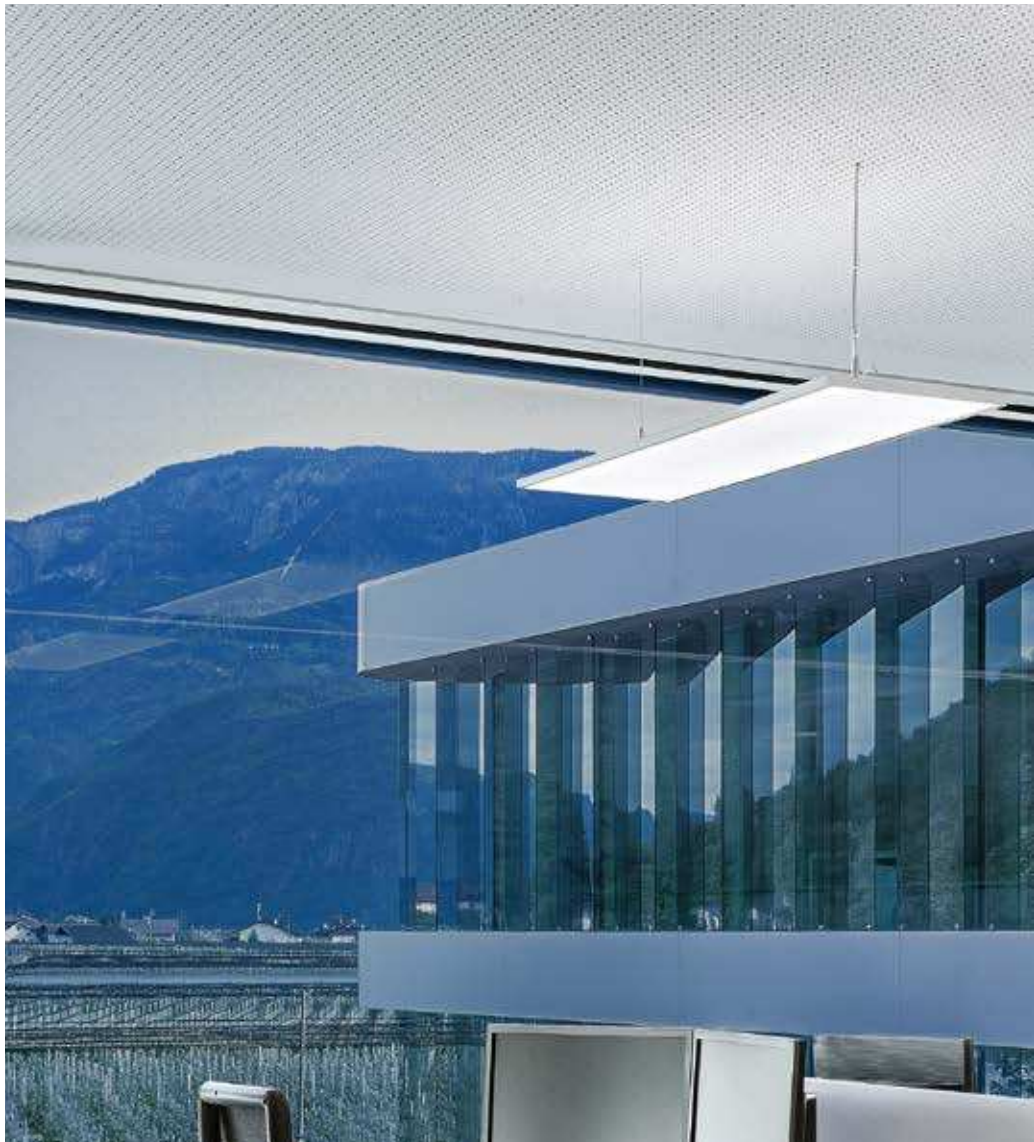
Inspiration

Dr. Schaer
Burgstall, Italy

ARCHITECT
monovolume architecture+design
Bolzano, Italy

LIGHTING DESIGN
VON LUTZ - electrical and lighting projects
Bolzano, Italy
Eurolicht, Roland Fischnaller
Bolzano, Italy

PRODUCT
TASK S suspended

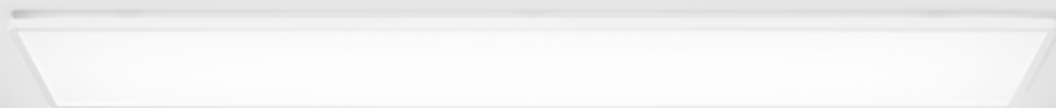




TASK

surface

xal.com/task



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 112lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

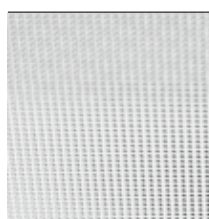
DE Rechteckiger Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Oberfläche weiß pulverbeschichtet; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; mit einem Direktanteil von 88 % und einen Indirektanteil von 12 %; mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface white powder coated; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; with 88 % direct and 12 % indirect component; microprismatic PMMA cover; completely homogeneous illumination; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



flat design (15 mm)



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

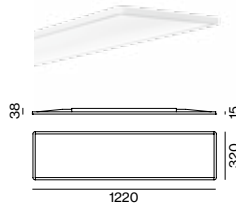
COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
non DIM 1

Options on request

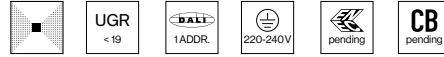
COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL
daylight & movement sensor

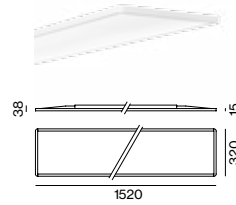


TASK 1200 surface

DIRECT / INDIRECT SOFT

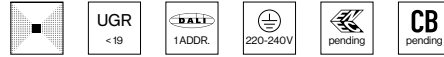


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
56W	3000K	↓ 5110 / ↑ 680lm	0 5 9 - 2 1 3 4 ⋮ 7 P
	4000K	↓ 5420 / ↑ 720lm	



TASK 1500 surface

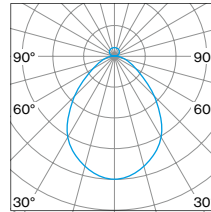
DIRECT / INDIRECT SOFT



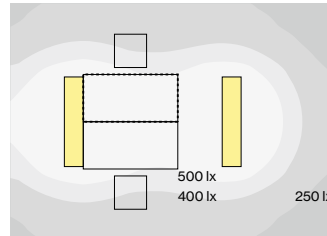
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
69W	3000K	↓ 6430 / ↑ 860lm	0 5 9 - 2 1 3 5 ⋮ 7 P
	4000K	↓ 6830 / ↑ 910lm	

LIGHT DISTRIBUTION

microprismatic



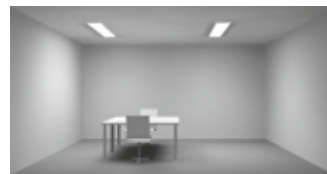
Technical data



TASK 1500 surface, 4000K, 69W
direct/indirect soft

ROOM VALUES
Room dimensions 5.4 × 4 × 2.8m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE
Surface dimensions 1.6 × 0.8m
Surface height 0.75m
Average illuminance (E_m) > 500 lx
Uniformity (U_o) > 0.6



GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²

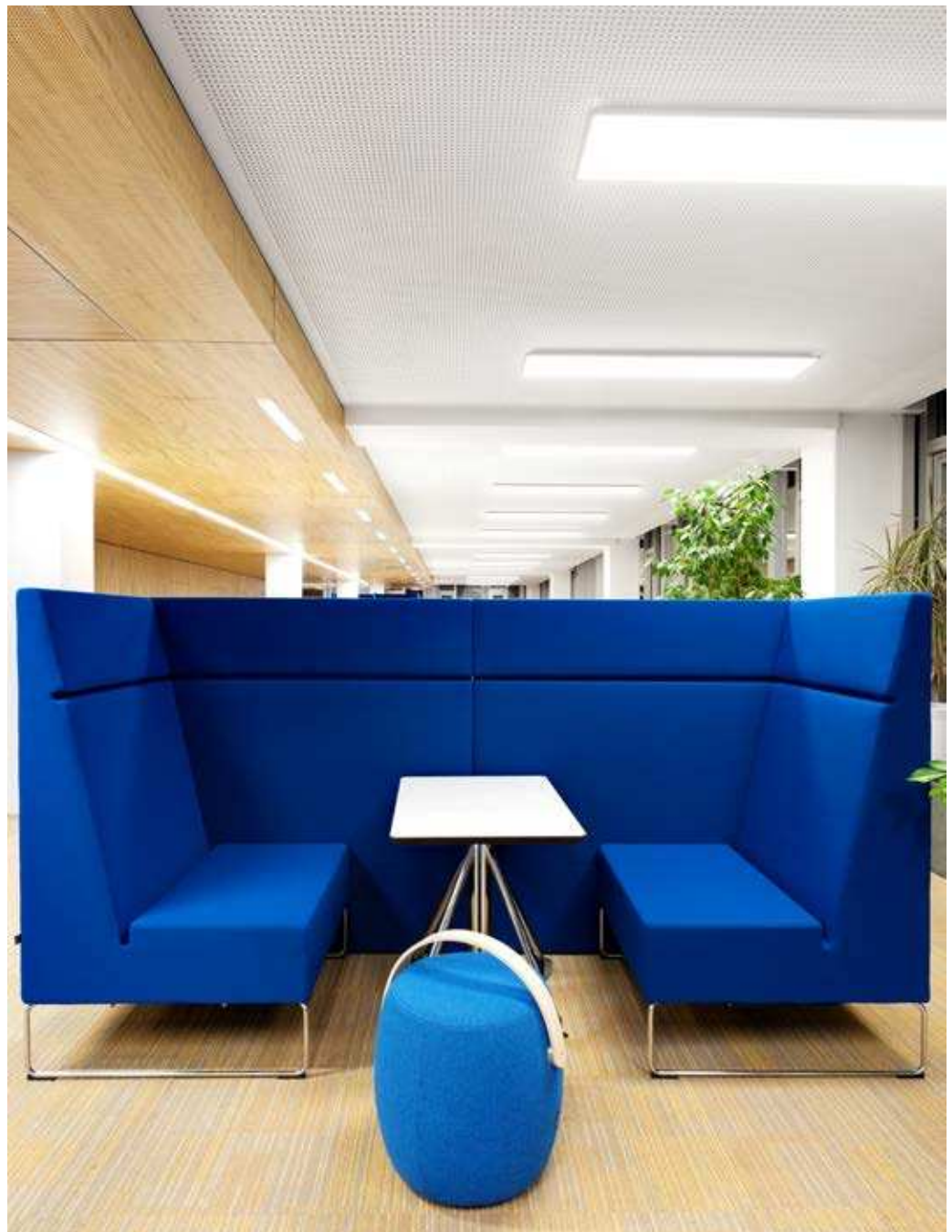
Inspiration

Münchner Rückversicherung
Munich, Germany

PRODUCT
TASK surface

ARCHITECT
Scholz - Sorger
Architekten Partnerschaft mbB
Munich, Germany

LIGHTING DESIGN
Lumen³ GbR
Munich, Germany





TASK

suspended

xal.com/task



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 118lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

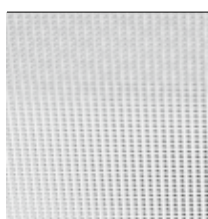
DE Rechteckiger Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeiseleitung; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; mit einem Direktanteil von 57 % und einen Indirektanteil von 43 %; mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbare mit CLO-Funktion; optional nicht dimmbar

EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface white powder coated; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools; incl. transparent feed; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; with 57 % direct and 43 % indirect component; microprismatic PMMA cover; completely homogeneous illumination; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



flat design (15 mm)



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE ⋮
4000 K 6

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

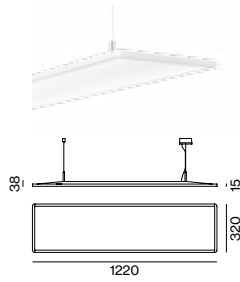
COLOUR TEMPERATURE ⋮
3000 K 5

CONTROL ⬆
non DIM 1

Options on request

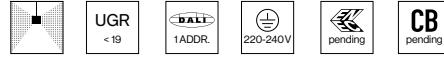
COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL
daylight & movement sensor

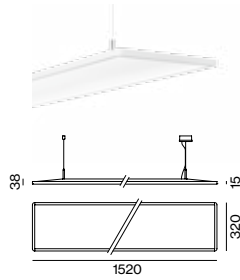


TASK 1200 suspended

DIRECT / INDIRECT SOFT

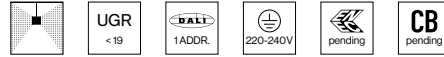


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
56 W	3000 K	↓ 3490 / ↑ 2610 lm	0 5 9 - 2 2 3 4 ⋮ 7 P
	4000 K	↓ 3700 / ↑ 2780 lm	



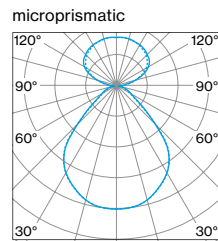
TASK 1500 suspended

DIRECT / INDIRECT SOFT

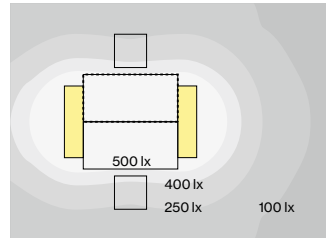


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
69 W	3000 K	↓ 4390 / ↑ 3290 lm	0 5 9 - 2 2 3 5 ⋮ 7 P
	4000 K	↓ 4660 / ↑ 3500 lm	

LIGHT DISTRIBUTION



Technical data



TASK 1200 suspended, 4000 K
direct/indirect soft

ROOM VALUES

Room dimensions	5,4 × 4 × 2,8 m
Reflection factor	0,7 0,5 0,2
Maintenance factor	0,8
Suspension height	2,25 m

CALCULATION SURFACE

Surface dimensions	1,6 × 0,8 m
Surface height	0,75 m
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0,6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	

Inspiration

Highlight Towers
Munich, Germany

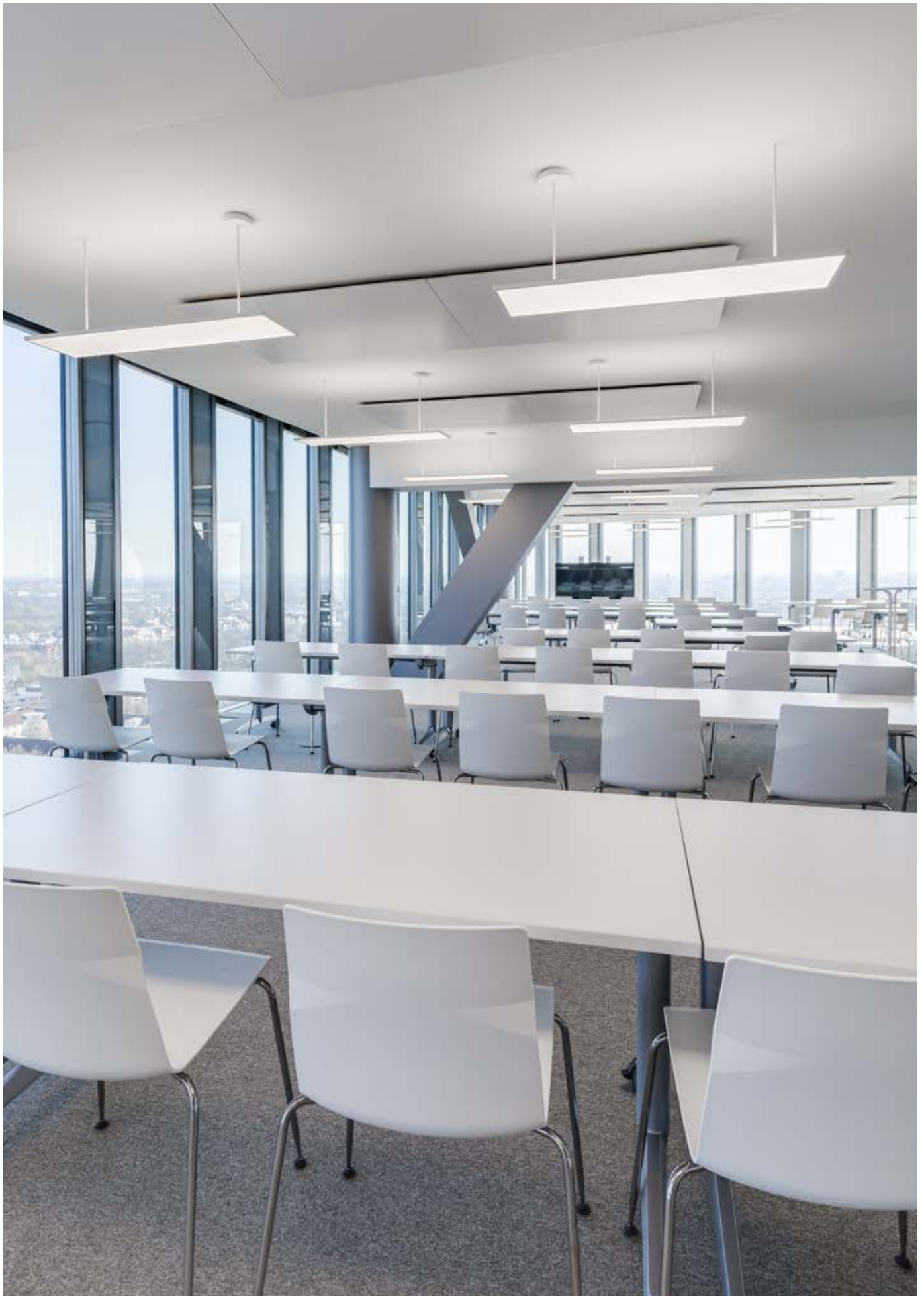
LIGHTING DESIGN

Lumen³ GbR
Munich, Germany

PRODUCT

TASK suspended





Inspiration

BGE
Budapest, Hungary

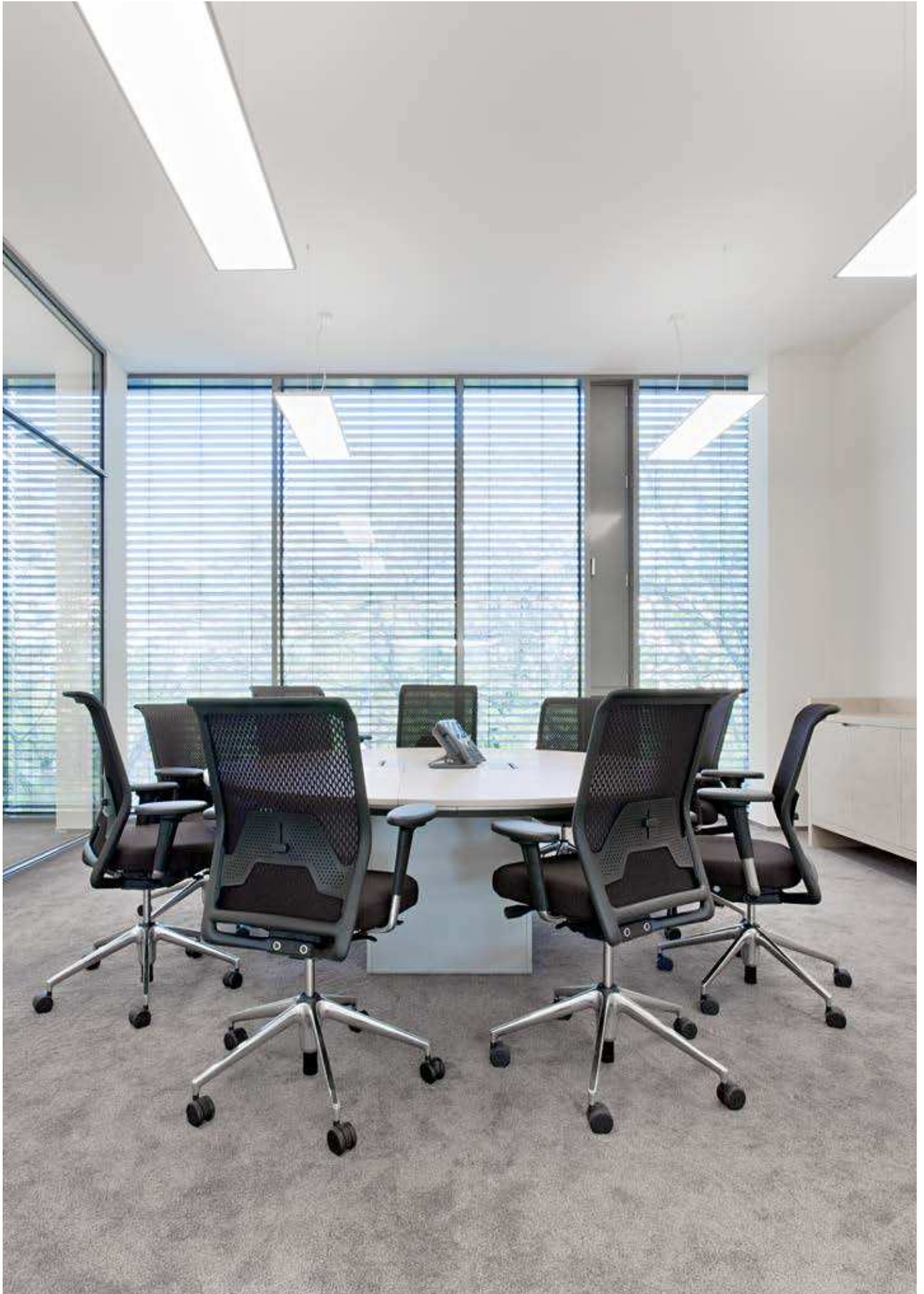
LIGHTING DESIGN
Solinfo, Zoltan Orban
Budapest, Hungary

ARCHITECT
Nartarchitects, Csaba Kovacs
Budapest, Hungary

PRODUCT
TASK suspended

INTERIOR ARCHITECT
Nartarchitects, Laszlo Vitaris
Budapest, Hungary

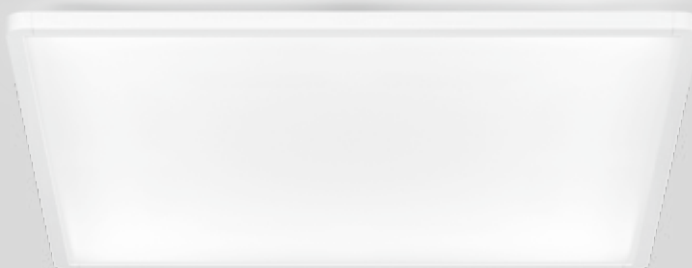




TASK

square surface

xal.com/task



Quickinfo

GENERAL

surface mounted

IP20

quick installation

LED

Mid-power LED

up to 133lm/W

3000K, 4000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct illumination

microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO

PHYSICAL

aluminium

powder-coated

halogen-free cable

Description

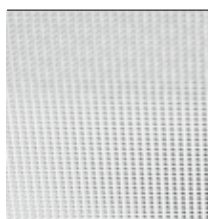
DE Quadratischer Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Oberfläche weiß pulverbeschichtet; komfortables, werkzeugloses Schnellmontagesystem; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; mikroprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) für □450 mm und □600 mm; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbare mit CLO-Funktion; optional nicht dimmbar

EN Square housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface white powder coated; convenient quick mounting system without tools; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; microprismatic PMMA cover, completely homogeneous illumination using a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) for □450 mm und □600 mm; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

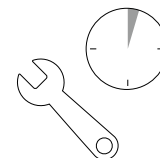
Features



flat design (15 mm)



microprismatic
(UGR < 19)



quick installation

Standard configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

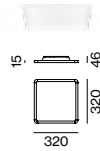
Extended configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
non DIM 1

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

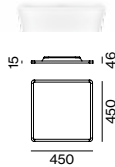


TASK 320 square surface

DIRECT

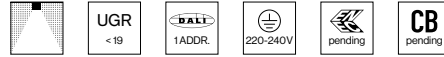


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	1320lm	0 5 9 - 2 1 1 0 ⬢⬢ 7 P
	4000K	1400lm	

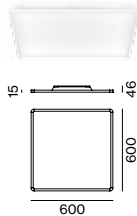


TASK 450 square surface

DIRECT

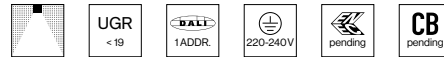


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15W e	3000K	1920lm	0 5 9 - 2 1 1 1 ⬢⬢ 7 P
	4000K	2040lm	
18W e ²	3000K	2210lm	0 5 9 - 2 1 4 1 ⬢⬢ 7 P
	4000K	2350lm	



TASK 600 square surface

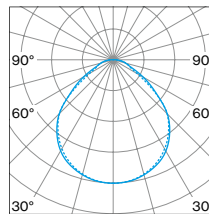
DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28W e	3000K	3510lm	0 5 9 - 2 1 1 2 ⬢⬢ 7 P
	4000K	3730lm	
34W e ²	3000K	4090lm	0 5 9 - 2 1 4 2 ⬢⬢ 7 P
	4000K	4350lm	

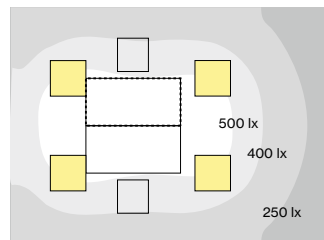
LIGHT DISTRIBUTION

microprismatic



direct

Technical data



TASK 600 square surface, 28W, 4000K

ROOM VALUES

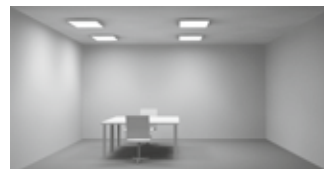
Room dimensions	5.4×4×2.8m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1.6×0.8m
Surface height	0.75m
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	



Inspiration

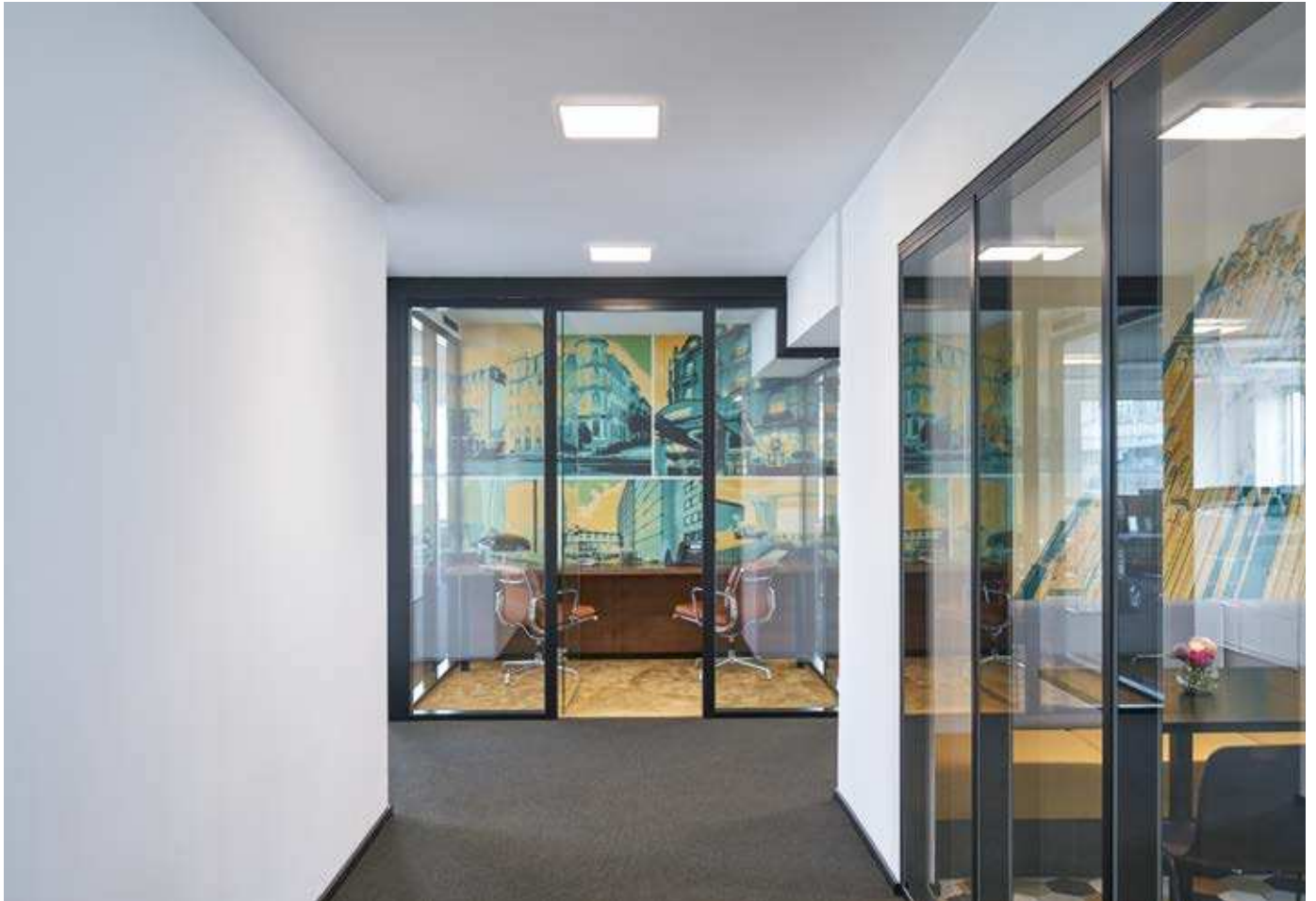
Art Invest headquarters
Cologne, Germany

ARCHITECT
Lepel & Lepel Architektur
Cologne, Germany

LIGHTING DESIGN
Volker von Kardorff
Berlin, Germany

PRODUCT
TASK square surface

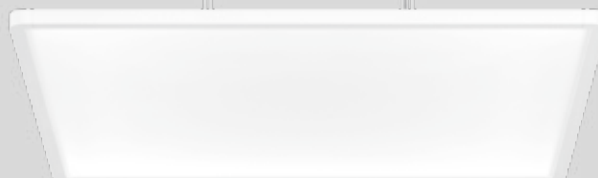




TASK

square suspended

xal.com/task



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 133lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

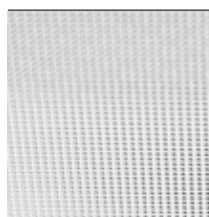
DE Quadratischer Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung (4 Seile); werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; optional: Indirektlichtanteil mit eigenen Platinen für erhöhten Lichtstrom und maximale Deckenaufhellung; mikroprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Square housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface white powder coated; Suspended luminaire with 1500 mm cable suspension (4 cables); height adjustment without tools on the luminaire; incl. transparent feed; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; microprismatic PMMA cover, completely homogeneous illumination using a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



flat design (15 mm)



microprismatic
(UGR < 19)

Standard configuration

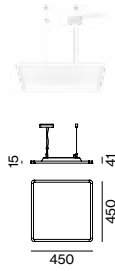
COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P



TASK 450 square suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15W	3000K 4000K	1920lm 2040lm	0 5 9 - 2 2 1 1 ⋮ 7 P

DIRECT / INDIRECT POWER



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
36W	3000K 4000K	↓ 2950 / ↑ 1540lm ↓ 3130 / ↑ 1640lm	0 5 9 - 2 2 3 1 ⋮ 7 P

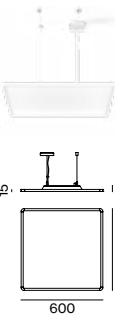
Extended configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
non DIM 1

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



TASK 600 square suspended

DIRECT



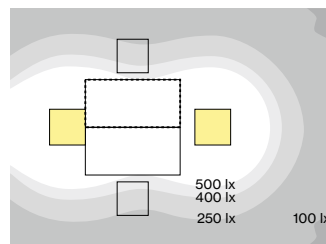
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28W	3000K 4000K	3510lm 3730lm	0 5 9 - 2 2 1 2 ⋮ 7 P

DIRECT / INDIRECT POWER



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
58W	3000K 4000K	↓ 5360 / ↑ 1650lm ↓ 5690 / ↑ 1750lm	0 5 9 - 2 2 3 2 ⋮ 7 P

Technical data



TASK 600 square suspended
58W, 4000K, direct/indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6

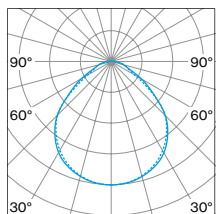


GLARE EVALUATION

Table Classification	X=4H Y=8H S=0.25H
UGR transversal	< 19
UGR axial	< 19
	65° < 3000 cd/m ²

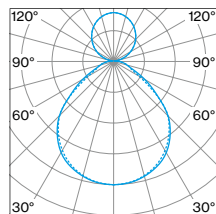
LIGHT DISTRIBUTION TASK 450

microprismatic



direct

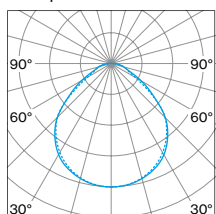
microprismatic



direct/indirect power

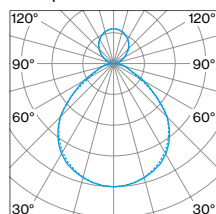
LIGHT DISTRIBUTION TASK 600

microprismatic



direct

microprismatic



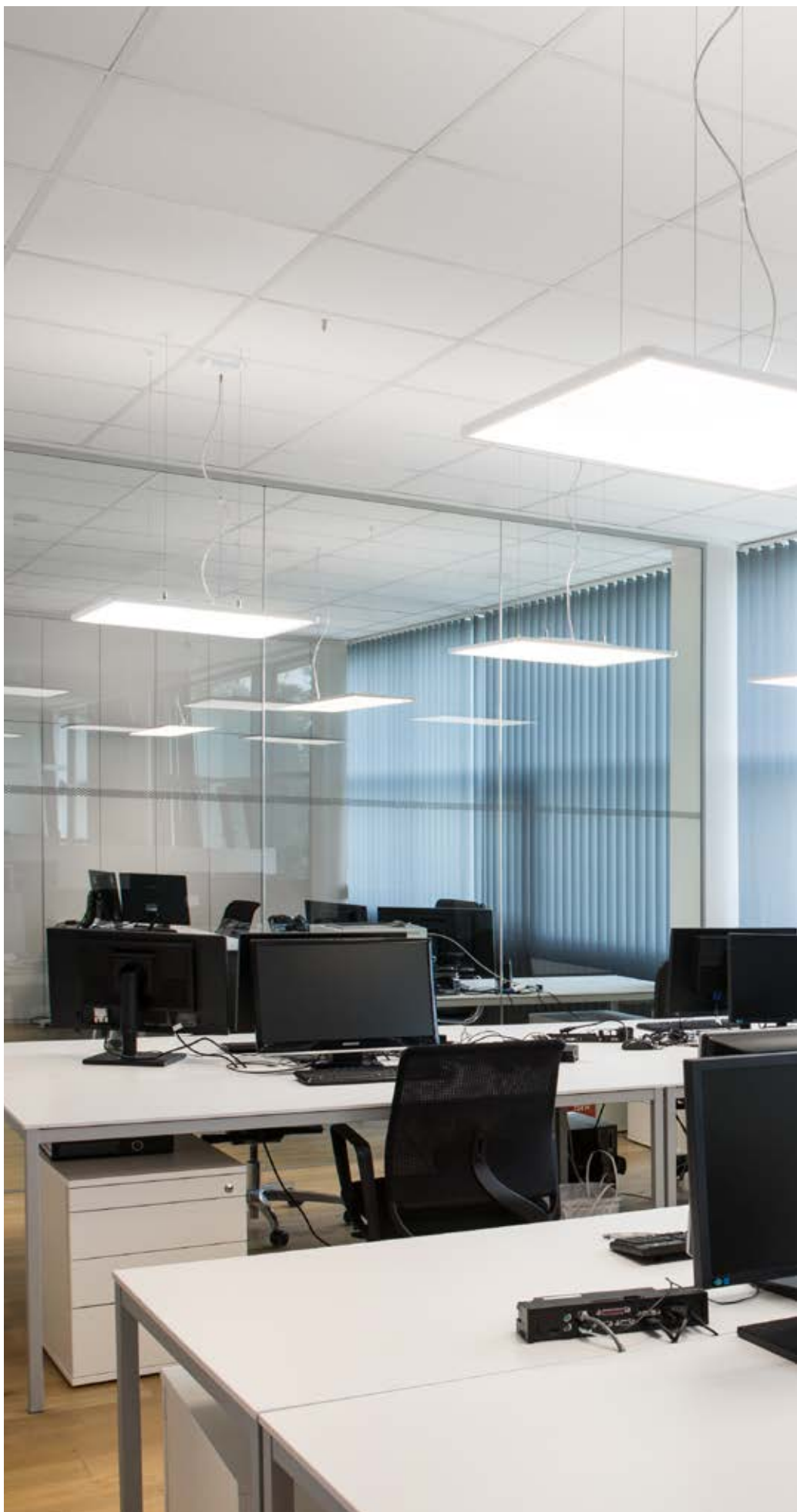
direct/indirect power

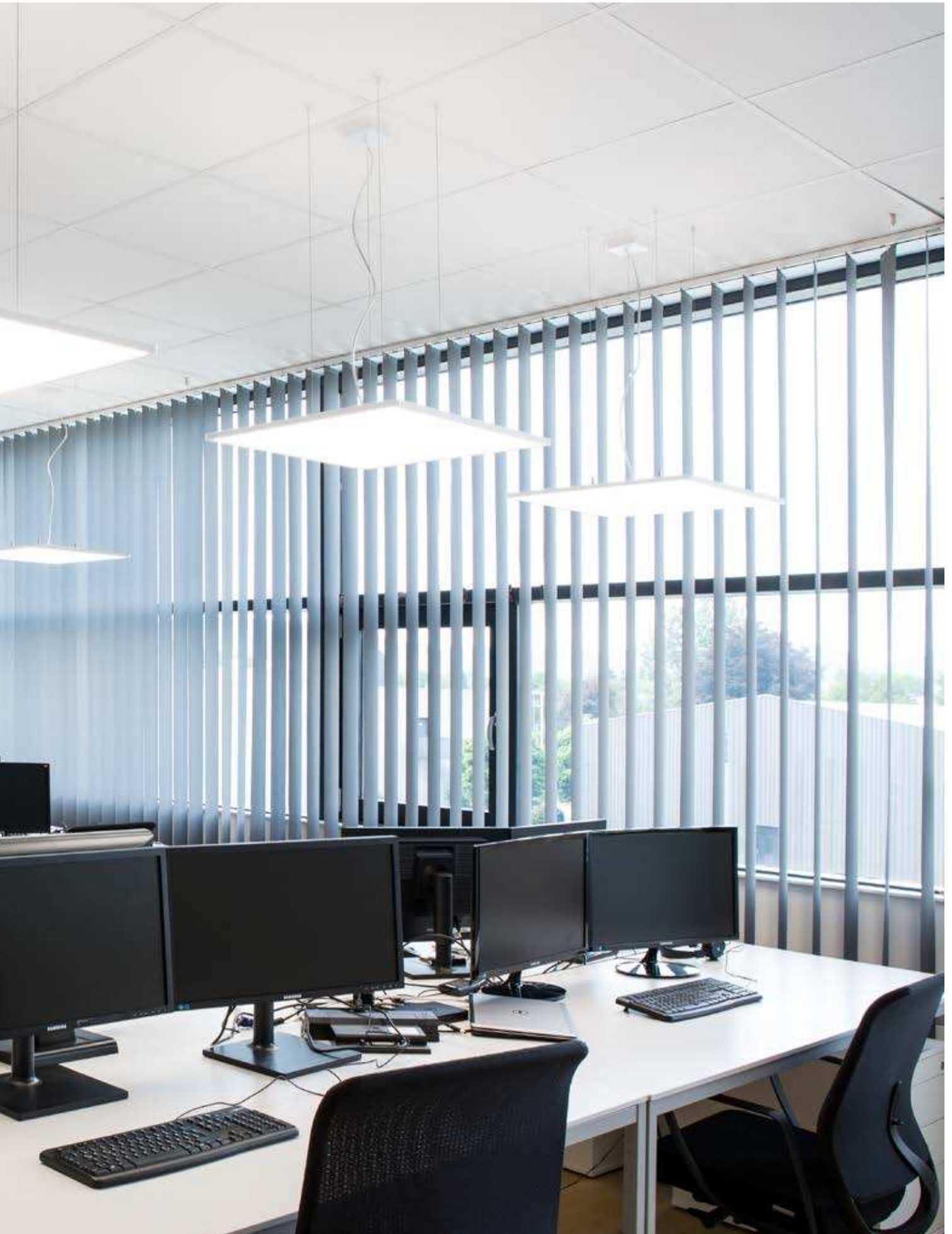
Inspiration

XAL headquarters
Graz, Austria

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

PRODUCT
TASK square suspended



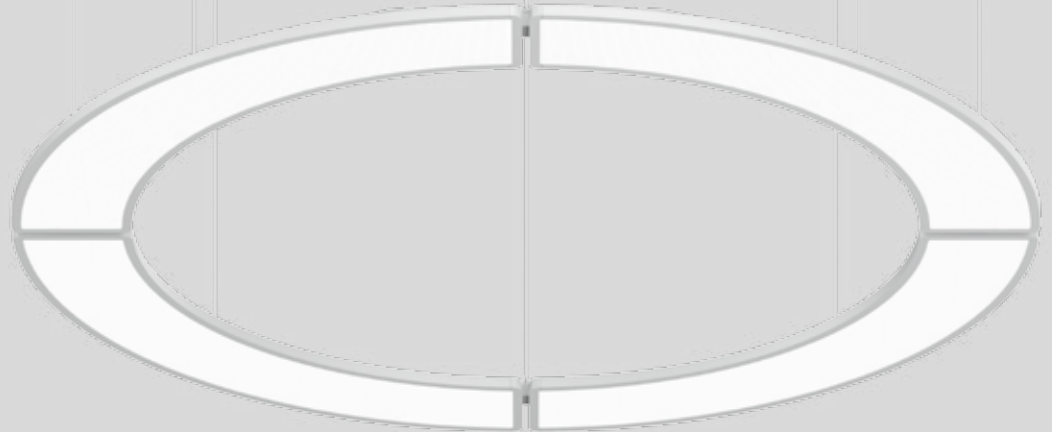


TASK

circle

suspended

xal.com/task



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 133lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

DIM DALI/CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

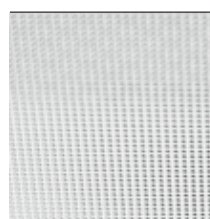
DE Ringförmige Pendelleuchte, bestehend aus einzelnen Elementen in Viertelring- bzw. Rechteck-Form; Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeiseleitung; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbare mit CLO-Funktion; optional nicht dimmbar

EN Ring-shaped suspended luminaire, consisting of single elements in quarter circle or rectangular shape; luminaire housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface white powder coated; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools; incl. transparent feed; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; microprismatic PMMA cover; completely homogeneous illumination; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



flat design (15 mm)



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE
4000 K 6

CONTROL
DIM DALI / CLO 3

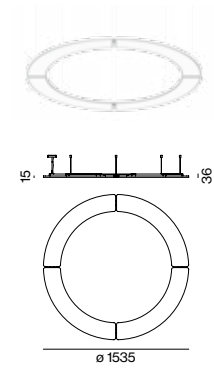
MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
microprismatic (UGR < 19) P

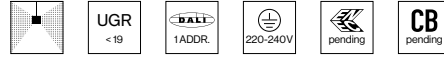
Options on request

FORM
other configurations on page 550

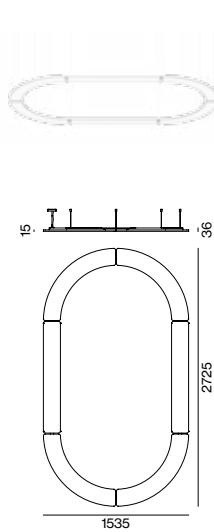


TASK circle suspended

DIRECT / INDIRECT POWER

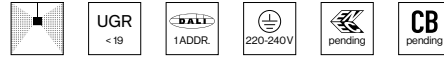


SYS. POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
216 W	3000 K	↓ 15080 / ± 9720 lm	0 5 9 - 5 2 8 1 6 3 7 P
	4000 K	↓ 16040 / ± 10320 lm	



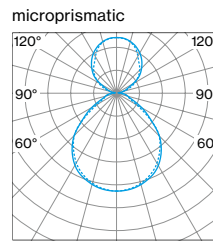
TASK long circle suspended

DIRECT / INDIRECT POWER



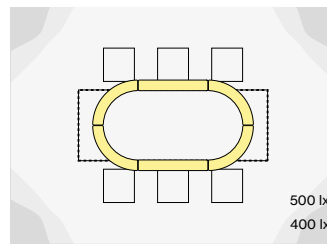
SYS. POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
324 W	3000 K	↓ 22620 / ± 14580 lm	0 5 9 - 5 2 8 2 6 3 7 P
	4000 K	↓ 24060 / ± 15480 lm	

LIGHT DISTRIBUTION



direct/indirect power

Technical data



TASK long circle, 324 W, 4000 K,
direct/indirect power

ROOM VALUES

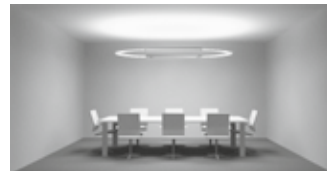
Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE

Surface dimensions	3.2 × 1.2 m
Surface height	0.75 m
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6

GLARE EVALUATION

Table Classification	X=4H Y=8H S=0.25H
UGR transversal	< 19
UGR axial	< 19
	65° < 3000 cd/m ²



Inspiration

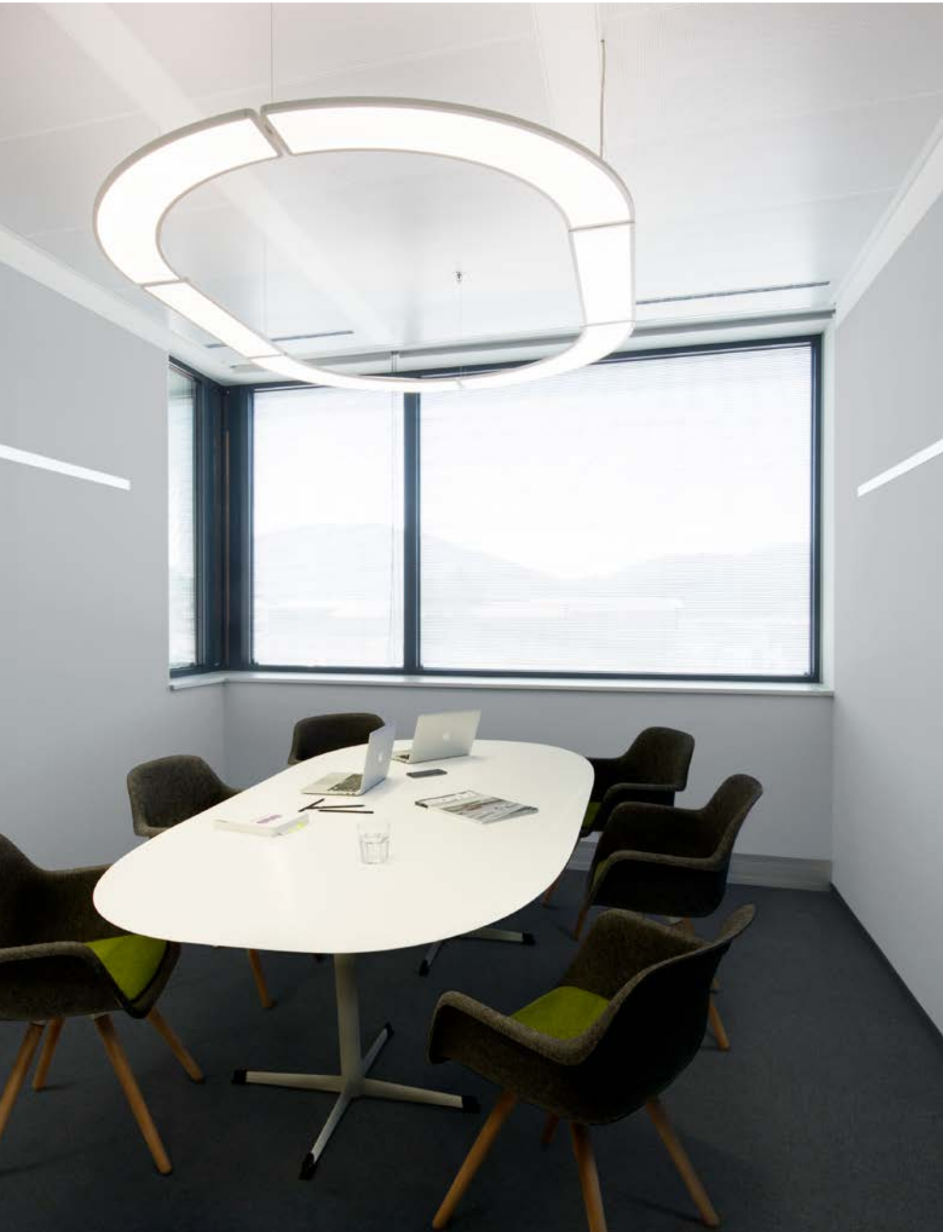
Andritz AG headquarters
Graz, Austria

ARCHITECT
Nussmüller Architekten ZT GmbH
Graz, Austria

LIGHTING DESIGN
TBH Ingenieur GmbH
Graz, Austria

PRODUCT
TASK long circle suspended





TASK

angular suspended

xal.com/task



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 133lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI/CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

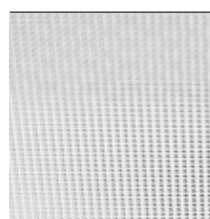
DE Rechteckige Pendelleuchte, bestehend aus einzelnen L-förmigen bzw. rechteckigen Elementen; Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Oberfläche weiß pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung; inkl. transparenter Einspeiseleitung; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbare mit CLO-Funktion; optional nicht dimmbar

EN Rectangular suspended luminaire, consisting of single L-shaped or rectangular elements; luminaire housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface white powder coated; Suspended luminaire with 1500 mm cable suspension; height adjustment without tools; incl. transparent feed; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; microprismatic PMMA cover; completely homogeneous illumination; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



flat design (15 mm)



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE
4000 K 6

CONTROL
DIM DALI / CLO 3

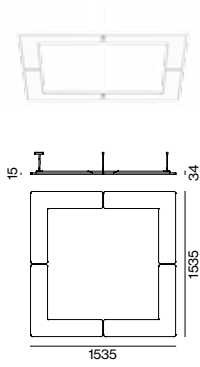
MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Options on request

FORM
other configurations on page 550

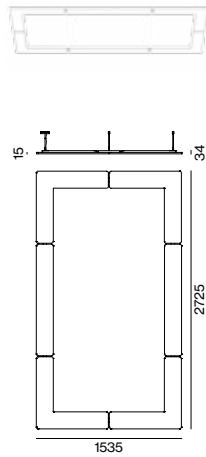


TASK angular suspended

DIRECT / INDIRECT POWER

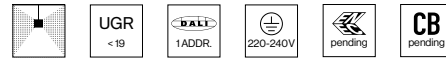


SYS. POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
252 W	3000 K	↓ 17600 / ↑ 11320 lm	0 5 9 - 5 2 8 3 6 3 7 P
	4000 K	↓ 18680 / ↑ 12040 lm	



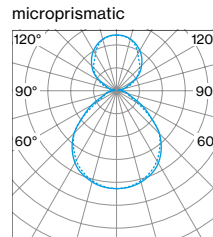
TASK long angular suspended

DIRECT / INDIRECT POWER



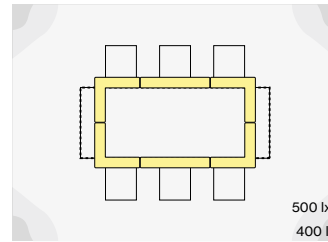
SYS. POWER	COLOUR TEMP.	LUM. FLUX	ORDER CODE
360 W	3000 K	↓ 25140 / ↑ 16180 lm	0 5 9 - 5 2 8 4 6 3 7 P
	4000 K	↓ 26700 / ↑ 17200 lm	

LIGHT DISTRIBUTION



direct / indirect power

Technical data



TASK long angular, 360 W, 4000 K, direct/indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE

Surface dimensions	3.2 × 1.2 m
Surface height	0.75 m
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0.6



GLARE EVALUATION

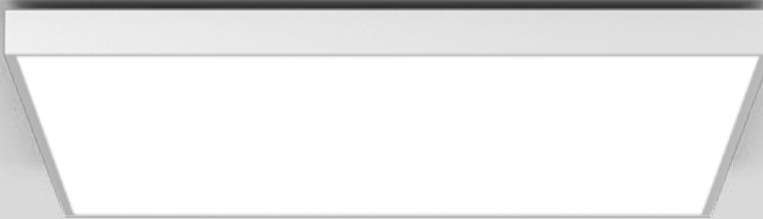
Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	

FLOW EVO

surface

xal.com/flow-evo



Quickinfo

GENERAL

surface mounted
IP 40

LED

Mid-power LED
up to 134lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Quadratischer Leuchtenkörper aus Aluminium, flache Bauform (Leuchtenkörper 35 mm); Oberfläche weiß, grau oder schwarz pulverbeschichtet; geeignet für Wand- oder Deckenmontage, Leuchtenkörper 11 mm von Wand bzw. Decke abgesetzt; komfortables, werkzeugloses Schnellmontagesystem; direkte Lichtverteilung durch LGP-Body (Light Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP 40; SK I; optional DALI-dimmbare mit CLO-Funktion

EN Square aluminium luminaire housing, flat design (luminaire housing 35 mm); surface powder coated in white, grey or black; suitable for wall or ceiling mounting, luminaire housing set 11 mm away from wall or ceiling; convenient quick mounting system without tools; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP 40; PC I; optional DALI dimmable with CLO function

Features



protection / IP 40



easy mounting by
click-mechanism



only two modules



wall mounting

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
non DIM 1

MATERIAL COLOUR 
white 7

7

LIGHT OPTIC COVER
opal 0

Extended configuration

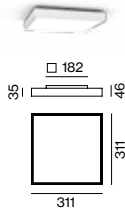
COLOUR TEMPERATURE 
4000K 6

CONTROL 
DIM DALI / CLO 3

MATERIAL COLOUR 
grey G
black 8

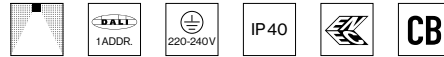
G 8




+5% surcharges

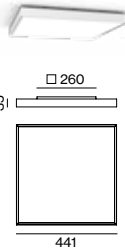


FLOW EVO 320 surface

DIRECT

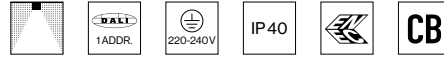





SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	3000 K	1970 lm	0 7 3 - 0 1 3 1    O
	4000 K	2090 lm	

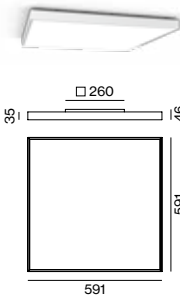


FLOW EVO 450 surface

DIRECT






SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W	3000 K	3070 lm	0 7 3 - 0 1 4 1    O
	4000 K	3270 lm	



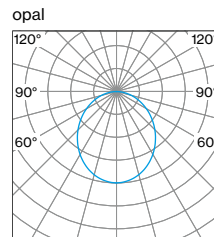
FLOW EVO 600 surface

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44 W	3000 K	5580 lm	0 7 3 - 0 1 5 1    O
	4000 K	5930 lm	

LIGHT DISTRIBUTION



direct

Accessories

TYPE	ORDER CODE
dismounting tool	0 7 3 - 0 1 0 0 0 0

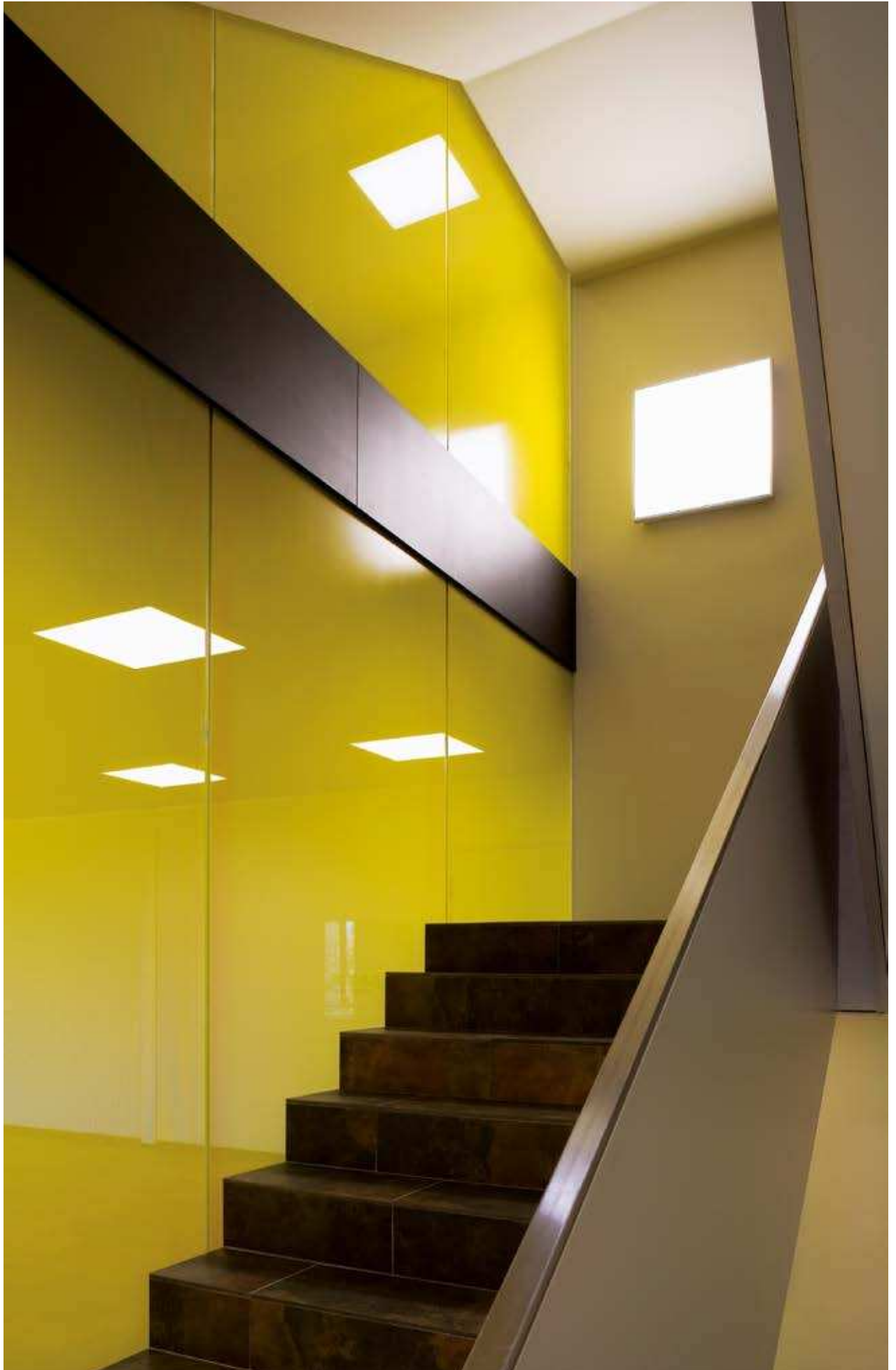
Inspiration

Businesscenter
Wels, Austria

ARCHITECT
Riepl / Riepl
Linz, Austria

PRODUCT
FLOW EVO surface

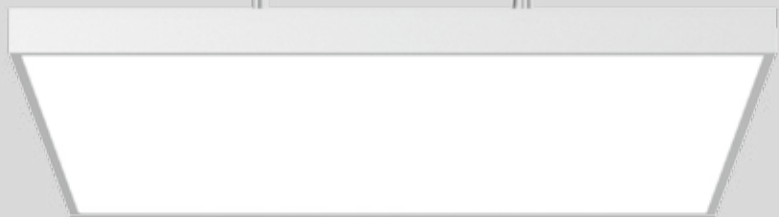




FLOW EVO

suspended

xal.com/flow-evo



Quickinfo

GENERAL

suspended
IP 40
several mounting options available

LED

Mid-power LED
up to 134lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct, direct/indirect illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

Description

DE Quadratischer Leuchtenkörper aus Aluminium, flache Bauform (Leuchtenkörper 35mm); Oberfläche weiß, grau oder schwarz pulverbeschichtet; Pendelleuchte mit 1500mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; optional: Indirektlichtanteil mit eigenen Platinen für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP40; SK I; optional DALI-dimmbar mit CLO-Funktion

EN Square aluminium luminaire housing, flat design (luminaire housing 35mm); surface powder coated in white, grey or black; Suspended luminaire with 1500mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; optionally: Indirect light ratio with special circuit boards for additional emphasis of the ceiling and more visual comfort; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP40; PC I; optional DALI dimmable with CLO function

Features



protection / IP 40



direct/indirect light distribution

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
non DIM 1

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER
opal O

Extended configuration

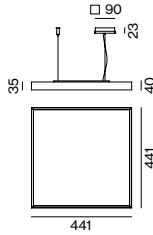
COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR ▣
grey G
black 8

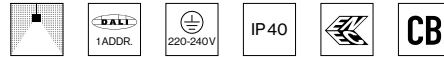


+5% surcharges



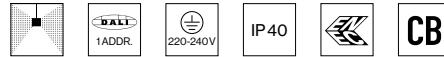
FLOW EVO 450 suspended

DIRECT



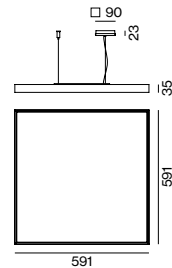
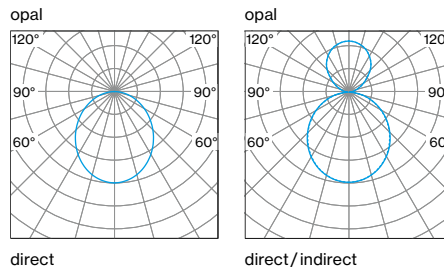
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24 W	3000 K	3070 lm	0 7 3 - 0 2 4 1 ⋮ ▣ ▣ O
	4000 K	3270 lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
36 W	3000 K	↓ 3070 / ↑ 1510 lm	0 7 3 - 0 2 4 4 ⋮ ▣ ▣ O
	4000 K	↓ 3270 / ↑ 1610 lm	

LIGHT DISTRIBUTION



FLOW EVO 600 suspended

DIRECT



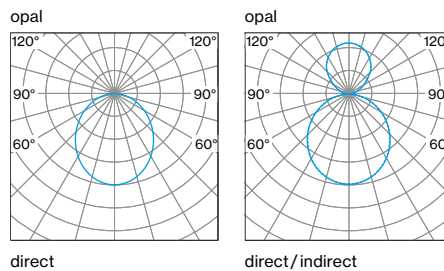
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44 W	3000 K	5580 lm	0 7 3 - 0 2 5 1 ⋮ ▣ ▣ O
	4000 K	5930 lm	

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
58 W	3000 K	↓ 5580 / ↑ 1620 lm	0 7 3 - 0 2 5 4 ⋮ ▣ ▣ O
	4000 K	↓ 5930 / ↑ 1720 lm	

LIGHT DISTRIBUTION



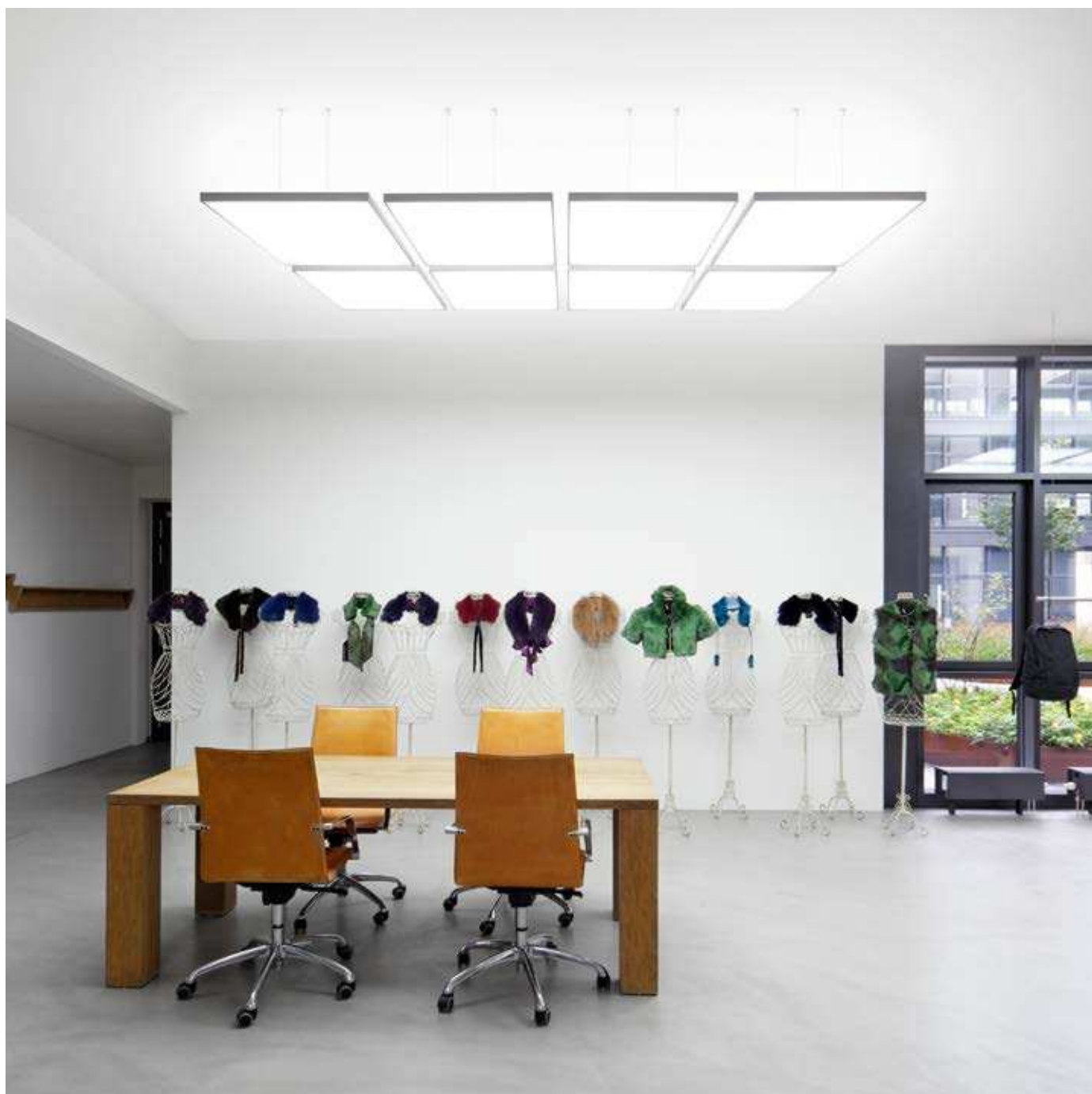
Inspiration

Parkstadt Office Center
Munich, Germany

PRODUCT
FLOW EVO suspended

ARCHITECT
SAI Scheller Architekten Ingenieure
Munich, Germany

LIGHTING DESIGN
Laborette Interior Design
Munich, Germany





HEX-O surface

xal.com/hex-o



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 134lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

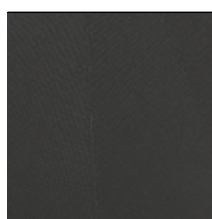
aluminium
powder-coated
acoustically effective
halogen-free cable

Description

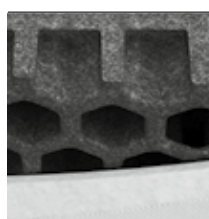
DE Sechseckiger Leuchtenkörper aus Aluminiumstrangpressprofil, nahtlos verschweißt; Oberfläche weiß oder schwarz pulverbeschichtet; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; satinierte oder mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar; schallreduzierendes Zubehör erhältlich: Akustikmodul und Absorber (geeignet zur Aufnahme von HEX-O Leuchte, Akustikmodul oder Akustik Plate) aus expandiertem Polystyrol (EPS); Akustik Plate in Leuchtenoptik mit Lochblechabdeckung

EN Hexagonal light housing from aluminium extruded profile, seamlessly welded; surface powder coated in white or black; highly reflective coating for improved efficiency; satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); cover removable without tools for easy maintenance; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable; noise reducing accessories available: acoustic module and absorber (suitable for installing of HEX-O luminaire, acoustic module or acoustic panel) in expanded polystyrene (EPS); acoustic panel in luminaire effect with perforated cover plate

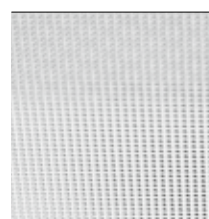
Features



one piece absorber,
available in 2 colours



patented honeycomb
structure



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL
DIM DALI / CLO 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
opal 0

Extended configuration

COLOUR TEMPERATURE
4000K 6

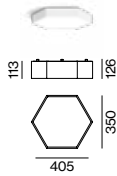
CONTROL
non DIM 1

MATERIAL COLOUR
black 8

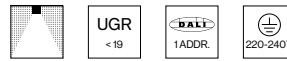
8

+5% surcharges

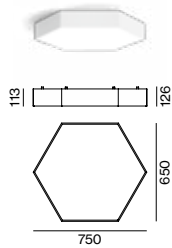
LIGHT OPTIC COVER
microprismatic (UGR < 19) P



HEX-O 350 surface



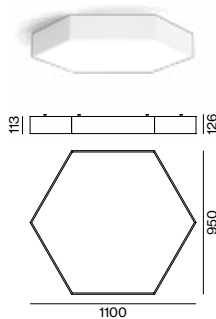
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10W	3000K	1120lm	0 7 2 - 8 1 3 6 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	4000K	1190lm	



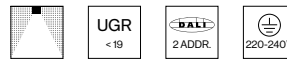
HEX-O 650 surface



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
39W	3000K	4710lm	0 7 2 - 8 1 6 6 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	4000K	5010lm	

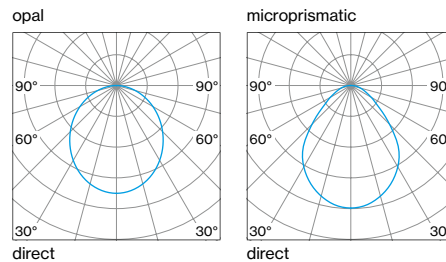


HEX-O 950 surface



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
85W	3000K	10220lm	0 7 2 - 8 1 7 6 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	4000K	10860lm	

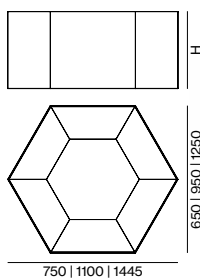
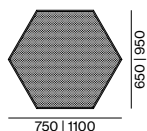
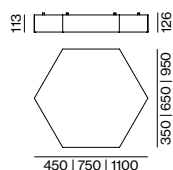
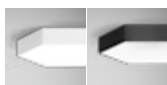
LIGHT DISTRIBUTION



Order options

MATERIAL COLOUR

white	7
black	8



Acoustic accessories

ACOUSTIC MODULE SURFACE

TYPE	ORDER CODE
ACOUSTIC MODULE 350	0 7 2 - 8 9 1 1 3 1 <input type="checkbox"/>
ACOUSTIC MODULE 650	0 7 2 - 8 9 1 1 6 1 <input type="checkbox"/>
ACOUSTIC MODULE 950	0 7 2 - 8 9 1 1 7 1 <input type="checkbox"/>

combination possible with ABSORBER

ACOUSTIC PLATE SURFACE

TYPE	ORDER CODE
ACOUSTIC plate 650	0 7 2 - 8 9 2 1 6 1 <input type="checkbox"/>
ACOUSTIC plate 950	0 7 2 - 8 9 2 1 7 1 <input type="checkbox"/>

combination possible with ABSORBER

ABSORBER 650 for HEX-O/ACOUSTIC MODULE/PLATE 350 surface

H (mm)	ORDER CODE
340	0 7 2 - 8 9 3 1 3 1 <input type="checkbox"/>

HEX-O 350 mounting set	0 7 2 - 8 9 5 1 3 1 0
ACOUSTIC MODULE 350 mounting set	0 7 2 - 8 9 5 2 3 1 <input type="checkbox"/>
ABSORBER 650 surface single mounting set	0 7 2 - 8 9 5 4 3 1 <input type="checkbox"/>

See page 422 for sound absorption test

ABSORBER 950 for HEX-O/ACOUSTIC MODULE/PLATE 650 surface

H (mm)	ORDER CODE
340	0 7 2 - 8 9 3 1 6 1 <input type="checkbox"/>
540	0 7 2 - 8 9 4 1 6 1 <input type="checkbox"/>

HEX-O 650 ACOUSTIC PLATE 650 mount. set	0 7 2 - 8 9 5 1 6 1 0
ACOUSTIC M. 650 (H 340mm) mounting set	0 7 2 - 8 9 5 2 6 1 <input type="checkbox"/>
ACOUSTIC M. 650 (H 540mm) mounting set	0 7 2 - 8 9 5 3 6 1 <input type="checkbox"/>
ABSORBER 950 surface single mounting set	0 7 2 - 8 9 5 4 6 1 <input type="checkbox"/>

See page 422 for sound absorption test

ABSORBER 1250 for HEX-O/ACOUSTIC MODULE/PLATE 950 surface

H (mm)	ORDER CODE
540	0 7 2 - 8 9 4 1 7 1 <input type="checkbox"/>

HEX-O 950 ACOUSTIC PLATE 950 mount. set	0 7 2 - 8 9 5 1 7 1 0
ACOUSTIC MODULE 950 mounting set	0 7 2 - 8 9 5 3 7 1 <input type="checkbox"/>
ABSORBER 1250 surface single mounting set	0 7 2 - 8 9 5 4 7 1 <input type="checkbox"/>

See page 422 for sound absorption test

Inspiration

Practice Dr. Kohm & Kollegen
Karlsruhe, Germany

ARCHITECT
herzog, kassel + partner
Karlsruhe, Germany

PRODUCT
HEX-O surface
HEX-O ACOUSTIC MODULE surface
HEX-O ABSORBER



Inspiration

Office ALJ
Jeddah, Saudi Arabia

PRODUCT
HEX-O surface

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

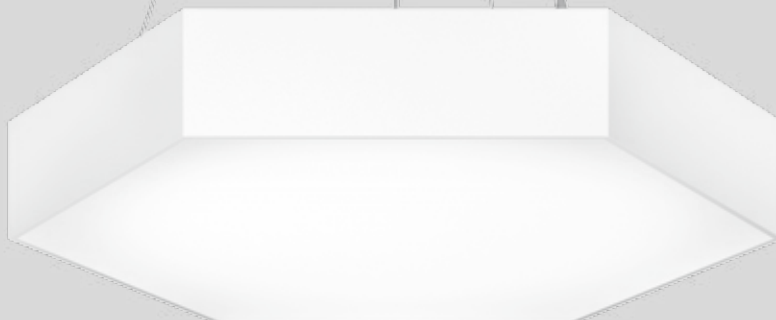




HEX-O

suspended

xal.com/hex-o



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 134lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI / CLO
transparent feeder cable

PHYSICAL

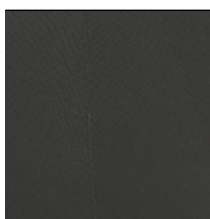
aluminium
powder-coated
acoustically effective
halogen-free cable (internal wiring)

Description

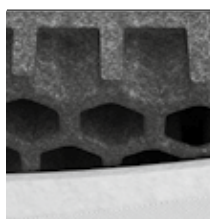
DE Sechseckiger Leuchtenkörper aus Aluminiumstrangpressprofil, nahtlos verschweißt; Oberfläche weiß oder schwarz pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeisung; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; satinierte oder mikroprismatische PMMA-Abdeckung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); Abdeckung werkzeuglos abnehmbar für einfache Wartung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar; schallreduzierendes Zubehör erhältlich: Akustikmodul und Absorber (geeignet zur Aufnahme von HEX-O Leuchte, Akustikmodul oder Akustik Plate) aus expandiertem Polystyrol (EPS); Akustik Plate in Leuchtenoptik mit Lochblechabdeckung

EN Hexagonal light housing from aluminium extruded profile, seamlessly welded; surface powder coated in white or black; Suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; highly reflective coating for improved efficiency; satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); cover removable without tools for easy maintenance; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable; noise reducing accessories available: acoustic module and absorber (suitable for installing of HEX-O luminaire, acoustic module or acoustic panel) in expanded polystyrene (EPS); acoustic panel in luminaire effect with perforated cover plate

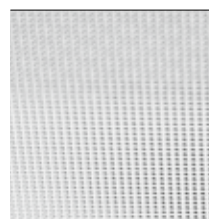
Features



one piece absorber,
available in 2 colours



patented honeycomb
structure



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL
DIM DALI / CLO 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
opal 0

Extended configuration

COLOUR TEMPERATURE
4000K 6

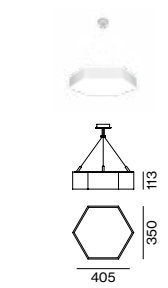
CONTROL
non DIM 1

MATERIAL COLOUR
black 8

8

+5% surcharges

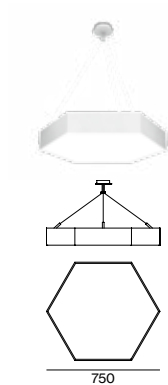
LIGHT OPTIC COVER
microprismatic (UGR < 19) P



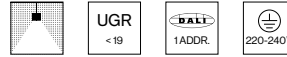
HEX-O 350 suspended



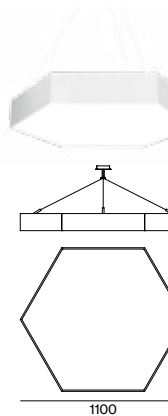
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10W	3000K	1120lm	0 7 2 - 8 2 3 6 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	1190lm	



HEX-O 650 suspended



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
39W	3000K	4710lm	0 7 2 - 8 2 6 6 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	5010lm	

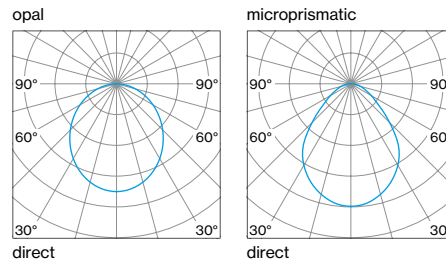


HEX-O 950 suspended



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
85W	3000K	10220lm	0 7 2 - 8 2 7 6 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	4000K	10860lm	

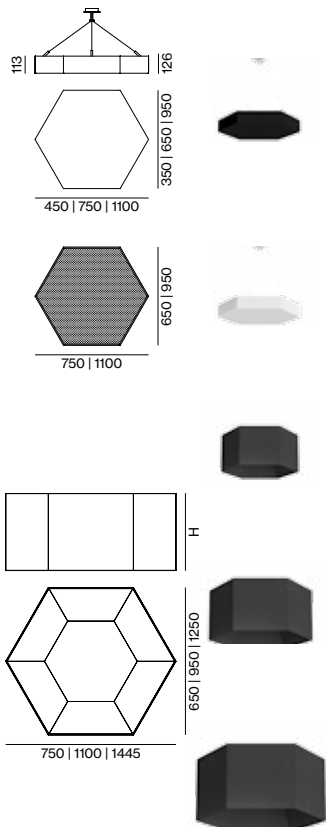
LIGHT DISTRIBUTION



Order options

MATERIAL COLOUR

white	7
black	8



Acoustic accessories

ACOUSTIC MODULE SUSPENDED

TYPE	ORDER CODE
ACOUSTIC MODULE 350	0 7 2 - 8 9 1 2 3 1
ACOUSTIC MODULE 650	0 7 2 - 8 9 1 2 6 1
ACOUSTIC MODULE 950	0 7 2 - 8 9 1 2 7 1

ACOUSTIC PLATE SUSPENDED

TYPE	ORDER CODE
ACOUSTIC plate 650	0 7 2 - 8 9 2 2 6 1
ACOUSTIC plate 950	0 7 2 - 8 9 2 2 7 1

ABSORBER 650 for HEX-O/ACOUSTIC MODULE/PLATE 350 susp.

H (mm)	ORDER CODE
340	0 7 2 - 8 9 3 1 3 1

single-mounting not possible

ABSORBER 950 for HEX-O/ACOUSTIC MODULE/PLATE 650 susp.

H (mm)	ORDER CODE
340	0 7 2 - 8 9 3 1 6 1
540	0 7 2 - 8 9 4 1 6 1

single-mounting not possible

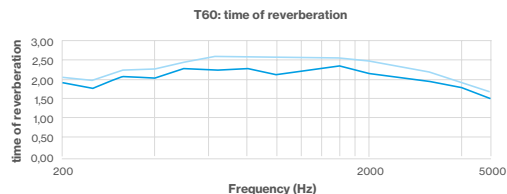
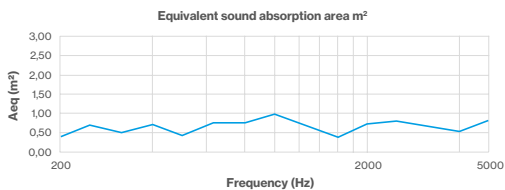
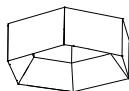
ABSORBER 1250 for HEX-O/ACOUSTIC MODULE/PLATE 950 susp.

H (mm)	ORDER CODE
540	0 7 2 - 8 9 4 1 7 1

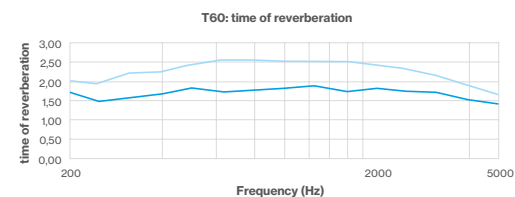
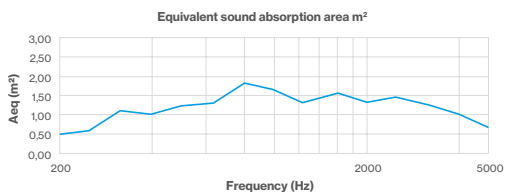
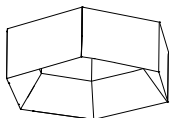
single-mounting not possible

Sound absorption test

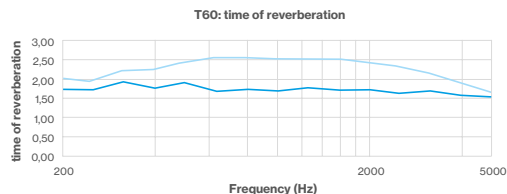
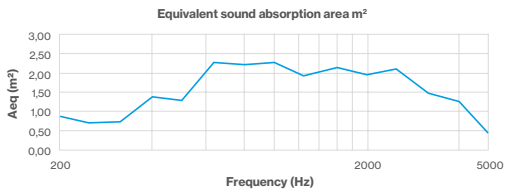
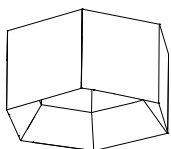
ABSORBER 650 / 340



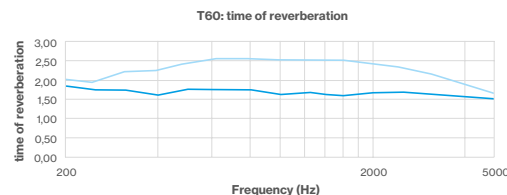
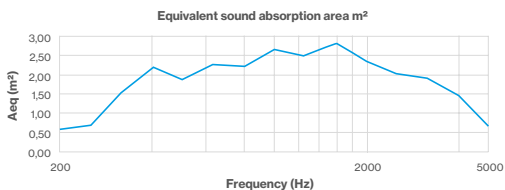
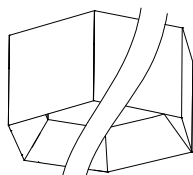
ABSORBER 950 / 340



ABSORBER 950 / 540



ABSORBER 1250 / 540

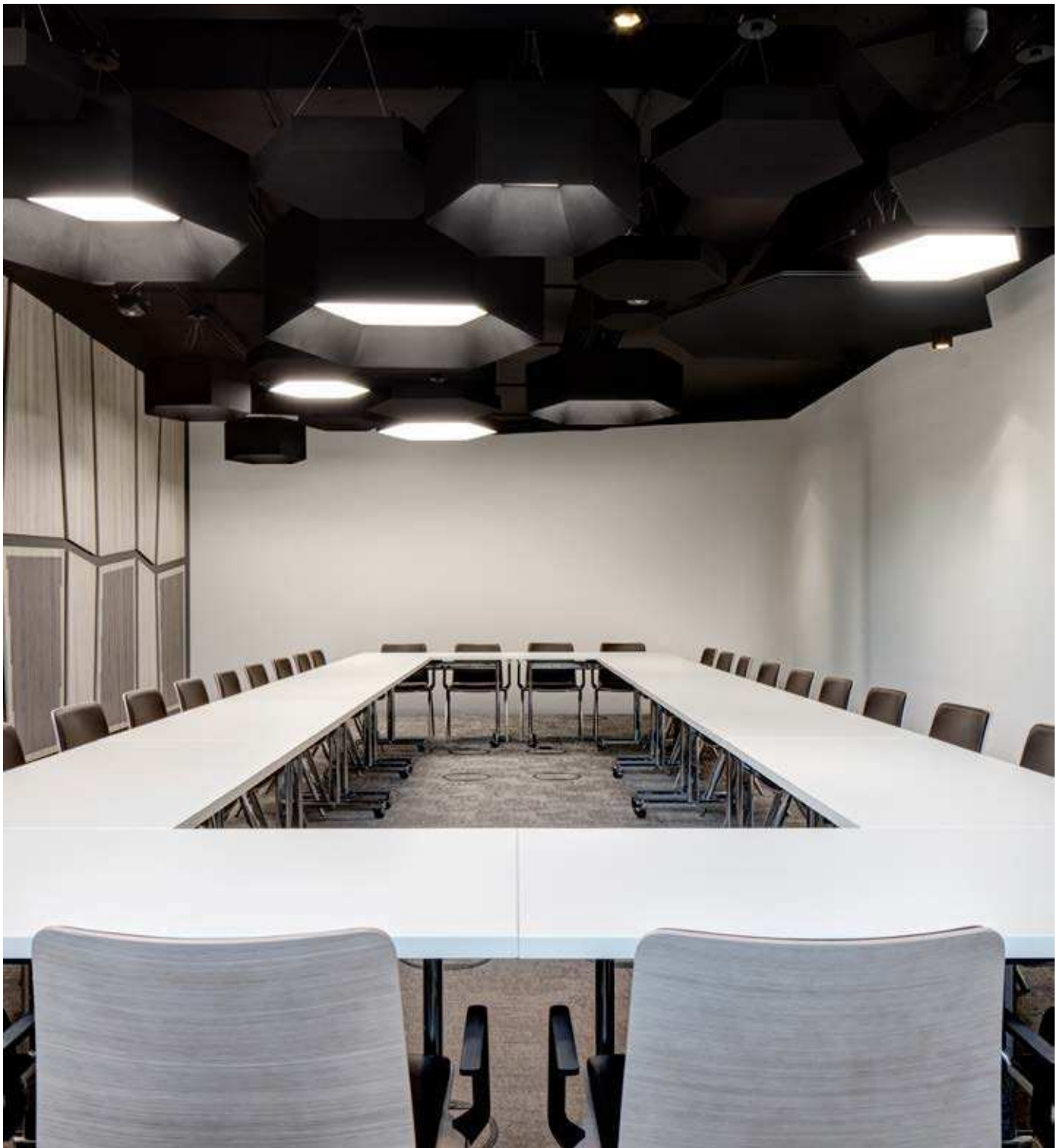


Inspiration

SWR
Stuttgart, Germany

PRODUCT
HEX-O suspended
HEX-O ACOUSTIC MODULE suspended

ARCHITECT
Ghanai + Heinrich Interiorpartners
Stuttgart, Germany



Inspiration

Cadence
Petah Tikva, Israel

ARCHITECT
Hadas Makov
KadimaTzoran, Israel

LIGHTING DESIGN
Orly Avron Alkabetz
Tel Aviv, Israel

PRODUCT
HEX-O surface
HEX-O suspended

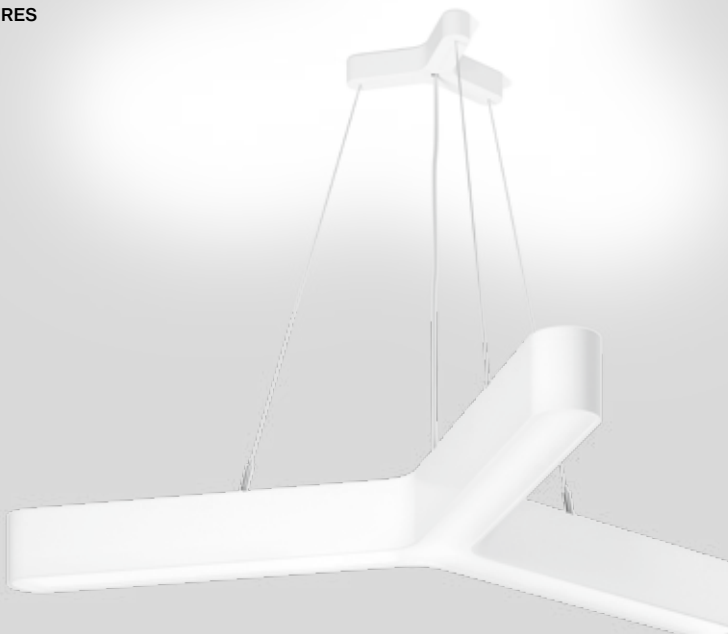




GEAR 3

suspended

xal.com/gear-3



Quickinfo

GENERAL

suspended

IP20

several mounting options

LED

Mid-power LED

up to 108 lm/W

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct, direct/indirect illumination

PMMA cover opal

ELECTRICAL

DIM DALI

transparent feeder cable

PHYSICAL

aluminium

powder-coated

halogen-free cable (internal wiring)

Description

DE Sternförmiger Leuchtenkörper aus Aluminium, gerolltes Profil, nahtlos verschweißt; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung oder mit kürzbarer Pendelrohrabhängung (chrom), Einspeiseleitung in Pendelrohr; Deckenbaldachin in Leuchtenform; hochreflektierende Beschichtung für verbesserten Wirkungsgrad; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; optional mit direkt/indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar

EN Star-shaped light housing made of aluminium, rolled profile, seamlessly welded; surface powder coated in white, grey, dark grey, black, beige or dark brown; Suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; ceiling canopy, light shaped; highly reflective coating for improved efficiency; completely homogeneously illuminated, satinised PMMA cover; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP20; PC I; DALI dimmable

Standard configuration

SUSPENSION	
cable 1500 mm	2
rod 1000 mm (min. 300 mm)	4

COLOUR TEMPERATURE	
3000 K	5

CONTROL	
DIM DALI	3

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal	O

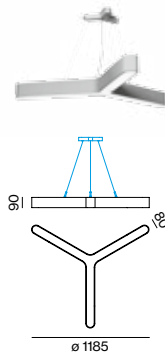
Extended configuration

COLOUR TEMPERATURE	
4000 K	6

MATERIAL COLOUR	
beige	K
grey	6
dark grey	D
dark brown	N
black	8



+5% surcharges



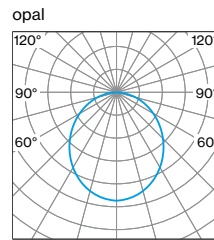
GEAR 3 suspended

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
41W	3000K	4230lm	0 5 8 - 0 2 5 3 O
	4000K	4430lm	

LIGHT DISTRIBUTION



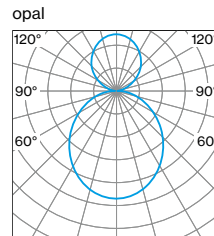
direct

DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
61W	3000K	↓ 4230 / ↑ 2160lm	0 5 8 - 0 3 5 3 O
	4000K	↓ 4430 / ↑ 2120lm	

LIGHT DISTRIBUTION



direct/indirect

Inspiration

RWE Exhibition
Nurburgring, Germany

ARCHITECT
D'art Design Gruppe
Neuss, Germany

PRODUCT
GEAR 3 suspended





Inspiration

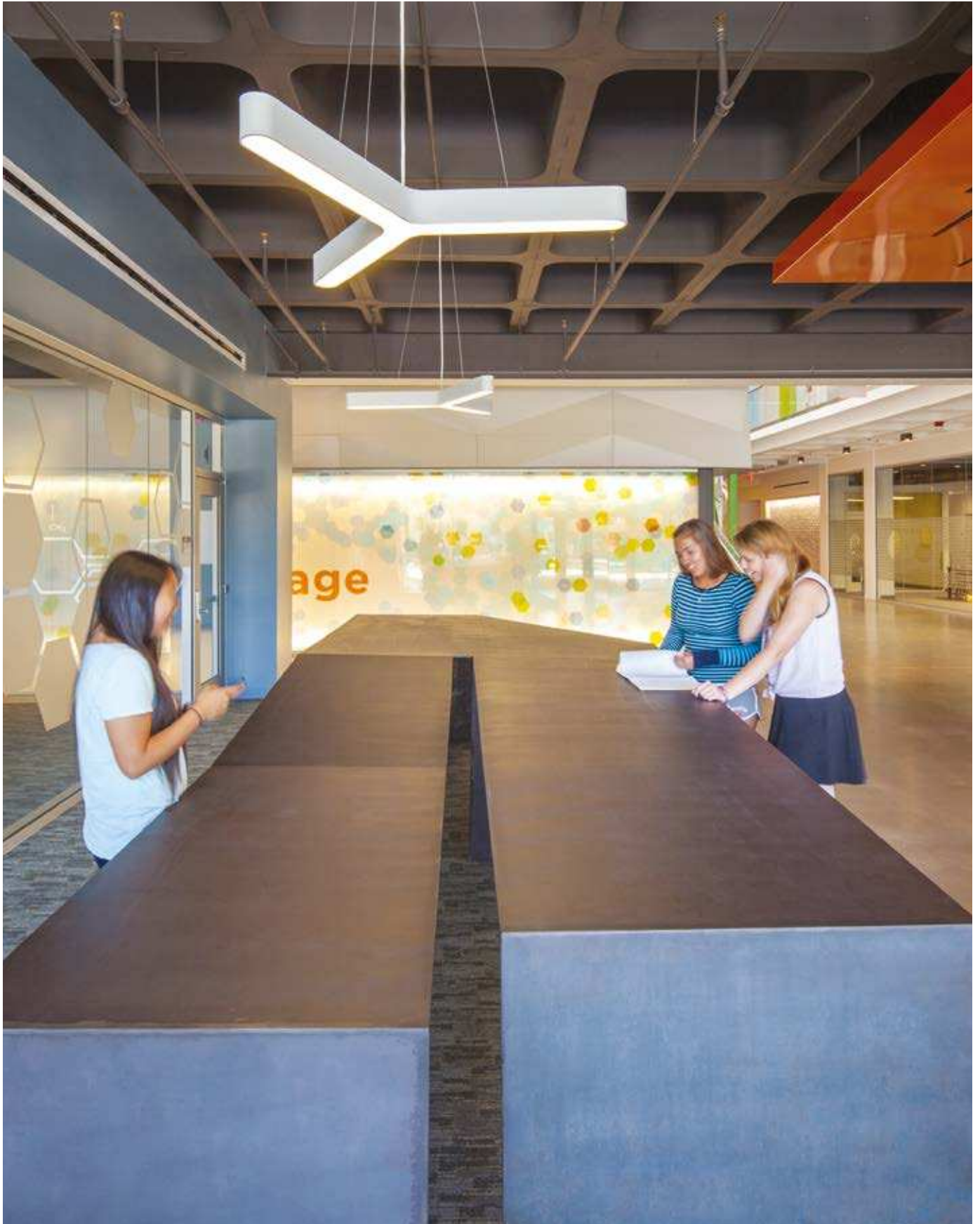
University of San Diego
Galbraith Hall, California

PRODUCT
GEAR 3 suspended

ARCHITECT
Kevin deFreitas Architects
San Diego, USA

LIGHTING DESIGN
Syska Hennessy Group, Inc.
San Diego, USA

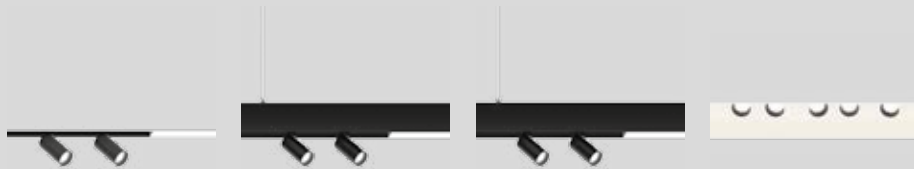




05



MODULARE PROFILLEUCHTENSYSTEME MODULAR PROFILE LIGHTING SYSTEMS



MOVE IT 25
trimless
→ 436

MOVE IT 25
surface /
suspended
→ 444

MOVE IT 25
suspended
indirect
→ 448

CAVO
trimless
→ 458 **new**



BASO 40
trim
→ 466 **new**

BASO 40
trimless
→ 470 **new**

BASO 40
surface /
suspended
→ 474 **new**



CANYON 60
trim offset
→ 480

CANYON 60
trimless offset
→ 484

FRAME 60
trim
→ 486

FRAME 60
CURVE
trim
→ 488

MINIMAL 60
trimless
→ 494

MINIMAL 60
CURVE
trimless
→ 496



EDGE 60
trimless
→ 502

MINO 60
ceiling /
suspended
→ 506

MINO 60 CURVE
ceiling /
suspended
→ 508

MINO 60
direct / indirect
suspended
→ 514 **new**



FRAME 100
trim
→ 526

MINIMAL 100
trimless
→ 530

MINO 100
ceiling /
suspended
→ 536

TASK
suspended
→ 550 **new**



LENO
trim
→ 558 **new**

LENO
trimless
→ 562 **new**

LENO
semi-recessed
→ 566 **new**

LENO
surface
→ 570 **new**

LENO
suspended
→ 572 **new**

LENO GRID
100 / 150
→ 578 / 580 **new**



CORNER 65
surface
→ 586

TUBO 100
ceiling /
suspended
→ 592

LINEA EVO
wall
→ 600 **new**

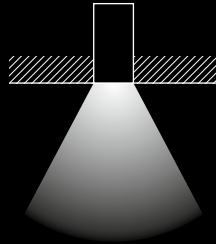
MINO X
→ 606

NANO
lighting solutions
→ 610

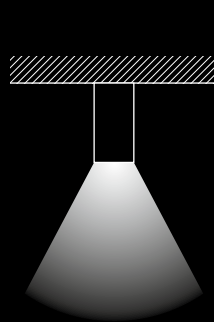
MOVE IT 25 system

MOUNTING

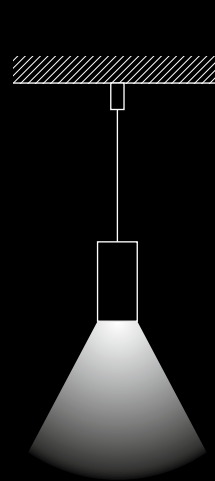
RECESSED



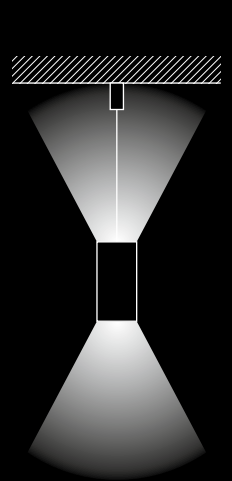
CEILING



SUSPENDED



SUSPENDED
INDIRECT

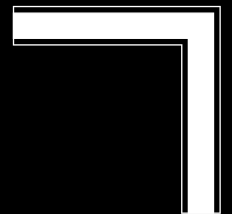


SHAPES

LINEAR



CORNER

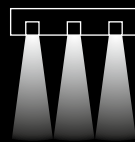


LIGHT DISTRIBUTION

OPAL



SPOT LINE



WALLWASHER



SPOTLIGHT



LIGHT DISTRIBUTION CONTROL

non DIM

DIM DALI
single control

ZigBee 3.0
single control

Description

DE Modulares Profilleuchtensystem mit 31mm Breite; hohe Variantenvielfalt für projektspezifische Anforderung; wahlweise als Aufbau-, abgehängte (direkte bzw. direkt/indirekte Abstrahlcharakteristik) oder Einbauvariante für den randlosen Einbau in Gipskartondecken; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; mit integriertem Stromschienenprofil zur Abnahme der Versorgungsspannung; Lichteinsätze, sowie Strahler- und Pendelleuchten-Einsätze mittels Magnethalter werkzeuglos einsetz- und verschiebbar; lieferbar in der Lichtfarbe 3000 K; wahlweise nicht dimmbar, DALI-dimmbar oder dimmbar als ZigBee 3.0 Variante

EN Modular profile light system with 31mm width; large range of versions for specific project requirements; either as surface mounted, suspended (direct or direct/indirect light distribution) or recessed variant for trimless installation in plasterboard ceilings; designed for continuous lighting systems, 90° angle connectors for flexible system design; with integrated power rail profile for supply voltage feed; lighting modules as well as spotlight and suspended modules can be installed and moved without tools by means of magnetic holders; available in the light colour 3000 K; either non dimmable, DALI dimmable or dimmable as ZigBee 3.0 variant

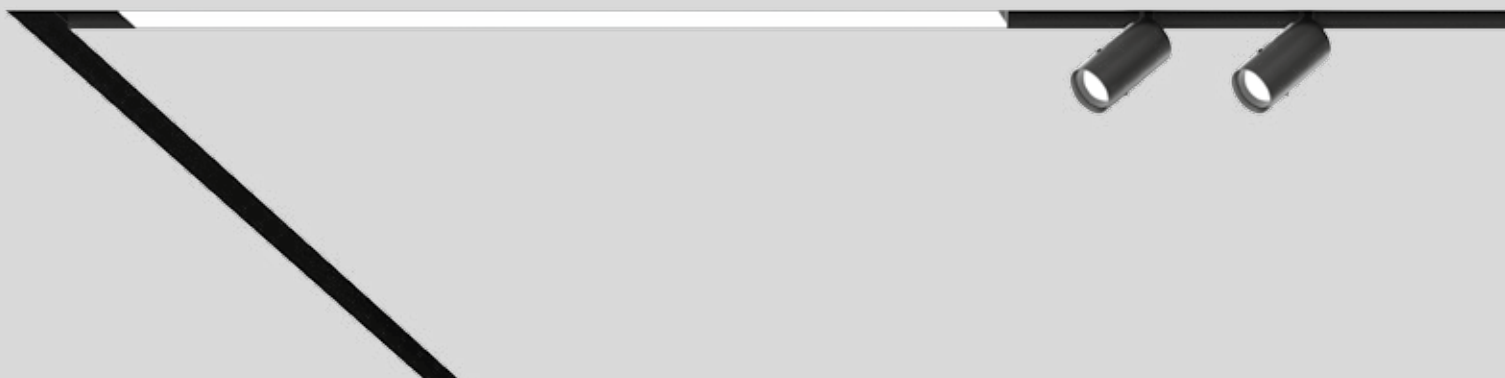
Overview

	MOVE IT 25 non control	MOVE IT 25 DIM DALI single control	MOVE IT 25 ZigBee 3.0 single control
INSTALLATION TRACK			
TRACK 48V	•		•
TRACK 48V DALI-BUS		•	
INSET			
JUST 32 FOCUS	•	•	•
JUST 45	•	•	•
JUST 55	•	•	•
SPOT LINE	•	•	•
WALLWASHER	•	•	•
WALLWASHER FLUSH	•	•	•
OPAL HIGH PERFORMANCE	•	•	•
TULA MICRO	•	•	•

MOVE IT 25

trimless

xal.com/move-it



Quickinfo

GENERAL

recessed trimless
IP20

ELECTRICAL

220-240 V
non DIM, DIM DALI, ZigBee 3.0

PHYSICAL

aluminium
anodised

Description

DE Aluminiumstrangpressprofil mit 28 mm Fugenbreite; geeignet für den randlosen Einbau in Gipskartondecken mit 12,5mm Deckenstärke; geeignet für Wand- oder Deckenmontage; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; mit integriertem Stromschienenprofil für Abnahme von Versorgungsspannung und DALI Signal; Oberfläche schwarz eloxiert; flexible und werkzeuglose Montage der Einsätze durch Magnethalterung; maximal 3 interne Konverter in einem System verwendbar; Schutzart IP20; SK I; wahlweise nicht dimmbar, DALI- oder ZigBee 3.0-Steuerung

EN Extruded aluminium profile with 28 mm width groove; suitable for trimless installation in plasterboard ceilings with 12.5mm ceiling thickness; suitable for wall or ceiling mounting; designed for continuous lighting systems, 90° angle connectors for flexible system design; with integrated power track profile for take off of supply voltage and DALI signal; surface anodised black; can be installed flexibly and without tools by means of magnetic holders; a maximum of 3 internal converters can be used in one system; protection class IP20; PC I; either non dimmable, DALI or ZigBee 3.0 control

SPOTLIGHT INSETS

[page 453](#)



LINEAR INSETS

[page 455](#)



Features



adjustable beam angle
17°–43° (FOCUS)



optical accessories
(max. 1 pc.) on request

Standard configuration

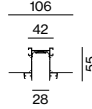
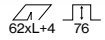
CONTROL

non DIM	1
ZigBee 3.0 single control	1
DIM DALI single control	3

MATERIAL COLOUR

black	8
-------	---

8



MOVE IT 25 trimless 48V / 48V + DALI-bus

order installation track, light insets (page 453, 455) + mounting accessories separately



INSTALLATION TRACK

L (mm)		ORDER CODE
607	channel	0 5 0 - 4 2 0 2 0 8
1207	channel	0 5 0 - 4 2 0 4 0 8
2407	channel	0 5 0 - 4 2 0 8 0 8
635x608	channel corner 90°	0 5 0 - 4 2 0 1 0 8
661x661	channel corner ceiling to wall 90°	0 5 0 - 4 2 0 1 1 8
custom cut	channel non DIM, ZigBee 3.0 single	E 8 3 0 3 0 8
custom cut	channel DIM DALI single control	E 8 3 0 4 0 8

corner incl. electrical connector set

Accessories

END CAPS (pair)



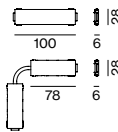
TYPE	ORDER CODE
end caps	0 5 0 - 4 2 0 0 0 8

BLIND COVER



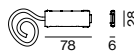
L (mm)	ORDER CODE
1207	0 5 0 - 4 0 0 4 0 0 8
2407	0 5 0 - 4 0 0 8 0 0 8
custom cut	E 8 3 0 0 0 8 B

blind cover can be shortened as desired



CONNECTOR SET 48V / 48V + DALI-Bus

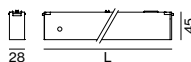
TYPE	ORDER CODE
mechanical linear connector (pair)	0 5 0 - 2 0 1 1 1 1 0
linear	0 5 0 - 2 0 3 1 1 1 0
linear flexible	0 5 0 - 2 0 3 2 1 1 0



POWER FEEDER UNIT 48V / 48V + DALI-Bus

TYPE	ORDER CODE
non DIM, ZigBee 3.0 single control	0 5 0 - 2 0 2 0 1 1 0
DIM DALI single control	0 5 0 - 2 0 2 0 1 3 0

2x2,5mm² / 2x2,5 + 2x0,5mm² / cable length 500 mm



CONVERTER BUILT-IN supply 220-240V AC, 48V, 50-60Hz, ENEC approved, incl. feeder cable 2000 mm

TYPE	L-W-H (mm)	ORDER CODE
75W start / ZigBee 3.0 / non DIM	450-45-25	0 0 2 - 6 2 1 3 6
60W run / ZigBee 3.0 / non DIM	450-45-25	0 0 2 - 6 2 1 3 7

75W converter for single use

60W converter for cascading use (maximum 3 units)

CONVERTER EXTERN supply 220-240V AC, 48V, 50-60Hz

TYPE	L-W-H (mm)	ORDER CODE
60W	163-43-32	0 0 2 - 6 2 1 3 3
150W	222-68-39	0 0 2 - 6 0 1 5 6
320W	252-90-44	0 0 2 - 6 0 3 2 0

DALI SELV DEVICE

TYPE	ORDER CODE
control unit	050-2061130

Inspiration

Jewellery + Optical Store
Ludwigsburg, Germany

PRODUCT
MOVE IT 25 trimless

ARCHITECT

Ippolito Fleitz Group -
Identity Architects
Stuttgart, Germany





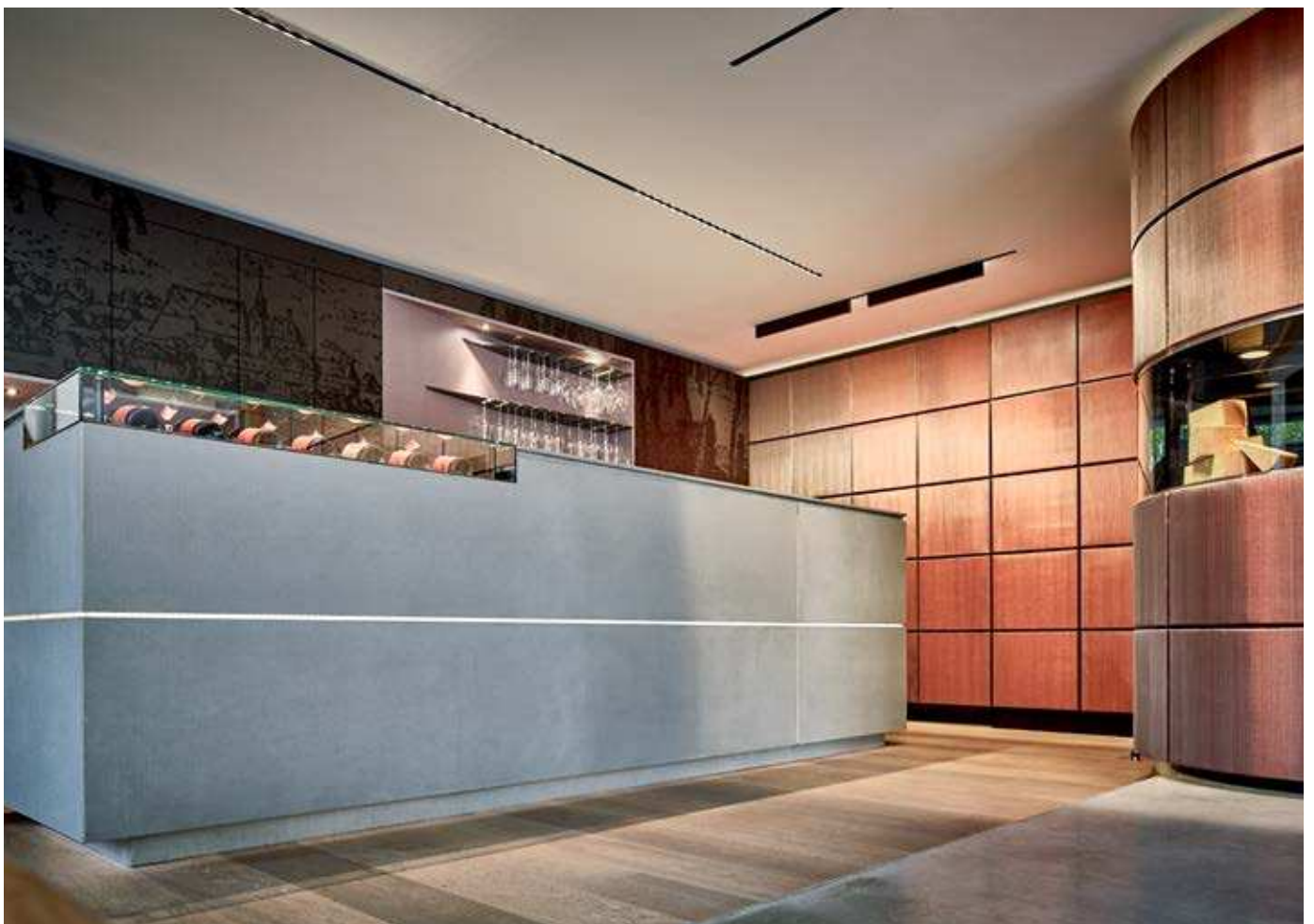
Inspiration

Weingut Kaufmann
Hattenheim, Germany

PRODUCT
MOVE IT 25 trimless

ARCHITECT
Friedrich Spitzbart GmbH
Laakirchen, Austria





Inspiration

Kallos Gallery
London, United Kingdom

LIGHTING DESIGN
CB Lighting

PRODUCT
MOVE IT 25 trimless

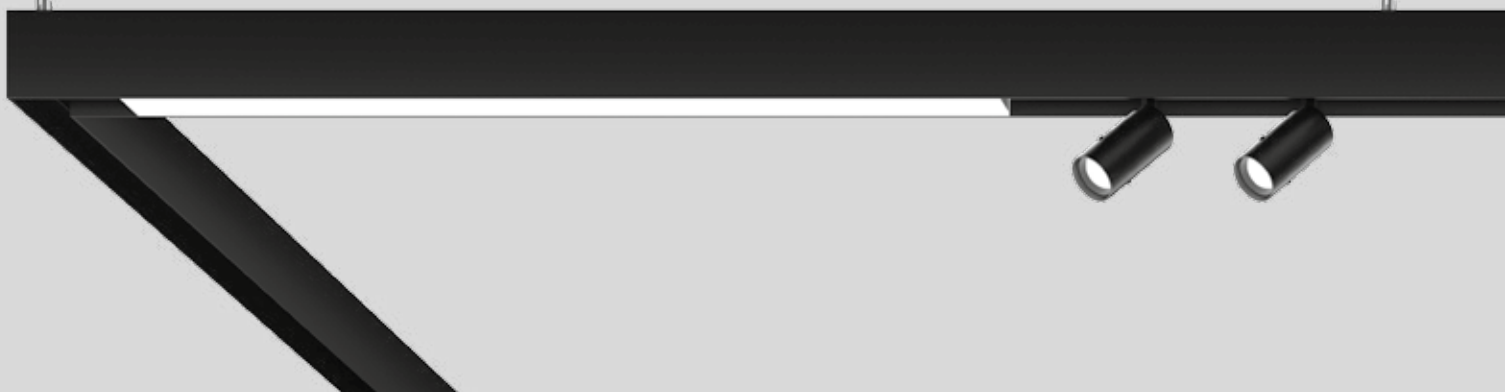




MOVE IT 25

surface / suspended

xal.com/move-it



Quickinfo

GENERAL

surface, suspended
IP20

ELECTRICAL

220-240 V
non DIM, DIM DALI, ZigBee 3.0
transparent feeder cable

PHYSICAL

aluminium
anodised

Description

DE Aluminiumstrangpressprofil mit 28 mm Fugenbreite; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; mit integriertem Stromschienenprofil für Abnahme von Versorgungsspannung und DALI Signal; Oberfläche schwarz eloxiert; flexible und werkzeuglose Montage der Einsätze durch Magnethalterung; maximal 3 interne Konverter in einem System verwendbar; Schutzart IP20; SK I; wahlweise nicht dimmbar, DALI- oder ZigBee 3.0-Steuerung

EN Extruded aluminium profile with 28 mm width groove; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; designed for continuous lighting systems, 90° angle connectors for flexible system design; with integrated power track profile for take off of supply voltage and DALI signal; surface anodised black; can be installed flexibly and without tools by means of magnetic holders; a maximum of 3 internal converters can be used in one system; protection class IP20; PC I; either non dimmable, DALI or ZigBee 3.0 control

SPOTLIGHT INSETS

[page 453](#)



LINEAR INSETS

[page 455](#)



Features



adjustable beam angle
17°–43° (FOCUS)



optical accessories
(max. 1 pc.) on request

Standard configuration

CONTROL	
non DIM	1
ZigBee 3.0 single control	1
DIM DALI single control	3

MATERIAL COLOUR	
black	8



Extended configuration

MATERIAL COLOUR	
white/black	P



+20% surcharges



MOVE IT 25 surface / suspended 48V / 48V + DALI-bus

order installation track, light insets (page 453, 455) + mounting accessories separately



INSTALLATION TRACK

L (mm)		ORDER CODE
607	channel	0 5 0 - 4 3 0 2 0
1207	channel	0 5 0 - 4 3 0 4 0
2407	channel	0 5 0 - 4 3 0 8 0
635x608	channel corner 90°	0 5 0 - 4 3 0 1 0
661x661	channel corner ceiling to wall 90°	0 5 0 - 4 3 0 1 1
custom cut	channel non DIM, ZigBee 3.0 single	E 8 3 0 5 0
custom cut	channel DIM DALI single control	E 8 3 0 6 0

corner incl. electrical connector set

Accessories

END CAPS (pair)

TYPE	ORDER CODE
end caps	0 5 0 - 4 3 0 0 0

BLIND COVER

L (mm)		ORDER CODE
1207		0 5 0 - 4 0 0 4 0 0 8
2407		0 5 0 - 4 0 0 8 0 0 8
custom cut		E 8 3 0 0 0

blind cover can be shortened as desired

CONNECTOR SET 48V / 48V + DALI-Bus

TYPE	ORDER CODE
mechanical linear connector surface	0 5 0 - 2 0 1 1 2 1 0
mechanical linear connector suspended	0 5 0 - 2 0 1 1 3 1 0
linear	0 5 0 - 2 0 3 1 1
linear flexible	0 5 0 - 2 0 3 2 1

POWER FEEDER UNIT 48V / 48V + DALI-Bus

TYPE	ORDER CODE
non DIM, ZigBee 3.0 single control	0 5 0 - 2 0 2 2 1 1 0
DIM DALI single control	0 5 0 - 2 0 2 2 1 3 0

2x2,5mm² / 2x2,5 + 2x0,5mm² / cable length 2000mm

CEILING FASTENER / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling fastener aluminium	10	0 5 0 - 2 0 4 1 1 1 0
cable suspension	1500	0 0 5 - 2 1 5 2 1 1 0
canopy white		0 5 0 - 2 0 5 1 2 1 7
canopy black		0 5 0 - 2 0 5 1 2 1 8

CONVERTER BUILT-IN supply 220-240V AC, 48V, 50-60Hz,

ENEC approved, incl. feeder cable 2000mm

TYPE	L-W-H (mm)	ORDER CODE
75W start / ZigBee 3.0 / non DIM	450-45-25	0 0 2 - 6 2 1 3 6
60W run / ZigBee 3.0 / non DIM	450-45-25	0 0 2 - 6 2 1 3 7

75W converter for single use

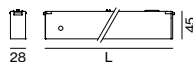
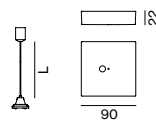
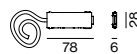
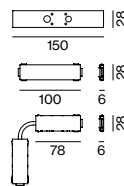
60W converter for cascading use (maximum 3 units)

CONVERTER EXTERN supply 220-240V AC, 48V, 50-60Hz

TYPE	L-W-H (mm)	ORDER CODE
60 W	163-43-32	0 0 2 - 6 2 1 3 3
150 W	222-68-39	0 0 2 - 6 0 1 5 6
320 W	252-90-44	0 0 2 - 6 0 3 2 0

DALI SELV DEVICE

TYPE	ORDER CODE
control unit	050-2061130



Inspiration

Maggi Kochstudio
Frankfurt, Germany

LIGHTING DESIGN
Notholt Lightingdesign
Hamburg, Germany

ARCHITECT
Seel Bobsin Partner
Design-Konzeptionen
Hamburg, Germany

PRODUCT
MOVE IT 25 suspended





MOVE IT 25

suspended indirect

xal.com/move-it



Quickinfo

GENERAL

suspended
IP20

LED

Mid-power LED
up to 109 lm/m
3000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

indirect illumination
PMMA cover opal

ELECTRICAL

220-240 V
non DIM, DIM DALI, ZigBee 3.0
transparent feeder cable

PHYSICAL

aluminium
anodised

Description

DE Aluminiumstrangpressprofil mit 28 mm Fugenbreite; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; mit indirekter Lichtkomponente für zusätzliche Akzentuierung der Decke; Indirektlichtanteil mit opaler Abdeckung abgedeckt; mit integriertem Stromschienenprofil für Abnahme von Versorgungsspannung und DALI Signal; Oberfläche schwarz eloxiert; flexible und werkzeuglose Montage der Einsätze durch Magnethalterung; maximal 3 interne Konverter in einem System verwendbar; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar, DALI- oder ZigBee 3.0-Steuerung

EN Extruded aluminium profile with 28 mm width groove; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; designed for continuous lighting systems, 90° angle connectors for flexible system design; with indirect light component for additional accentuation of the ceiling; Indirect component covered with opal cover; with integrated power track profile for take off of supply voltage and DALI signal; surface anodised black; can be installed flexibly and without tools by means of magnetic holders; a maximum of 3 internal converters can be used in one system; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class IP 20; PC I; either non dimmable, DALI or ZigBee 3.0 control

SPOTLIGHT INSETS

[page 453](#)



LINEAR INSETS

[page 455](#)



Features



adjustable beam angle
17°–43° (FOCUS)



optical accessories
(max. 1 pc.) on request

Standard configuration

COLOUR TEMPERATURE

3000K 5

CONTROL

INSTALLATION CHANNEL

non DIM 1
DIM DALI single control 3
ZigBee 3.0 single control 5

CONTROL

CONNECTOR SET

non DIM 1
DIM DALI single control 3
ZigBee 3.0 single control 1

MATERIAL COLOUR

black 8



Extended configuration

MATERIAL COLOUR

white/black P

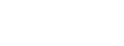
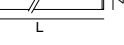
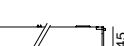
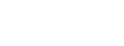
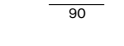
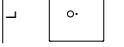
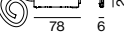
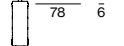
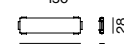
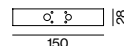


+20 % surcharges

Options on request

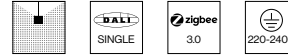
COLOUR TEMPERATURE

2700K _____
4000K _____



MOVE IT 25 suspended indirect 48V / 48V + DALI-bus

order installation track, light insets (page 453, 455) + mounting accessories separately



INSTALLATION TRACK INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
4,3 W	3000K	470 lm	607	0 5 0 - 4 4 0 2 5
8,5 W	3000K	920 lm	1207	0 5 0 - 4 4 0 4 5
16,9 W	3000K	1832 lm	2407	0 5 0 - 4 4 0 8 5
8,6 W	3000K	940 lm	637x610	0 5 0 - 4 4 0 1 0
corner				
corner incl. electrical connector set				

Accessories

END CAPS (pair)

TYPE	ORDER CODE
end caps	0 5 0 - 4 3 0 0 0

BLIND COVER

L (mm)	ORDER CODE
1207	0 5 0 - 4 0 0 4 0 0 8
2407	0 5 0 - 4 0 0 8 0 0 8
custom cut	E 8 3 0 0 0 ···· 8 B

blind cover can be shortened as desired

CONNECTOR SET 48V / 48V + DALI-Bus

TYPE	ORDER CODE
mechanical linear connector suspended	0 5 0 - 2 0 1 1 3 1 0
linear	0 5 0 - 2 0 3 1 1
linear flexible	0 5 0 - 2 0 3 2 1

POWER FEEDER UNIT 48V / 48V + DALI-Bus

TYPE	ORDER CODE
non DIM, ZigBee 3.0 single control	0 5 0 - 2 0 2 2 1 1 0
DIM DALI single control	0 5 0 - 2 0 2 2 1 3 0

2x2,5mm² / 2x2,5 + 2x0,5mm² / cable length 2000 mm

CEILING FASTENER / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling fastener aluminium	10	0 5 0 - 2 0 4 1 1 1 0
cable suspension	1500	0 0 5 - 2 1 5 2 1 1 0
canopy white		0 5 0 - 2 0 5 1 2 1 7
canopy black		0 5 0 - 2 0 5 1 2 1 8

CONVERTER BUILT-IN supply 220-240V AC, 48V, 50-60Hz,

ENEC approved, incl. feeder cable 2000 mm

TYPE	L·W·H (mm)	ORDER CODE
75 W start / ZigBee 3.0 / non DIM	450-45-25	0 0 2 - 6 2 1 3 6
60 W run / ZigBee 3.0 / non DIM	450-45-25	0 0 2 - 6 2 1 3 7

75 W converter for single use

60 W converter for cascading use (maximum 3 units)

CONVERTER EXTERN supply 220-240V AC, 48V, 50-60Hz

TYPE	L·W·H (mm)	ORDER CODE
60 W	163-43-32	0 0 2 - 6 2 1 3 3
150 W	222-68-39	0 0 2 - 6 0 1 5 6
320 W	252-90-44	0 0 2 - 6 0 3 2 0

DALI SELV DEVICE

TYPE	ORDER CODE
control unit	050-2061130

Inspiration

Office of ENTASIS Architects
Copenhagen, Denmark

ARCHITECT

Christian Cold
Copenhagen, Denmark

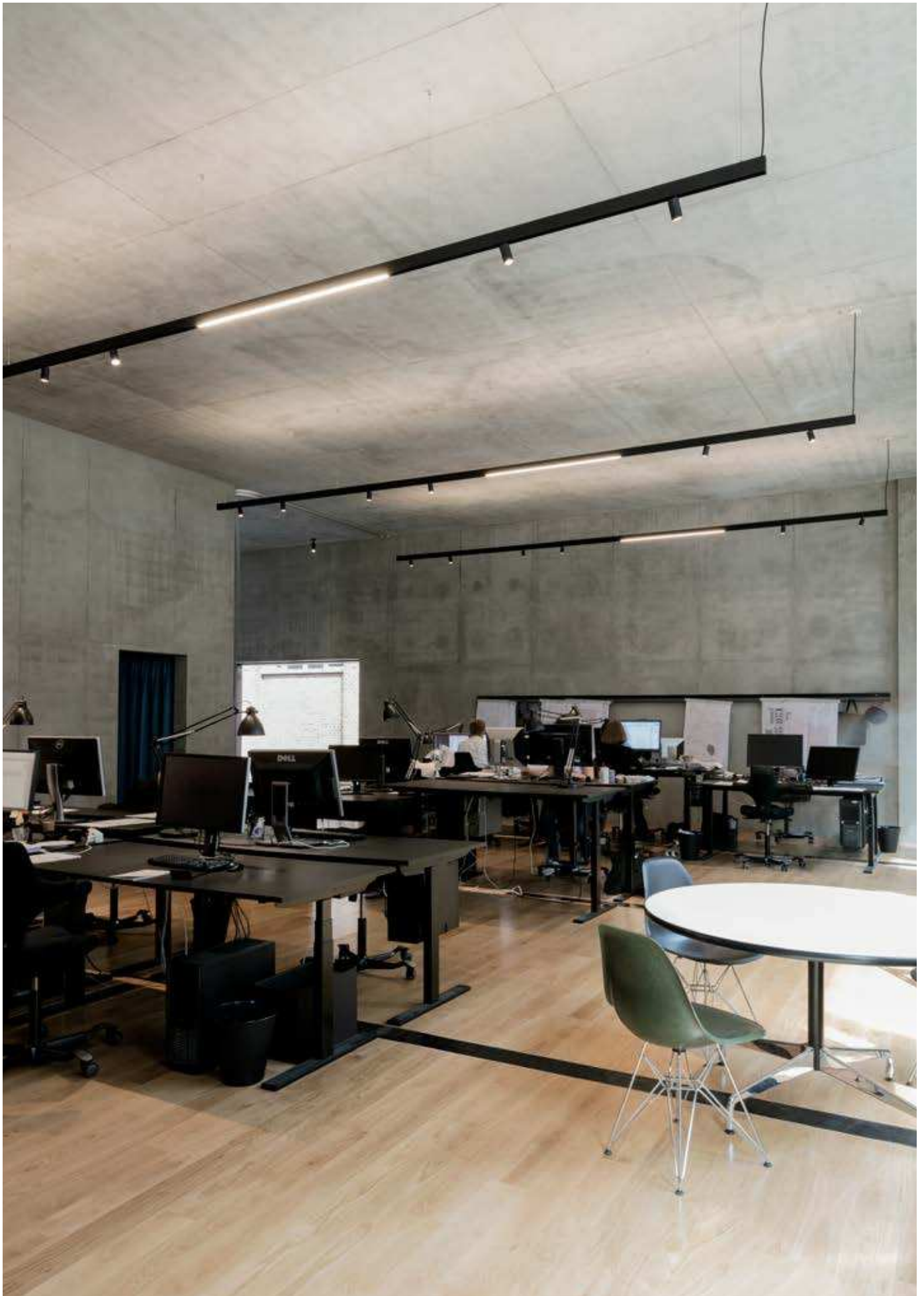
LIGHTING DESIGN

Christian Cold / anker & co
Copenhagen, Denmark

PRODUCT

MOVE IT 25 suspended







MOVE IT 25 spotlight insets

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL ▶
non DIM* 1
DIM DALI single control 3
ZigBee 3.0 single control 5

*not for JUST 45 super spot 8° + JUST 55

MATERIAL COLOUR
black 8



LED LENS JUST 45
super spot 8° V
medium 23° M

LED LENS JUST 55 ▲
spot 14° S
medium 23° M

Options on request

COLOUR TEMPERATURE
2700K _____
4000K _____

MATERIAL COLOUR
white _____



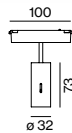
Features



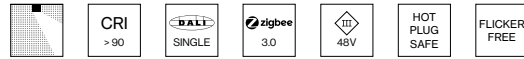
adjustable beam angle
17°–43° (FOCUS)



optical accessories
(max. 1 pc.)



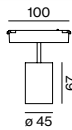
JUST 32 FOCUS 17–43°



SYSTEM POWER 8W COLOUR TEMP. 3000K LUM. FLUX 390lm ORDER CODE 0 5 0 - 0 1 1 1 5 ▶ 8

LIGHT DISTRIBUTION

min. angle 17°			max. angle 43°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2447	0,30	1	704	0,80
2	611	0,59	2	176	1,59
3	271	0,89	3	78	2,39
4	152	1,19	4	44	3,18
5	97	1,49	5	28	3,98



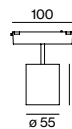
JUST 45



SYSTEM POWER 6W COLOUR TEMP. 3000K LUM. FLUX 330lm ORDER CODE 0 5 0 - 0 1 3 1 5 ▶ 8 V
10W COLOUR TEMP. 3000K LUM. FLUX 730lm ORDER CODE 0 5 0 - 0 1 3 1 5 ▶ 8 M

LIGHT DISTRIBUTION

super spot 8°			medium 23°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	11639	ø 0,14	1	3387	0,40
2	2909	ø 0,28	2	846	0,81
3	1293	ø 0,42	3	376	1,21
4	727	ø 0,56	4	211	1,61
5	465	ø 0,70	5	135	2,02



JUST 55



SYSTEM POWER 15W COLOUR TEMP. 3000K LUM. FLUX 1090lm ORDER CODE 0 5 0 - 0 1 4 1 5 ▶ 8 ▲

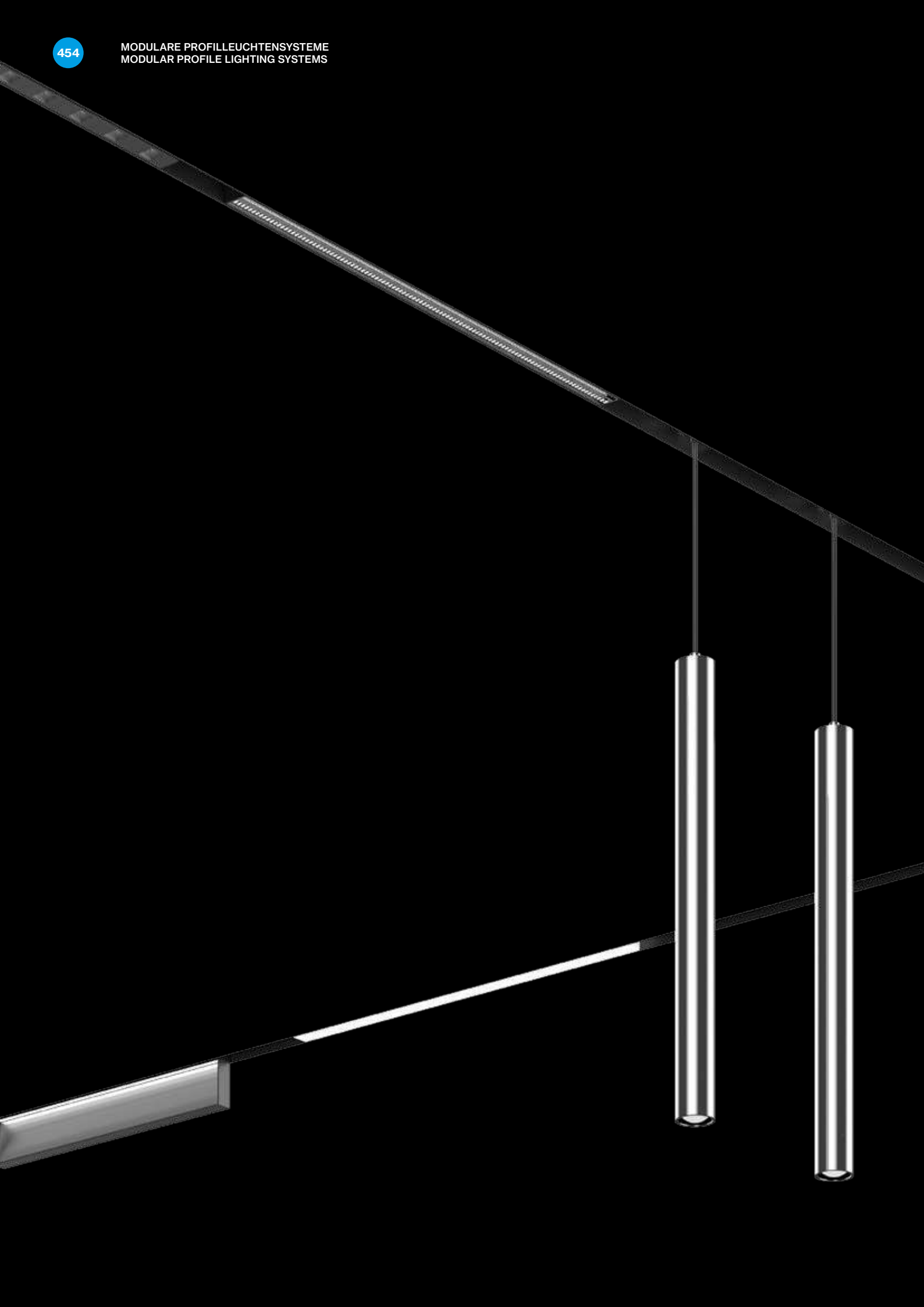
LIGHT DISTRIBUTION

spot 14°			medium 23°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	12980	0,25	1	5655	0,40
2	3245	0,50	2	1414	0,80
3	1442	0,75	3	628	1,20
4	811	1,00	4	353	1,60
5	519	1,25	5	226	2,00

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
JUST 32 FOCUS	30-4	0 0 7 - 1 9 6 5 1 6 8
JUST 45	42-3	0 0 7 - 1 9 6 5 1 8 8
JUST 55	50-3	0 0 7 - 1 9 6 5 1 9 8



MOVE IT 25 linear insets

Standard configuration

COLOUR TEMPERATURE
3000K 5

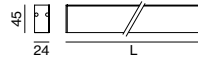
CONTROL ▶
non DIM 1
DIM DALI single control 3
ZigBee 3.0 single control 5

TULA MICRO
MATERIAL COLOUR ■
chrome 4
grey 6
black 8



Options on request

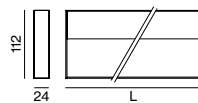
COLOUR TEMPERATURE
2700K
4000K



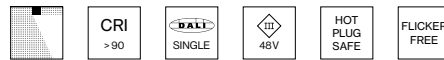
INSET 25 SPOT LINE



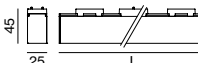
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
6 × 1,2 W	3000K	480lm	305	0 5 0 - 0 2 2 1 5 ▶ 8 M
12 × 1,2 W	3000K	960lm	605	0 5 0 - 0 2 2 2 5 ▶ 8 M



INSET 25 WALLWASHER



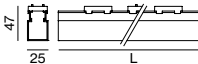
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	3000K	1100lm	450	0 5 0 - 0 2 3 2 5 3 8 A



INSET 25 WALLWASHER FLUSH



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	3000K	300lm	305	0 5 0 - 0 2 1 1 5 ▶ 8 A
11 W	3000K	590lm	605	0 5 0 - 0 2 1 2 5 ▶ 8 A
19 W	3000K	1180lm	1205	0 5 0 - 0 2 1 4 5 ▶ 8 A
36 W	3000K	2360lm	2405	0 5 0 - 0 2 1 8 5 ▶ 8 A



INSET 25 OPAL HIGH PERFORMANCE



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	3000K	440lm	305	0 5 0 - 0 2 1 1 5 ▶ 8 H
10 W	3000K	880lm	605	0 5 0 - 0 2 1 2 5 ▶ 8 H
18 W	3000K	1770lm	1205	0 5 0 - 0 2 1 4 5 ▶ 8 H
36 W	3000K	3530lm	2405	0 5 0 - 0 2 1 8 5 ▶ 8 H



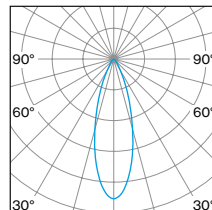
INSET 25 TULA MICRO



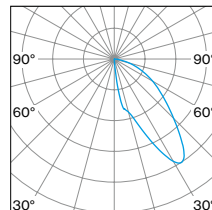
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
9 W	3000K	325lm	500	0 5 0 - 0 1 9 1 5 ▶ ■ M

LIGHT DISTRIBUTION

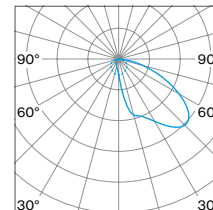
spot line



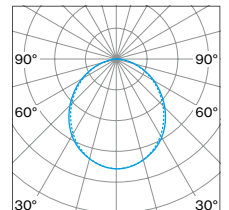
wallwasher



wallwasher flush



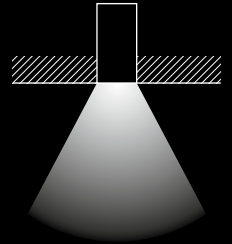
opal high performance



CAVO system

MOUNTING

RECESSED

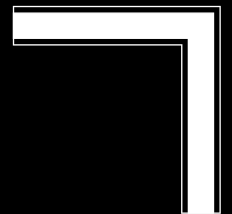


SHAPES

LINEAR



CORNER



LIGHT DISTRIBUTION

GLOWING



SPOTLIGHT



CONTROL

non DIM
3000K

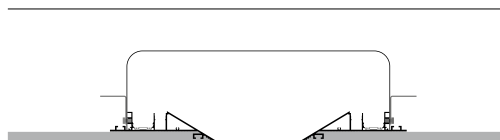
DIM DALI
3000K

Description

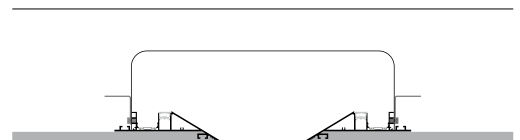
DE Modulares Profilleuchtensystem mit 110 mm breitem, sichtbarem Ausschnitt; geeignet für den randlosen Einbau in Gipskartondecken; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; optional: Indirektlichtanteil im Kanal durch beidseitiges Miniatur-Leuchtenprofil; mit beidseitig integriertem Stromschienenprofil zur Abnahme der Versorgungsspannung; Strahler mittels Magnethalter werkzeuglos einsetz- und verschiebbar; lieferbar in der Lichtfarbe 3000 K; wahlweise nicht dimmbar oder DALI-dimmbar

EN Modular profile luminaire system with 110 mm wide, visible opening; for trimless installation in plasterboard ceilings; designed for continuous lighting systems, 90° angle connectors for flexible system design; optional: Indirect component in the channel through miniature luminaire profile on both sides; with integrated power rail profile on both sides for supply voltage feed; spotlight can be installed and moved without tools by means of magnetic holders; available in the light colour 3000 K; optionally non-dimmable or DALI dimmable

CAVO
installation channel

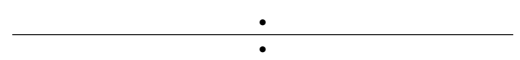
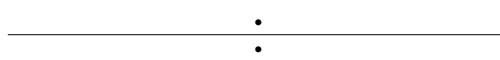


CAVO
installation channel with glowing



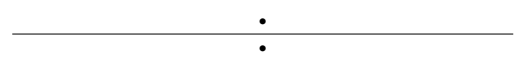
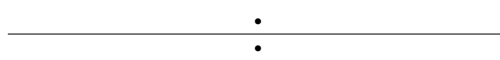
INSET JUST 32 FOCUS

non DIM
DIM DALI



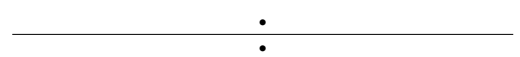
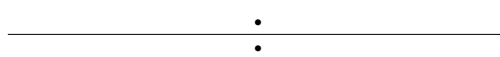
INSET JUST 45

non DIM
DIM DALI



INSET JUST 55

non DIM
DIM DALI



CAVO trimless

xal.com/cavo



Quickinfo

GENERAL

recessed trimless
IP20
patent pending

LED

up to 1090lm
3000K
CRI > 90

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct illumination
beam angle 8°, 14°, 23°, 17–43°

ELECTRICAL

220–240V, 48V
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
housing: glow, no glow

Description

DE Aluminiumstrangpressprofil mit 110 mm breitem, sichtbarem Ausschnitt; geeignet für den randlosen Einbau in Gipskartondecken; mit beidseitig integriertem Stromschienenprofil zur Abnahme der Versorgungsspannung; Strahler mittels Magnethalter werkzeuglos einsetz- und verschiebbar; Strahlerkopf 360° dreh- und 90° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optional: Indirektlichtanteil im Kanal durch beidseitiges Miniatur-Leuchtenprofil; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000K; CRI ≥ 90 ; min. 80% des Lichtstromes nach 50000h Lebensdauer; gute Entblendung durch zurückversetzte Lichtpunktebene; inkl. hochwertiger Linsenoptik; präzise Abstrahlcharakteristik mit verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK II; Hot Plug-Schutz; optional nicht dimmbar; flimmerfreier Sehkomfort durch analoge Stromstärkenregelung (Minimalwert 1%)

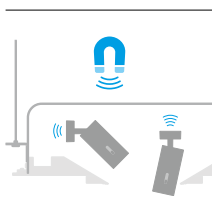
EN Extruded aluminium profile with 110 mm wide, visible cut-out; for trimless installation in plasterboard ceilings; with integrated power rail profile on both sides for supply voltage feed; spotlight can be installed and moved without tools by means of magnetic holders; spotlight head rotates 360° and tilts 90°; surface powder coated in white or black; optional: Indirect component in the channel through miniature luminaire profile on both sides; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000K; CRI ≥ 90 ; min. 80% of the luminous flux after 50000 hours; good glare reduction due to recessed light point plane; incl. high quality lens system; precise radiation characteristics with different beam angles; protection class IP20; PC II; hot plug protection; optional non-dimmable; flicker-free visual comfort through analogue current control (minimum value 1%)

SPOTLIGHT INSETS

[page 460](#)



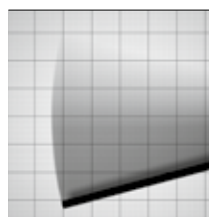
Features



magnetic holders for
tool-free mounting



48V track, plug & play
adapter, hot plug safe



flicker-free dimming
(minimum value of 1%)



optical accessories
(maximum 1 piece)

Standard configuration

COLOUR TEMPERATURE

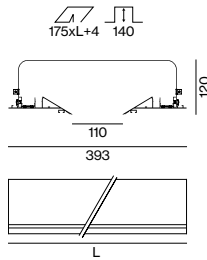
3000K 5

CONTROL

DIM DALI single control 3

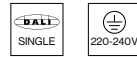
MATERIAL COLOUR

white 7
black 8



CAVO trimless 48V / 48V + DALI-bus

order installation track, spotlights (page 460) + mounting accessories separately



INSTALLATION TRACK

for installation in plasterboard ceilings 12,5mm

■ 9,5kg/m, 4 suspension points/m

L (mm)	L-W-H (mm)	ORDER CODE
500	500-330-120	0 4 9 - 9 8 0 2 0 ⇨ ☑
1500	1500-330-120	0 4 9 - 9 8 0 4 0 ⇨ ☑
2500	2500-330-120	0 4 9 - 9 8 0 6 0 ⇨ ☑
custom cut	xxx-330-120	on request

INSTALLATION TRACK WITH GLOWING (3000K)

for installation in plasterboard ceilings 12,5mm

■ 9,5kg/m, 4 suspension points/m

L (mm)	SYSTEM POWER	L-W-H (mm)	ORDER CODE
500	7,2 W	500-330-120	0 4 9 - 9 8 2 2 5 ⇨ ☑
1500	21,6 W	1500-330-120	0 4 9 - 9 8 2 4 5 ⇨ ☑
2500	36 W	2500-330-120	0 4 9 - 9 8 2 6 5 ⇨ ☑
custom cut	14,4 W/m	xxx-330-120	on request

Extended configuration

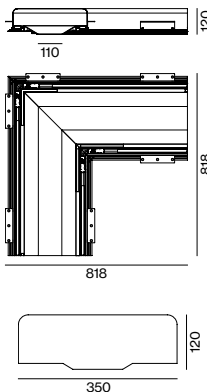
CONTROL

non DIM 1

Options on request

CONTROL

ZigBee 3.0 single control



Accessories

CORNER CONNECTOR 90°

L (mm)	L-W-H (mm)	ORDER CODE
818 × 818	818-818-120	0 4 9 - 9 8 1 0 0 ⇨ ☑

CORNER CONNECTOR 90° WITH GLOWING (3000K)

L (mm)	SYSTEM POWER	L-W-H (mm)	ORDER CODE
818 × 818	18 W	818-818-120	0 4 9 - 9 8 3 0 5 ⇨ ☑

END CAPS

TYPE	ORDER CODE
end caps without inspection opening	0 4 9 - 9 8 9 0 0 1 ⇨ ☑
end caps with inspection opening	0 4 9 - 9 8 9 0 0 2 ⇨ ☑

LINEAR CONNECTOR SET 48V, electrical + mechanical

TYPE	ORDER CODE
linear connector set (pair)	0 4 9 - 9 8 9 7 1 1 ⇨ ☑

POWER FEEDER UNIT 48V / 48V + DALI-Bus

TYPE	ORDER CODE
non DIM	0 5 0 - 2 0 2 0 1 1 0
DIM DALI single control	0 5 0 - 2 0 2 0 1 3 0

2x1,5mm² / 2x1,5 + 2x0,5mm² / cable length 500mm

in case of two-sided power line 2 feeder required

in case of glowing 2 feeder required

POWER SUPPLY 48V, supply 220–240V AC, 50–60Hz

TYPE	L-W-H (mm)	ORDER CODE
100 W	223-60-39	0 0 2 - 6 0 1 0 5
150 W	222-68-39	0 0 2 - 6 0 1 5 6
240 W	244-68-39	0 0 2 - 6 0 2 4 0
320 W	252-90-44	0 0 2 - 6 0 3 2 0

further power supplies on request

Technical data

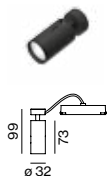
POWER SUPPLY CALCULATOR per meter

TYPE	SYSTEM POWER
inst. track with glowing	14,4 W/m
inst. track with glowing + max. 6 spotlights	104,4 W/m
inst. track without glowing + max. 6 spotlights	90 W/m

use the calculator for custom cut planning

DALI SELV DEVICE

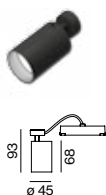
TYPE	ORDER CODE
control unit	050-2061130

Standard configuration**COLOUR TEMPERATURE**3000K 5**CONTROL**DIM DALI 3**MATERIAL COLOUR**white 7black 8**BEAM ANGLE**medium 23° M**JUST 32 FOCUS 17-43°****SYSTEM POWER**
8W**COLOUR TEMP.**
3000K**LUMINOUS FLUX**
390lm**ORDER CODE**0 4 9 - 9 2 1 1 5 3**LIGHT DISTRIBUTION**

min. angle 17°

max. angle 43°

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	2447	0,30	1	704	0,80
2	611	0,59	2	176	1,59
3	271	0,89	3	78	2,39
4	152	1,19	4	44	3,18
5	97	1,49	5	28	3,98

Extended configuration**CONTROL**non DIM 1**BEAM ANGLE**spot 14° S**JUST 45****SYSTEM POWER**
10W**COLOUR TEMP.**
3000K**LUMINOUS FLUX**
730lm**ORDER CODE**0 4 9 - 9 3 0 2 5 3 M**LIGHT DISTRIBUTION**

medium 23°

h (m)	E (lx)	ø (m)
1	3387	0,40
2	846	0,81
3	376	1,21
4	211	1,61
5	135	2,02

Options on request**COLOUR TEMPERATURE**

1800-3000K CWD

CONTROL

ZigBee 3.0

REFLECTOR

super spot 8°

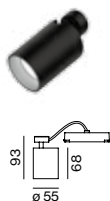
OPTICAL ACCESSORIES

elliptical sculpture foil

snoot

colour filter (red, blue, green, etc.)

only for JUST 32 FOCUS

**JUST 55****SYSTEM POWER**
15W**COLOUR TEMP.**
3000K**LUMINOUS FLUX**
1090lm**ORDER CODE**0 4 9 - 9 4 0 0 5 3 3 M**LIGHT DISTRIBUTION**

spot 14°

medium 23°

h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	12980	0,25	1	5655	0,40
2	3245	0,50	2	1414	0,80
3	1442	0,75	3	628	1,20
4	811	1,00	4	353	1,60
5	519	1,25	5	226	2,00

Optical accessories**HONEYCOMB LOUVER**

TYPE	Ø-H (mm)	ORDER CODE
JUST 32 FOCUS	30-4	0 0 7 - 1 9 6 5 1 6 8
JUST 45	42-3	0 0 7 - 1 9 6 5 1 8 8
JUST 55	50-3	0 0 7 - 1 9 6 5 1 9 8

Inspiration

Private Residence
Visualisation

PRODUCT

CAVO system
JUST 32 focus

CAVO square
JUST 45



Inspiration

Private Residence
Graz, Austria

ARCHITECT
GSarchitects
Graz, Austria

PRODUCT
CAVO system
JUST 45

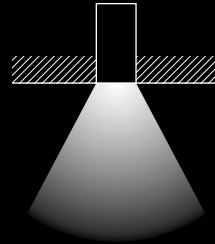




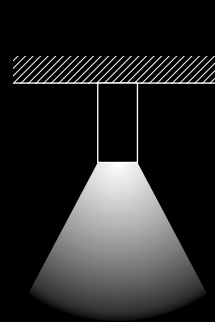
BASO 40 system

MOUNTING

RECESSED



CEILING



SUSPENDED

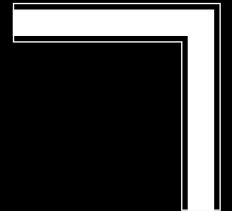


SHAPES

LINEAR



CORNER



LIGHT DISTRIBUTION

OPAL



WALLWASHER



CONTROL

non DIM
3000K / 4000K

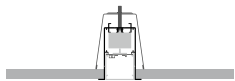
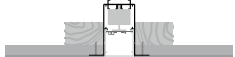
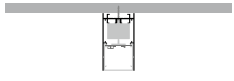
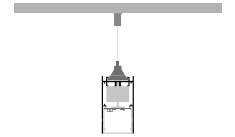
DIM DALI
3000K / 4000K

Description

DE Modulares Profilleuchtersystem mit 38 mm breitem Lichtaustritt; wahlweise als Aufbau-, abgehängte oder Einbauvariante (randlos oder mit umlaufendem Rand); ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; lieferbar in den Lichtfarben 3000 K und 4000 K; wahlweise nicht dimmbar oder DALI-dimmbar

EN Modular profile light system with 38 mm wide light emission; choice of surface mounted, suspended or recessed versions (trimless or with trim); designed for continuous lighting systems, 90° angle connectors for flexible system design; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; available in the light colours 3000 K and 4000 K; optionally non-dimmable or DALI dimmable

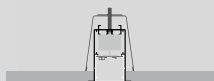
Overview

	BASO 40 trim recessed	BASO 40 trimless recessed	BASO 40 surface	BASO 40 suspended
				
INSET + COVER				
opal high performance	•	•	•	•
wallwasher	•	•	•	•

BASO 40

trim

xal.com/baso



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 2345 lm/m
up to 102 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

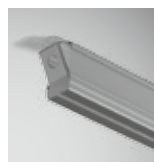
BASO 40

trim
[page 206](#)



CONCRETE HOUSING

[page 544](#)

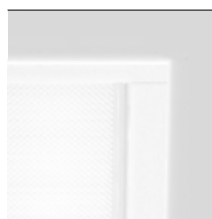


Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 38 mm breitem Lichtaustritt; Einbauleuchte mit umlaufendem Rand; ausgelegt für durchgehende Lichtsysteme; geeignet für Deckenstärken von 8-20 mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial \leq 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI \geq 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; optional nicht dimmbar

EN Luminaire housing from extruded aluminium profile with 38 mm wide light exit; Recessed luminaire with trim; designed for continuous lighting systems; suitable for ceiling thickness of 8-20 mm; surface white powder coated; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; energy-efficient LEDs with very good colour rendering; binning initial \leq 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI \geq 80; min. 90 % of the luminous flux after 50000 hours; protection class IP20; PC I; optional non-dimmable

Features



high-quality aluminium frame



asymmetric lens

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR
white 7



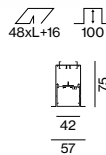
LIGHT OPTIC COVER
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
non DIM 1

LIGHT OPTIC LENS
asymmetric lens A



BASO 40 trim

order luminaire + mounting accessories separately

OPAL HIGH PERFORMANCE



SYSTEM POWER	L (mm)	ORDER CODE
14W	600	0 4 5 - 0 4 2 2 ⬢⬢ 7 H
28W	1200	0 4 5 - 0 4 2 4 ⬢⬢ 7 H
42W	1800	0 4 5 - 0 4 2 6 ⬢⬢ 7 H
56W	2400	0 4 5 - 0 4 2 8 ⬢⬢ 7 H
28W corner	607x607	0 4 5 - 0 4 6 1 ⬢⬢ 7 H



WALLWASHER



SYSTEM POWER	L (mm)	ORDER CODE
14W	600	0 4 5 - 0 4 2 2 ⬢⬢ 7 A
28W	1200	0 4 5 - 0 4 2 4 ⬢⬢ 7 A
41W	1800	0 4 5 - 0 4 2 6 ⬢⬢ 7 A
55W	2400	0 4 5 - 0 4 2 8 ⬢⬢ 7 A
28W corner outer beam	607x607	0 4 5 - 0 4 6 1 ⬢⬢ 7 A
28W corner inner beam	607x607	0 4 5 - 0 4 6 2 ⬢⬢ 7 A

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance cover	3000K	23W/m	2150lm/m	92lm/W
asymmetric cover	4000K	23W/m	2280lm/m	98lm/W
asymmetric cover	3000K	23W/m	2200lm/m	96lm/W
asymmetric cover	4000K	23W/m	2341lm/m	102lm/W

Accessories

CHANNEL + BLIND COVER



TYPE	L (mm)	ORDER CODE
linear	1200	0 4 5 - 0 4 0 4 0 0 7 B
linear	2400	0 4 5 - 0 4 0 8 0 0 7 B
corner connector 90°	607x607	0 4 5 - 0 4 4 1 0 0 7 B
custom cut		E 8 4 1 2 0 ⬢⬢ 7 B

END CAPS



TYPE	ORDER CODE
end caps (pair)	0 4 5 - 0 4 3 0 0 1 7

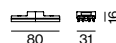
MOUNTING BRACKET 8-20mm



TYPE	ORDER CODE
1 piece	0 4 5 - 0 4 3 2 0 1 0
25 pieces	0 4 5 - 0 4 3 2 0 1 0 . 2 5

No. of brackets required: system length in [m] +1

LINEAR CONNECTOR



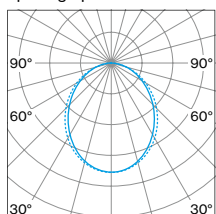
TYPE	ORDER CODE
linear connector (1 piece)	0 4 5 - 0 4 3 1 1 1 0
linear connector (10 pieces)	0 4 5 - 0 4 3 1 1 1 0 . 1 0

THROUGH WIRE

TYPE	ORDER CODE
3 x 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 x 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

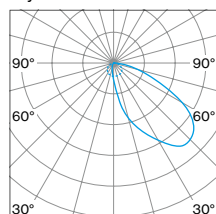
LIGHT DISTRIBUTION

opal high performance



direct

asymmetric



direct

Inspiration

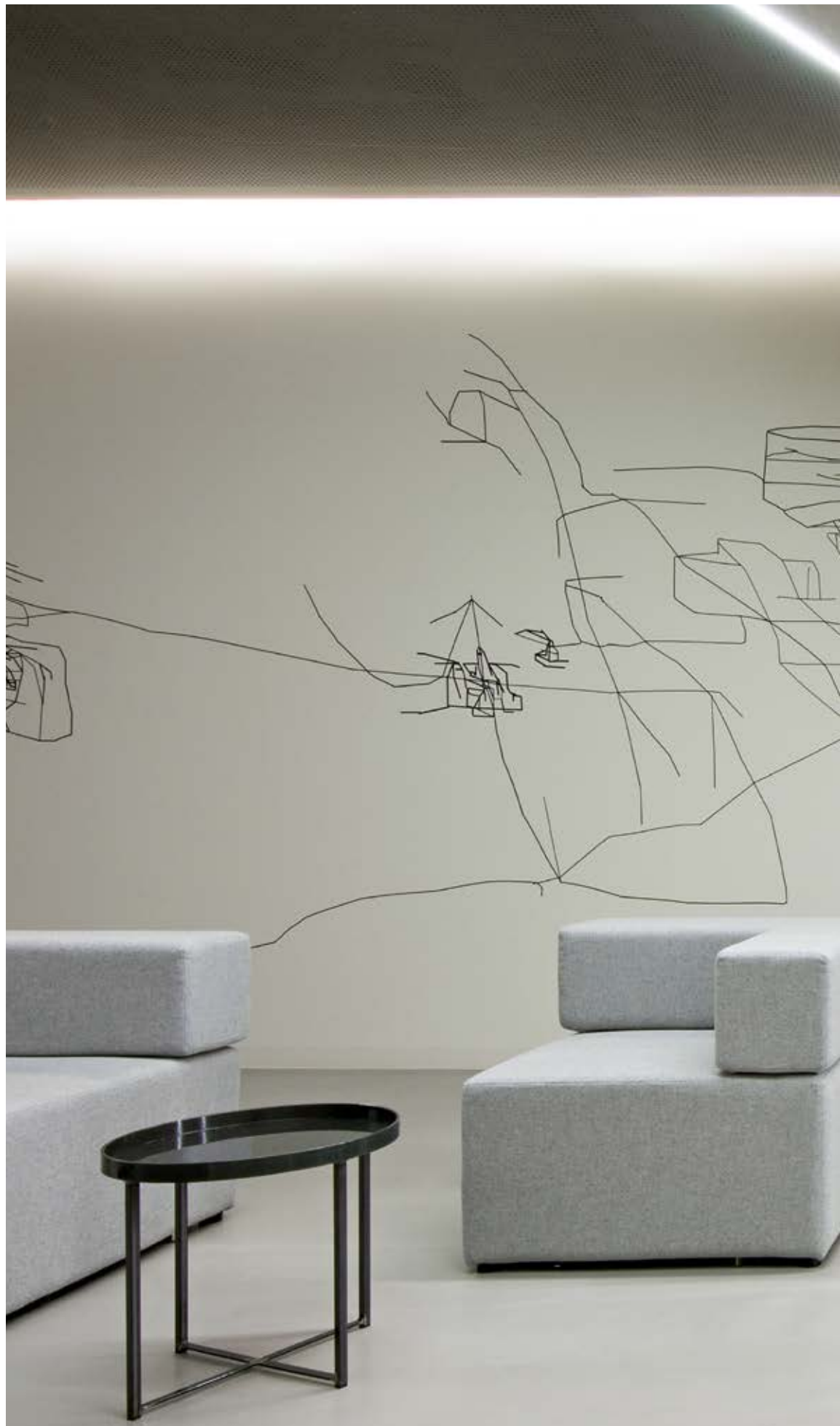
Loisium
Ehrenhausen, Austria

ARCHITECT
Architektur-Consult ZT
Graz, Austria

INTERIOR DESIGN
BEHF
Vienna, Austria

LIGHTING DESIGN
Christian Ploderer
Vienna, Austria

PRODUCT
BASO 40 trim





BASO 40

trimless

xal.com/baso



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 2345 lm/m
up to 102 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium raw
halogen-free cable

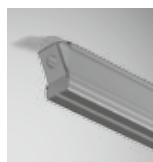
BASO 40 trimless

[page 224](#)



CONCRETE HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 38 mm breitem Lichtaustritt; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Löchern für bessere Haftung der Spachtelmasse; ausgelegt für durchgehende Lichtsysteme; geeignet für Deckenstärken von 8-20 mm; Oberfläche roh; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; optional nicht dimmbar

EN Luminaire housing from extruded aluminium profile with 38 mm wide light exit; for trimless installation in plasterboard ceilings; special edge design with perforations for better adhesion of filler; designed for continuous lighting systems; suitable for ceiling thickness of 8-20 mm; surface raw; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optional non-dimmable

Features



skimmed into plasterboard ceiling (trimless)



asymmetric lens

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR
aluminium raw 0



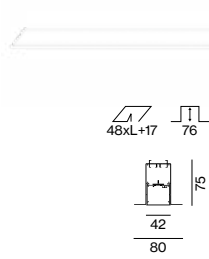
LIGHT OPTIC COVER
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
non DIM 1

LIGHT OPTIC LENS
asymmetric A



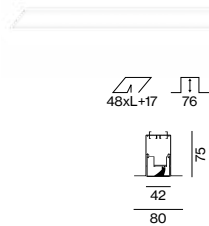
BASO 40 trimless

order luminaire + mounting accessories separately

OPAL HIGH PERFORMANCE



SYSTEM POWER	L (mm)	ORDER CODE
14W	600	0 4 5 - 0 6 2 2 ⬢⬢ 0 H
28W	1200	0 4 5 - 0 6 2 4 ⬢⬢ 0 H
42W	1800	0 4 5 - 0 6 2 6 ⬢⬢ 0 H
56W	2400	0 4 5 - 0 6 2 8 ⬢⬢ 0 H
28W corner	619x619	0 4 5 - 0 6 6 1 ⬢⬢ 0 H



WALLWASHER



SYSTEM POWER	L (mm)	ORDER CODE
14W	600	0 4 5 - 0 6 2 2 ⬢⬢ 0 A
28W	1200	0 4 5 - 0 6 2 4 ⬢⬢ 0 A
41W	1800	0 4 5 - 0 6 2 6 ⬢⬢ 0 A
55W	2400	0 4 5 - 0 6 2 8 ⬢⬢ 0 A
28W corner outer beam	619x619	0 4 5 - 0 6 6 1 ⬢⬢ 0 A
28W corner inner beam	619x619	0 4 5 - 0 6 6 2 ⬢⬢ 0 A

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance cover	3000K	23W/m	2150lm/m	92lm/W
asymmetric cover	4000K	23W/m	2280lm/m	98lm/W
asymmetric cover	3000K	23W/m	2200lm/m	96lm/W
asymmetric cover	4000K	23W/m	2341lm/m	102lm/W

Accessories

CHANNEL + BLIND COVER



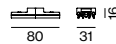
TYPE	L (mm)	ORDER CODE
linear	1200	0 4 5 - 0 6 0 4 0 0 7 B
linear	2400	0 4 5 - 0 6 0 8 0 0 7 B
corner connector 90°	619x619	0 4 5 - 0 6 4 1 0 0 7 B
custom cut		E 8 4 1 3 0 ⬢⬢ 7 B

END CAPS



TYPE	ORDER CODE
end caps (pair)	0 4 5 - 0 6 3 0 0 1 0

LINEAR CONNECTOR



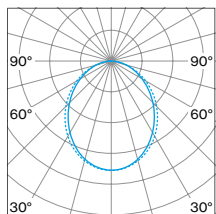
TYPE	ORDER CODE
linear connector (1 piece)	0 4 5 - 0 4 3 1 1 1 0
linear connector (10 pieces)	0 4 5 - 0 4 3 1 1 1 0 . 1 0

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

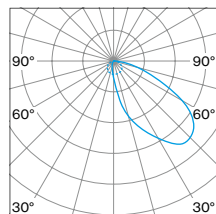
LIGHT DISTRIBUTION

opal high performance



direct

asymmetric



direct

Inspiration

2 Oaks House
Private Residence
Sofia, Bulgaria

PRODUCT
BASO 40 trimless

ARCHITECT
OBIA architecture studio
Sofia, Bulgaria

LIGHTING DESIGN
Ambitio Ltd.
Sofia, Bulgaria

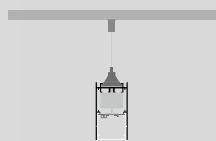




BASO 40

surface / suspended

xal.com/baso



Quickinfo

GENERAL

surface, suspended
IP 20

LED

Mid-power LED
up to 2345 lm/m
up to 102 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

BASO 40

surface /
suspended

[334 / 346](#)

CONCRETE INSTALLATION HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung mit 38 mm breitem Lichtaustritt; keine sichtbaren Schrauben; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil mit vormontierter Konvertereinheit für Montage vorab lieferbar; Lichteinsatz werkzeuglos montierbar; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte frei positionierbar; inkl. transparenter Einspeiseleitung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; oder mit speziell berechneter, asymmetrischer Linse für homogene vertikale Beleuchtungsstärken; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; optional nicht dimmbar

EN Luminaire body from extruded aluminium profile, angular design with 38 mm wide light emission; no visible screws; designed for continuous lighting systems; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile with pre-mounted converter unit for mounting available in advance; lighting insert can be installed without tools; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; freely positioned attachment to the luminaire; incl. transparent feed; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous vertical lighting intensity; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP 20; PC I; optional non-dimmable

Features



asymmetric lens

Standard configuration

COLOUR TEMPERATURE 5
3000K

CONTROL 3
DIM DALI

MATERIAL COLOUR 7
white



LIGHT OPTIC COVER H
opal high performance

Extended configuration

COLOUR TEMPERATURE 6
4000K

CONTROL 1
non DIM

MATERIAL COLOUR 8
beige* K
grey G
dark grey* D
dark brown* N
black 8

*not available for power feeder



+5% surcharges

LIGHT OPTIC LENS A
asymmetric lens



BASO 40 surface / suspended

order luminaire + mounting accessories separately

OPAL HIGH PERFORMANCE



SYSTEM POWER	L (mm)	ORDER CODE
14W	600	0 4 5 - 1 0 2 2 : : : : H
28W	1200	0 4 5 - 1 0 2 4 : : : : H
42W	1800	0 4 5 - 1 0 2 6 : : : : H
56W	2400	0 4 5 - 1 0 2 8 : : : : H
28W corner	600x600	0 4 5 - 1 0 6 1 : : : : H

WALLWASHER



SYSTEM POWER	L (mm)	ORDER CODE
14W	600	0 4 5 - 1 0 2 2 : : : : A
28W	1200	0 4 5 - 1 0 2 4 : : : : A
41W	1800	0 4 5 - 1 0 2 6 : : : : A
55W	2400	0 4 5 - 1 0 2 8 : : : : A
28W corner outer beam	600x600	0 4 5 - 1 0 6 1 : : : : A
28W corner inner beam	600x600	0 4 5 - 1 0 6 2 : : : : A

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance cover	3000K	23W/m	2150lm/m	92lm/W
asymmetric cover	4000K	23W/m	2280lm/m	98lm/W
asymmetric cover	3000K	23W/m	2200lm/m	96lm/W
asymmetric cover	4000K	23W/m	2341lm/m	102lm/W

Accessories

CHANNEL + BLIND COVER



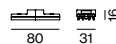
TYPE	L (mm)	ORDER CODE
linear	1200	0 4 5 - 1 0 0 4 0 0 : : B
linear	2400	0 4 5 - 1 0 0 8 0 0 : : B
corner connector 90°	600x600	0 4 5 - 1 0 4 1 0 0 : : B
custom cut		E 8 4 1 4 0 : : : : B

END CAPS



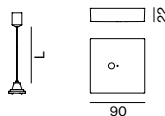
TYPE	ORDER CODE
end caps (pair)	0 4 5 - 1 0 3 0 0 1 : : B

LINEAR CONNECTOR



TYPE	ORDER CODE
linear connector (1 piece)	0 4 5 - 0 4 3 1 1 1 0
linear connector (10 pieces)	0 4 5 - 0 4 3 1 1 1 0 . 1 0

CABLE SUSPENSION / POWER FEEDER



TYPE	L (mm)	ORDER CODE
cable suspension	1500	0 0 5 - 2 1 5 2 1 1 0
power feeder 3 × 1,5 mm ² (non DIM)	1500	0 0 5 - 2 2 1 2 3 1 : : B
power feeder 5 × 1,5 mm ² (DIM DALI)	1500	0 0 5 - 2 2 1 2 4 1 : : B
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0

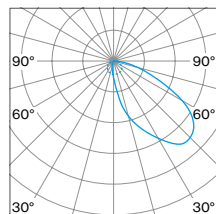
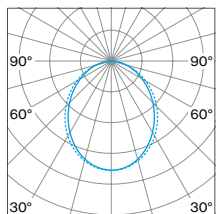
THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

LIGHT DISTRIBUTION

opal high performance

asymmetric



direct

direct

Inspiration

Bauer Group
Geretsried, Germany

ARCHITECT
designfunktion
Munich, Germany

PRODUCT
BASO 40 suspended

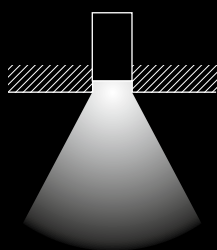




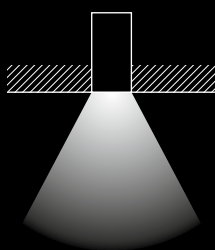
PROFILES 60 system

MOUNTING

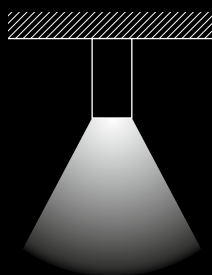
OFFSET
RECESSED



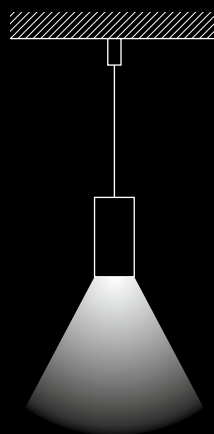
RECESSED



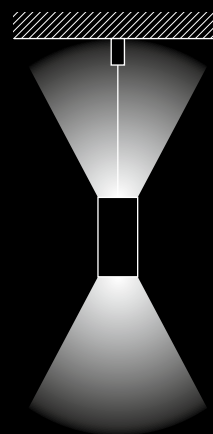
CEILING



SUSPENDED



SUSPENDED
INDIRECT

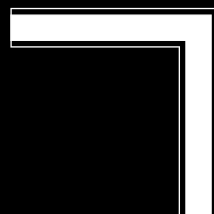


SHAPES

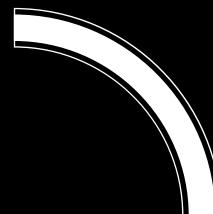
LINEAR



CORNER



CURVE



LIGHT DISTRIBUTION

OPAL



MICROPRISMATIC



WALLWASHER



SPOTLIGHT



CONTROL

non DIM
power switch
3000K / 4000K

DIM DALI
3000K / 4000K

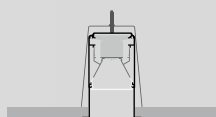
DIM DALI
tunable white
3000-6000K

non DIM, DIM DALI
emergency light
3000K / 4000K

CANYON 60

trim offset

xal.com/canyon



Quickinfo

GENERAL

recessed
IP 20

LED

Mid-power LED
up to 97lm/W
3000 K, 4000 K
CRI > 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
impact resistant diffuser
halogen-free cable

INSET 60

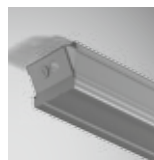
wallwasher,
JUST 32, EM

[page 522](#)



CONCRETE INSTALLATION HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55mm breitem Lichtaustritt; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; Einbauleuchte mit umlaufendem Rand; für durchgehende Lichtsysteme; für Deckenstärken von 8-25mm; Oberfläche weiß oder schwarz pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Leuchte laut DIN 57710 Teil 13 / VDE 0710 Teil 13 ballwurfsicher ausgeführt; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial ≤ 3 MacAdam; Lichtfarbe 3000 K oder 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI ≥ 80; L90 / 50000 h; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Luminaire housing from extruded aluminium profile with 55mm wide light exit; uncluttered ceiling look through recessed lighting level; Recessed luminaire with trim; for continuous lighting systems; for ceiling thickness of 8-25mm; surface powder coated in white or black; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; luminaire, ball proof version to 57710 part 13 / VDE 0710 part 13; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial ≤ 3 MacAdam; light colour 3000 K or 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI ≥ 80; L90 / 50000 h; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660-1171 mm)



tunable white
3000-6000 K

Standard configuration

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H
microprismatic	Z
blind cover*	B
*only for corner 90°	

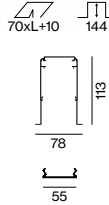
EMERGENCY LIGHT	
1h Accupack	N L 1
3h Accupack	N L 3

Extended configuration

MATERIAL COLOUR	
black	8



+5% surcharges



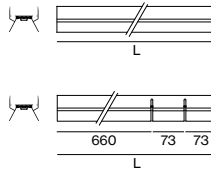
CANYON 60 trim offset

order installation channel, cover, light inset + mounting accessories separately

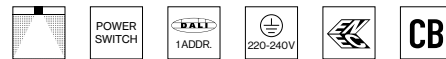
INSTALLATION CHANNEL + LIGHT OPTIC COVER

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 8 - 5 1 2 7
channel	1472	0 3 8 - 5 1 5 7
channel	3000	0 3 8 - 5 3 0 7
channel	custom	E 8 2 3 3 0
cover	1171	0 0 6 - 1 6 1 2 2
cover	1470	0 0 6 - 1 6 1 5 2
cover	2997	0 0 6 - 1 6 3 0 2
cover	custom	E 8 0 6 3 0 0
channel corner 90° + cover	144x144	0 3 8 - 6 2 6 7
blind cover	1172	0 0 6 - 1 8 1 2
blind cover	1472	0 0 6 - 1 8 1 5
blind cover	3000	0 0 6 - 1 8 3 0
blind cover	custom	E 8 0 6 3 0 B

more lengths, X- and T-connector on request

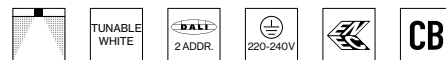


LIGHT INSET 60



non DIM power switch e/e²/e²⁺ / DIM DALI e²

SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 9 3 P 2 : : 7
13 / 22 / 31W	871	0 0 7 - 9 3 P 3 : : 7
17 / 29 / 41W	1171	0 0 7 - 9 3 P 4 : : 7
21 / 37 / 52W	1463	0 0 7 - 9 3 P 5 : : 7
34 / 59 / 82W	2341	0 0 7 - 9 3 P 8 : : 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 9 3 P F : : 7

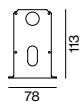


DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22W	871	0 0 7 - 9 3 3 3 D 3 7
29W	1171	0 0 7 - 9 3 3 4 D 3 7
37W	1463	0 0 7 - 9 3 3 5 D 3 7
59W	2341	0 0 7 - 9 3 3 8 D 3 7

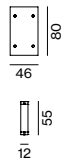
Accessories

END CAPS



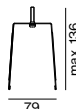
TYPE	ORDER CODE
end caps (pair)	0 3 8 - 6 3 0 7

LINEAR CONNECTOR



TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 4 6
linear connector (10 pieces)	0 0 5 - 4 0 0 4 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

MOUNTING BRACKET



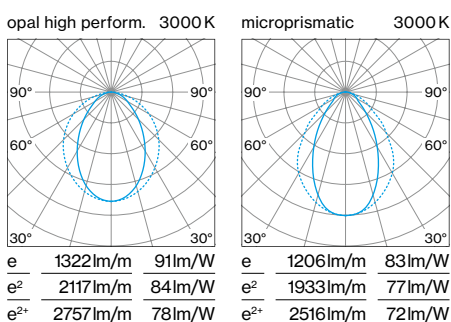
TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	0 3 8 - 6 0 7 0 0
mounting bracket (25 pieces)	8-25	0 3 8 - 6 0 7 0 0 . 2 5

number of brackets required: length of your system in metres+1

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

LIGHT DISTRIBUTION



Inspiration

Microsoft headquarters
Vienna, Austria

PRODUCT
CANYON 60 trim offset

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

LIGHTING DESIGN
INNOCAD Architektur ZT
Graz, Austria

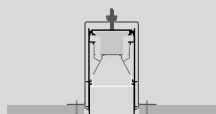
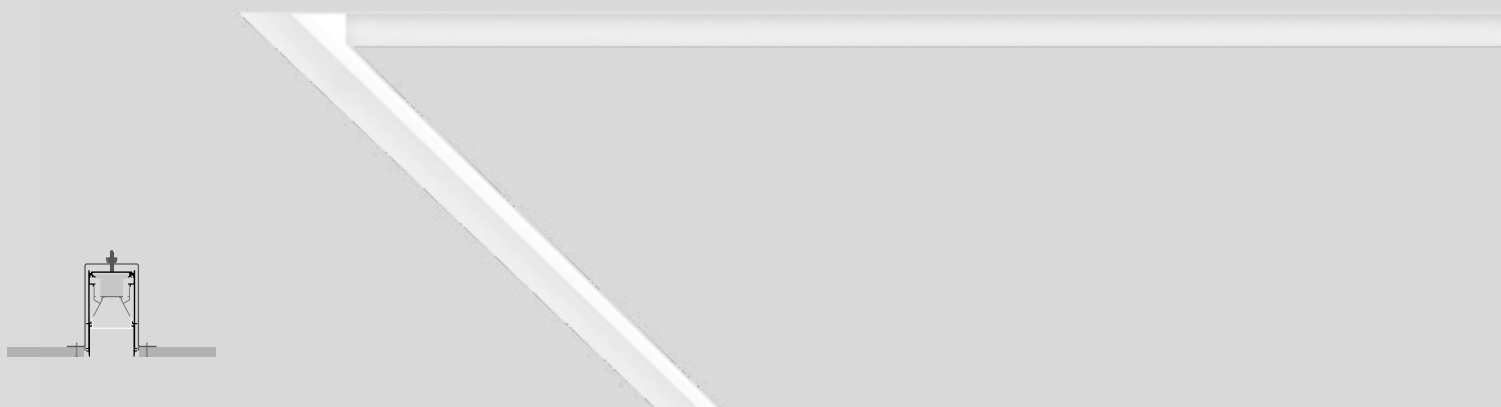




CANYON 60

trimless offset

xal.com/canyon



Quickinfo

GENERAL

recessed
IP 20
plasterboard ceilings only

LED

Mid-power LED
up to 97 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
offset PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated, anodised
impact resistant diffusor
halogen-free cable

INSET 60

wallwasher,
JUST 32, EM

[page 522](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55 mm breitem Lichtaustritt; ruhiges Deckenbild durch zurückversetzte Leuchtenebene; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; für durchgehende Lichtsysteme; für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet oder schwarz eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Leuchte laut DIN 57710 Teil 13 / VDE 0710 Teil 13 ballwurfsicher ausgeführt; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial ≤ 3 MacAdam; Lichtfarbe 3000 K oder 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI ≥ 80; L90 / 50000 h; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Luminaire housing from extruded aluminium profile with 55 mm wide light exit; uncluttered ceiling look through recessed lighting level; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; for continuous lighting systems; for ceiling thickness of 8-25 mm; surface white powder coated or anodised black; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; luminaire, ball proof version to 57710 part 13 / VDE 0710 part 13; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial ≤ 3 MacAdam; light colour 3000 K or 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI ≥ 80; L90 / 50000 h; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660–1171 mm)



tunable white
3000–6000 K

Standard configuration

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H
microprismatic	Z
blind cover*	B
*only for corner 90°	

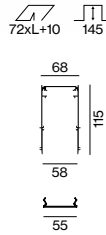
EMERGENCY LIGHT	
1h Accupack	N L 1
3h Accupack	N L 3

Extended configuration

MATERIAL COLOUR	
black	8



+5% surcharges



CANYON 60 trimless offset

order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 8 - 5 1 2 3
channel	1472	0 3 8 - 5 1 5 3
channel	3000	0 3 8 - 5 3 0 3
channel	custom	E 8 2 2 3 0
cover	1171	0 0 6 - 1 6 1 2 2
cover	1470	0 0 6 - 1 6 1 5 2
cover	2997	0 0 6 - 1 6 3 0 2
cover	custom	E 8 0 6 3 0 0
channel corner 90° + cover	140x140	0 3 8 - 6 2 6 3
blind cover	1172	0 0 6 - 1 8 1 2
blind cover	1472	0 0 6 - 1 8 1 5
blind cover	3000	0 0 6 - 1 8 3 0
blind cover	custom	E 8 0 6 3 0 B

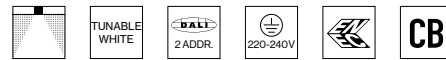
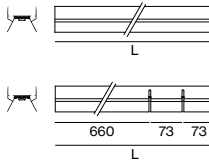
more lengths, X- and T-connector on request

LIGHT INSET 60



non DIM power switch e/e²/e²⁺ / DIM DALI e²

SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 9 3 P 2
13 / 22 / 31W	871	0 0 7 - 9 3 P 3
17 / 29 / 41W	1171	0 0 7 - 9 3 P 4
21 / 37 / 52W	1463	0 0 7 - 9 3 P 5
34 / 59 / 82W	2341	0 0 7 - 9 3 P 8
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 9 3 P F

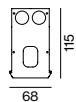


DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22W	871	0 0 7 - 9 3 3 3 D 3 7
29W	1171	0 0 7 - 9 3 3 4 D 3 7
37W	1463	0 0 7 - 9 3 3 5 D 3 7
59W	2341	0 0 7 - 9 3 3 8 D 3 7

Accessories

END CAPS



TYPE	ORDER CODE
end caps (pair)	0 3 8 - 6 3 0 4

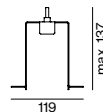
LINEAR CONNECTOR



TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 2 7 6
linear connector (10 pieces)	0 0 5 - 4 0 2 7 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0



MOUNTING BRACKET



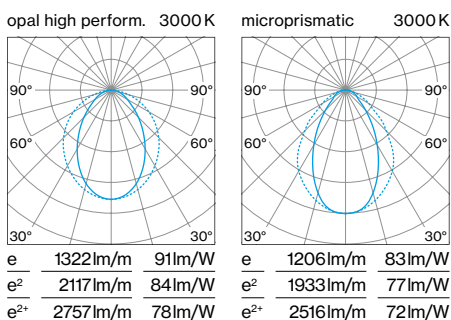
TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	0 3 8 - 6 0 2 0 0
mounting bracket (25 pieces)	8-25	0 3 8 - 6 0 2 0 0 . 2 5

number of brackets required: length of your system in metres+1

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

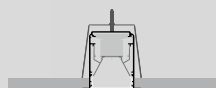
LIGHT DISTRIBUTION



FRAME 60

trim

xal.com/frame



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 3562lm/m
up to 115lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

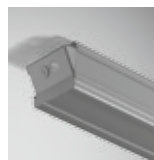
INSET 60

wallwasher,
JUST 32, EM
[page 522](#)



CONCRETE INSTALLATION HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55mm breitem Lichtaustritt; Einbauleuchte mit umlaufendem Rand; ausgelegt für durchgehende Lichtsysteme; geeignet für Deckenstärken von 8-25mm; Oberfläche weiß oder grau pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Luminaire housing from extruded aluminium profile with 55mm wide light exit; Recessed luminaire with trim; designed for continuous lighting systems; suitable for ceiling thickness of 8-25mm; surface powder coated in white or grey; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660-1171mm)



tunable white
3000-6000K

Standard configuration

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆️⬆️
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

MATERIAL COLOUR	☑️
white	7



LIGHT OPTIC COVER	☐
opal high performance	H
microprismatic	Z
microprismatic (UGR < 19)*	G
blind cover**	B

*UGR < 19 only with e LED
**only for channel corner 90°

EMERGENCY LIGHT	●
1h Accupack	N L 1
3h Accupack	N L 3

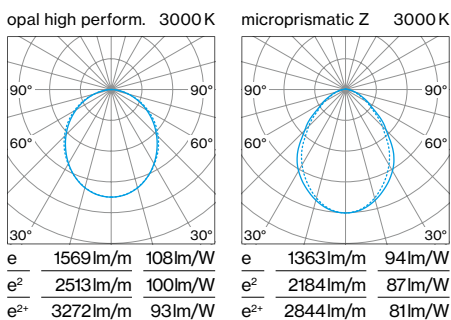
Extended configuration

MATERIAL COLOUR	☑️
grey	G

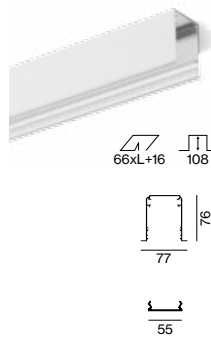
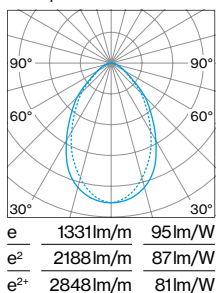


+5% surcharges

LIGHT DISTRIBUTION



microprismatic G 3000K



FRAME 60 trim

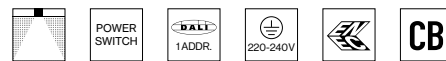
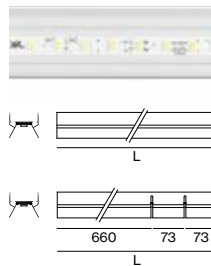
order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 5 - 0 1 2 3 ☑️
channel	1472	0 3 5 - 0 1 5 3 ☑️
channel	3000	0 3 5 - 0 3 0 3 ☑️
channel	custom	E 8 2 1 4 0 ···· ☑️
cover	1171	0 0 6 - 1 6 1 2 2 ☐
cover	1470	0 0 6 - 1 6 1 5 2 ☐
cover	2997	0 0 6 - 1 6 3 0 2 ☐
cover	custom	E 8 0 6 3 0 ···· 0 ☐
channel corner 90° + cover	144x144	0 3 5 - 1 2 6 3 ☑️ ☐
blind cover	1172	0 0 6 - 1 8 1 2 ☑️
blind cover	1472	0 0 6 - 1 8 1 5 ☑️
blind cover	3000	0 0 6 - 1 8 3 0 ☑️
blind cover	custom	E 8 0 6 3 0 ···· ☑️ B

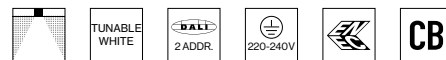
more lengths, X- and T-connector on request

LIGHT INSET 60



non DIM power switch e/e²/e²⁺ / DIM DALI e²

SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 9 3 P 2 ☑️ ☑️ 7
13 / 22 / 31W	871	0 0 7 - 9 3 P 3 ☑️ ☑️ 7
17 / 29 / 41W	1171	0 0 7 - 9 3 P 4 ☑️ ☑️ 7
21 / 37 / 52W	1463	0 0 7 - 9 3 P 5 ☑️ ☑️ 7 ●
34 / 59 / 82W	2341	0 0 7 - 9 3 P 8 ☑️ ☑️ 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 9 3 P F ☑️ ☑️ 7



DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22W	871	0 0 7 - 9 3 3 3 D 3 7
29W	1171	0 0 7 - 9 3 3 4 D 3 7
37W	1463	0 0 7 - 9 3 3 5 D 3 7
59W	2341	0 0 7 - 9 3 3 8 D 3 7

Accessories

END CAPS



TYPE	ORDER CODE
end caps (pair)	0 3 5 - 1 3 1 3 ☑️

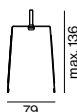
LINEAR CONNECTOR



TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 4 6
linear connector (10 pieces)	0 0 5 - 4 0 0 4 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0



MOUNTING BRACKET



TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	0 3 5 - 1 0 2 0 0
mounting bracket (25 pieces)	8-25	0 3 5 - 1 0 2 0 0 . 2 5

number of brackets required: length of your system in metres+1

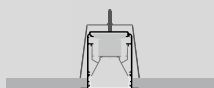
THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

FRAME 60 CURVE

trim

xal.com/frame



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 2450lm/m
up to 114lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Kreissegment aus gerolltem Aluminiumprofil mit 55 mm breitem Lichtaustritt, nahtlos verschweißt; Einbauleuchte mit umlaufendem Rand; ausgelegt für durchgehende Lichtsysteme; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß oder grau pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Circular segment of rolled aluminium profile with 55 mm wide light emission, seamlessly welded; Recessed luminaire with trim; designed for continuous lighting systems; suitable for ceiling thickness of 8-25 mm; surface powder coated in white or grey; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Standard configuration

LED TYPE	
e	4
e ²	5

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI (only e ²)	3

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H

Extended configuration

MATERIAL COLOUR	
grey	G



+5% surcharges

LIGHT OPTIC COVER	
microprismatic	Z

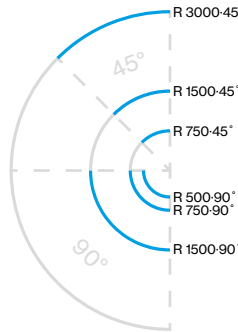
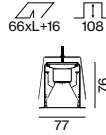
Options on request

LIGHT OPTIC COVER	
microprismatic (UGR < 19)	



FRAME 60 CURVE trim

order installation channel + mounting accessories separately

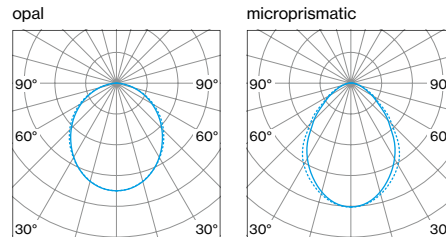


INSTALLATION CHANNEL + LIGHT INSET + LIGHT OPTIC COVER

SYSTEM POWER (e / e ²)	R (mm)	ORDER CODE
13 / 17W	500-90°	0 3 5 - 0 9 0 5
10 / 13W	750-45°	0 3 5 - 0 9 0 0
18 / 27W	750-90°	0 3 5 - 0 9 0 1
18 / 27W	1500-45°	0 3 5 - 0 9 0 2
37 / 53W (2 DALI)	1500-90°	0 3 5 - 0 9 0 3
37 / 53W (2 DALI)	3000-45°	0 3 5 - 0 9 0 4

COVER	LED TYPE	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal cover	e	3000K	16W/m	1670lm/m	107lm/W
		4000K		1780lm/m	114lm/W
microprismatic cover	e ²	3000K	23W/m	2300lm/m	101lm/W
		4000K		2440lm/m	108lm/W
	e	3000K	16W/m	1630lm/m	104lm/W
		4000K		1730lm/m	111lm/W
e ²	3000K	23W/m	2240lm/m	99lm/W	
	4000K		2390lm/m	105lm/W	

LIGHT DISTRIBUTION



Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 3 5 - 1 3 1 3

LINEAR CONNECTOR

TYPE	ORDER CODE
linear to curve profile	0 0 5 - 4 0 1 5 9
curve to curve profile	0 0 5 - 4 0 1 5 8
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

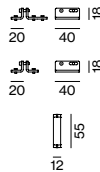
INSTALLATION TEMPLATE

TYPE	ORDER CODE
500 / 90°	0 3 4 - 0 9 0 1 3 1 0
750 / 90° (2x45°)	0 3 4 - 0 9 0 1 0 1 0
1500 / 45°	0 3 4 - 0 9 0 1 1 1 0
3000 / 22,5°	0 3 4 - 0 9 0 1 2 1 0

034-0901010 (1 piece) 034-0901010.10 (10 pieces)

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5



Inspiration

RLB headquarters
Graz, Austria

PRODUCT
FRAME 60 curve trim

ARCHITECT
Strohecker ZT GmbH
Graz, Austria

LIGHTING DESIGN
Klauss Elektro-Anlagen
Seiersberg, Austria





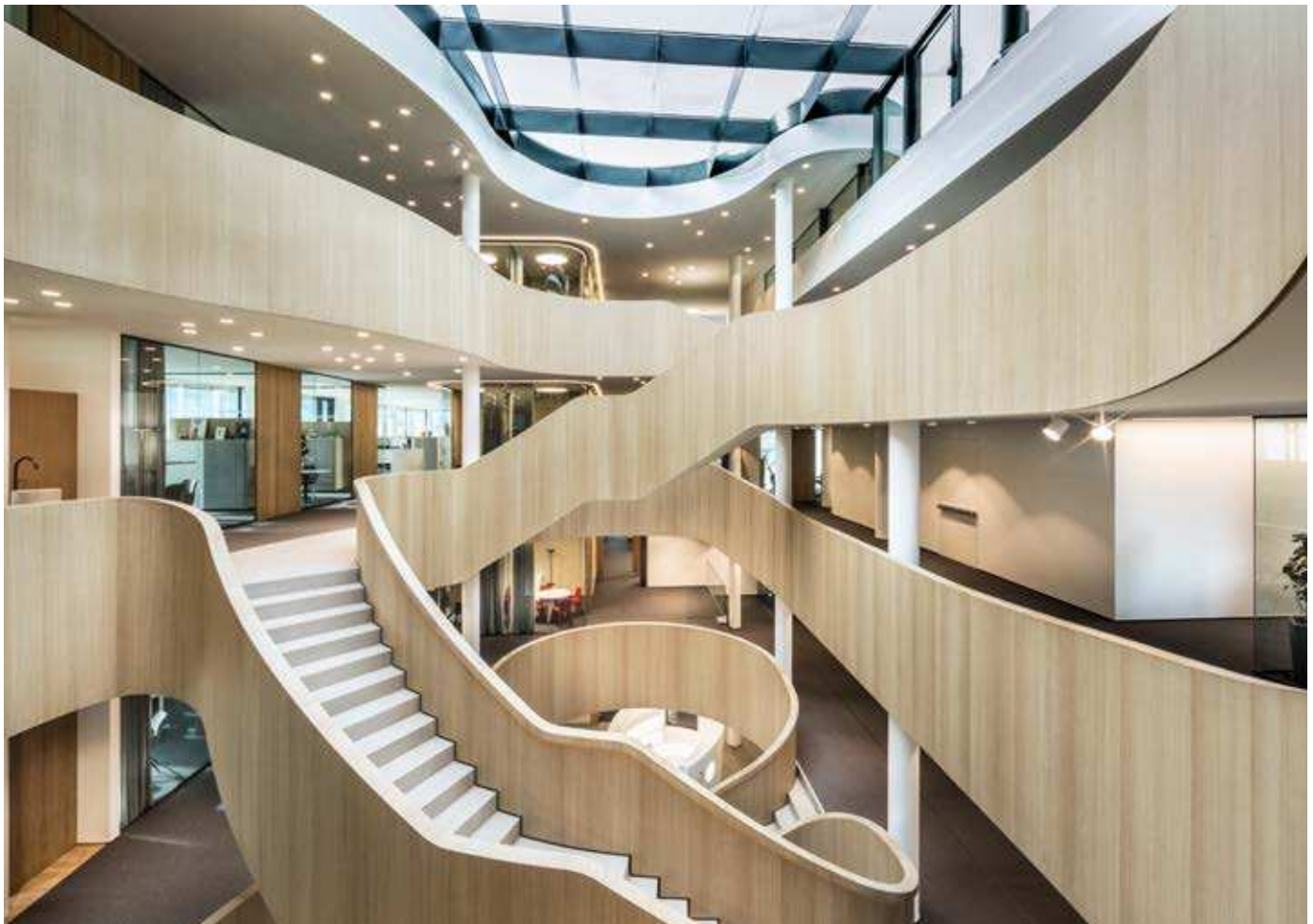
Inspiration

Dr. Schaer
Burgstall, Italy

ARCHITECT
monovolume architecture+design
Bolzano, Italy

LIGHTING DESIGN
VON LUTZ - electrical and lighting projects
Eurolicht, Roland Fischnaller
Bolzano, Italy

PRODUCT
FRAME 60 CURVE trim

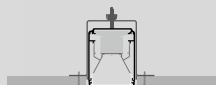




MINIMAL 60

trimless

xal.com/minimal



Quickinfo

GENERAL

recessed
IP 20
opt. concrete installation housing

LED

Mid-power LED
up to 3562 lm/m
up to 115 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

INSET 60

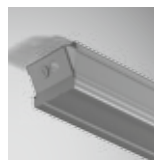
wallwasher,
JUST 32, EM

[page 522](#)



CONCRETE INSTALLATION HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 55 mm breitem Lichtaustritt; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; für durchgehende Lichtsysteme; für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial \leq 3 MacAdam; Lichtfarbe 3000 K oder 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI \geq 80; L90 / 50000 h; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Luminaire housing from extruded aluminium profile with 55 mm wide light exit; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; for continuous lighting systems; for ceiling thickness of 8-25 mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial \leq 3 MacAdam; light colour 3000 K or 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI \geq 80; L90 / 50000 h; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660-1171 mm)



tunable white
3000-6000 K

Standard configuration

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

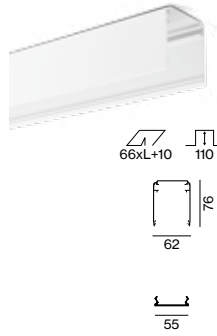
MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H
microprismatic	Z
microprismatic (UGR < 19)*	G
blind cover**	B

*UGR < 19 only with e LED
**only for channel corner 90°

EMERGENCY LIGHT	
1h Accupack	N L 1
3h Accupack	N L 3



MINIMAL 60 trimless

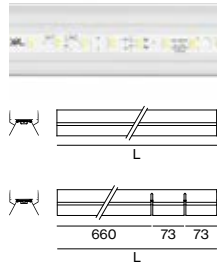
order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 6 - 0 1 2 4 7
channel	1472	0 3 6 - 0 1 5 4 7
channel	3000	0 3 6 - 0 3 0 4 7
channel	custom	E 8 2 0 3 0 7
cover	1171	0 0 6 - 1 6 1 2 2 □
cover	1470	0 0 6 - 1 6 1 5 2 □
cover	2997	0 0 6 - 1 6 3 0 2 □
cover	custom	E 8 0 6 3 0 0 □
channel corner 90° + cover	140x140	0 3 6 - 1 2 6 4 7 □
blind cover	1172	0 0 6 - 1 8 1 2 7
blind cover	1472	0 0 6 - 1 8 1 5 7
blind cover	3000	0 0 6 - 1 8 3 0 7
blind cover	custom	E 8 0 6 3 0 7 B

more lengths, X- and T-connector on request

LIGHT INSET 60



non DIM power switch e/e²/e²⁺ / DIM DALI e²

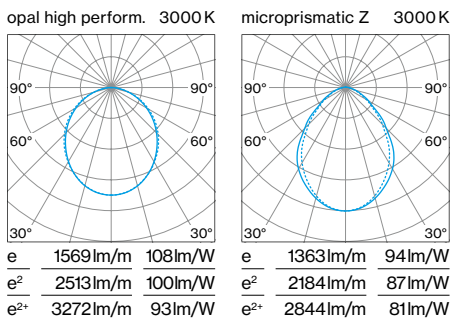
SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 9 3 P 2 : : : 7
13 / 22 / 31W	871	0 0 7 - 9 3 P 3 : : : 7
17 / 29 / 41W	1171	0 0 7 - 9 3 P 4 : : : 7
21 / 37 / 52W	1463	0 0 7 - 9 3 P 5 : : : 7 ●
34 / 59 / 82W	2341	0 0 7 - 9 3 P 8 : : : 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 9 3 P F : : : 7



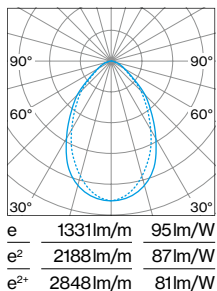
DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22 W	871	0 0 7 - 9 3 3 3 D 3 7
29 W	1171	0 0 7 - 9 3 3 4 D 3 7
37 W	1463	0 0 7 - 9 3 3 5 D 3 7
59 W	2341	0 0 7 - 9 3 3 8 D 3 7

LIGHT DISTRIBUTION



microprismatic G 3000K



Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 3 6 - 1 3 0 4 7

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 4 6
linear connector (10 pieces)	0 0 5 - 4 0 0 4 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	0 3 6 - 1 0 2 0 0
mounting bracket (25 pieces)	8-25	0 3 6 - 1 0 2 0 0 . 2 5

number of brackets required: length of your system in metres+1

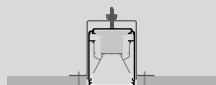
THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

MINIMAL 60 CURVE

trimless

xal.com/minimal



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 2450lm/m
up to 114lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

DE Kreissegment aus gerolltem Aluminiumprofil mit 55 mm breitem Lichtaustritt, nahtlos verschweißt; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; ausgelegt für durchgehende Lichtsysteme; geeignet für Deckenstärken von 8-25 mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

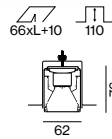
EN Circular segment of rolled aluminium profile with 55 mm wide light emission, seamlessly welded; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; designed for continuous lighting systems; suitable for ceiling thickness of 8-25 mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Standard configuration

LED TYPE	
e	4
e ²	5



COLOUR TEMPERATURE	
3000K	5
4000K	6

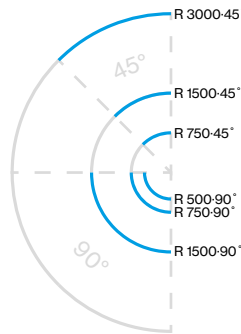


CONTROL	
non DIM	1
DIM DALI (only e ²)	3

MATERIAL COLOUR	
white	7

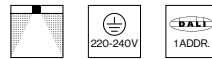


LIGHT OPTIC COVER	
opal high performance	H



MINIMAL 60 CURVE trimless

order installation channel + mounting accessories separately



INSTALLATION CHANNEL + LIGHT INSET + LIGHT OPTIC COVER

SYSTEM POWER (e / e ²)	R (mm)	ORDER CODE
13 / 17W	500-90°	0 3 6 - 0 9 0 5
10 / 13W	750-45°	0 3 6 - 0 9 0 0
18 / 27W	750-90°	0 3 6 - 0 9 0 1
18 / 27W	1500-45°	0 3 6 - 0 9 0 2
37 / 53W (2 DALI)	1500-90°	0 3 6 - 0 9 0 3
37 / 53W (2 DALI)	3000-45°	0 3 6 - 0 9 0 4

COVER	LED TYPE	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal cover	e	3000K	16W/m	1670lm/m	107lm/W
		4000K		1780lm/m	114lm/W
	e ²	3000K	23W/m	2300lm/m	101lm/W
		4000K		2440lm/m	108lm/W
microprismatic cover	e	3000K	16W/m	1630lm/m	104lm/W
		4000K		1730lm/m	111lm/W
	e ²	3000K	23W/m	2240lm/m	99lm/W
		4000K		2390lm/m	105lm/W

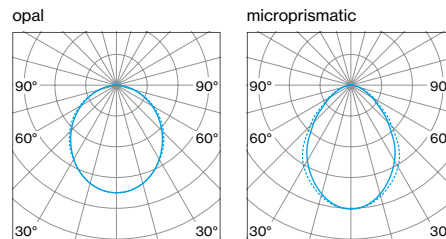
Extended configuration

LIGHT OPTIC COVER	
microprismatic	Z

Options on request

LIGHT OPTIC COVER	
microprismatic (UGR < 19)	

LIGHT DISTRIBUTION



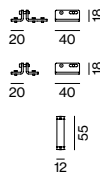
Accessories

END CAPS



TYPE	ORDER CODE
end caps (pair)	0 3 6 - 1 3 0 4 7

LINEAR CONNECTOR



TYPE	ORDER CODE
linear to curve profile	0 0 5 - 4 0 1 5 9
curve to curve profile	0 0 5 - 4 0 1 5 8
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

INSTALLATION TEMPLATE

TYPE	ORDER CODE
500 / 90°	0 3 4 - 0 9 0 1 3 1 0
750 / 90° (2x45°)	0 3 4 - 0 9 0 1 0 1 0
1500 / 45°	0 3 4 - 0 9 0 1 1 1 0
3000 / 22,5°	0 3 4 - 0 9 0 1 2 1 0

034-0901010 (1 piece) 034-0901010.10 (10 pieces)

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

Inspiration

CMS Office
Paris, France

ARCHITECT
Lobjoy & Bouvier & Boisseau
Boulogne-Billancourt, France

PRODUCT
MINIMAL 60 CURVE trimless
MINIMAL 60 trimless





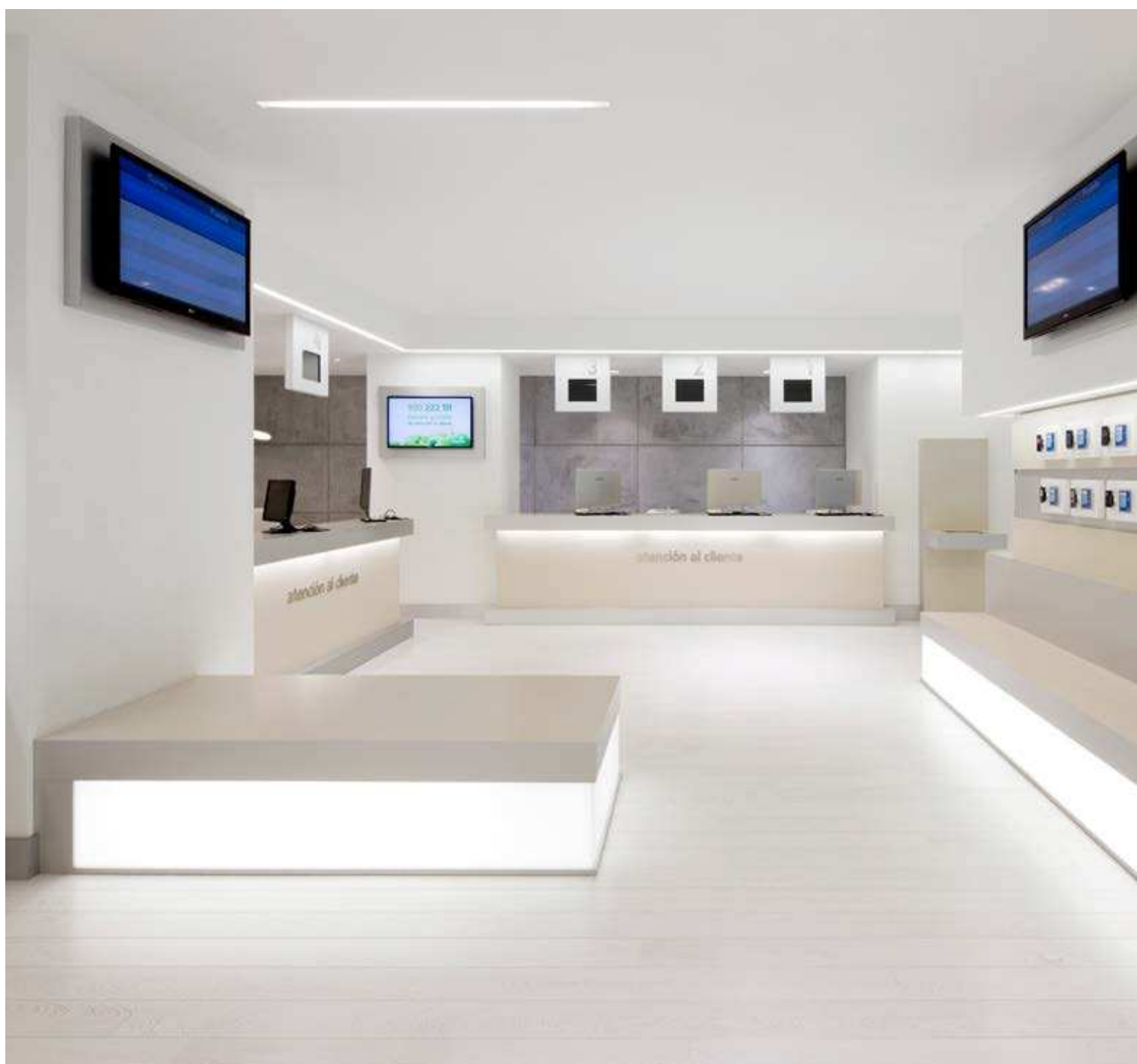
Inspiration

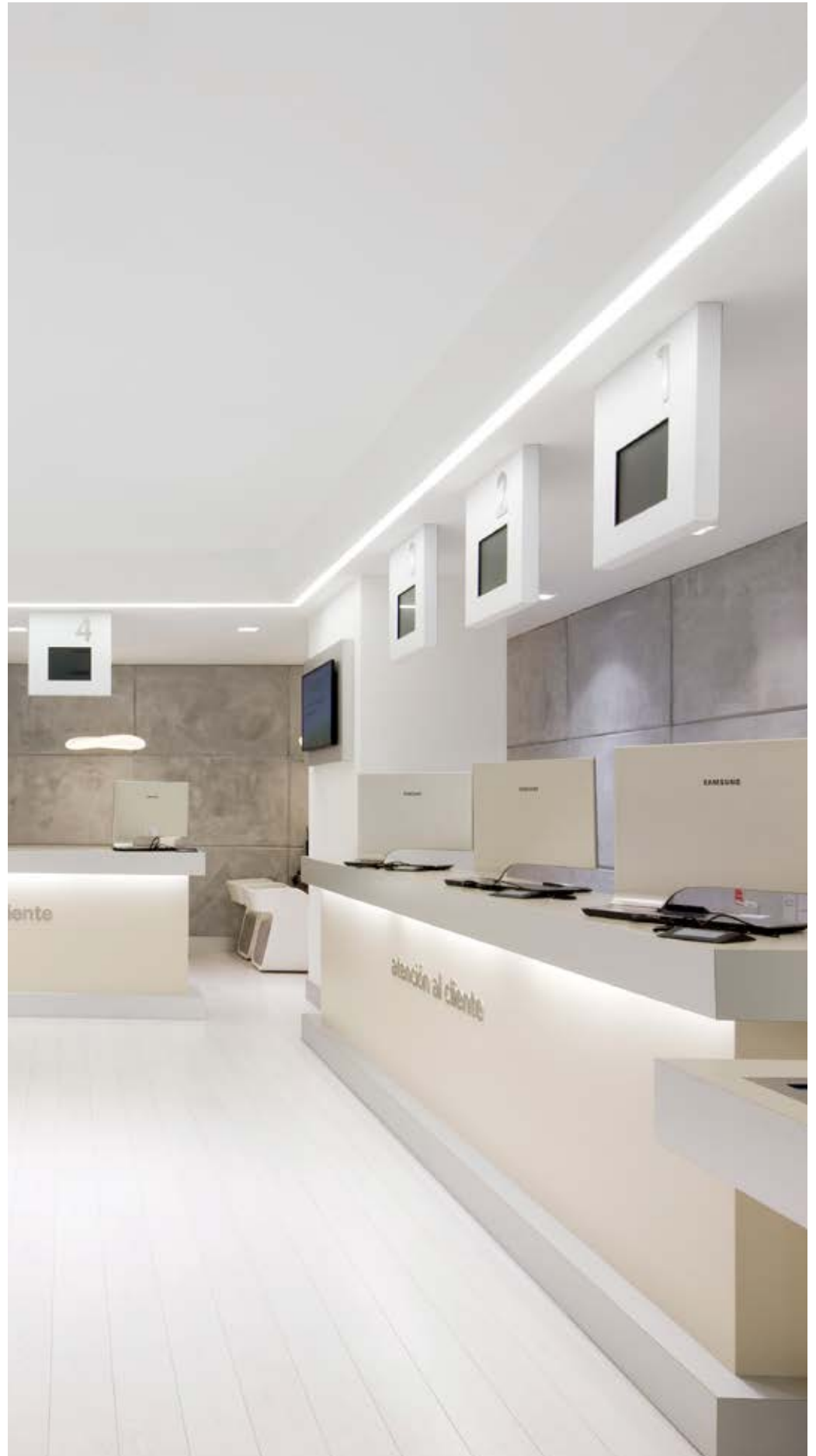
Telecable
Gijón, Spain

PRODUCT
MINIMAL 60 trimless

ARCHITECT
Arquitectos Pablo Poch
Duo Comunicacion
Gijón, Spain

LIGHTING DESIGN
Lux Gijón
Gijón, Spain

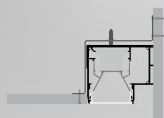




EDGE 60

trimless

xal.com/edge



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 3562lm/m
up to 115lm/W
3000K, 4000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

INSET 60

wallwasher,
JUST 32, EM

[page 522](#)



Description

DE Wand- bzw. Deckenanschlussleuchte aus Aluminiumstrangpressprofil mit 55mm breitem Lichtaustritt, mit Schattenfuge; geeignet für den randlosen Einbau in Gipskartondecken und in Böden; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; für durchgehende Lichtsysteme; für Deckenstärken von 8-25mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16W/m, e² LED - 24W/m, e²⁺ LED - 36W/m; Binning initial ≤ 3 MacAdam; Lichtfarbe 3000K oder 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI ≥ 80; L90 / 50000h; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Wall or ceiling adjacent luminaire in extruded aluminium profile with 55mm wide light emission, with shadow joint; suitable for trimless installation in plasterboard ceilings and floors; special edge design with grooves for better adhesion of filler; for continuous lighting systems; for ceiling thickness of 8-25mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16W/m, e² LED - 24W/m, e²⁺ LED - 36W/m; binning initial ≤ 3 MacAdam; light colour 3000K or 4000K, optionally with tunable-white diodes (3000-6000K); CRI ≥ 80; L90 / 50000h; protection class IP20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73mm steps
adjust. (660-1171mm)



tunable white
3000-6000K

Standard configuration

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	◀▶
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

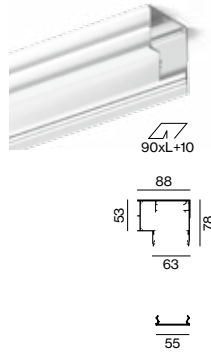
MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	☐
opal high performance	H
microprismatic	Z
microprismatic (UGR < 19)*	G
blind cover**	B

*UGR < 19 only with e LED
**only for channel corner 90°

EMERGENCY LIGHT	●
1h Accupack	N L 1
3h Accupack	N L 3



EDGE 60 trimless

order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 6 - 5 1 2 4 7
channel	1472	0 3 6 - 5 1 5 4 7
channel	3000	0 3 6 - 5 3 0 4 7
channel	custom	E 8 2 4 6 0 7
cover	1171	0 0 6 - 1 6 1 2 2 ☐
cover	1470	0 0 6 - 1 6 1 5 2 ☐
cover	2997	0 0 6 - 1 6 3 0 2 ☐
cover	custom	E 8 0 6 3 0 0 ☐
inner corner floor 90° + cover	228x228	0 3 6 - 5 2 6 4 7 ☐
outer corner floor 90° + cover	150x150	0 3 6 - 5 2 6 6 7 ☐
inner corner ceiling 90° + cover	150x150	0 3 6 - 5 2 7 4 7 ☐
outer corner ceiling 90° + cover	150x150	0 3 6 - 5 2 7 6 7 ☐
blind cover	1172	0 0 6 - 1 8 1 2 7
blind cover	1472	0 0 6 - 1 8 1 5 7
blind cover	3000	0 0 6 - 1 8 3 0 7
blind cover	custom	E 8 0 6 3 0 7 B

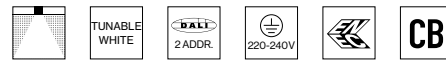
more lengths, X- and T-connector on request

LIGHT INSET 60



non DIM power switch e/e²/e²⁺ / DIM DALI e²

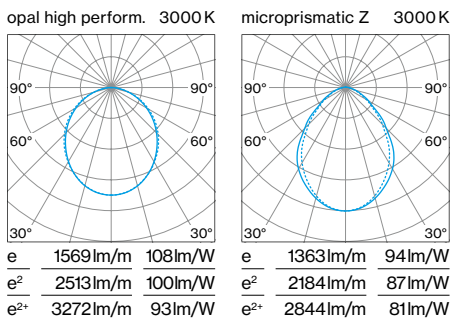
SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 9 3 P 2 ☐☐ 7
13 / 22 / 31W	871	0 0 7 - 9 3 P 3 ☐☐ 7
17 / 29 / 41W	1171	0 0 7 - 9 3 P 4 ☐☐ 7
21 / 37 / 52W	1463	0 0 7 - 9 3 P 5 ☐☐ 7 ●
34 / 59 / 82W	2341	0 0 7 - 9 3 P 8 ☐☐ 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 9 3 P F ☐☐ 7



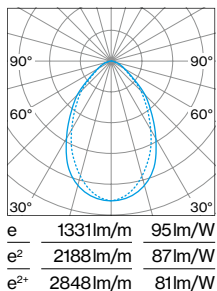
DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
29W	1171	0 0 7 - 9 3 3 4 D 3 7

LIGHT DISTRIBUTION



microprismatic G 3000K



Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 3 6 - 5 3 1 4 7

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 4 6
linear connector (10 pieces)	0 0 5 - 4 0 0 4 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

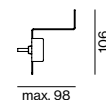
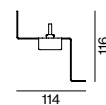
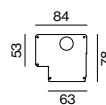
MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
ceiling bracket (1 piece)	8-25	0 3 6 - 5 4 2 0 0
ceiling bracket (25 pieces)	8-25	0 3 6 - 5 4 2 0 0 . 2 5
floor bracket (1 piece)	8-25	0 3 6 - 5 4 3 0 0
floor bracket (25 pieces)	8-25	0 3 6 - 5 4 3 0 0 . 2 5

number of brackets required: length of your system in metres+1

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5



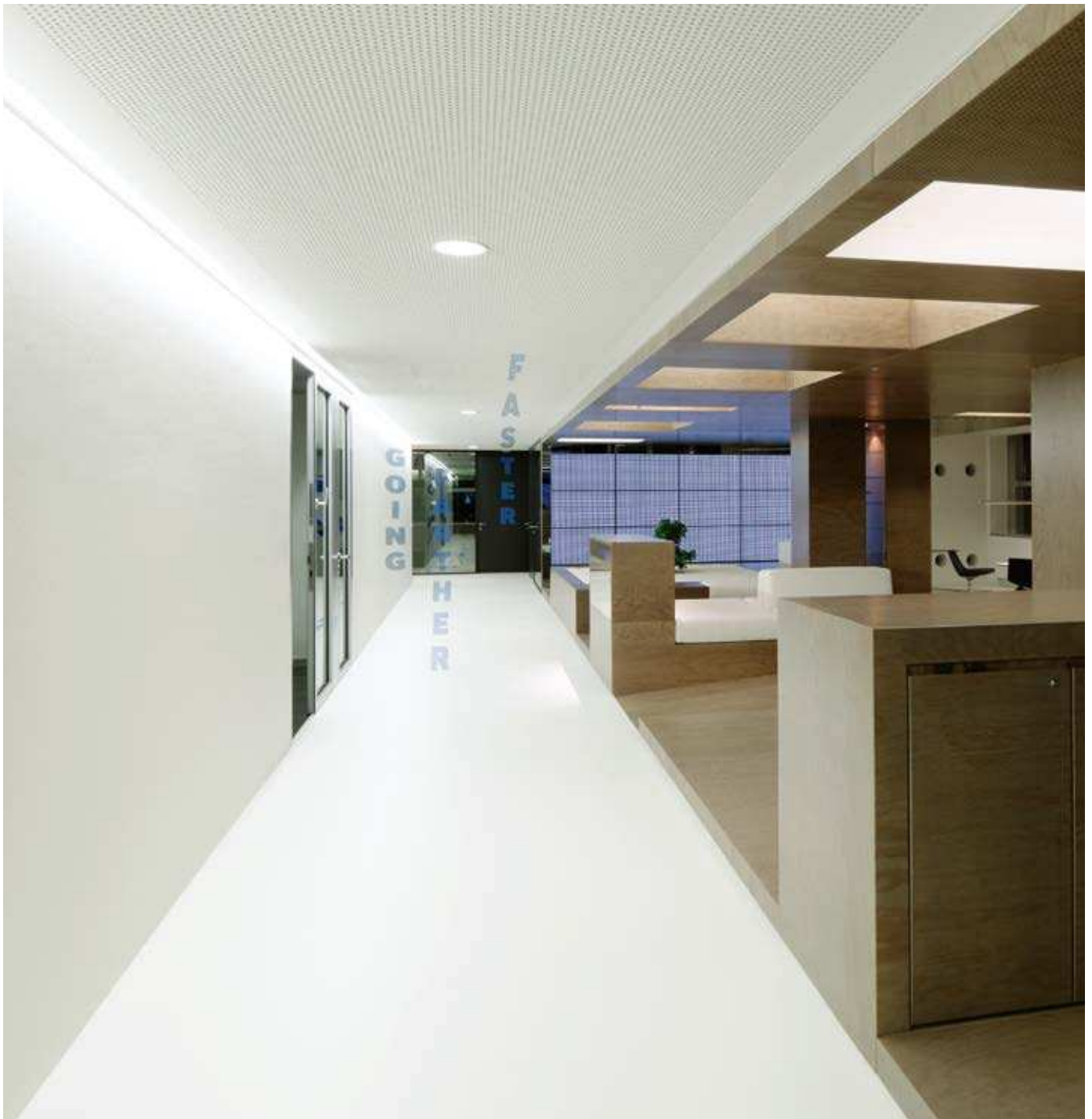
Inspiration

Samsung Headquarters
Vienna, Austria

PRODUCT
EDGE 60 trimless recessed

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

LIGHTING DESIGN
INNOCAD Architektur ZT
Graz, Austria

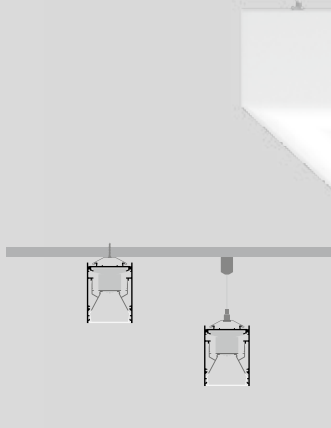




MINO 60

ceiling / suspended

xal.com/mino



Quickinfo

GENERAL

ceiling, suspended

IP20

opt. concrete installation housing

LED

Mid-power LED

up to 3562lm/m

up to 115lm/W

3000K, 4000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

L90 / 50000h

OPTICAL

direct illumination

PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

transparent feeder cable

PHYSICAL

aluminium

powder-coated

halogen-free cable (internal wiring)

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung, 55 mm breiter Lichtaustritt; keine sichtbaren Schrauben; für durchgehende Lichtsysteme; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restl. Komponenten werkzeuglos montierbar; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung; Federclips-Befestigung an der Leuchte; frei positionierbar; inkl. transp. Einspeiseleitung; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial ≤ 3 MacAdam; Lichtfarbe 3000K oder 4000K, optional Tunable-White (3000-6000K); CRI ≥ 80; L90 / 50000h; IP20; SK I; nicht dimmbar oder DALI-dimmbar; optionaler Notlichtelement mit 1h oder 3h Akku und Selbsttest

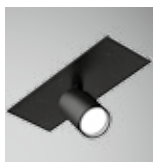
EN Luminaire body from extruded aluminium profile, angular design, 55 mm wide light emission; no visible screws; for continuous lighting systems; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile for mounting available in advance; remaining components mounted without tools; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial ≤ 3 MacAdam; light colour 3000K or 4000K, as an option tunable-white (3000-6000K); CRI ≥ 80; L90 / 50000h; IP20; PC I; non dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features

INSET 60

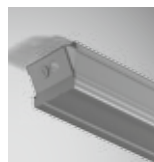
wallwasher,
JUST 32, EM

[page 522](#)



CONCRETE INSTALLATION HOUSING

[page 544](#)



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660-1171mm)



tunable white
3000-6000K

Standard configuration

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	⬆
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

MATERIAL COLOUR	☑
white	7



LIGHT OPTIC COVER	☐
opal high performance	H
microprismatic	Z
microprismatic (UGR < 19)*	G
blind cover**	B

*UGR < 19 only with e LED
**only for channel corner 90°

EMERGENCY LIGHT	●
1h Accupack	N L 1
3h Accupack	N L 3

Extended configuration

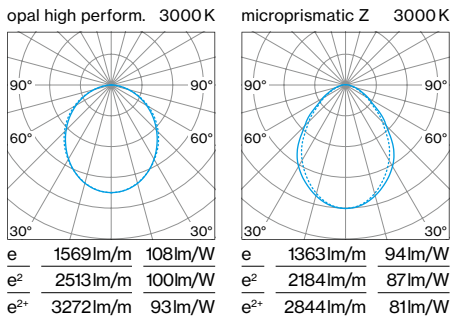
MATERIAL COLOUR	☑
beige*	K
grey	G
dark grey*	D
dark brown*	N
black	8

*not available for power feeder

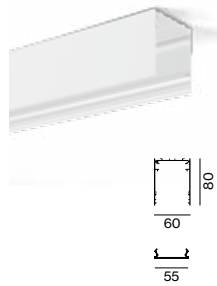
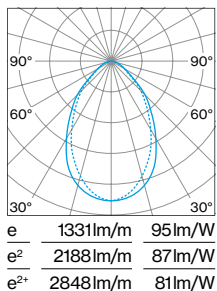


+5% surcharges

LIGHT DISTRIBUTION



microprismatic G 3000K



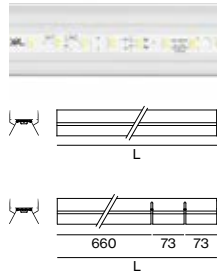
MINO 60 ceiling / suspended

order installation channel, cover, light inset + mounting accessories separately

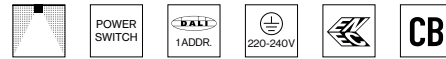
INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 4 6 - 4 0 0 4 0 1 ☑
channel	1472	0 4 6 - 4 0 0 5 0 1 ☑
channel	3000	0 4 6 - 4 0 0 9 0 1 ☑
channel	custom	E 8 5 0 3 1 ☑
cover	1171	0 0 6 - 1 6 1 2 2 ☐
cover	1470	0 0 6 - 1 6 1 5 2 ☐
cover	2997	0 0 6 - 1 6 3 0 2 ☐
cover	custom	E 8 0 6 3 0 0 ☐
channel corner 90° + cover	150x150	0 4 6 - 4 0 1 1 2 1 ☐☐
blind cover	1172	0 0 6 - 1 8 1 2 ☑
blind cover	1472	0 0 6 - 1 8 1 5 ☑
blind cover	3000	0 0 6 - 1 8 3 0 ☑
blind cover	custom	E 8 0 6 3 0 ☑ B

more lengths, X- and T-connector on request



LIGHT INSET 60



non DIM power switch e/e²/e²⁺ / DIM DALI e²

SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 9 3 P 2 ☐☐☐ 7
13 / 22 / 31W	871	0 0 7 - 9 3 P 3 ☐☐☐ 7
17 / 29 / 41W	1171	0 0 7 - 9 3 P 4 ☐☐☐ 7
21 / 37 / 52W	1463	0 0 7 - 9 3 P 5 ☐☐☐ 7 ●
34 / 59 / 82W	2341	0 0 7 - 9 3 P 8 ☐☐☐ 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 9 3 P F ☐☐☐ 7



DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22W	871	0 0 7 - 9 3 3 3 D 3 7
29W	1171	0 0 7 - 9 3 3 4 D 3 7
37W	1463	0 0 7 - 9 3 3 5 D 3 7
59W	2341	0 0 7 - 9 3 3 8 D 3 7

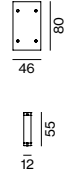
Accessories

END CAPS



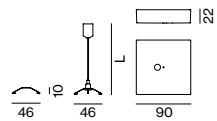
TYPE	ORDER CODE
end caps (pair)	0 4 6 - 5 0 1 0 0 1 ☑

LINEAR CONNECTOR



TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 4 6
linear connector (10 pieces)	0 0 5 - 4 0 0 4 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

CEILING CLIP / CABLE SUSPENSION / POWER FEEDER



TYPE	L (mm)	ORDER CODE
ceiling clip	10	0 3 4 - 1 1 6 3 6
cable suspension	1500	0 0 5 - 2 1 2 2 1 1 0
power feeder 3 × 1,5 mm ² (non DIM)	1500	0 0 5 - 2 2 1 2 3 1 ☑
power feeder 5 × 1,5 mm ² (DALI)	1500	0 0 5 - 2 2 1 2 4 1 ☑
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0

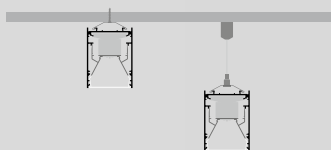
THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

MINO 60 CURVE

ceiling / suspended

xal.com/mino



Quickinfo

GENERAL

surface, suspended
IP 20

LED

Mid-power LED
up to 2450lm/m
up to 114lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

MINO 60

system
surface / susp.

[page 506](#)

MINO 60

system direct/
indirect susp.

[page 514](#)

Description

DE Kreissegment aus gerolltem Aluminiumprofil, kantige Ausführung mit 55mm breitem Lichtaustritt, nahtlos verschweißt; keine sichtbaren Schrauben; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Circular segment of rolled aluminium profile, angular design with 55mm wide light emission, seamlessly welded; no visible screws; designed for continuous lighting systems; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP 20; PC I, optionally non-dimmable or DALI dimmable



Standard configuration

LED TYPE	
e	4
e ²	5



COLOUR TEMPERATURE	
3000K	5
4000K	6

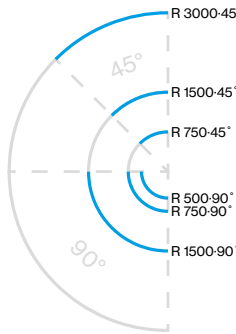


CONTROL	
non DIM	1
DIM DALI (only e ²)	3

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H



MINO 60 CURVE ceiling / suspended

order installation channel + mounting accessories separately



INSTALLATION CHANNEL + LIGHT INSET + LIGHT OPTIC COVER

SYSTEM POWER (e / e ²)	R (mm)	ORDER CODE
13 / 17W	500-90°	0 3 4 - 0 9 0 5
10 / 13W	750-45°	0 3 4 - 0 9 0 0
18 / 27W	750-90°	0 3 4 - 0 9 0 1
18 / 27W	1500-45°	0 3 4 - 0 9 0 2
37 / 53W (2 DALI)	1500-90°	0 3 4 - 0 9 0 3
37 / 53W (2 DALI)	3000-45°	0 3 4 - 0 9 0 4

COVER	LED TYPE	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal cover	e	3000K	16W/m	1670lm/m	107lm/W
		4000K		1780lm/m	114lm/W
microprismatic cover	e ²	3000K	23W/m	2300lm/m	101lm/W
		4000K		2440lm/m	108lm/W
	e	3000K	16W/m	1630lm/m	104lm/W
		4000K		1730lm/m	111lm/W
	e ²	3000K	23W/m	2240lm/m	99lm/W
		4000K		2390lm/m	105lm/W

Extended configuration

MATERIAL COLOUR	
beige*	K
grey	G
dark grey*	D
dark brown*	N
black	8

*not available for power feeder



+5% surcharges

LIGHT OPTIC COVER	
microprismatic	Z

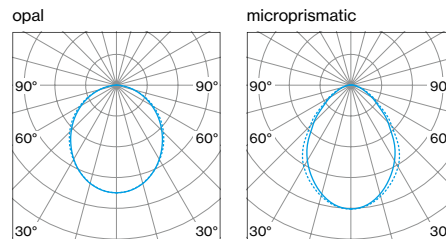


Options on request

LIGHT OPTIC COVER	
microprismatic (UGR < 19)	



LIGHT DISTRIBUTION



Accessories

END CAPS

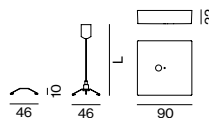
TYPE	ORDER CODE
end caps (pair)	0 3 4 - 0 9 0 2 0 1

LINEAR CONNECTOR

TYPE	ORDER CODE
linear to curve profile	0 0 5 - 4 0 1 5 9
curve to curve profile	0 0 5 - 4 0 1 5 8
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

CEILING CLIP / CABLE SUSPENSION / POWER FEEDER

TYPE	L (mm)	ORDER CODE
ceiling clip	10	0 3 4 - 1 1 6 3 6
cable suspension	1500	0 0 5 - 2 1 2 2 1 1 0
power feeder 3 × 1,5 mm ² (non DIM)	1500	0 0 5 - 2 2 1 2 3 1
power feeder 5 × 1,5 mm ² (DALI)	1500	0 0 5 - 2 2 1 2 4 1
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0



THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

Inspiration

Sport + Fashion Store Schwinghammer
Reisbach, Germany

PRODUCT
MINO 60 CURVE suspended

ARCHITECT
Franz Heubl Dipl Ing (FH) BDIA
Reisbach, Germany





Inspiration

Microsoft Briefing Center
Wallisellen, Switzerland

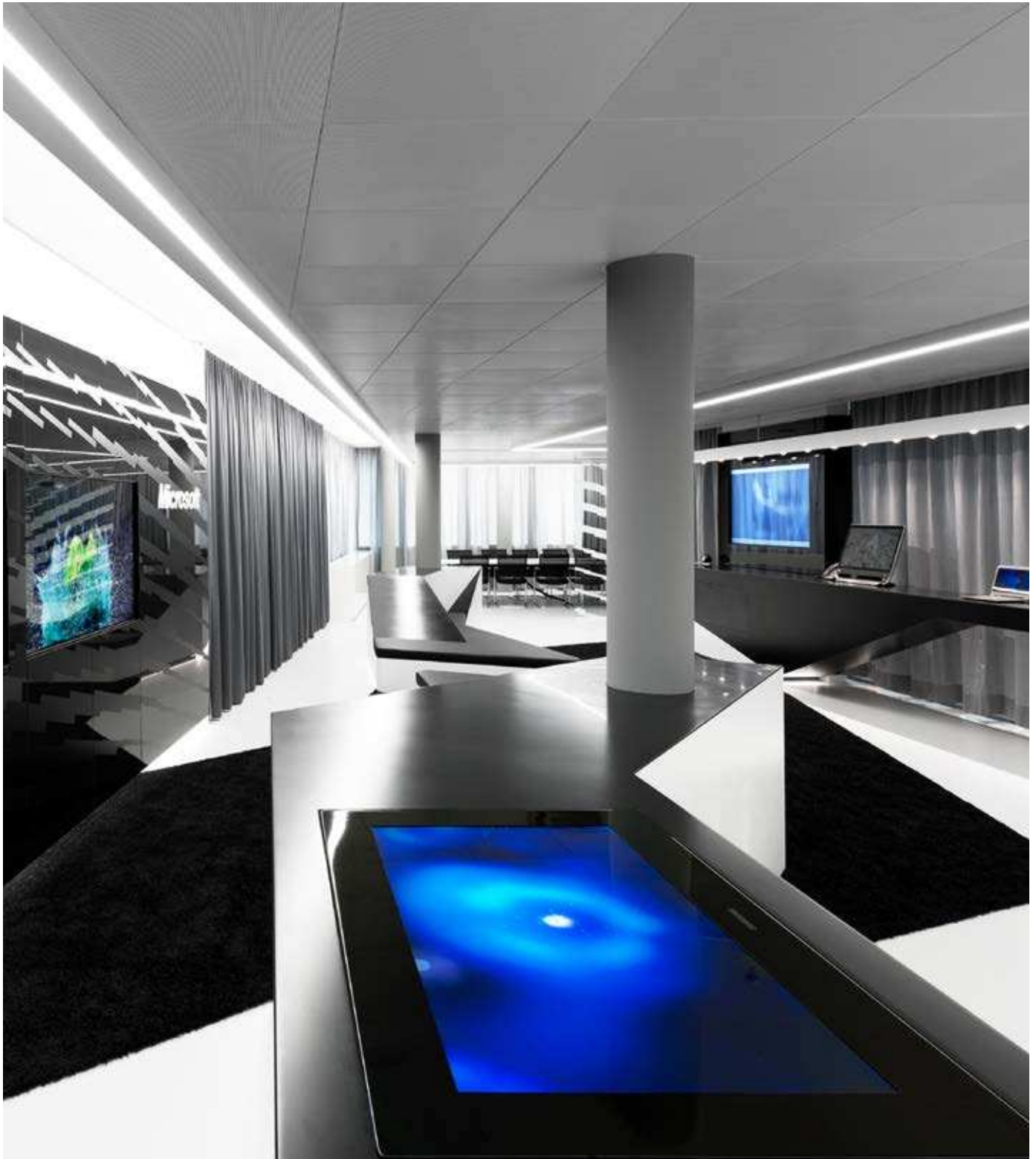
PRODUCT
MINO 60 ceiling

ARCHITECT & INTERIOR DESIGN

COASToffice architecture
Stuttgart, Germany
RBS Group
Zurich, Switzerland

LIGHTING DESIGN

Schilli GmbH Licht-Consult
Stuttgart, Germany

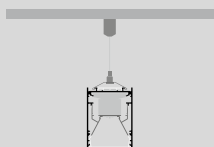




MINO 60

direct/indirect suspended

xal.com/mino



Quickinfo

GENERAL

suspended
IP 20

LED

Mid-power LED
up to 3870 lm/W
up to 120 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct/indirect illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

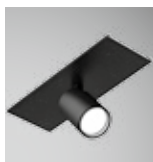
PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

INSET 60

wallwasher,
JUST 32, EM

[page 522](#)



Description

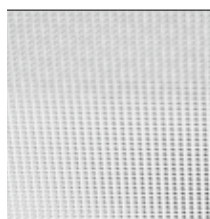
DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung mit 55mm breitem Lichtaustritt; direkt/indirekte Abstrahlcharakteristik; keine sichtbaren Schrauben; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire body from extruded aluminium profile, angular design with 55mm wide light emission; direct/indirect light distribution; no visible screws; designed for continuous lighting systems; surface powder coated in white, grey, dark grey, black, beige or dark brown; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable

Features



direct/indirect light
distribution



microprismatic
(UGR < 19)

Standard configuration

LED TYPE	
e	1
e ²	2

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM	1
DIM DALI (only e ²)	3

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
microprismatic (UGR < 19)	Z

Extended configuration

MATERIAL COLOUR	
beige*	K
grey	G
dark grey*	D
dark brown*	N
black	8

*not available for power feeder



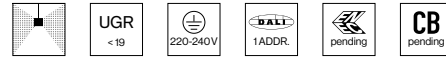
+5% surcharges

LIGHT OPTIC COVER	
opal high performance	H



MINO 60 direct/indirect suspended

order installation channel + mounting accessories separately

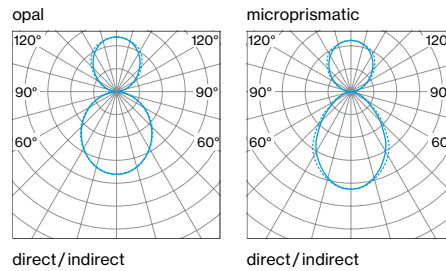


INSTALLATION CHANNEL + LIGHT INSET + LIGHT OPTIC COVER

SYSTEM POWER (e / e ²)	L (mm)	ORDER CODE
21W / 32W	872	0 4 6 - 5 0 0 3 :: :: □ □
29W / 42W	1172	0 4 6 - 5 0 0 4 :: :: □ □
35W / 52W	1464	0 4 6 - 5 0 0 5 :: :: □ □
42W / 65W	1756	0 4 6 - 5 0 0 6 :: :: □ □
56W / 83W	2344	0 4 6 - 5 0 0 8 :: :: □ □
29W e LED corner	625x625	0 4 6 - 5 0 5 1 :: 1 □ □
42W e ² LED corner	625x625	0 4 6 - 5 0 6 1 :: :: □ □
blind channel	custom	E 8 5 0 3 1 ···· □
blind cover	custom	E 8 0 6 3 0 ···· □ B

COVER	LED TYPE	SYSTEM POWER	DIRECT LUMENS	INDIRECT LUMENS	EFFICACY
opal high performance	e 3000K	22W/m	1490lm/m	950lm/m	113lm/W
	4000K		1440lm/m	1010lm/m	120lm/W
microprismatic	e ² 3000K	35W/m	2330lm/m	1520lm/m	108lm/W
	4000K		2470lm/m	1610lm/m	115lm/W
microprismatic	e 3000K	22W/m	1360lm/m	950lm/m	107lm/W
	4000K		1440lm/m	1010lm/m	114lm/W
	e ² 3000K	35W/m	2120lm/m	1520lm/m	103lm/W
	4000K		2250lm/m	1610lm/m	109lm/W

LIGHT DISTRIBUTION



Accessories

END CAPS	ORDER CODE
TYPE end caps (pair)	0 4 6 - 5 0 1 0 0 1 □

LINEAR CONNECTOR	ORDER CODE
TYPE linear connector (1 piece)	0 0 5 - 4 0 0 4 6
linear connector (10 pieces)	0 0 5 - 4 0 0 4 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
microprismatic cover linear connector	0 0 6 - 1 6 0 0 0

CABLE SUSPENSION / POWER FEEDER	L (mm)	ORDER CODE
TYPE cable suspension	1500	0 0 5 - 2 1 2 2 1 1 0
power feeder 3 × 1,5 mm ² (non DIM)	1500	0 0 5 - 2 2 1 2 3 1 □
power feeder 5 × 1,5 mm ² (DALI)	1500	0 0 5 - 2 2 1 2 4 1 □
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0

THROUGH WIRE	ORDER CODE
TYPE 3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

Inspiration

ITALIANI ma non troppo
Stuttgart, Germany

ARCHITECT
Ippolito Fleitz Group -
Identity Architects
Stuttgart, Germany

PRODUCT
LITO 60 suspended



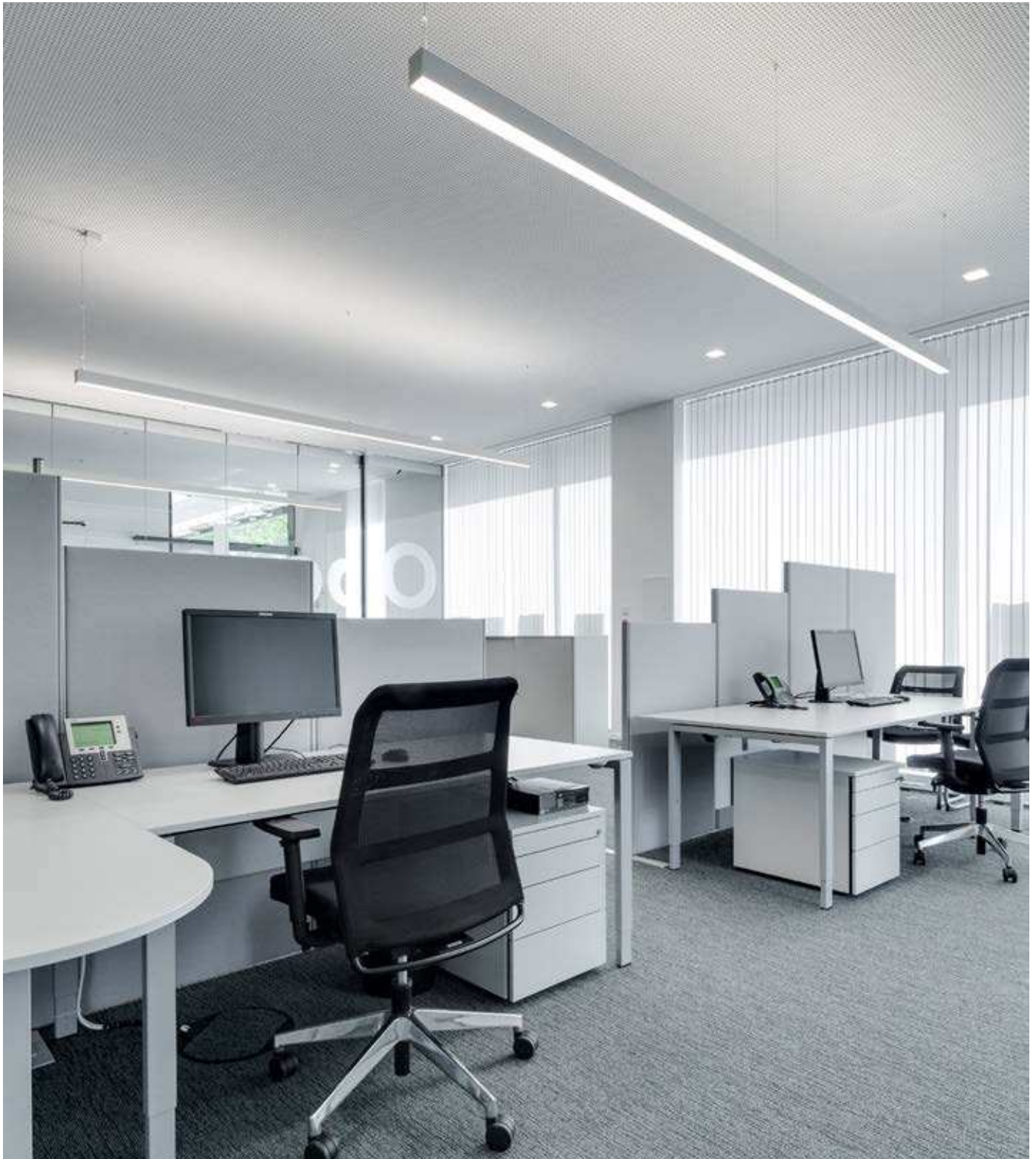


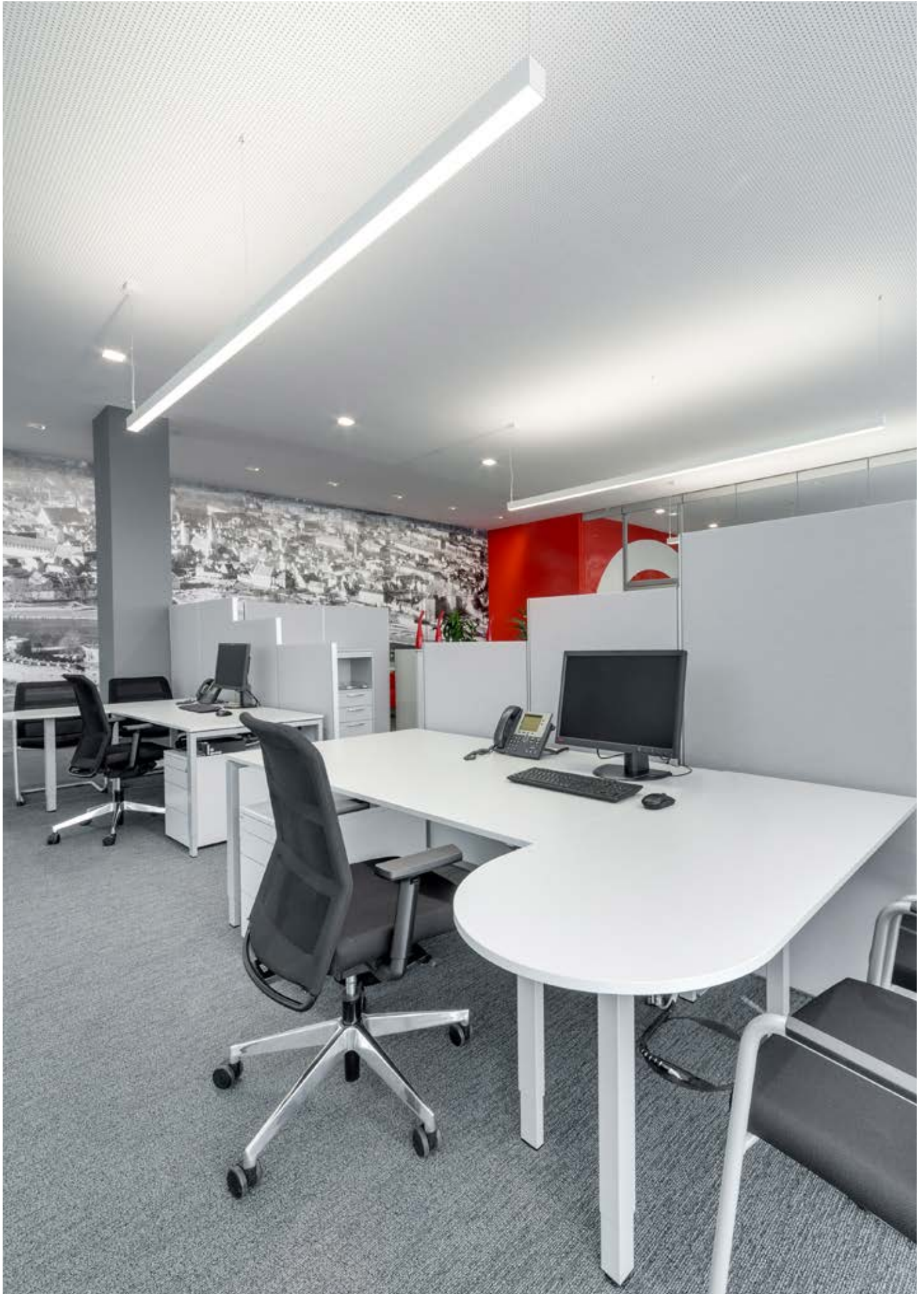
Inspiration

Office Center Pionierkaserne
Ingolstadt, Germany

PRODUCT
MINO 60 direct/indirect suspended

ARCHITECT
pbb Planung + Projektsteuerung GmbH
Ingolstadt, Germany



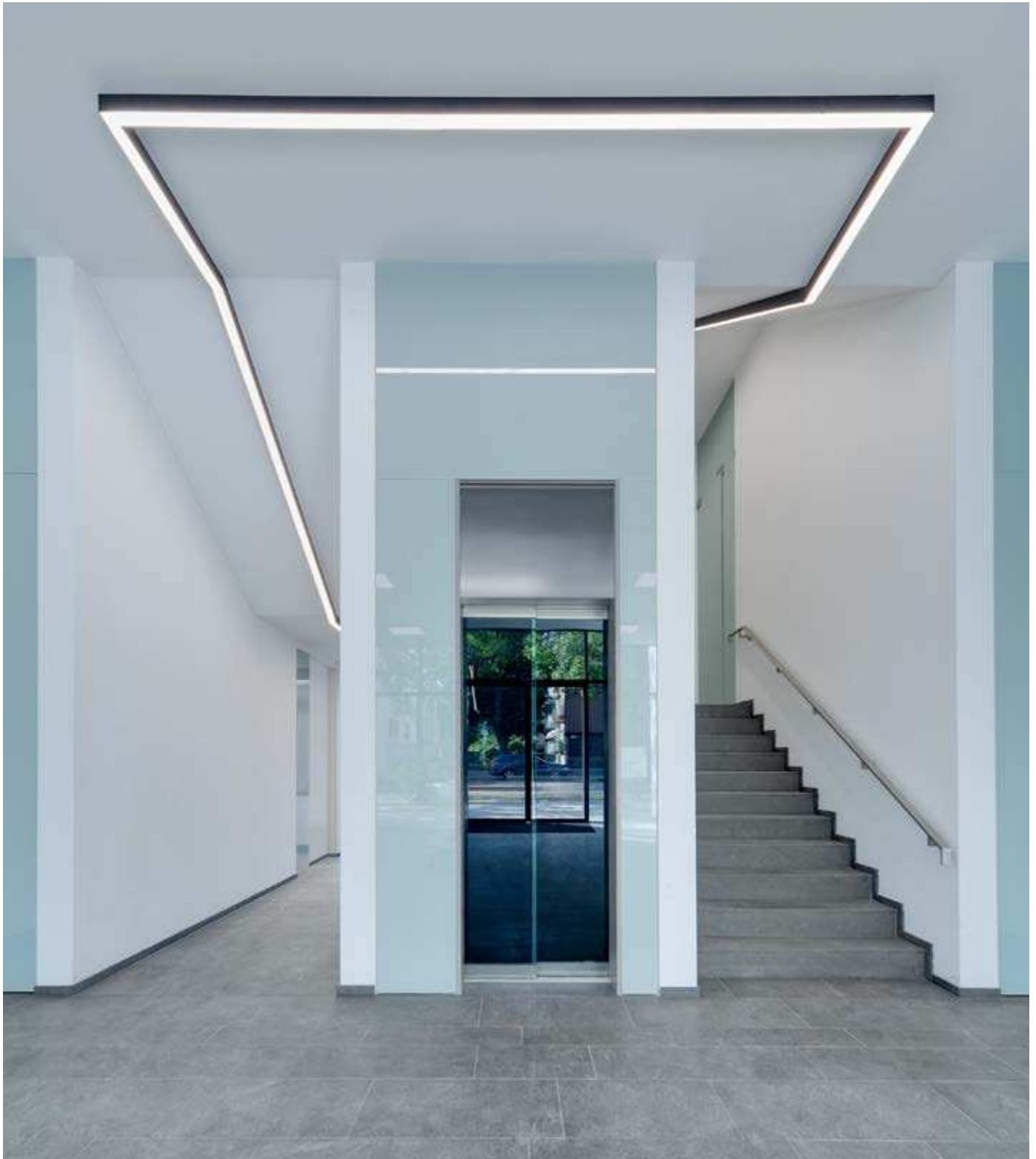


Inspiration

Office Center Pionierkaserne
Ingolstadt, Germany

PRODUCT
MINO 60 direct/indirect suspended

ARCHITECT
pbb Planung + Projektsteuerung GmbH
Ingolstadt, Germany





INSET 60 wallwasher

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000 K 5

CONTROL ⬢
non DIM 1
DIM DALI 3

MATERIAL COLOUR ☑
white 7

7

LIGHT OPTIC
wallwasher

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000 K 6

MATERIAL COLOUR ☑
grey G
dark grey D
black 8

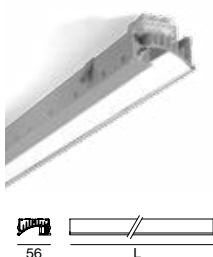
G D 8

+5% surcharges

Description

DE Lichteinsatz mit speziell berechnetem, asymmetrischem Hochglanz-Reflektor für homogene vertikale Beleuchtungen; Lichteinsatz aus weiß, grau, dunkelgrau oder schwarz pulverbeschichtetem Aluminium werkzeuglos einsetzbar

EN Lighting module with specially computed, asymmetrical high gloss reflector for homogeneous vertical lighting; lighting module in aluminium, powder coated in white, grey, dark grey or black, installation without tools

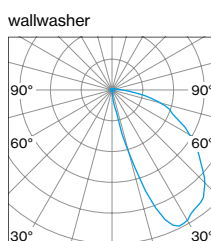


INSET 60 wallwasher e² LED



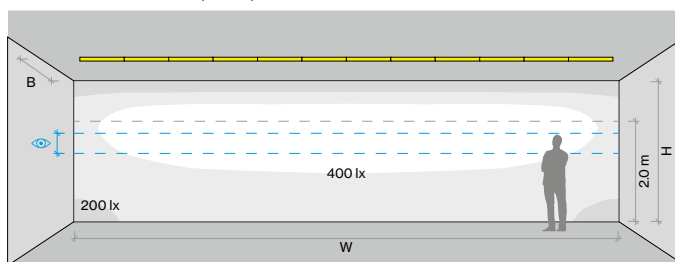
SYSTEM POWER	L (mm)	ORDER CODE
11 W	571	0 0 7 - 9 0 4 2 ⬢⬢ ⬢ ⬢
14 W	871	0 0 7 - 9 0 4 3 ⬢⬢ ⬢ ⬢
19 W	1171	0 0 7 - 9 0 4 4 ⬢⬢ ⬢ ⬢
23 W	1471	0 0 7 - 9 0 4 5 ⬢⬢ ⬢ ⬢

LIGHT DISTRIBUTION



Technical data

INSET 60 wallwasher, 18 W, 3000 K



ROOM VALUES

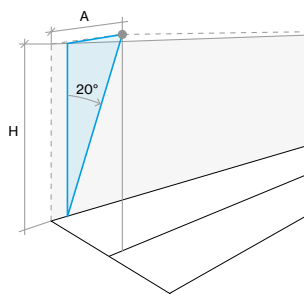
Wall dimensions H = 2.8 m | W = 10.8 m
Distance to wall B = 1.3 m
Distance between luminaires continuous
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE

Surface dimensions 10.8 × 2.8 m
Surface height 0 – 2.8 m
Eye level 👁 1.35 m – 1.75 m

MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200



Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	EFFICACY
PROFILE 60	e ² LED	16 W/m	3000 K	1270 lm/m	79 lm/W
WALLWASHER			4000 K	1340 lm/m	84 lm/W

INSET 60 JUST 32 / emergency light

Standard configuration

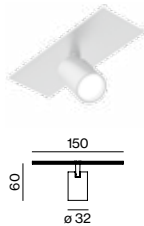
COLOUR TEMPERATURE ⋮
3000K 5

CONTROL
non DIM 1

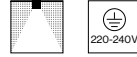
MATERIAL COLOUR ▣
white 7



LED LENS ▲
medium 27° M



INSET 60 JUST 32



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
1×3,5 W	3000K	300 lm	150	0 0 7 - 9 6 2 1 ⋮ 1 ▣ ▲
	4000K	330 lm		

LIGHT DISTRIBUTION

spot 19°			medium 27°			flood 42°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	1747	ø 0,34	1	918	ø 0,48	1	560	ø 0,77
2	437	ø 0,68	2	229	ø 0,97	2	140	ø 1,54
3	194	ø 1,03	3	102	ø 1,45	3	62	ø 2,32
4	109	ø 1,37	4	57	ø 1,94	4	35	ø 3,09
5	70	ø 1,71	5	37	ø 2,42	5	22	ø 3,86

Extended configuration

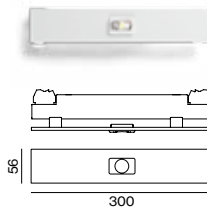
COLOUR TEMPERATURE ⋮
4000K 6

MATERIAL COLOUR ▣
grey G
dark grey D
black 8



+5% surcharges

LED LENS ▲
spot 19° S
flood 42° F

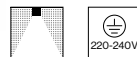


Optical accessories

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	30·4	0 0 7 - 1 9 6 5 1 6 8
elliptical sculpture foil	30·4	0 0 7 - 1 9 6 5 2 6 0
snoot	30·15	0 0 7 - 1 9 6 5 3 6 8
colour filter (red, blue, green, etc.)	30·4	on request

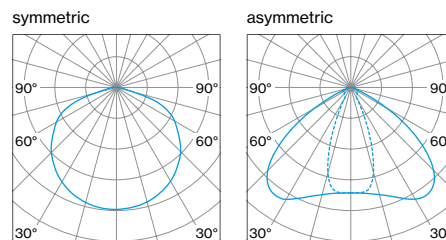
use only 1 optical accessory

INSET 60 emergency light



SYSTEM POWER	LUM. FLUX	L (mm)	ORDER CODE
1,2 W symmetric	100 lm	300	0 1 4 - 0 0 0 1 ▣ NL 3
1,2 W asymmetric	120 lm	300	0 1 4 - 0 0 1 1 ▣ NL 3

LIGHT DISTRIBUTION



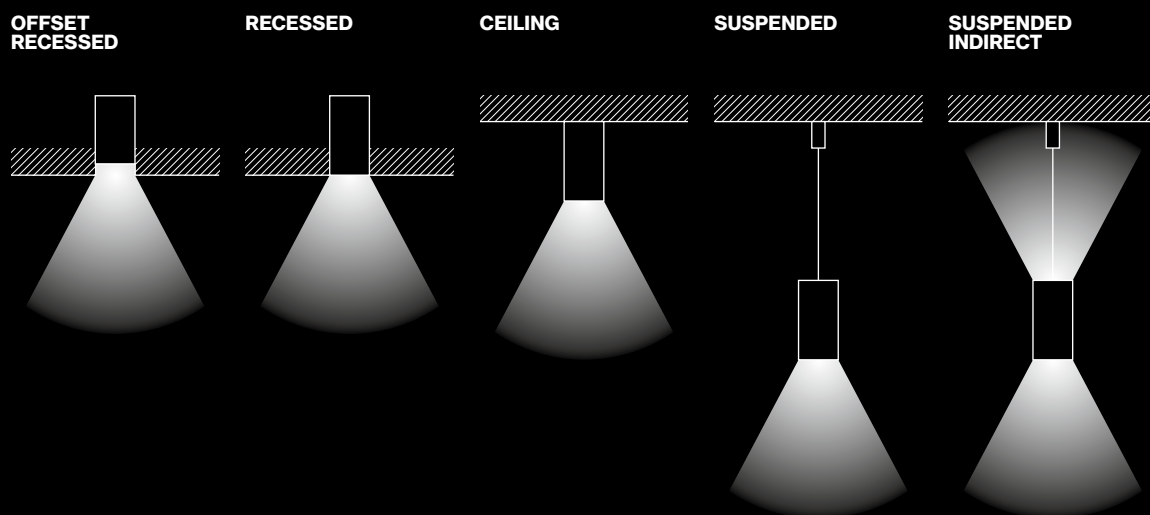
Description

DE Lichteinsatz mit Strahlerkopf aus Aluminium, 352° dreh- und 90° schwenkbar; mit einzelndem LED Lichtpunkt, symmetrische oder asymmetrische Lichtverteilung; als Sicherheitsbeleuchtung, inkl. NL-Baustein 3h (Selbstüberwachung und Akku); weiß, grau, dunkelgrau oder schwarz Aluminium pulverbeschichtet, werkzeuglos einsetzbar

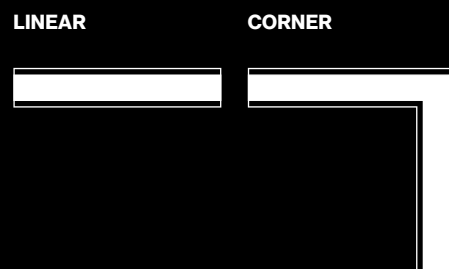
EN Lighting module with spotlight head in aluminium, 352° rotatable and 90° tiltable; with single LED light point, symmetrical or asymmetrical light distribution; as security lighting, incl. emergency light element 3h (self test and battery); aluminium, powder coated in white, grey, dark grey or black, installation without tools

PROFILES 100 system

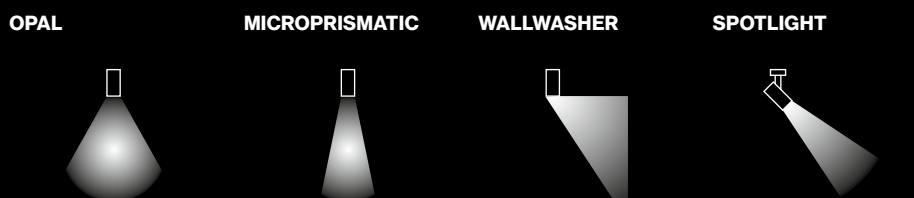
MOUNTING



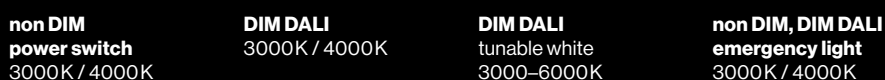
SHAPES



LIGHT DISTRIBUTION



CONTROL



Description

DE Modulares Profilleuchtensystem mit 95 mm breitem Lichtaustritt; hohe Variantenvielfalt für projektspezifische Anforderungen; wahlweise als Aufbau-, abgehängte (direkte bzw. direkt/indirekte Abstrahlcharakteristik) oder Einbauvariante (randlos oder mit umlaufendem Rand) mit deckenbündiger Leuchtenebene; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder und Kreissegmente für flexiblen Systemaufbau; wahlweise mit verschiedenen Lichteinsätzen; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); wahlweise nicht dimmbar mit Powerswitch (e, e², e²⁺) oder DALI-dimmbar (e²); optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Modular profile light system with 95 mm wide light emission; large range of versions for specific project requirements; either as surface mounted, suspended (direct or direct/indirect light distribution) or recessed variant (with or without trim) with flush lighting level; designed for continuous lighting systems, 90° angle connectors and circular segments for flexible system design; optionally with different light insets; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); optionally non dimmable with Powerswitch (e, e², e²⁺) or DALI-dimmable (e²); optionally emergency light with 1h or 3h battery and self test

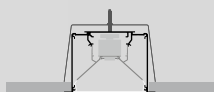
Overview

	FRAME 100 system trim	MINIMAL 100 system trimless	MINO 100 system ceiling	MINO 100 system suspended
COVER				
opal high performance	•	•	•	•
microprismatic	•	•	•	•
blind cover	•	•	•	•
INSET				
power switch LED (e/e ² /e ²⁺)	•	•	•	•
power switch LED FLEX (e/e ² /e ²⁺)	•	•	•	•
DIM DALI e ²	•	•	•	•
e ² LED tunable white	•	•	•	•
INSET WALLWASHER				
e ² LED	•	•	•	•
INSET JUST 32				
e ² LED	•	•	•	•
INSET LED EMERGENCY LIGHT 1/3h				
symmetric	•	•	•	•
asymmetric	•	•	•	•

FRAME 100

trim

xal.com/frame



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 3990 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

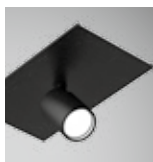
PHYSICAL

aluminium
powder-coated
halogen-free cable

INSET 100

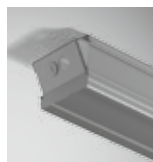
wallwasher,
JUST 32, EM

[page 542](#)



CONCRETE INSTALLATION HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 95mm breitem Lichtaustritt; Einbauleuchte mit umlaufendem Rand; für durchgehende Lichtsysteme; für Deckenstärken von 8-25mm; Oberfläche weiß oder grau pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e" und "e2"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e2, e2+) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e2 LED - 24 W/m, e2+ LED - 36 W/m; Binning initial ≤ 3 MacAdam; Lichtfarbe 3000 K oder 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI ≥ 80; L90 / 50000 h; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Luminaire housing from extruded aluminium profile with 95mm wide light exit; Recessed luminaire with trim; for continuous lighting systems; for ceiling thickness of 8-25mm; surface powder coated in white or grey; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e" and "e2"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e2, e2+) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e2 LED - 24 W/m, e2+ LED - 36 W/m; binning initial ≤ 3 MacAdam; light colour 3000 K or 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI ≥ 80; L90 / 50000 h; protection class IP20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e2/e2+)



quick lock



flex inset 73 mm steps
adjust. (660-1171mm)



tunable white
3000-6000K

Standard configuration

COLOUR TEMPERATURE	☐☐
3000K	5
4000K	6

CONTROL	☐
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

MATERIAL COLOUR	☑
white	7



LIGHT OPTIC COVER	☐
opal high performance	H
microprismatic	Z
microprismatic (UGR < 19)*	G
blind cover**	B

*UGR < 19 only with e / e² LED
**only for channel corner 90°

EMERGENCY LIGHT	●
1h Accupack	N L 1
3h Accupack	N L 3

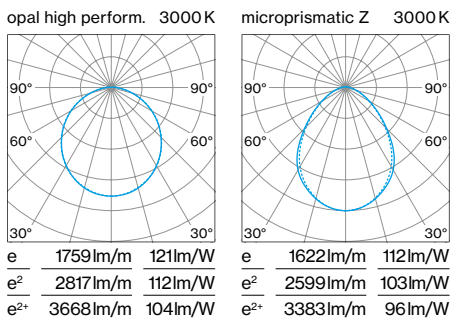
Extended configuration

MATERIAL COLOUR	☑
grey	G

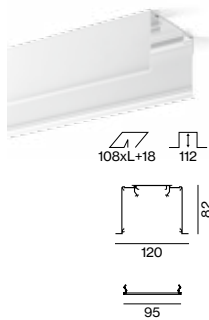
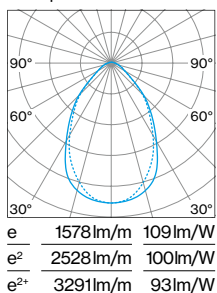


+5% surcharges

LIGHT DISTRIBUTION



microprismatic G 3000K



FRAME 100 trim

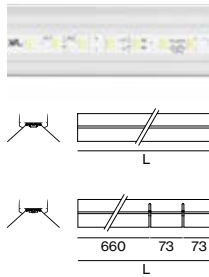
order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 5 - 0 1 2 5 ☑
channel	1472	0 3 5 - 0 1 5 5 ☑
channel	3000	0 3 5 - 0 3 0 5 ☑
channel	custom	E 8 2 1 5 0 ···· ☑
cover	1171	0 0 6 - 1 2 1 2 ☐
cover	1470	0 0 6 - 1 2 1 5 ☐
cover	2997	0 0 6 - 1 2 3 0 ☐
cover	custom	E 8 0 6 5 0 ···· 0 ☐
channel corner 90° + cover	205x205	0 3 5 - 1 2 6 5 ☐
blind cover	1172	0 0 6 - 1 1 1 2 ☑
blind cover	1472	0 0 6 - 1 1 1 5 ☑
blind cover	3000	0 0 6 - 1 1 3 0 ☑
blind cover	custom	E 8 0 6 5 0 ···· ☑ B

more lengths, X- and T-connector on request

LIGHT INSET 100



non DIM power switch e / e² / e²⁺ / DIM DALI e²

SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 8 6 P 2 ☐☐☐ 7
13 / 22 / 31W	871	0 0 7 - 8 6 P 3 ☐☐☐ 7
17 / 29 / 41W	1171	0 0 7 - 8 6 P 4 ☐☐☐ 7
21 / 37 / 52W	1463	0 0 7 - 8 6 P 5 ☐☐☐ 7 ●
34 / 59 / 82W	2341	0 0 7 - 8 6 P 8 ☐☐☐ 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 8 6 P F ☐☐☐ 7



DIM DALI tunable white 3000–6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22W	871	0 0 7 - 8 6 3 3 D 3 7
29W	1171	0 0 7 - 8 6 3 4 D 3 7
37W	1463	0 0 7 - 8 6 3 5 D 3 7
59W	2341	0 0 7 - 8 6 3 8 D 3 7

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 3 5 - 1 3 1 5 ☑

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 6 6
linear connector (10 pieces)	0 0 5 - 4 0 0 6 6 . 1 0
opal cover linear connector	0 0 6 - 1 0 0 0 0
microprismatic cover linear connector	0 0 6 - 1 2 0 0 0

MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	0 3 5 - 1 0 2 3 0
mounting bracket (25 pieces)	8-25	0 3 5 - 1 0 2 3 0 . 2 5

number of brackets required: length of your system in metres+1

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

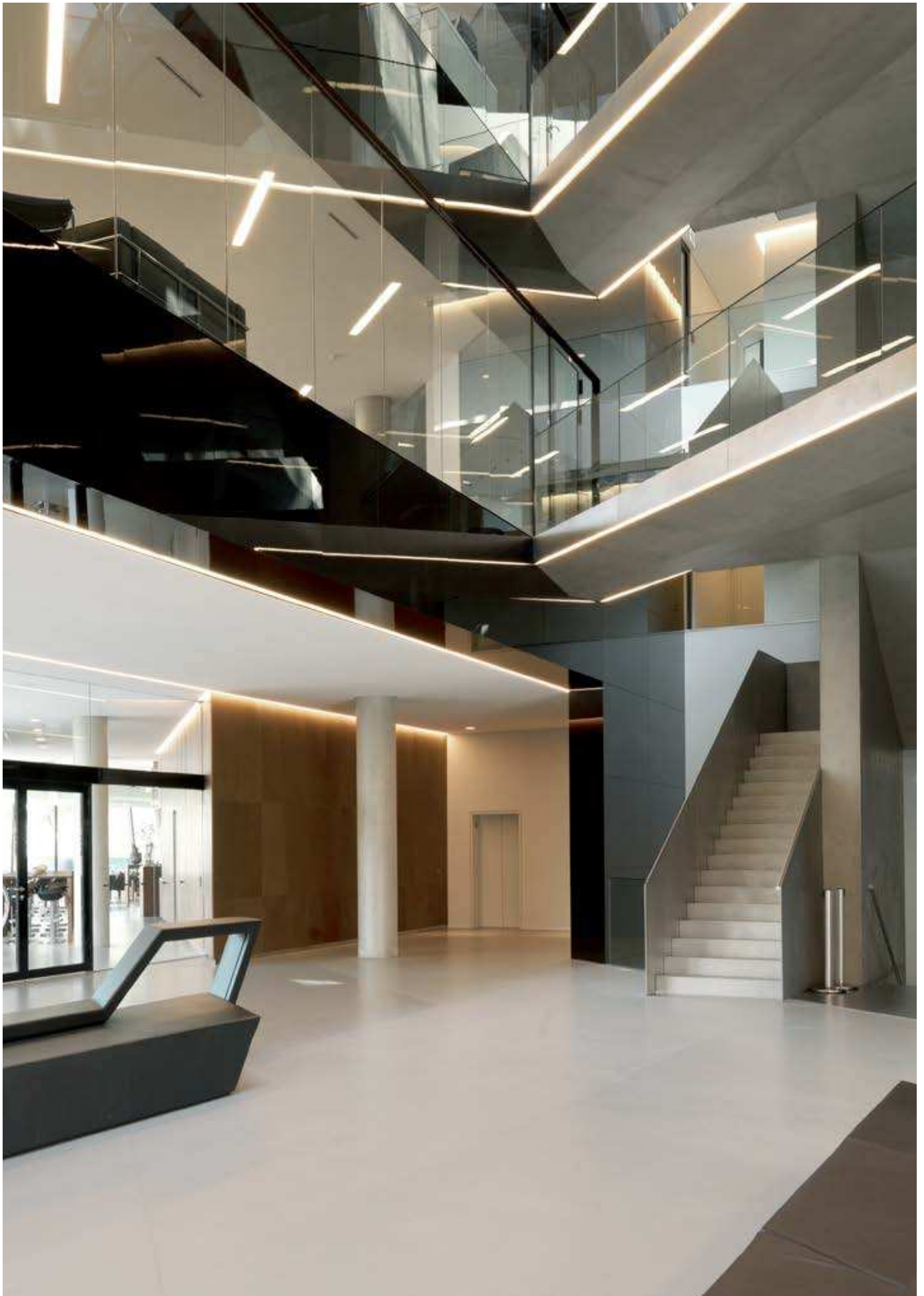
Inspiration

michael pachleitner group
Graz, Austria

ARCHITECT
GSarchitects
Graz, Austria

PRODUCT
FRAME 100 trim

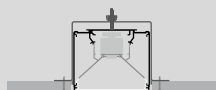
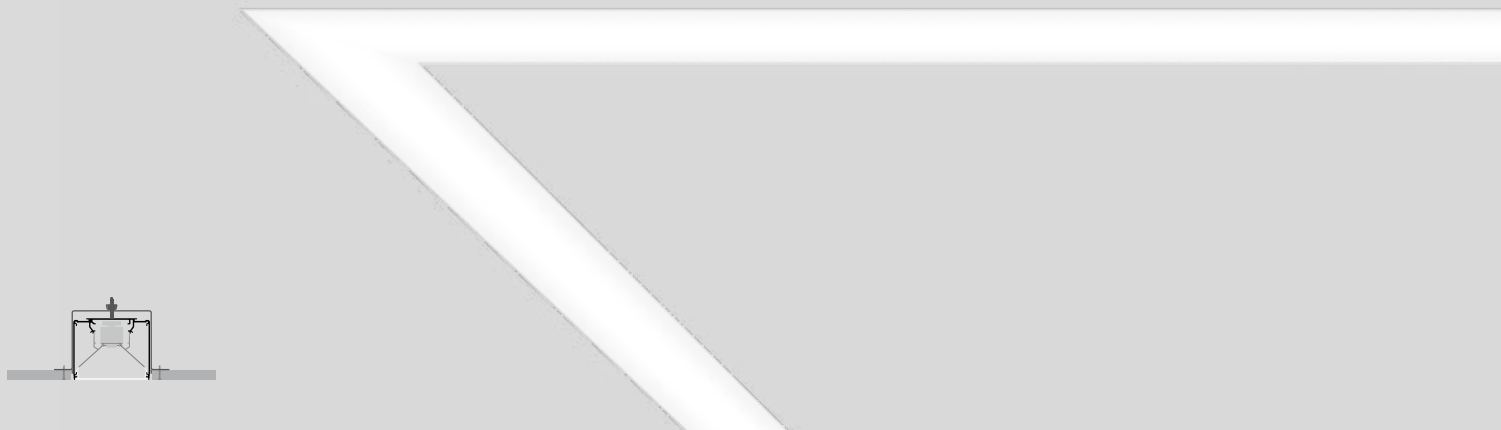




MINIMAL 100

trimless

xal.com/minimal



Quickinfo

GENERAL

recessed
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 3990 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

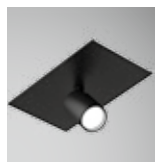
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

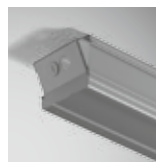
INSET 100

wallwasher,
JUST 32, EM
[page 542](#)



CONCRETE INSTALLATION HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil mit 95mm breitem Lichtaustritt; geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; für durchgehende Lichtsysteme; für Deckenstärken von 8-25mm; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e" und "e²"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial \leq 3 MacAdam; Lichtfarbe 3000K oder 4000K, optional mit Tunable-White Bestückung (3000-6000K); CRI \geq 80; L90 / 50000h; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Luminaire housing from extruded aluminium profile with 95mm wide light exit; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; for continuous lighting systems; for ceiling thickness of 8-25mm; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e" and "e²"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial \leq 3 MacAdam; light colour 3000 K or 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI \geq 80; L90 / 50000h; protection class IP20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660-1171 mm)



tunable white
3000-6000 K

Standard configuration

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

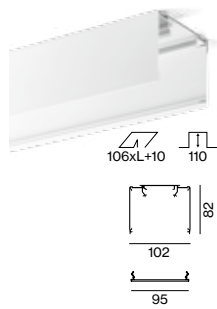
MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H
microprismatic	Z
microprismatic (UGR < 19)*	G
blind cover**	B

*UGR < 19 only with e / e² LED
**only for channel corner 90°

EMERGENCY LIGHT	
1h Accupack	N L 1
3h Accupack	N L 3



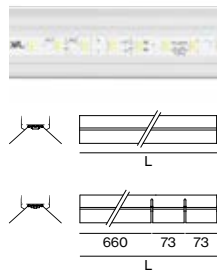
MINIMAL 100 trimless

order installation channel, cover, light inset + mounting accessories separately

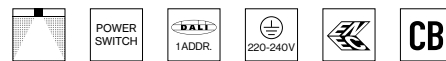
INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 6 - 0 1 2 6 7
channel	1472	0 3 6 - 0 1 5 6 7
channel	3000	0 3 6 - 0 3 0 6 7
channel	custom	E 8 2 0 5 0 7
cover	1171	0 0 6 - 1 2 1 2 2 □
cover	1470	0 0 6 - 1 2 1 5 2 □
cover	2997	0 0 6 - 1 2 3 0 2 □
cover	custom	E 8 0 6 5 0 0 □
channel corner 90° + cover	200x200	0 3 6 - 1 2 6 6 7 □
blind cover	1172	0 0 6 - 1 1 1 2 7
blind cover	1472	0 0 6 - 1 1 1 5 7
blind cover	3000	0 0 6 - 1 1 3 0 7
blind cover	custom	E 8 0 6 5 0 7 B

more lengths, X- and T-connector on request

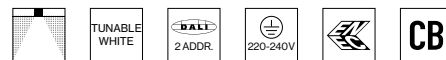


LIGHT INSET 100



non DIM power switch e / e² / e²⁺ / DIM DALI e²

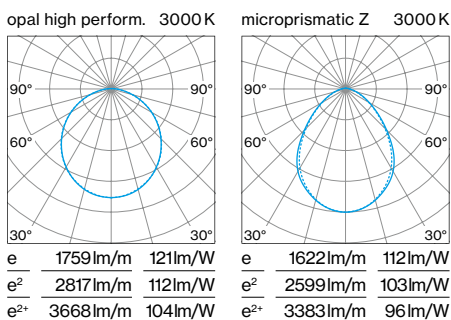
SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 8 6 P 2 :: 7
15 / 22 / 31W	871	0 0 7 - 8 6 P 3 :: 7
17 / 29 / 41W	1171	0 0 7 - 8 6 P 4 :: 7
21 / 37 / 52W	1463	0 0 7 - 8 6 P 5 :: 7 ●
34 / 59 / 82W	2341	0 0 7 - 8 6 P 8 :: 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 8 6 P F :: 7



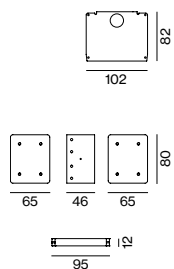
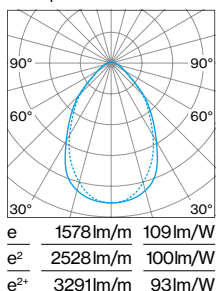
DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22W	871	0 0 7 - 8 6 3 3 D 3 7
27W	1171	0 0 7 - 8 6 3 4 D 3 7
37W	1463	0 0 7 - 8 6 3 5 D 3 7
59W	2341	0 0 7 - 8 6 3 8 D 3 7

LIGHT DISTRIBUTION



microprismatic G 3000K



Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 3 6 - 1 3 0 6 7

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 6 6
linear connector (10 pieces)	0 0 5 - 4 0 0 6 6 . 1 0
opal cover linear connector	0 0 6 - 1 0 0 0 0
microprismatic cover linear connector	0 0 6 - 1 2 0 0 0

MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	0 3 6 - 1 0 3 0 0
mounting bracket (25 pieces)	8-25	0 3 6 - 1 0 3 0 0 . 2 5

number of brackets required: length of your system in metres+1

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

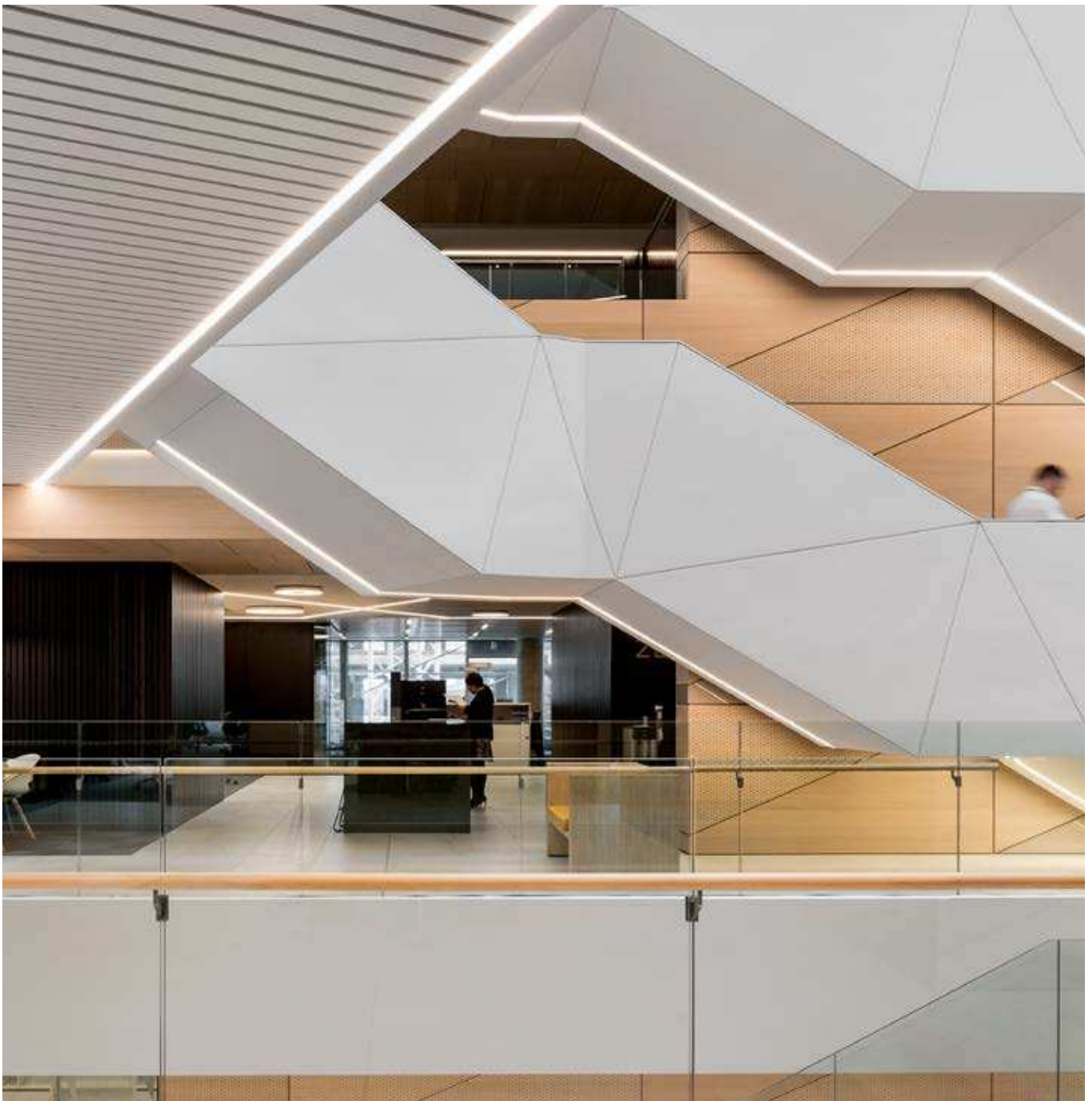
Inspiration

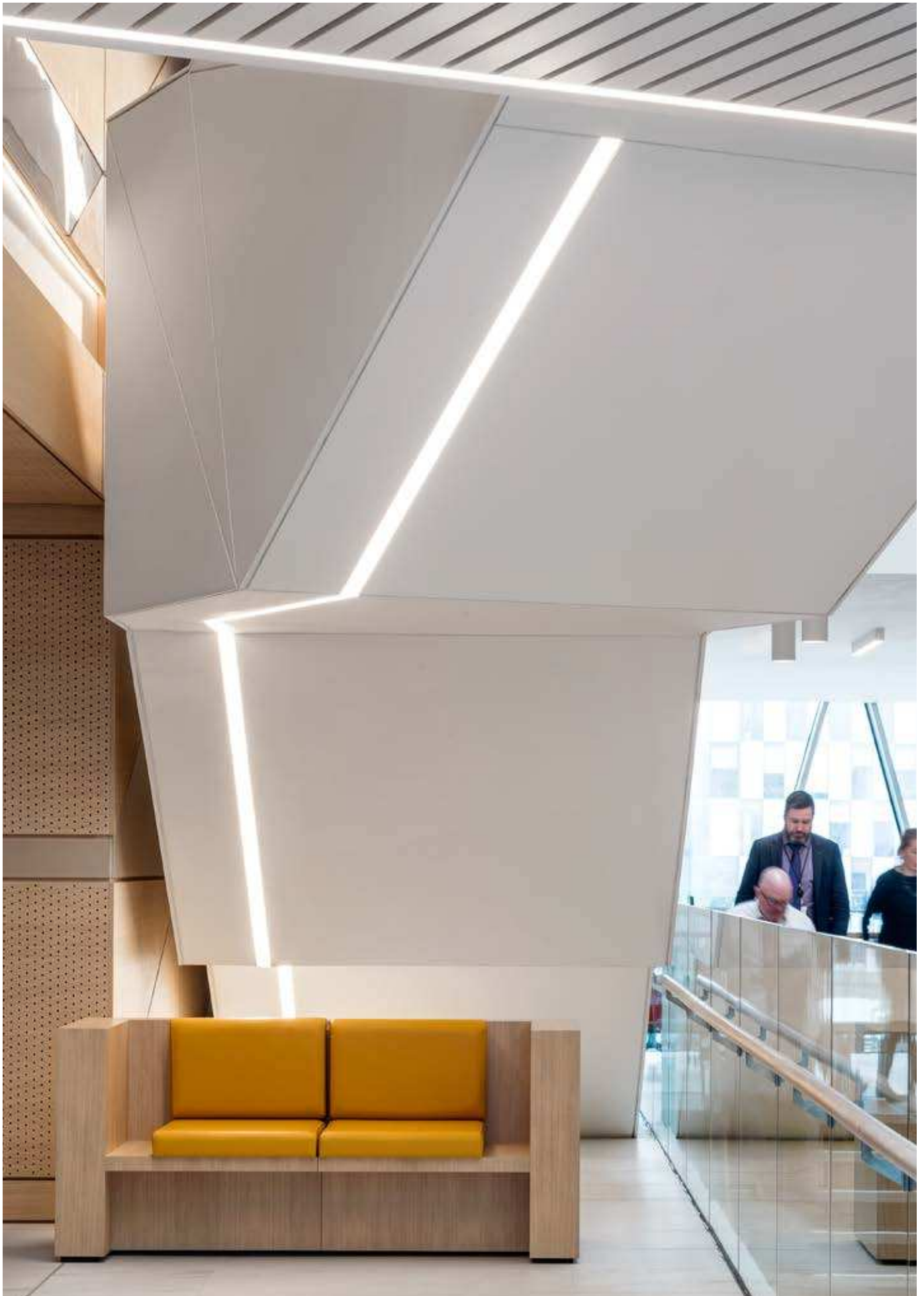
Bank of Ireland
Dublin, Ireland

PRODUCT
MINIMAL 100 trimless

ARCHITECT
Henry J Lyons Architects
Dublin, Ireland

LIGHTING DESIGN
O'Connor Sutton Cronin
Dublin, Ireland





Inspiration

SNS Headquarters
Moscow, Russia

PRODUCT
MINIMAL 100 trimless

ARCHITECT
ABD Architects
Moscow, Russia

LIGHTING DESIGN
Light & Design
Moscow, Russia

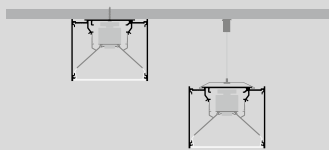




MINO 100

ceiling / suspended

xal.com/mino



Quickinfo

GENERAL

ceiling / suspended
IP20
opt. concrete installation housing

LED

Mid-power LED
up to 3990 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam
L90 / 50000 h

OPTICAL

direct illumination
PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

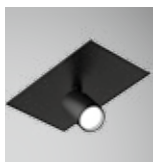
PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

INSET 60

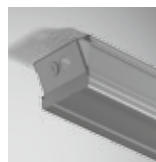
wallwasher,
JUST 32, EM

[page 522](#)



CONCRETE INSTALLATION HOUSING

[page 544](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung, 95mm breiter Lichtaustritt; keine sichtbaren Schrauben; für durchgehende Lichtsysteme; Oberfläche weiß, grau, dunkelgrau, schwarz, beige oder dunkelbraun pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restl. Komponenten werkzeuglos montierbar; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Federclips-Befestigung an der Leuchte; frei positionierbar; inkl. transp. Einspeiseleitung; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängerbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) bei Powerswitch-Einstellung "e" und "e²"; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial \leq 3 MacAdam; Lichtfarbe 3000 K oder 4000 K, optional Tunable-White (3000-6000K); CRI \geq 80; L90 / 50000h; IP20; SK I; nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Luminaire body from extruded aluminium profile, angular design, 95mm wide light emission; no visible screws; for continuous lighting systems; surface powder coated in white, grey, dark grey, black, beige or dark brown; luminaire profile for mounting available in advance; remaining components mounted without tools; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with powerswitch setting "e" and "e²"; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial \leq 3 MacAdam; light colour 3000 K or 4000 K, as an option tunable-white (3000-6000 K); CRI \geq 80; L90 / 50000h; IP20; PC I; non dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660–1171mm)



tunable white
3000–6000K

Standard configuration

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
non DIM (switchable e/e ² /e ²⁺)	1
DIM DALI (only e ²)	3
presetting at delivery: e ²	

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H
microprismatic	Z
microprismatic (UGR < 19)*	G
blind cover**	B

*UGR < 19 only with e / e² LED
**only for channel corner 90°

EMERGENCY LIGHT	
1h Accupack	N L 1
3h Accupack	N L 3

Extended configuration

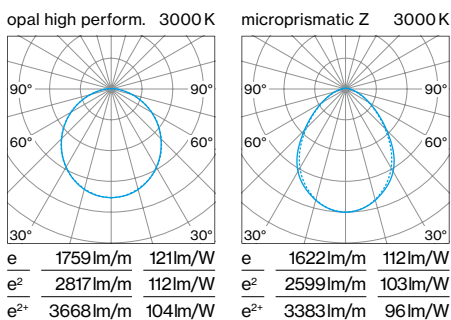
MATERIAL COLOUR	
beige*	K
grey	G
dark grey*	D
dark brown*	N
black	8

*not available for power feeder

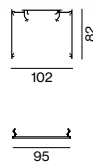
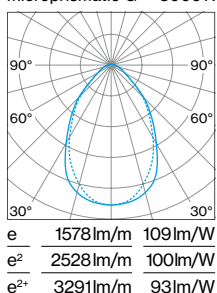


+5% surcharges

LIGHT DISTRIBUTION



microprismatic G 3000K



MINO 100 ceiling / suspended

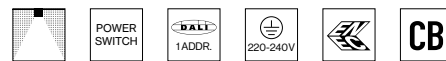
order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL / LIGHT OPTIC COVER / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 3 4 - 0 1 2 6
channel	1472	0 3 4 - 0 1 5 6
channel	3000	0 3 4 - 0 3 0 6
channel	custom	E 8 5 0 5 0
cover	1171	0 0 6 - 1 2 1 2 2
cover	1470	0 0 6 - 1 2 1 5 2
cover	2997	0 0 6 - 1 2 3 0 2
cover	custom	E 8 0 6 5 0 0
channel corner 90° + cover	200x200	0 3 4 - 1 2 6 6
blind cover	1172	0 0 6 - 1 1 1 2
blind cover	1472	0 0 6 - 1 1 1 5
blind cover	3000	0 0 6 - 1 1 3 0
blind cover	custom	E 8 0 6 5 0 B

more lengths, X- and T-connector on request

LIGHT INSET 100



non DIM power switch e / e² / e²⁺ / DIM DALI e²

SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 15 / 21W	571	0 0 7 - 8 6 P 2 : : 7
13 / 22 / 31W	871	0 0 7 - 8 6 P 3 : : 7
17 / 29 / 41W	1171	0 0 7 - 8 6 P 4 : : 7
21 / 37 / 52W	1463	0 0 7 - 8 6 P 5 : : 7
34 / 59 / 82W	2341	0 0 7 - 8 6 P 8 : : 7
flexible inset 17 / 29 / 41W	660-1171	0 0 7 - 8 6 P F : : 7



DIM DALI tunable white 3000-6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
22W	871	0 0 7 - 8 6 3 3 D 3 7
27W	1171	0 0 7 - 8 6 3 4 D 3 7
37W	1463	0 0 7 - 8 6 3 5 D 3 7
59W	2341	0 0 7 - 8 6 3 8 D 3 7

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 3 4 - 1 3 0 6

LINEAR CONNECTOR

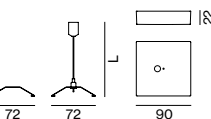
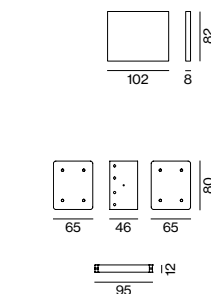
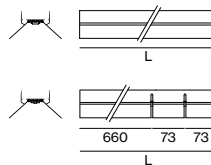
TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 6 6
linear connector (10 pieces)	0 0 5 - 4 0 0 6 6 . 1 0
opal cover linear connector	0 0 6 - 1 0 0 0 0
microprismatic cover linear connector	0 0 6 - 1 2 0 0 0

CEILING CLIP / CABLE SUSPENSION / POWER FEEDER

TYPE	L (mm)	ORDER CODE
ceiling clip	10	0 3 4 - 1 1 8 3 6
cable suspension	1500	0 0 5 - 2 1 3 2 1 1 0
power feeder 3 × 1,5 mm ² (non DIM)	1500	0 0 5 - 2 2 1 2 3 1
power feeder 5 × 1,5 mm ² (DALI)	1500	0 0 5 - 2 2 1 2 4 1
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0

THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5



Inspiration

mo.studio architecture & design
Meerbusch, Germany

PRODUCT
MINO 100 ceiling / suspended

ARCHITECT
mo.studio architecture & design
Meerbusch, Germany





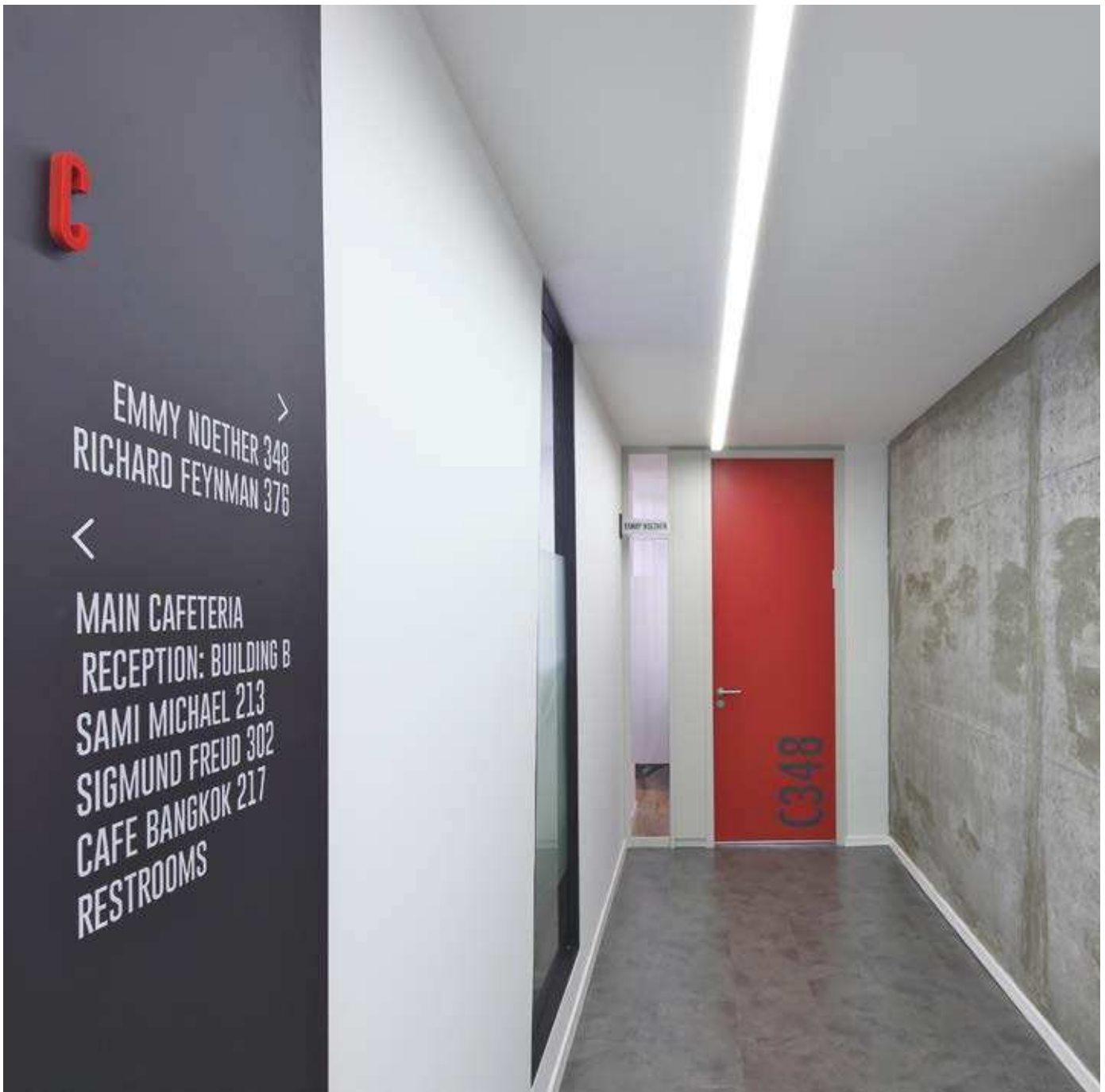
Inspiration

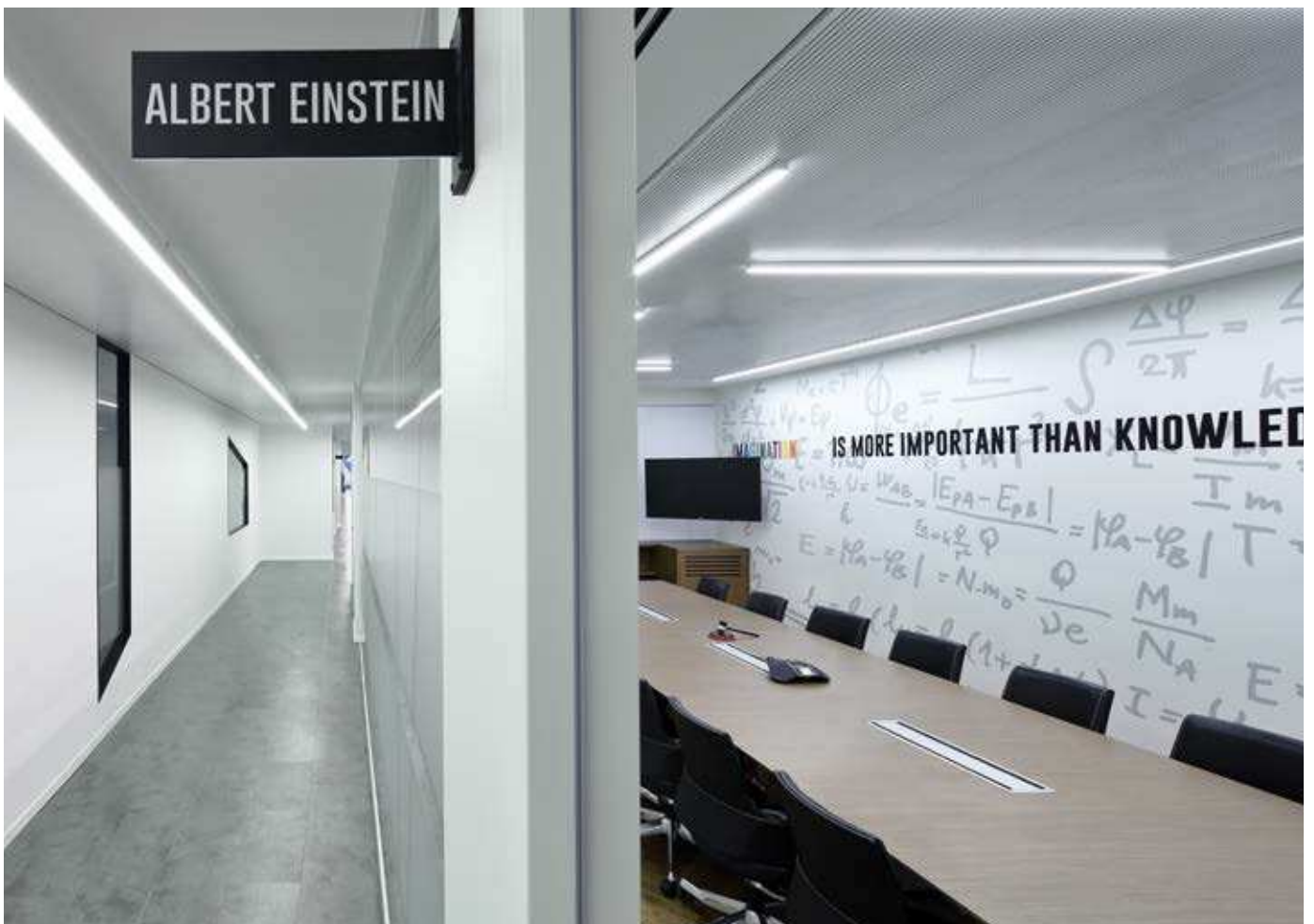
Cadence
Petah Tikva, Israel

PRODUCT
MINO 100 system ceiling

ARCHITECT
Hadas Makov
Kadima Tzoran, Israel

LIGHTING DESIGN
Orly Avron Alkabes
Tel Aviv, Israel





INSET 100 wallwasher

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1
DIM DALI 3

MATERIAL COLOUR ▣
white 7

7

LIGHT OPTIC
asymmetric

Extended configuration

COLOUR TEMPERATURE ◆◆
4000K 6

MATERIAL COLOUR ▣
grey G
dark grey D
black 8

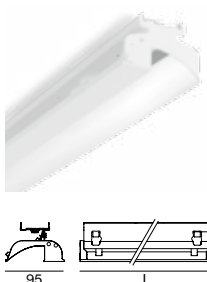
G D 8

+5% surcharges

Description

DE Lichteinsatz mit speziell berechnetem, asymmetrischem Hochglanz-Reflektor für homogene vertikale Beleuchtungen; Lichteinsatz aus weiß, grau, dunkelgrau oder schwarz pulverbeschichtetem Aluminium werkzeuglos einsetzbar

EN Lighting module with specially computed, asymmetrical high gloss reflector for homogeneous vertical lighting; lighting module in aluminium, powder coated in white, grey, dark grey or black, installation without tools

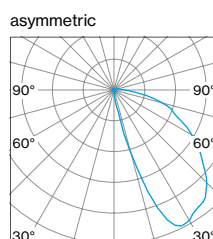


INSET 100 wallwasher e² LED



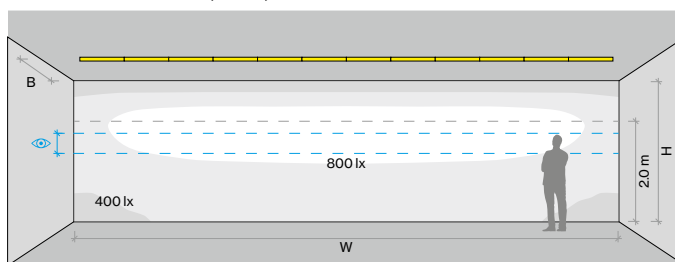
SYSTEM POWER	L (mm)	ORDER CODE
20 W	571	0 0 7 - 9 0 5 2 ◆◆ ◆ ◆
30 W	871	0 0 7 - 9 0 5 3 ◆◆ ◆ ◆
40 W	1171	0 0 7 - 9 0 5 4 ◆◆ ◆ ◆
51 W	1463	0 0 7 - 9 0 5 5 ◆◆ ◆ ◆

LIGHT DISTRIBUTION



Technical data

INSET 100 wallwasher, 30W, 3000K



ROOM VALUES

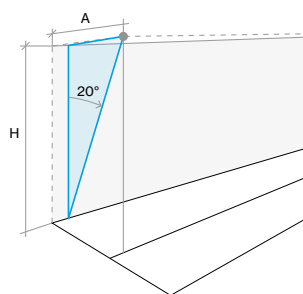
Wall dimensions $H = 2.8 \text{ m} \mid W = 10.8 \text{ m}$
 Distance to wall $B = 1.3 \text{ m}$
 Distance between luminaires continuous
 Reflection factor 0.7 | 0.5 | 0.2
 Maintenance factor 0.8

CALCULATION SURFACE

Surface dimensions $10.8 \times 2.8 \text{ m}$
 Surface height $0 - 2.8 \text{ m}$
 Eye level 👁 $1.35 \text{ m} - 1.75 \text{ m}$

MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200



Light output ratio per meter

TYPE	LAMP	SYSTEM POWER	COLOUR TEMP.	DELIVERED LUMENS	EFFICACY
PROFILE 100	e ² LED	35 W/m	3000 K	2820 lm/m	82 lm/W
WALLWASHER			4000 K	2990 lm/m	87 lm/W

INSET 100 JUST 32 / emergency light

Standard configuration

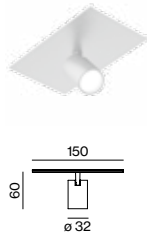
COLOUR TEMPERATURE ⋮
3000K 5

CONTROL
non DIM 1

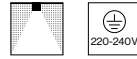
MATERIAL COLOUR ☑
white 7

7

LED LENS ▲
medium 27° M



INSET 100 JUST 32



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
1×3,5W	3000K	300lm	150	0 0 7 - 9 6 5 1 ⋮ 1 ☑ ▲
	4000K	330lm		

LIGHT DISTRIBUTION

spot 19°			medium 27°			flood 42°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	1747	ø 0,34	1	918	ø 0,48	1	560	ø 0,77
2	437	ø 0,68	2	229	ø 0,97	2	140	ø 1,54
3	194	ø 1,03	3	102	ø 1,45	3	62	ø 2,32
4	109	ø 1,37	4	57	ø 1,94	4	35	ø 3,09
5	70	ø 1,71	5	37	ø 2,42	5	22	ø 3,86

Extended configuration

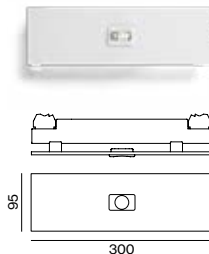
COLOUR TEMPERATURE ⋮
4000K 6

MATERIAL COLOUR ☑
grey G
dark grey D
black 8

G D 8

+5% surcharges

LED LENS ▲
spot 19° S
flood 42° F

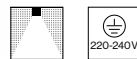


Optical accessories

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	30·4	0 0 7 - 1 9 6 5 1 6 8
elliptical sculpture foil	30·4	0 0 7 - 1 9 6 5 2 6 0
snoot	30·15	0 0 7 - 1 9 6 5 3 6 8
colour filter (red, blue, green, etc.)	30·4	on request

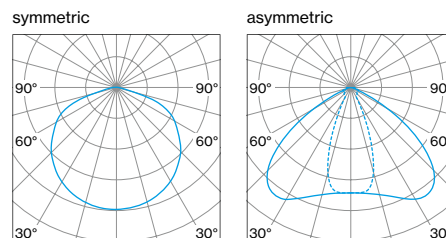
use only 1 optical accessory

INSET 100 emergency light



SYSTEM POWER	LUM. FLUX	L (mm)	ORDER CODE
1,2W symmetric	100lm	300	0 1 4 - 0 0 0 2 ☑ NL 3
1,2W asymmetric	120lm	300	0 1 4 - 0 0 1 2 ☑ NL 3

LIGHT DISTRIBUTION

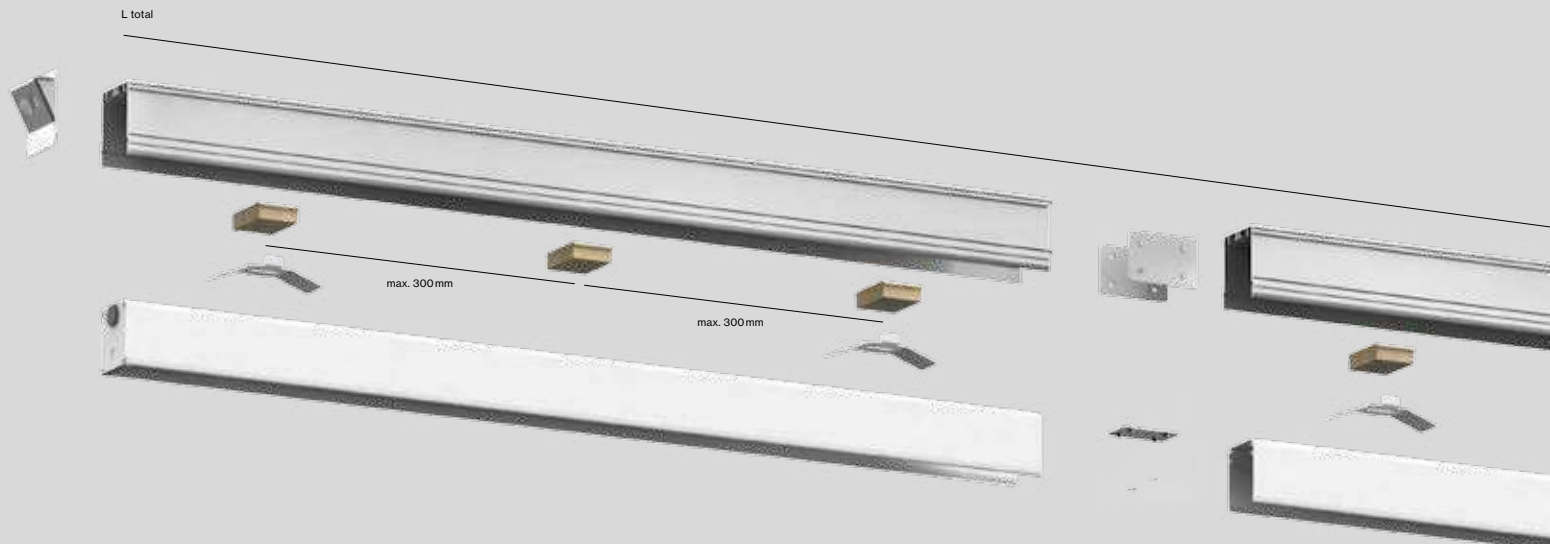


Description

DE Lichteinsatz mit Strahlerkopf aus Aluminium, 352° dreh- und 90° schwenkbar; mit einzelndem LED Lichtpunkt, symmetrische oder asymmetrische Lichtverteilung; als Sicherheitsbeleuchtung, inkl. NL-Baustein 3h (Selbstüberwachung und Akku); weiß, grau, dunkelgrau oder schwarz Aluminium pulverbeschichtet, werkzeuglos einsetzbar

EN Lighting module with spotlight head in aluminium, 352° rotatable and 90° tiltable; with single LED light point, symmetrical or asymmetrical light distribution; as security lighting, incl. emergency light element 3h (self test and battery); aluminium, powder coated in white, grey, dark grey or black, installation without tools

CONCRETE INSTALLATION HOUSING



Only for installation in concrete ceilings.
No use for wall installation (only on request).

Order options

NUMBER OF PIECES	
2 pieces	2
3 pieces	3

Description

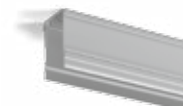
DE Betoneingießgehäuse aus Aluminiumprofil, ausgelegt für durchgehende Lichtsysteme

EN Concrete casting made of aluminium profile, designed for continuous lighting systems

BASO 40 trimless / trim / surface

HOUSING FOR CONCRETE INSTALLATION

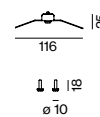
TYPE	L (mm)	ORDER CODE
BASO 40 trim	3000	0 0 5 - 4 1 3 3 6
BASO 40 trimless	3000	0 0 5 - 4 1 3 3 6
BASO 40 surface	3000	0 0 5 - 4 1 3 3 6



MOUNTING SET

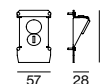
TYPE	ORDER CODE
BASO 40 trim / surface	0 3 5 - 0 6 0 0
BASO 40 trimless	0 3 6 - 0 6 0 0

up to 900mm: 2 pieces / up to 1500mm: 3 pieces / up to 3000mm: 2 x 2 pieces



END CAPS

TYPE	ORDER CODE
end caps (pair)	0 0 5 - 4 1 2 3 6



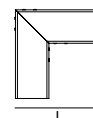
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 1 1 6 6
linear connector (10 pieces)	0 0 5 - 4 1 1 6 6 . 1 0



CORNER CONNECTOR 90°

TYPE	L (mm)	ORDER CODE
BASO 40 trim	140	0 3 5 - 0 6 0 1 6
BASO 40 trimless	147	0 3 6 - 0 6 0 1 6
BASO 40 surface	157	0 3 4 - 0 6 0 1 6



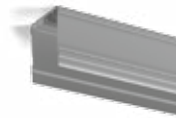
Order options

NUMBER OF PIECES	
2 pieces	2
3 pieces	3

FRAME 60 / MINIMAL 60 / MINO 60

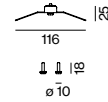
HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
FRAME 60 trim	3000	0 0 5 - 4 1 3 4 6
MINIMAL 60 trimless	3000	0 0 5 - 4 1 3 4 6
MINO 60 ceiling	3000	0 0 5 - 4 1 4 4 6



MOUNTING SET

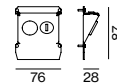
TYPE	ORDER CODE
FRAME 60 trim	0 3 5 - 0 6 0 0
MINIMAL 60 trimless	0 3 6 - 0 4 0 0
MINO 60 ceiling	0 3 4 - 0 4 0 0



up to 900 mm: 2 pieces / up to 1500 mm: 3 pieces / up to 3000 mm: 2 x 2 pieces

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 0 5 - 4 1 2 4 6



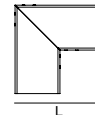
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 1 1 6 6
linear connector (10 pieces)	0 0 5 - 4 1 1 6 6 . 1 0



CORNER CONNECTOR 90°

TYPE	L (mm)	ORDER CODE
FRAME 60 trim	142	0 3 5 - 0 4 0 1 6
MINIMAL 60 trimless	146	0 3 6 - 0 4 0 1 6
MINO 60 ceiling	157	0 3 4 - 0 4 0 1 6



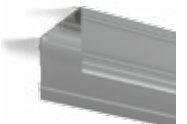
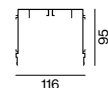
Order options

NUMBER OF PIECES	
2 pieces	2
3 pieces	3

FRAME 100 / MINIMAL 100 / MINO 100

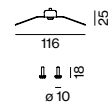
HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
FRAME 100 trim	3000	0 0 5 - 4 1 3 6 6
MINIMAL 100 trimless	3000	0 0 5 - 4 1 3 6 6
MINO 100 ceiling	3000	0 0 5 - 4 1 4 6 6



MOUNTING SET

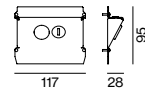
TYPE	ORDER CODE
FRAME 100 trim	0 3 5 - 0 6 0 0
MINO 100 trimless	0 3 6 - 0 5 0 0
MINO 100 ceiling	0 3 4 - 0 4 0 0



up to 900 mm: 2 pieces / up to 1500 mm: 3 pieces / up to 3000 mm: 2x2 pieces

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 0 5 - 4 1 2 6 6



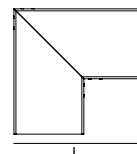
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 1 1 6 6
linear connector (10 pieces)	0 0 5 - 4 1 1 6 6 . 1 0



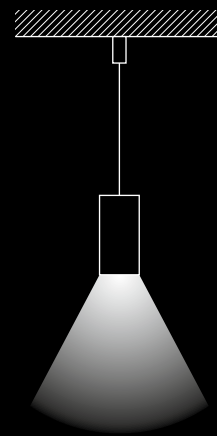
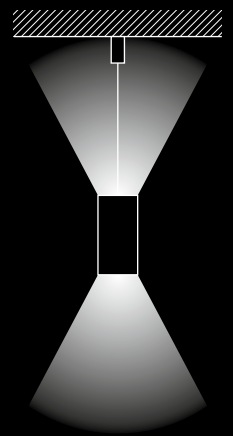
CORNER CONNECTOR 90°

TYPE	L (mm)	ORDER CODE
FRAME 100 trim	202	0 3 5 - 0 5 0 1 6
MINIMAL 100 trimless	207	0 3 6 - 0 5 0 1 6
MINO 100 ceiling	207	0 3 4 - 0 5 0 1 6

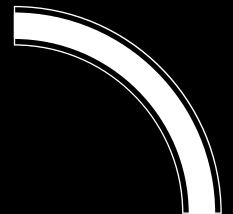


TASK system

MOUNTING

SUSPENDED**SUSPENDED
INDIRECT**

SHAPES

LINEAR**CORNER****CURVE**

LIGHT DISTRIBUTION

MICROPRISMATIC
UGR < 19

CONTROL

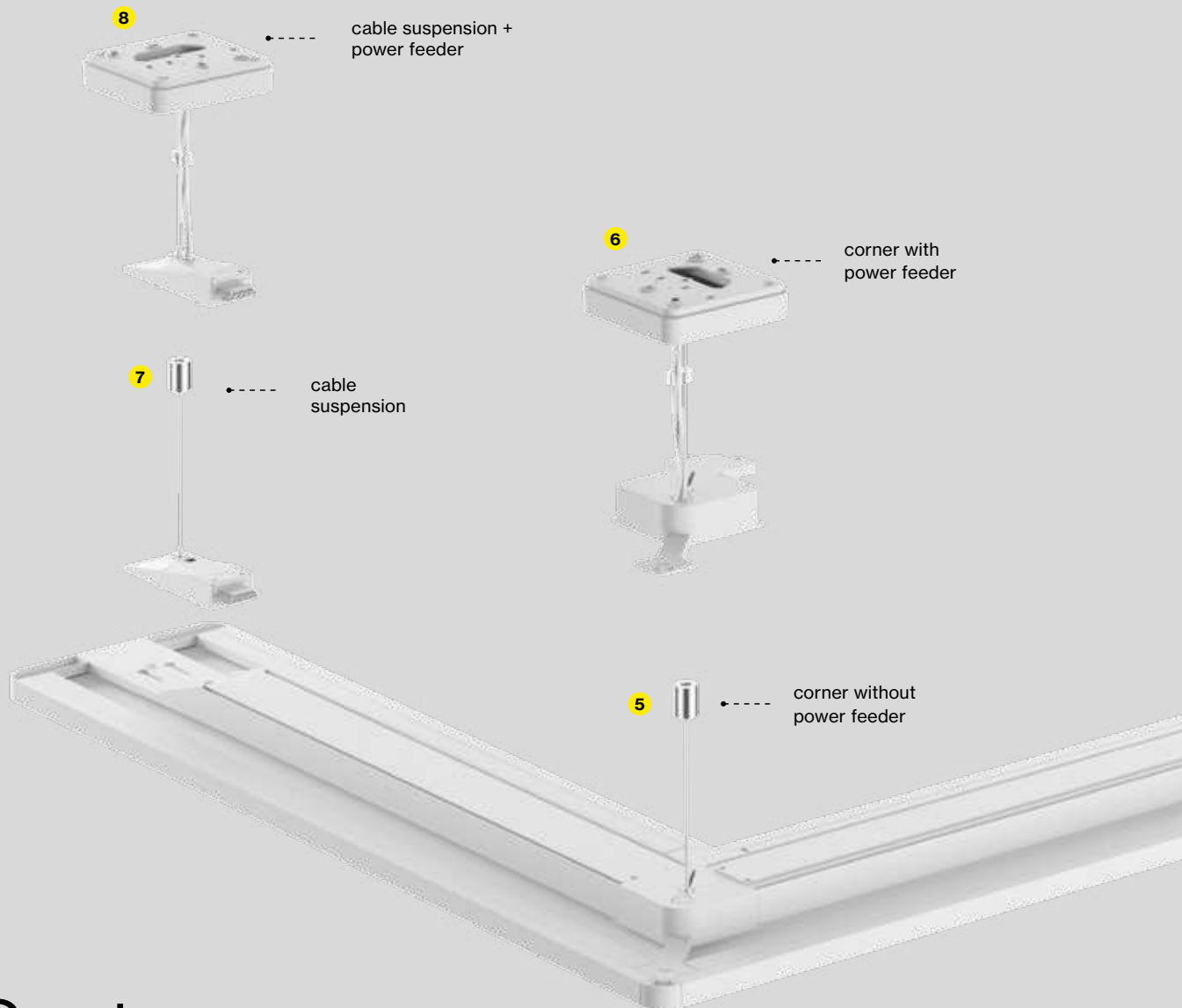
non DIM
3000K / 4000K**DIM DALI**
3000K / 4000K

Description

DE Extrem flacher Leuchtenkörper mit abgerundeten Kanten; abgehängt, wahlweise mit direkter bzw. direkt/indirekter Abstrahlcharakteristik; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder und Kreissegmente für flexiblen Systemaufbau; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); lieferbar in den Lichtfarben 3000K und 4000K; wahlweise nicht dimmbar oder DALI-dimmbar

EN Flat housing with rounded edges; suspended, either with direct or direct/indirect light distribution; designed for continuous lighting systems, 90° angle connectors and circular segments for flexible system design; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); available in the light colours 3000K and 4000K; optionally non-dimmable or DALI dimmable

TASK system



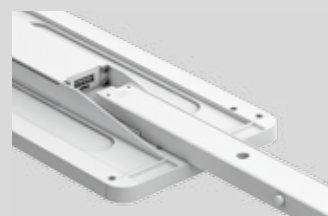
System Components

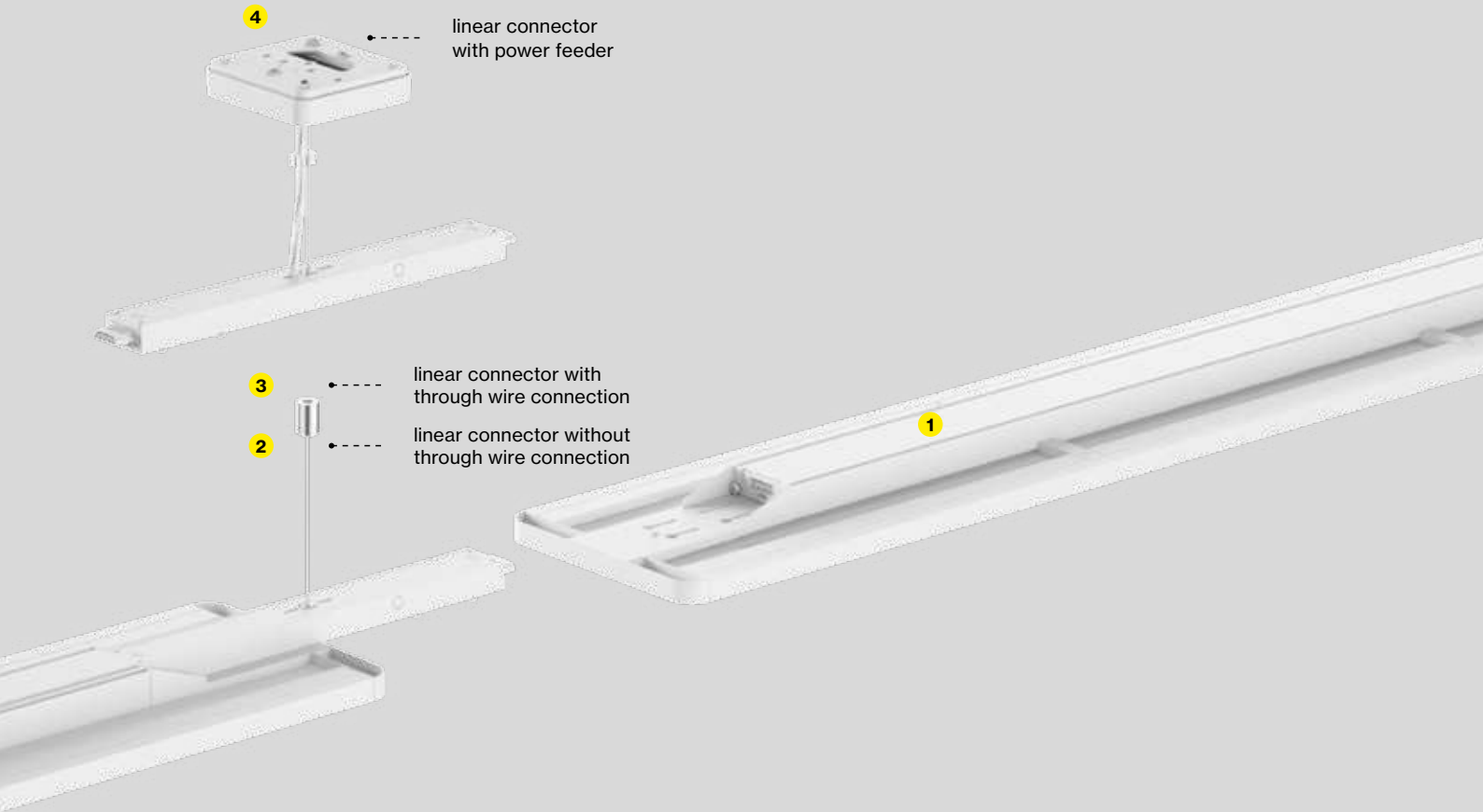
Smart plug connections for intelligent configurations

DE Die Verbindung der einzelnen Pendelleuchten erfolgt mittels zum Patent angemeldeten Linear Connector vollkommen werkzeuglos und optisch zurückhaltend. Die elektrische Kontaktierung ist dabei bereits automatisch gegeben. Komplettiert wird das System durch funktionale Seilabhängungen.

EN The individual pendant lamps are connected invisibly and completely without tools by means of the patent-pending linear connector. Electrical contact is established automatically. The system is rounded out by functional cord suspensions.

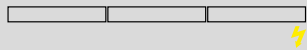
LINEAR CONNECTOR





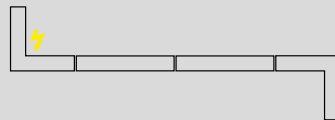
CONFIGURATION IDEAS AND ACCESSORIES

LINE

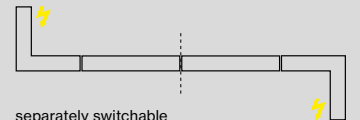


$$8 + 2 \times 3 + 7 + 3 \times 1$$

INDIVIDUAL

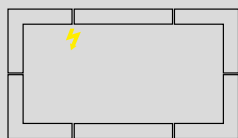


$$2 \times 7 + 6 + 3 \times 3 + 2 \times 1 + 5$$

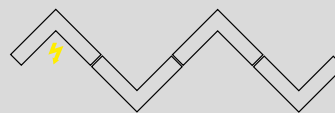


$$2 \times 5 + 2 \times 8 + 2 + 2 \times 1 + 2 \times 3$$

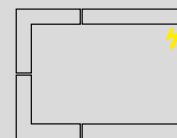
RECTANGLE (closed)



$$4 + 4 \times 5 + 5 \times 3 + 2 \times 1$$



$$6 + 3 \times 5 + 3 \times 3 + 2 \times 7$$



$$8 + 3 \times 3 + 2 \times 1 + 2 \times 5 + 7$$

TASK

suspended

xal.com/task

Quickinfo

GENERAL

suspended

IP20

quick installation

LED

Mid-power LED

up to 126lm/W

3000K, 4000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination

microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI

transparent feeder cable

system connector available

PHYSICAL

aluminium

powder-coated

halogen-free cable (internal wiring)

TASK CORNER

suspended

[page 552](#)



TASK CURVE

suspended

[page 552](#)



Description

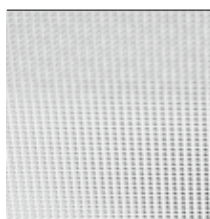
DE Leuchtenkörper aus Aluminium mit abgerundeten Kanten; unterschiedliche Varianten: Bauform wahlweise rechteckig, L-förmig oder als Viertelkreis-Segment; extrem flache Bauform (nur 15 mm); für durchgehende Lichtsysteme; Oberfläche weiß pulverbeschichtet; Pendelleuchtersystem mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; komfortables, werkzeugloses Schnellmontagesystem; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; optional: Indirektlichtanteil mit eigenen Platinen für erhöhten Lichtstrom und maximale Deckenaufhellung; mikroprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; Lichtfarbe 3000K oder 4000K; CRI ≥ 80; L80 / 50000h; Baldachin mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Luminaire housing made of aluminium with rounded edges; different versions: choice of rectangular, L-shaped or quarter circle segment design; ultra low-profile design (only 15 mm); for continuous lighting systems; surface white powder coated; suspended luminaire system with 1500 mm cord suspension; with integrated tool-less suspension height adjustment; convenient quick mounting system without tools; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; light control via highly reflective reflector material; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; microprismatic PMMA cover, completely homogeneous illumination using a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; light colour 3000K or 4000K; CRI ≥ 80; L80 / 50000h; canopy with 2 cable openings and plug-in terminal for through wiring; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

Features



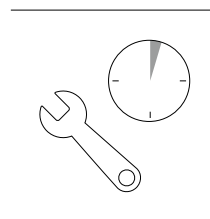
flat design (15 mm)



microprismatic
(UGR < 19)



linear connector



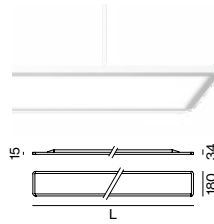
quick installation

Standard configuration

COLOUR TEMPERATURE 6
4000 K

CONTROL 3
DIM DALI / CLO

MATERIAL COLOUR 7
white



TASK suspended

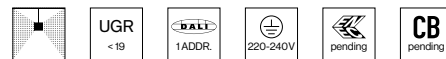
order luminaire + mounting accessories separately

DIRECT



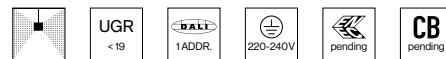
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15W	3000K 4000K	1780lm 1890lm	1200	0 5 9 - 5 7 4 4 :: 7 P
23W	3000K 4000K	2670lm 2840lm	1800	0 5 9 - 5 7 4 6 :: 7 P
30W	3000K 4000K	3560lm 3780lm	2400	0 5 9 - 5 7 4 8 :: 7 P

DIRECT / INDIRECT SOFT



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
23W	3000K 4000K	↓ 2300/± 430lm ↓ 2450/± 450lm	1200	0 5 9 - 5 7 5 4 :: 7 P
35W	3000K 4000K	↓ 3450/± 640lm ↓ 3670/± 680lm	1800	0 5 9 - 5 7 5 6 :: 7 P
46W	3000K 4000K	↓ 4600/± 850lm ↓ 4890/± 910lm	2400	0 5 9 - 5 7 5 8 :: 7 P

DIRECT / INDIRECT POWER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
54W	3000K 4000K	↓ 3770/± 2430lm ↓ 4010/± 2580lm	1200	0 5 9 - 5 7 6 4 :: 7 P
81W	3000K 4000K	↓ 5650/± 3640lm ↓ 6010/± 3870lm	1800	0 5 9 - 5 7 6 6 :: 7 P
102W	3000K 4000K	↓ 7540/± 4860lm ↓ 8010/± 5160lm	2400	0 5 9 - 5 7 6 8 :: 7 P

Extended configuration

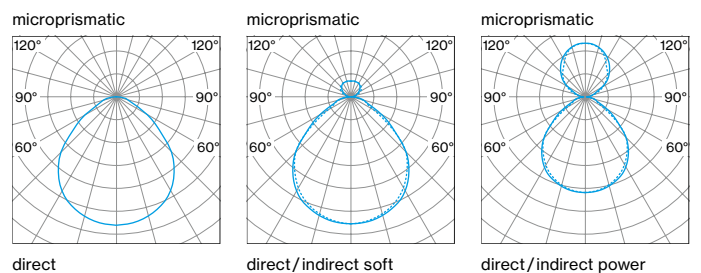
COLOUR TEMPERATURE 5
3000 K

CONTROL 1
non DIM

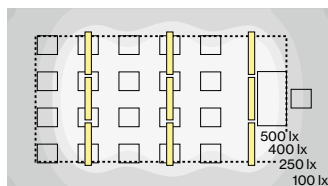
Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

LIGHT DISTRIBUTION



Technical data



TASK system linear, 23W, 4000K
direct / indirect soft

ROOM VALUES

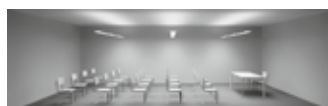
Room dimensions 9 × 5 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8
Mounting height 2.25 m

CALCULATION SURFACE

Surface dimensions 7 × 3.5 m
Surface height 0.75 m
Average illuminance (E_m) > 500 lx

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²



Mounting accessories

LINEAR CONNECTOR

TYPE	ORDER CODE
with through wire connection (max. for 500 W)	0 5 9 - 2 7 9 2 3 1 7
without through wire connection	0 5 9 - 2 7 9 2 4 1 7
with power feeder 3 × 1,5 mm ² (non DIM)	0 5 9 - 2 7 9 2 5 2 7
with power feeder 5 × 1,5 mm ² (DIM DALI)	0 5 9 - 2 7 9 2 5 1 7

POWER FEEDER

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM)	0 5 9 - 2 7 9 2 2 2 7
5 × 1,5 mm ² (DIM DALI)	0 5 9 - 2 7 9 2 2 1 7

CABLE SUSPENSION

L (mm)	ORDER CODE
1500 mm	0 5 9 - 2 7 9 2 1 1 7

Standard configuration

CORNER	⚡
without power feeder	2
with power feeder	3

COLOUR TEMPERATURE	⦿
4000K	6

CONTROL	⬆
DIM DALI / CLO	3

MATERIAL COLOUR	
white	7

7

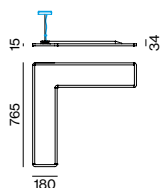
Extended configuration

COLOUR TEMPERATURE	⦿
3000K	5

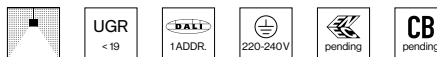
CONTROL	⬆
non DIM	1

Options on request

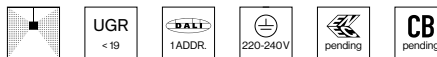
COLOUR RENDERING INDEX	
CRI ≥ 90	

**TASK CORNER suspended**

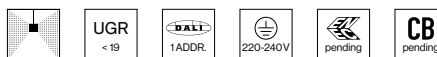
incl. corner cable suspension 1500 mm

DIRECT

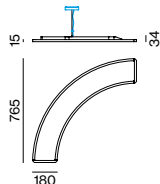
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
18 W	3000 K	2080 lm	765	0 5 9 - 5 8 4 ⚡ ⦿ ⬆ 7 P
	4000 K	2210 lm		

DIRECT / INDIRECT SOFT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27 W	3000 K	↓ 2680 / ↑ 2830 lm	765	0 5 9 - 5 8 5 ⚡ ⦿ ⬆ 7 P
	4000 K	↓ 2840 / ↑ 540 lm		

DIRECT / INDIRECT POWER

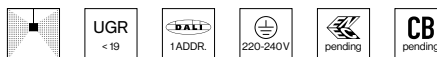
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
63 W	3000 K	↓ 4400 / ↑ 2830 lm	765	0 5 9 - 5 8 6 ⚡ ⦿ ⬆ 7 P
	4000 K	↓ 4670 / ↑ 3010 lm		

**TASK CURVE suspended**

incl. corner cable suspension 1500 mm

DIRECT

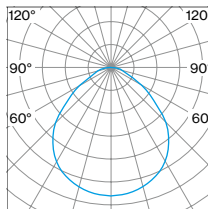
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15 W	3000 K	1780 lm	765	0 5 9 - 5 5 4 ⚡ ⦿ ⬆ 7 P
	4000 K	1890 lm		

DIRECT / INDIRECT POWER

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
54 W	3000 K	↓ 3770 / ↑ 2430 lm	765	0 5 9 - 5 5 6 ⚡ ⦿ ⬆ 7 P
	4000 K	↓ 4010 / ↑ 2580 lm		

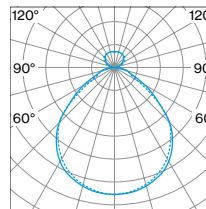
LIGHT DISTRIBUTION

microprismatic



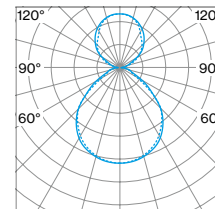
direct

microprismatic



direct/indirect soft

microprismatic



direct/indirect power

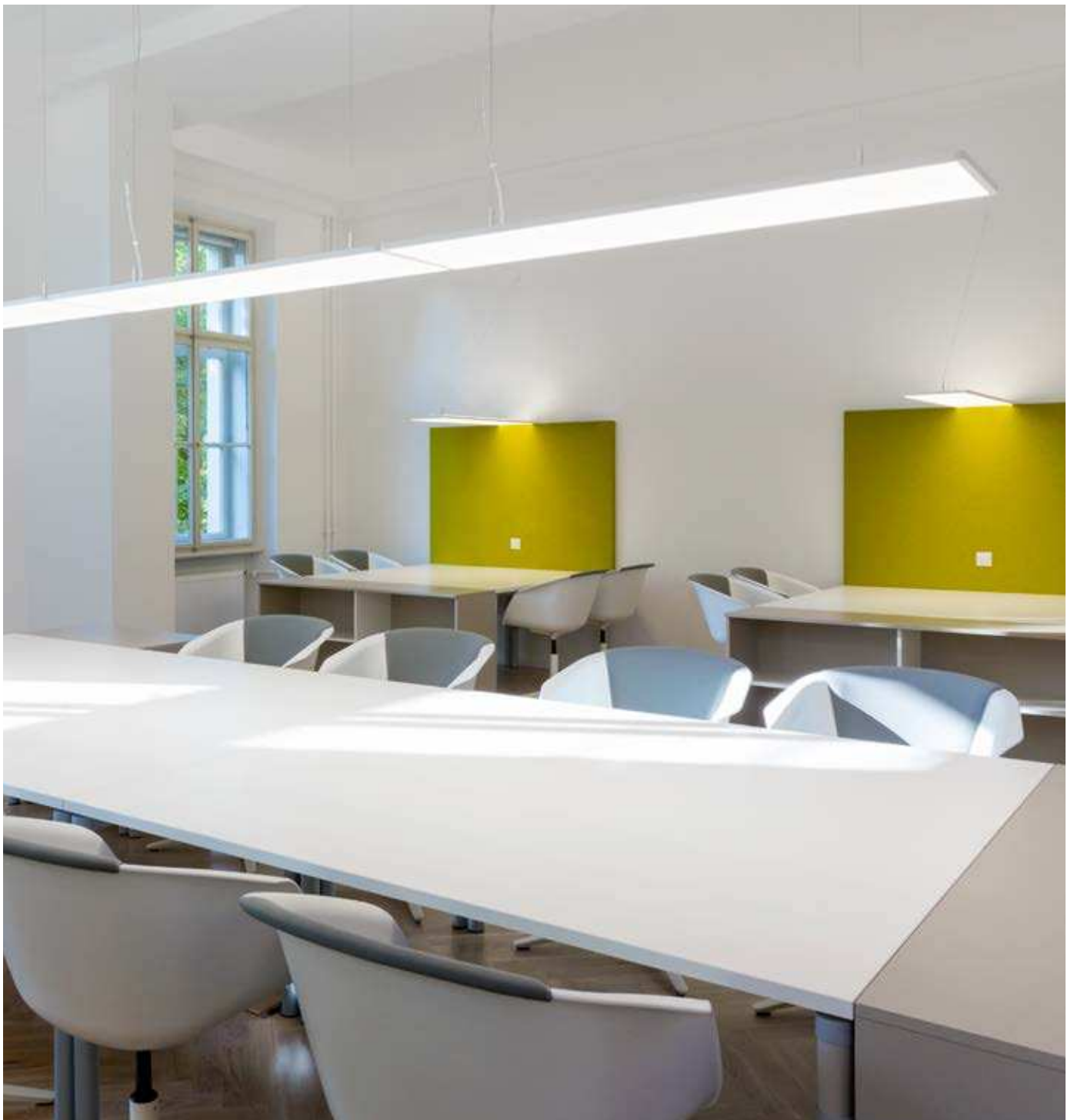
Inspiration

Europagymnasium
Klagenfurt, Austria

PRODUCT
TASK 1200 suspended
customised

ARCHITECT
Traninger und Walder Architects
Villach, Austria

LIGHTING DESIGN
Traninger und Walder Architects
Villach, Austria



Inspiration

Creative Lab
Barcelona, Spain

PRODUCT
TASK suspended

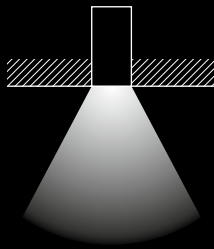




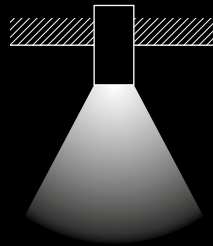
LENO system

MOUNTING

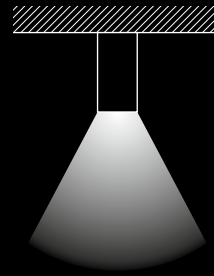
TRIM / TRIMLESS



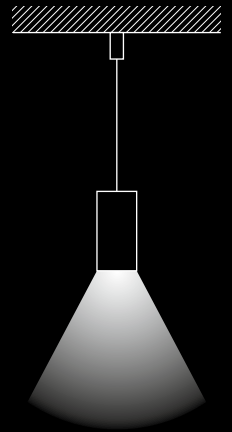
SEMI-RECESSED



SURFACE



SUSPENDED



SHAPES

LINEAR



LIGHT DISTRIBUTION

OPAL

MICROPRISMATIC
UGR < 19

CONTROL

DIM DALI
3000K / 4000Knon DIM
emergency light
3000K / 4000K

Description

DE Extrem flacher Leuchtenkörper mit magnetischem Lichteinsatz; ausgelegt für durchgehende Lichtsysteme; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) mit mikroprismatischer PMMA-Abdeckung; lieferbar in den Lichtfarben 3000 K und 4000 K; wahlweise nicht dimmbar oder DALI-dimmbar

EN Flat housing with magnetic lighting insert; designed for continuous lighting systems; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) with microprismatic PMMA cover; available in the light colours 3000 K and 4000 K; optionally non-dimmable or DALI dimmable

Overview

	CHANNEL trim	CHANNEL trimless	CHANNEL semi-recessed	CHANNEL surface	CHANNEL suspended
COVER					
opal high performance	•	•	•	•	•
microprismatic	•	•	•	•	•
CONTROL					
DIM DALI	•	•	•	•	•
non DIM	•	•	•	•	•

LENO

trim

xal.com/leno



Quickinfo

GENERAL

recessed with trim
ceiling thickness 12,5 mm
↓ IP 40 / ↑ IP 20
quick installation

LED

Mid-power LED
up to 2007 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

220–240 V
DIM DALI

PHYSICAL

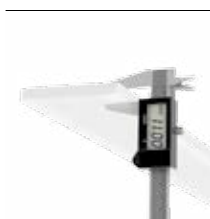
aluminium
powder-coated
612–2436 mm
halogen-free cable

Description

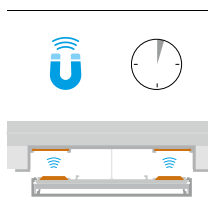
DE Extrem flacher Einbaukanal mit 14 mm Höhe; geeignet für den Einbau in 12,5 mm Decken, mit umlaufendem Rand; geeignet für die Wand- oder Deckenmontage; ausgelegt für durchgehende Lichtsysteme; einfache Montage ohne Schneiden der Unterkonstruktion; Oberfläche weiß pulverbeschichtet; absturzesicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierete oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

EN Low profile recessed channel, height 14 mm; suitable for installation in 12.5 mm ceilings, with trim; suitable for wall or ceiling mounting; designed for continuous lighting systems; easy mounting without need to cut the substructure; surface white powder coated; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

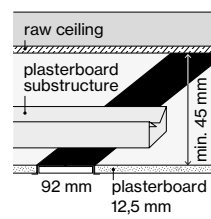
Features



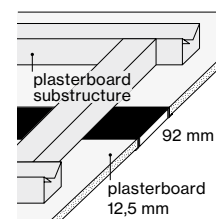
flat inset (11 mm)



magnetic holders for tool-free mounting



plasterboard installation



alternative installation

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER ◻
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

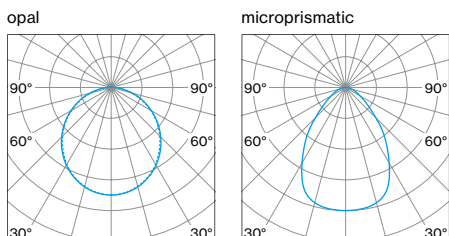
CONTROL ⬆
non DIM 1

LIGHT OPTIC COVER ◻
microprismatic (UGR < 19) G

Options on request

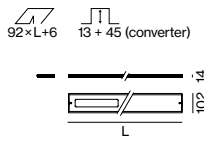
EMERGENCY LIGHT
1h accupack
3h accupack

LIGHT DISTRIBUTION



LENO trim

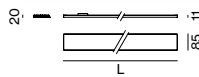
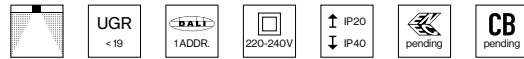
order installation channel, light inset + mounting accessories separately



INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	0 5 1 - 8 9 1 0 0 6 7
channel	1221	0 5 1 - 8 9 1 0 1 2 7
channel	1830	0 5 1 - 8 9 1 0 1 8 7
channel	2438	0 5 1 - 8 9 1 0 2 4 7

LIGHT INSET



SYSTEM POWER	L (mm)	ORDER CODE
11W	612	0 5 1 - 8 0 1 2 : : 7 ◻
19W	1220	0 5 1 - 8 0 1 4 : : 7 ◻
29W	1828	0 5 1 - 8 0 1 6 : : 7 ◻
39W	2436	0 5 1 - 8 0 1 8 : : 7 ◻

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	15,5W/m	1888lm/m	118lm/W
performance	4000K		2006lm/m	126lm/W
microprismatic	3000K	15,5W/m	1786lm/m	112lm/W
UGR < 19	4000K		1897lm/m	119lm/W

Accessories



END CAPS

TYPE	ORDER CODE
end caps (pair)	0 5 1 - 8 9 9 1 2 1 7



LINEAR CONNECTOR

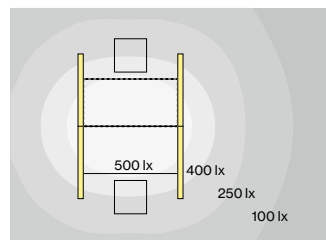
TYPE	ORDER CODE
linear connector (pair)	0 5 1 - 8 9 9 0 1 1 0
linear connector (10 pairs)	0 5 1 - 8 9 9 0 1 1 0 . 1 0



DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0

Technical data



LENO trim, microprismatic,
19W, 4000K

ROOM VALUES

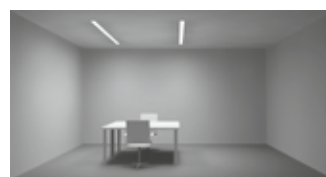
Room dimensions	5,4 × 4 × 2,8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1,6 × 0,8
Surface height	0,75
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0,6

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	



Office Gemüsekieste
Kramsach, Austria

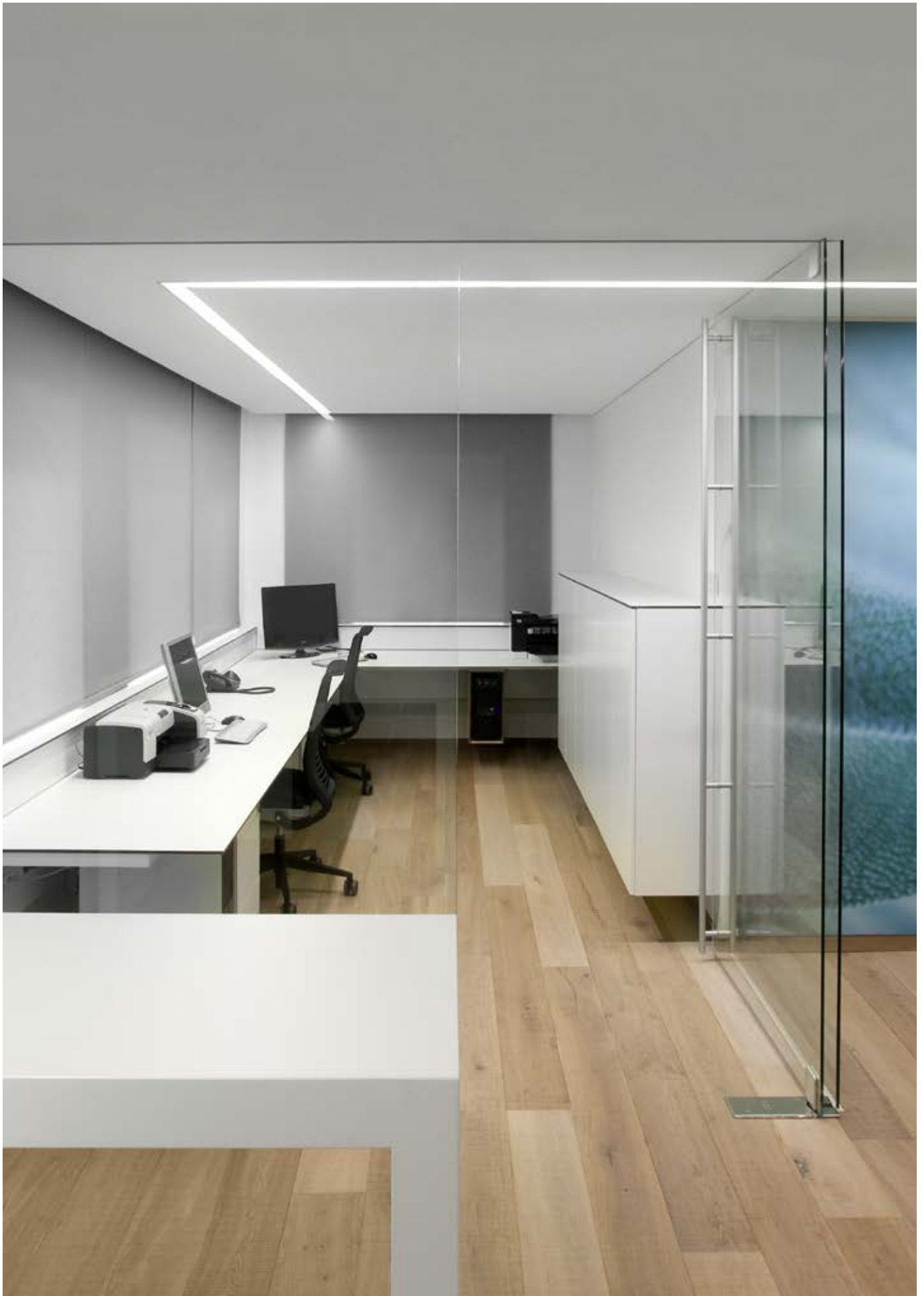
ARCHITECT

Lifestyle Foundation
Kufstein, Austria

PRODUCT

LENO trim





LENO

trimless

xal.com/leno



Quickinfo

GENERAL

recessed trimless
ceiling thickness 12,5 mm
↓ IP 40 / ↑ IP 20
quick installation

LED

Mid-power LED
up to 2007 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)

ELECTRICAL

220–240 V
non DIM, DIM DALI

PHYSICAL

aluminium
612–2436 mm
halogen-free cable

Description

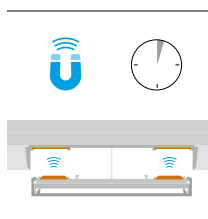
DE Extrem flacher Einbaukanal mit 13mm Höhe; geeignet für den randlosen Einbau in 12,5mm Gipskartondecken; geeignet für die Wand- oder Deckenmontage; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; ausgelegt für durchgehende Lichtsysteme; einfache Montage ohne Schneiden der Unterkonstruktion; Oberfläche weiß pulverbeschichtet; absturzesicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

EN Low profile recessed channel, height 13 mm; suitable for rimless installation in 12.5 mm plasterboard ceilings; suitable for wall or ceiling mounting; special edge design with grooves for better adhesion of filler; designed for continuous lighting systems; easy mounting without need to cut the substructure; surface white powder coated; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

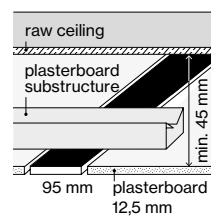
Features



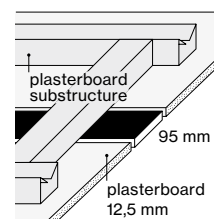
flat inset (11 mm)



magnetic holders for tool-free mounting



plasterboard installation



alternative installation

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ↕
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER ◻
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

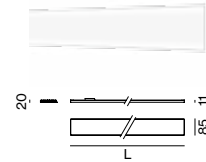
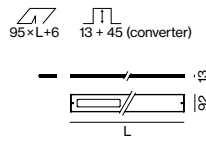
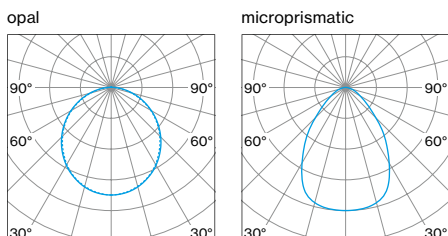
CONTROL ↕
non DIM 1

LIGHT OPTIC COVER ◻
microprismatic (UGR < 19) G

Options on request

EMERGENCY LIGHT
1h accupack
3h accupack

LIGHT DISTRIBUTION



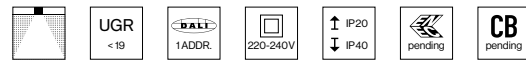
LENO trimless

order installation channel, light inset + mounting accessories separately

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	0 5 1 - 8 9 0 0 0 6 7
channel	1221	0 5 1 - 8 9 0 0 1 2 7
channel	1830	0 5 1 - 8 9 0 0 1 8 7
channel	2438	0 5 1 - 8 9 0 0 2 4 7

LIGHT INSET



SYSTEM POWER	L (mm)	ORDER CODE
11W	612	0 5 1 - 8 0 1 2 ⚡ 7 ◻
19W	1220	0 5 1 - 8 0 1 4 ⚡ 7 ◻
29W	1828	0 5 1 - 8 0 1 6 ⚡ 7 ◻
39W	2436	0 5 1 - 8 0 1 8 ⚡ 7 ◻

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	15,5W/m	1888lm/m	118lm/W
performance	4000K		2006lm/m	126lm/W
microprismatic	3000K	15,5W/m	1786lm/m	112lm/W
UGR < 19	4000K		1897lm/m	119lm/W

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 5 1 - 8 9 9 0 2 1 7

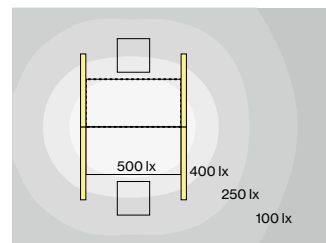
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	0 5 1 - 8 9 9 0 1 1 0
linear connector (10 pairs)	0 5 1 - 8 9 9 0 1 1 0 . 1 0

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0

Technical data



LENO trimless, microprismatic,
19W, 4000K

ROOM VALUES

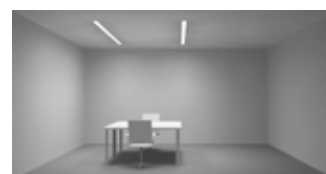
Room dimensions	5,4 × 4 × 2,8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1,6 × 0,8
Surface height	0,75
Average illuminance (E _m)	> 500 lx
Uniformity (U ₀)	> 0,6

GLARE EVALUATION

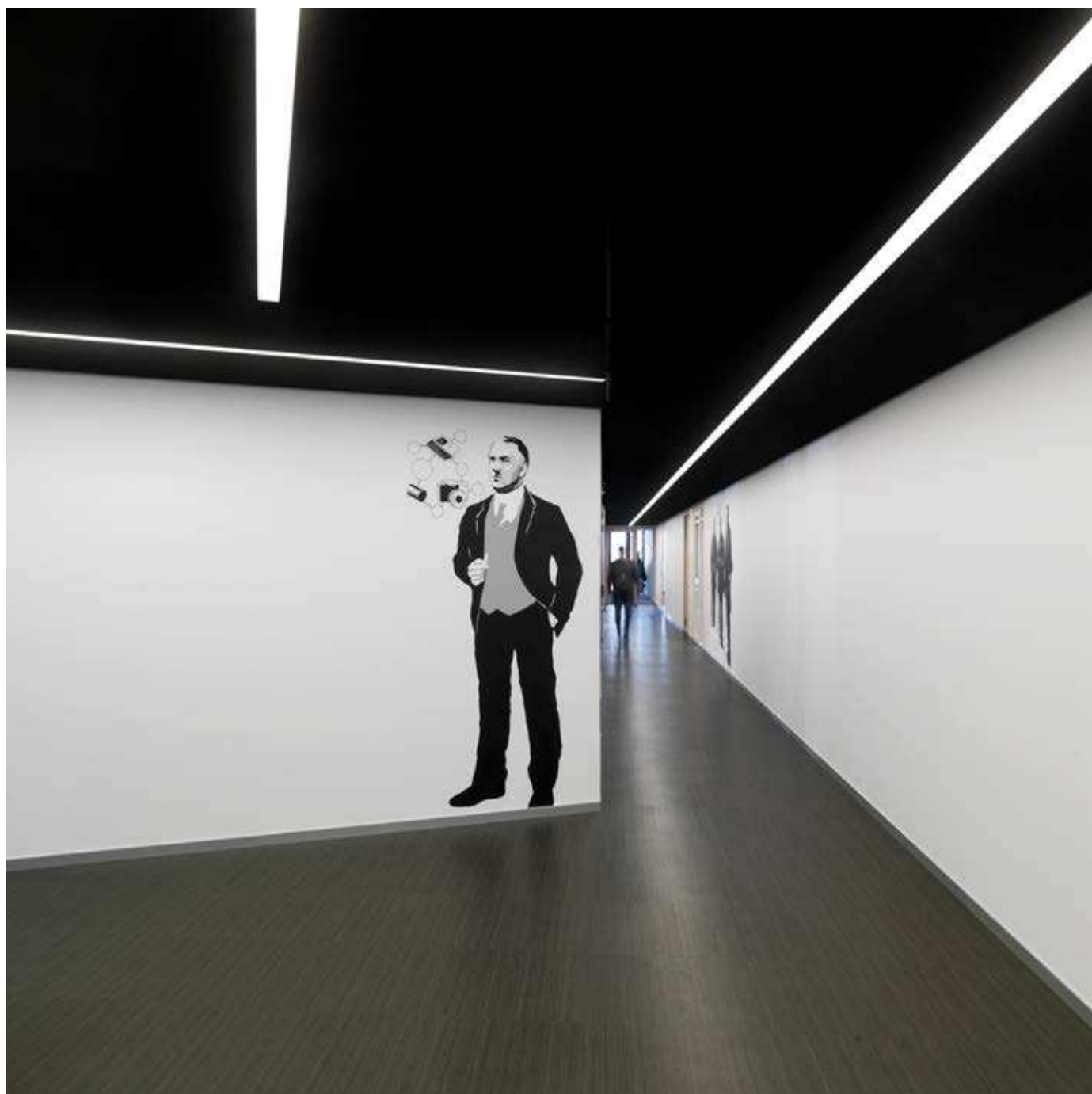
Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	

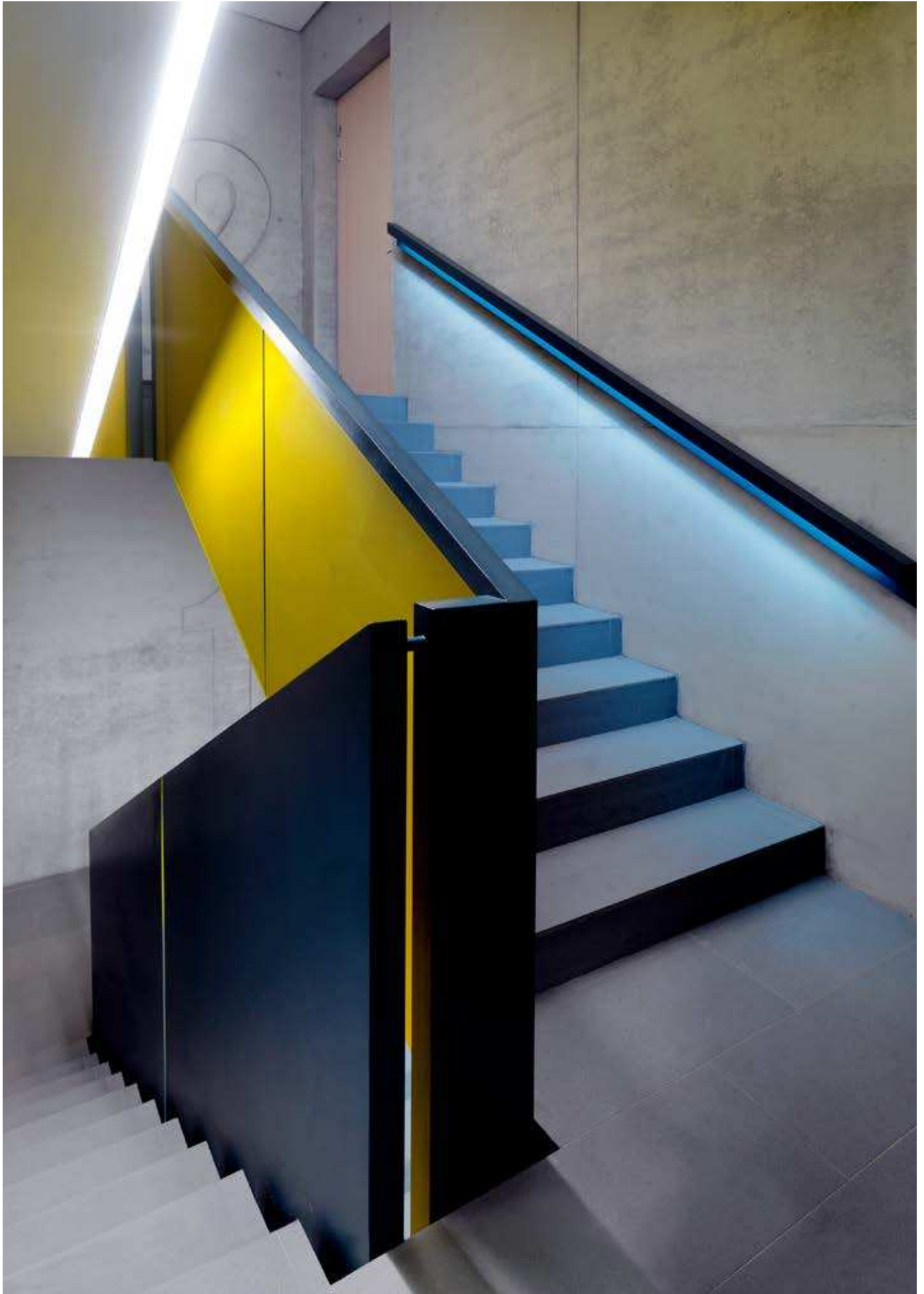


Ericpol
Lodz, Poland

ARCHITECT
HORIZONE Studio
Kraków, Poland

PRODUCT
LENO trimless





LENO

semi-recessed

xal.com/leno



Quickinfo

GENERAL

semi-recessed

IP 40 / IP 20

quick installation

LED

Mid-power LED

up to 2007 lm/m

up to 126 lm/W

3000K, 4000K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80/50.000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

220–240V

DIM DALI

through wire included

PHYSICAL

aluminium

powder-coated

612–2438mm

halogen-free cable

Description

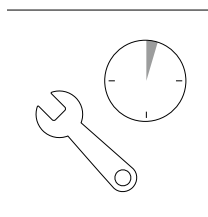
DE Extrem flache Einbauleuchte mit 15mm sichtbarer Höhe; geeignet für die Wand- oder Deckenmontage; geeignet für den Einbau in gespachtelten Beton oder Sichtbeton, in Gipskartonkonstruktionen und in verputzten Wänden oder Decken; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß, grau oder schwarz pulverbeschichtet; absturzsicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar

EN Low profile recessed mounted luminaire, 15 mm visible height; suitable for wall or ceiling mounting; suitable for installation in primed or exposed concrete, in plasterboard constructions and in plastered walls or ceilings; designed for continuous lighting systems; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable

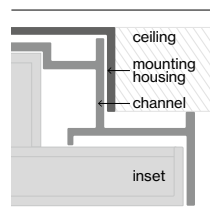
Features



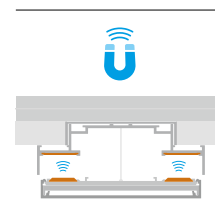
flat design (15 mm)



quick installation



mounting



magnetic holders for tool-free mounting

Standard configuration

COLOUR TEMPERATURE ☐☐
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

COLOUR TEMPERATURE ☐☐
4000K 6

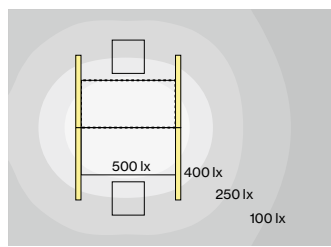
MATERIAL COLOUR ☑
grey G
black 8



+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic (UGR < 19) G

Technical data

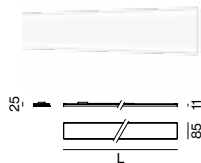
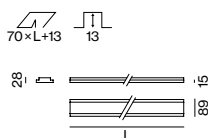


LENO semi-recessed,
microprismatic, 19W, 4000K

ROOM VALUES
Room dimensions 5.4 × 4 × 2.8m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE
Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²



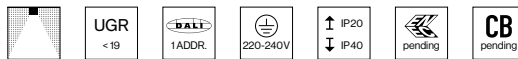
LENO semi-recessed

order installation channel, light inset + mounting accessories separately

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	0 51 - 8 9 2 0 0 6 ☑
channel	1221	0 51 - 8 9 2 0 1 2 ☑
channel	1830	0 51 - 8 9 2 0 1 8 ☑
channel	2438	0 51 - 8 9 2 0 2 4 ☑

LIGHT INSET

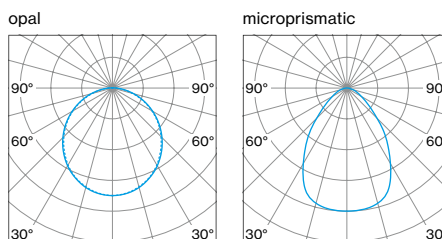


SYSTEM POWER	L (mm)	ORDER CODE
11W	612*	0 51 - 8 1 1 2 :: 3 7 ☑
19W	1220	0 51 - 8 2 1 4 :: 3 7 ☑
29W	1828	0 51 - 8 2 1 6 :: 3 7 ☑
39W	2436	0 51 - 8 2 1 8 :: 3 7 ☑

*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	15,5W/m	1888lm/m	118lm/W
performance	4000K		2006lm/m	126lm/W
microprismatic	3000K	15,5W/m	1786lm/m	112lm/W
UGR < 19	4000K		1897lm/m	119lm/W

LIGHT DISTRIBUTION



Accessories

END CAPS

TYPE	ORDER CODE
end caps mounting housing (pair)	0 51 - 8 9 9 6 2 1 0
end caps semi-recessed	0 51 - 8 9 9 2 2 1 ☑

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	0 51 - 8 9 9 2 1 1 0
linear connector (10 pairs)	0 51 - 8 9 9 2 1 1 0 . 1 0

POWER FEEDER CONNECTOR 220-240V | 13A

TYPE	ORDER CODE
power feeder connector	0 51 - 8 9 9 2 3 3 0

CONCRETE MOUNTING HOUSING

L (mm)	UNIT	ORDER CODE
616	end	0 51 - 8 9 6 0 0 6 0
1224	start/end	0 51 - 8 9 6 0 1 2 0
1221	middle	0 51 - 8 9 6 1 1 2 0
1833	start/end	0 51 - 8 9 6 0 1 8 0
1830	middle	0 51 - 8 9 6 1 1 8 0
2441	start/end	0 51 - 8 9 6 0 2 4 0
2438	middle	0 51 - 8 9 6 1 2 4 0

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0



Inspiration

Model home
Scheibbs, Austria

ARCHITECT
ecoconcept
Lunz am See, Austria

PRODUCT
LENO semi-recessed





LENO

surface

xal.com/leno



Quickinfo

GENERAL

ceiling surface

IP 40 / IP 20

quick installation

LED

Mid-power LED

up to 2007 lm/m

up to 126 lm/W

3000K, 4000K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80/50.000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

220–240V

DIM DALI

through wire included

PHYSICAL

aluminium

powder-coated

613–2438 mm

halogen-free cable

Description

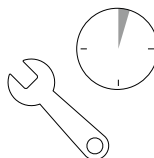
DE Extrem flache Aufbauleuchte mit 28 mm Gesamthöhe; geeignet für die Wand- oder Deckenmontage; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß, grau oder schwarz pulverbeschichtet; absturzgesicherter Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierete oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar

EN Low profile surface mounted luminaire, 28 mm total height; suitable for wall or ceiling mounting; designed for continuous lighting systems; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable

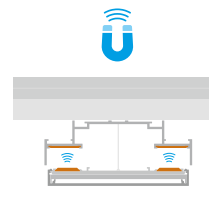
Features



flat design (28 mm)



quick installation



magnetic holders for tool-free mounting

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

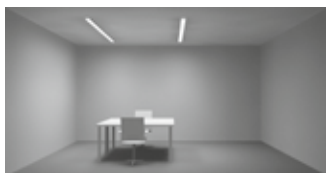
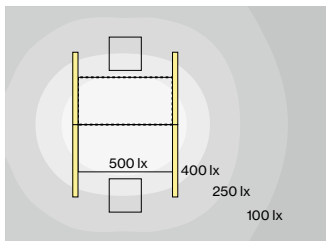
MATERIAL COLOUR ☑
grey G
black 8



+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic (UGR < 19) G

Technical data



LENO surface, microprismatic, 19W, 4000K

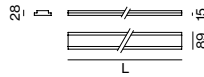
ROOM VALUES
Room dimensions 5.4 × 4 × 2.8m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE
Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²

LENO surface

order installation channel, light inset + mounting accessories separately



INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	0 5 1 - 8 9 2 0 0 6 ☑
channel	1221	0 5 1 - 8 9 2 0 1 2 ☑
channel	1830	0 5 1 - 8 9 2 0 1 8 ☑
channel	2438	0 5 1 - 8 9 2 0 2 4 ☑

LIGHT INSET

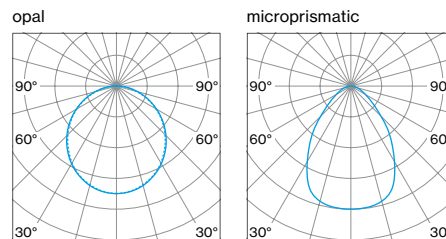


SYSTEM POWER	L (mm)	ORDER CODE
11W	612*	0 5 1 - 8 1 1 2 ⋮ 3 7 ☑
19W	1220	0 5 1 - 8 2 1 4 ⋮ 3 7 ☑
29W	1828	0 5 1 - 8 2 1 6 ⋮ 3 7 ☑
39W	2436	0 5 1 - 8 2 1 8 ⋮ 3 7 ☑

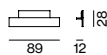
*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	15,5W/m	1888lm/m	118lm/W
performance	4000K		2006lm/m	126lm/W
microprismatic	3000K	15,5W/m	1786lm/m	112lm/W
UGR < 19	4000K		1897lm/m	119lm/W

LIGHT DISTRIBUTION



Accessories



END CAPS

TYPE	ORDER CODE
end caps (pair)	0 5 1 - 8 9 9 2 2 1 ☑



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	0 5 1 - 8 9 9 2 1 1 0
linear connector (10 pairs)	0 5 1 - 8 9 9 2 1 1 0 1 0

POWER FEEDER CONNECTOR 220-240V | 13A

TYPE	ORDER CODE
power feeder connector	0 5 1 - 8 9 9 2 3 3 0



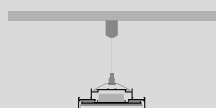
DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0

LENO

suspended

xal.com/leno



Quickinfo

GENERAL

suspended

IP 20

quick installation

LED

Mid-power LED

up to 2007 lm/m

up to 126 lm/W

3000 K, 4000 K

CRI > 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80/50.000 h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

220–240 V

DIM DALI

through wire included

PHYSICAL

aluminium

powder-coated

613–2438 mm

halogen-free cable (internal wiring)

Description

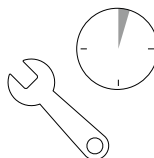
DE Extrem flache Pendelleuchte mit 28 mm Gesamthöhe; Leuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß, grau oder schwarz pulverbeschichtet; absturzesicherer Lichteinsatz aus stranggepresstem Aluminiumprofil werkzeuglos mittels Magnethalter in Kanal einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80 ; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar

EN Low profile suspended luminaire, 28 mm total height; luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; designed for continuous lighting systems; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80 ; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable

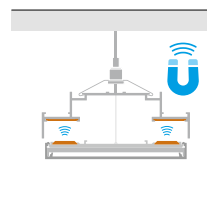
Features



flat design (28 mm)



quick installation



magnetic holders for tool-free mounting

Standard configuration

COLOUR TEMPERATURE ⦿
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR ☑
white 7



LIGHT OPTIC COVER ☑
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⦿
4000K 6

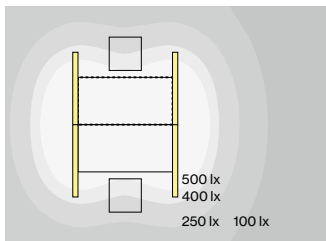
MATERIAL COLOUR ☑
grey G
black 8



+5% surcharges

LIGHT OPTIC COVER ☑
microprismatic (UGR < 19) G

Technical data



LENO suspended, microprismatic,
19W, 4000K

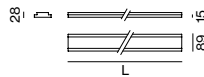
ROOM VALUES
Room dimensions 5.4 × 4 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8
Mounting height 2.25 m

CALCULATION SURFACE
Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²

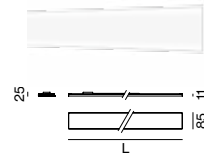
LENO suspended

order installation channel, light inset + mounting accessories separately



INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	0 5 1 - 8 9 3 0 0 6 ☑
channel	1221	0 5 1 - 8 9 3 0 1 2 ☑
channel	1830	0 5 1 - 8 9 3 0 1 8 ☑
channel	2438	0 5 1 - 8 9 3 0 2 4 ☑



LIGHT INSET

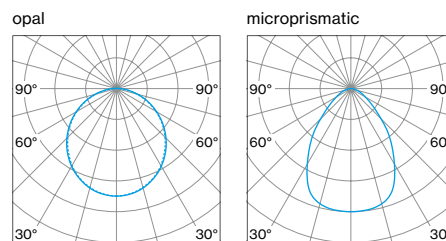


SYSTEM POWER	L (mm)	ORDER CODE
11W	612*	0 5 1 - 8 1 1 2 ⦿ 3 7 ☐
19W	1220	0 5 1 - 8 2 1 4 ⦿ 3 7 ☐
29W	1828	0 5 1 - 8 2 1 6 ⦿ 3 7 ☐
39W	2436	0 5 1 - 8 2 1 8 ⦿ 3 7 ☐

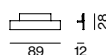
*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	15,5W/m	1888lm/m	118lm/W
performance	4000K		2006lm/m	126lm/W
microprismatic	3000K	15,5W/m	1786lm/m	112lm/W
UGR < 19	4000K		1897lm/m	119lm/W

LIGHT DISTRIBUTION

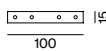


Accessories



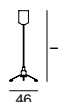
END CAPS

TYPE	ORDER CODE
end caps (pair)	0 5 1 - 8 9 9 2 2 1 ☑



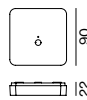
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	0 5 1 - 8 9 9 3 1 1 0
linear connector (10 pairs)	0 5 1 - 8 9 9 3 1 1 0 . 1 0



CABLE SUSPENSION

L (mm)	ORDER CODE
1500	0 0 5 - 2 1 2 2 1 1 0



POWER FEEDER

TYPE	L (mm)	ORDER CODE
power feeder 5 × 1,5 mm² (DIM DALI)	1500	0 0 5 - 2 2 1 2 4 1 ☑
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0

POWER FEEDER CONNECTOR 220–240 V | 13A

TYPE	ORDER CODE
power feeder connector	0 5 1 - 8 9 9 2 3 3 0



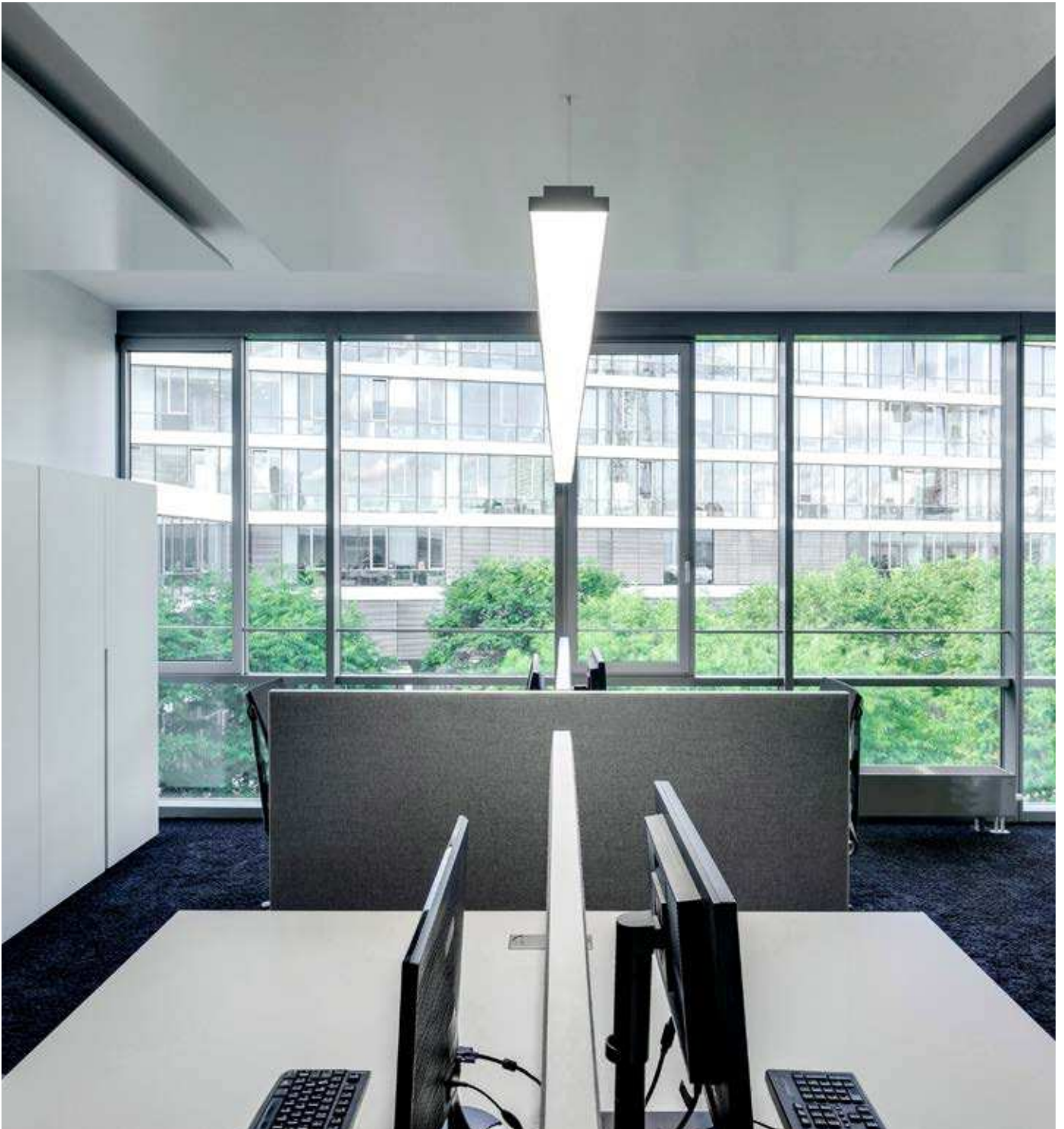
DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	0 8 6 - 3 0 0 0 0

Inspiration

Office
Munich, Germany

PRODUCT
LENO suspended

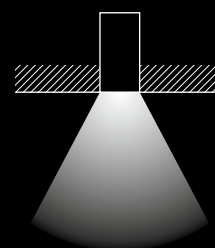




LENO GRID system

MOUNTING

RECESSED



SHAPES

LINEAR



LIGHT DISTRIBUTION

OPAL



MICROPRISMATIC UGR < 19



CONTROL

DIM DALI
3000K / 4000K

non DIM
emergency light
3000K / 4000K

Description

DE Extrem flaches Einbauleuchtensystem aus Aluminiumstrangpressprofil mit 39 mm Höhe, geeignet für den Einbau in Armstrong® Rasterdecken On-Center Linear Lighting und TechZone™; ausgelegt für durchgehende Lichtsysteme; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19) - LENO GRID 150 mit mikroprismatischer PMMA-Abdeckung; lieferbar in den Lichtfarben 3000 K und 4000 K; DALI-dimmbar

EN Flat recessed luminaire system made from extruded aluminium profile with 39 mm height, suitable for installation into Armstrong® ceiling systems using On-Center Linear Lighting and TechZone™; designed for continuous lighting systems; screen work capable luminaire as per DIN EN 12464-1 (UGR < 19) - LENO GRID 150 with microprismatic PMMA cover; available in the light colours 3000 K and 4000 K; DALI dimmable

LENO GRID 100

xal.com/leno



Armstrong®

Quickinfo

GENERAL

ceiling recessed

IP 40 / ± IP 20

quick installation

LED

Mid-power LED

up to 2590 lm/m

up to 128 lm/W

3000 K, 4000 K

CRI 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80/50.000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic

ELECTRICAL

220–240 V

DIM DALI

PHYSICAL

aluminium

powder-coated

599–2399 mm

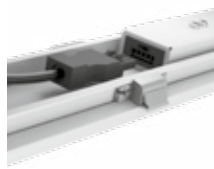
halogen-free cable

Description

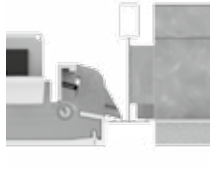
DE Extrem flache Einbauleuchte aus Aluminiumstrangpressprofil mit 39 mm Höhe und 85 mm Breite, geeignet für den Einbau in Armstrong® Rasterdecken On-Center Linear Lighting und TechZone™, Oberfläche weiß pulverbeschichtet; ausgelegt für durchgehende Lichtsysteme; absturzesicherte Leuchte werkzeuglos mittels patentrelevantem Schnappmechanismus in das Armstrong® Deckensystem einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierte oder mikroprismatische Abdeckung aus PMMA; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP40 unten (oben IP20); SK I; DALI-dimmbar; Plug & Play

EN Low profile recessed luminaire made from extruded aluminium profile with 39 mm height and 85 mm width, suitable for installation into Armstrong® ceiling systems using On-Center Linear Lighting and TechZone™, surface powder coated in white; designed for continuous lighting systems; fall-safe luminaire can be installed into Armstrong® ceiling systems without tools thanks to snap mechanism (patent pending); side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable; Plug & Play

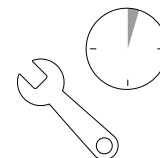
Features



plug & play



snap in



quick installation

Standard configuration

COLOUR TEMPERATURE
3000K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
opal high performance H

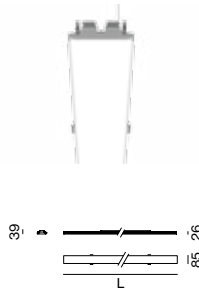
Extended configuration

COLOUR TEMPERATURE
4000K 6

LIGHT OPTIC COVER
microprismatic P

Options on request

EMERGENCY LIGHT
1h accupack
3h accupack



LENO GRID 100 start/end



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
24 W	3000 K	2840 lm	1191	0 5 1 - 6 1 1 4 <input checked="" type="checkbox"/> 3 7 <input type="checkbox"/>
	4000 K	3010 lm		

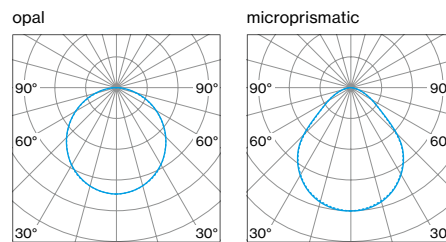
LENO GRID 100 mid/run



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12 W	3000 K	1420 lm	599	0 5 1 - 6 2 1 2 <input checked="" type="checkbox"/> 3 7 <input type="checkbox"/>
	4000 K	1510 lm		
24 W	3000 K	2840 lm	1199	0 5 1 - 6 2 1 4 <input checked="" type="checkbox"/> 3 7 <input type="checkbox"/>
	4000 K	3010 lm		
35 W	3000 K	4250 lm	1799	0 5 1 - 6 2 1 6 <input checked="" type="checkbox"/> 3 7 <input type="checkbox"/>
	4000 K	4520 lm		
47 W	3000 K	5670 lm	2399	0 5 1 - 6 2 1 8 <input checked="" type="checkbox"/> 3 7 <input type="checkbox"/>
	4000 K	6030 lm		

luminous flux opal high performance

LIGHT DISTRIBUTION



Mounting accessories

POWER FEEDER 220-240 V | 13 A

TYPE	ORDER CODE
power feeder	0 5 1 - 6 9 1 0 0 1 0

CONNECTING CABLE

L (mm)	ORDER CODE
1000	0 5 1 - 6 9 2 0 0 1 0
1500	0 5 1 - 6 9 2 1 0 1 0
2000	0 5 1 - 6 9 2 2 0 1 0

LENO GRID 150

xal.com/leno



Armstrong®

Quickinfo

GENERAL

ceiling recessed

IP 40 / ± IP 20

quick installation

LED

Mid-power LED

up to 2080 lm/m

up to 133 lm/W

3000K, 4000K

CRI 80

Binning < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80/50.000h

OPTICAL

direct light 100%

HPO PMMA cover opal

microprismatic (UGR < 19)

ELECTRICAL

220–240V

DIM DALI

PHYSICAL

aluminium

powder-coated

599–2399mm

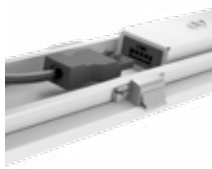
halogen-free cable

Description

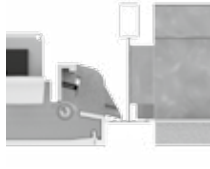
DE Extrem flache Einbauleuchte aus Aluminiumstrangpressprofil mit 39mm Höhe und 135mm Breite, geeignet für den Einbau in Armstrong® Rasterdecken On-Center Linear Lighting und TechZone™, Oberfläche weiß pulverbeschichtet; ausgelegt für durchgehende Lichtsysteme; absturzesicherte Leuchte werkzeuglos mittels patentrelevantem Schnappmechanismus in das Armstrong® Deckensystem einsetzbar; seitlich eingekoppeltes Licht durch LGP-Body (Light-Guiding-Prism) und hocheffizientem Reflektor nach unten gelenkt; homogen ausgeleuchtete, satinierete oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK I; DALI-dimmbar; Plug & Play

EN Low profile recessed luminaire made from extruded aluminium profile with 39 mm height and 135 mm width, suitable for installation into Armstrong® ceiling systems using On-Center Linear Lighting and TechZone™, surface powder coated in white; designed for continuous lighting systems; fall-safe luminaire can be installed into Armstrong® ceiling systems without tools thanks to snap mechanism (patent pending); side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable; Plug & Play

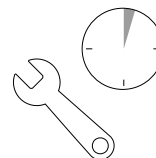
Features



plug & play



snap in



quick installation

Standard configuration

COLOUR TEMPERATURE ⦿
3000 K 5

CONTROL
DIM DALI 3

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER ☐
microprismatic (UGR < 19) P

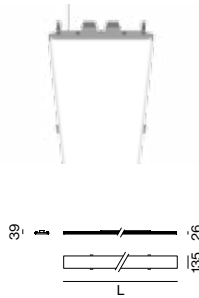
Extended configuration

COLOUR TEMPERATURE ⦿
4000 K 6

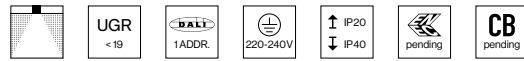
LIGHT OPTIC COVER ☐
opal high performance H

Options on request

EMERGENCY LIGHT
1h accupack
3h accupack



LENO GRID 150 start/end



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
18 W	3000 K	2280 lm	1191	0 5 1 - 6 4 1 4 ⦿ 3 7 ☐
	4000 K	2420 lm		

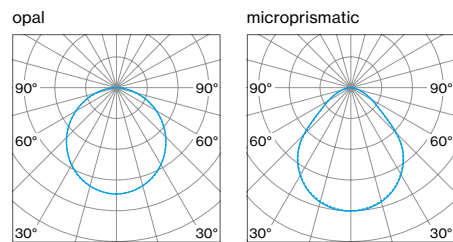
LENO GRID 150 mid/run



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10 W	3000 K	1140 lm	599	0 5 1 - 6 5 1 2 ⦿ 3 7 ☐
	4000 K	1210 lm		
18 W	3000 K	2280 lm	1199	0 5 1 - 6 5 1 4 ⦿ 3 7 ☐
	4000 K	2420 lm		
27 W	3000 K	3420 lm	1799	0 5 1 - 6 5 1 6 ⦿ 3 7 ☐
	4000 K	3630 lm		
36 W	3000 K	4550 lm	2399	0 5 1 - 6 5 1 8 ⦿ 3 7 ☐
	4000 K	4840 lm		

luminous flux opal high performance

LIGHT DISTRIBUTION



Mounting accessories

POWER FEEDER 220-240 V | 13 A

TYPE	ORDER CODE
power feeder	0 5 1 - 6 9 1 0 0 1 0

CONNECTING CABLE

L (mm)	ORDER CODE
1000	0 5 1 - 6 9 2 0 0 1 0
1500	0 5 1 - 6 9 2 1 0 1 0
2000	0 5 1 - 6 9 2 2 0 1 0

Inspiration

Office
USA

CEILING PANELS AND GRID

Armstrong® Ceiling Solutions
USA

PRODUCT

LENO GRID 150 recessed

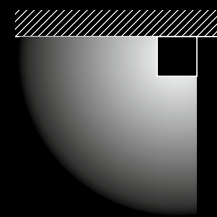


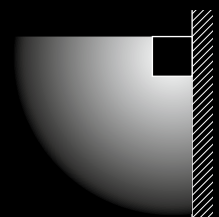


CORNER 65

system

MOUNTING

CEILING

WALL

SHAPES

LINEAR

LIGHT DISTRIBUTION

OPAL

CONTROL

non DIM
power switch
3000K / 4000K

DIM DALI
3000K / 4000K

DIM DALI
tunable white
3000–6000K

Description

DE Modulares Profileuchtensystem mit zweiseitiger Lichtabstrahlung; geeignet für die Wand- oder Deckenmontage; ausgelegt für durchgehende Lichtsysteme; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000K); wahlweise nicht dimmbar mit Powerswitch (e, e², e²⁺) oder DALI-dimmbar (e²)

EN Modular profile luminaire system with double-sided light beam; suitable for wall or ceiling mounting; designed for continuous lighting systems; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); optionally non dimmable with Powerswitch (e, e², e²⁺) or DALI-dimmable (e²)

Overview

CORNER 65
wall



CORNER 65
ceiling



INSET

non DIM

power switch e/e²/e²⁺

DIM DALI e²

DIM DALI tunable white

non DIM flexible

power switch e/e²/e²⁺

DIM DALI flexible e²

COVER

opal high performance

	CORNER 65 wall	CORNER 65 ceiling
non DIM		
power switch e/e ² /e ²⁺	•	•
DIM DALI e ²	•	•
DIM DALI tunable white	•	•
non DIM flexible		
power switch e/e ² /e ²⁺	•	•
DIM DALI flexible e ²	•	•
COVER		
opal high performance	•	•

CORNER 65

xal.com/corner



Quickinfo

GENERAL

surface mounted
IP20

LED

Mid-power LED
up to 3590 lm/m
up to 115 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

asymmetric illumination
uniform illumination
PMMA cover opal

ELECTRICAL

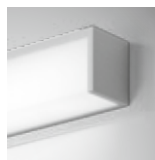
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

CORNER 65

[page 650](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung mit zweiseitiger Lichtabstrahlung; keine sichtbaren Schrauben; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß, grau oder schwarz pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; optional flexibel ablängbarer Lichteinsatz; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) bei schaltbarer Ausführung, am Lichteinsatz einstellbar; Leistungsaufnahme: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K, optional mit Tunable-White Bestückung (3000-6000 K); CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire body in extruded aluminium profile, angular design with double-sided light beam; no visible screws; designed for continuous lighting systems; surface powder coated in white, grey or black; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) with switchable versions, adjustable on the insert; power consumption: e LED - 16 W/m, e² LED - 24 W/m, e²⁺ LED - 36 W/m; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K, optionally with tunable-white diodes (3000-6000 K); CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP20; PC I; optionally non-dimmable or DALI dimmable

Features



non DIM power switch
(switchable e/e²/e²⁺)



quick lock



flex inset 73 mm steps
adjust. (660-1171mm)



tunable white
3000-6000K

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM (switchable e/e²/e²⁺) 1
DIM DALI (only e²) 3
presetting at delivery: e²

MATERIAL COLOUR ▣
white 7

7



CORNER 65

order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	1172	0 4 0 - 0 1 2 4 ▣
channel	1472	0 4 0 - 0 1 5 4 ▣
channel	3000	0 4 0 - 0 3 0 4 ▣
channel	custom	E 8 5 5 6 0 ◆◆◆

COVER OPAL

TYPE	L (mm)	ORDER CODE
cover	1171	0 0 6 - 1 4 1 2 5
cover	1470	0 0 6 - 1 4 1 5 5
cover	2997	0 0 6 - 1 4 3 0 5
cover	custom	E 8 5 5 1 0 ◆◆◆ 0 0

Extended configuration

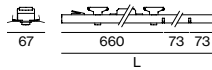
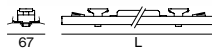
COLOUR TEMPERATURE ◆◆
4000K 6

MATERIAL COLOUR ▣
grey G
black 8

G

8

+5% surcharges



LIGHT INSET



non DIM power switch e/e²/e²⁺ / DIM DALI e²

SYSTEM POWER (e / e ² / e ²⁺)	L (mm)	ORDER CODE
10 / 14 / 21W	571	0 4 0 - 9 1 P 2 ◆◆ 7
14 / 21 / 31W	871	0 4 0 - 9 1 P 3 ◆◆ 7
18 / 28 / 41W	1171	0 4 0 - 9 1 P 4 ◆◆ 7
23 / 35 / 52W	1463	0 4 0 - 9 1 P 5 ◆◆ 7
37 / 56 / 82W	2341	0 4 0 - 9 1 P 8 ◆◆ 7
flexible inset 18 / 28 / 41W	660-1171	0 4 0 - 9 1 P F ◆◆ 7

flexible inset can be cut every 73mm to make total lengths from 660 up to 1171mm



DIM DALI tunable white 3000–6000K

SYSTEM POWER (e ²)	L (mm)	ORDER CODE
21W	871	0 4 0 - 9 1 3 3 D 3 7
28W	1171	0 4 0 - 9 1 3 4 D 3 7
35W	1463	0 4 0 - 9 1 3 5 D 3 7
56W	2341	0 4 0 - 9 1 3 8 D 3 7

Accessories



END CAPS

TYPE	ORDER CODE
end caps (pair)	0 4 0 - 0 0 0 3 ▣



LINEAR CONNECTOR

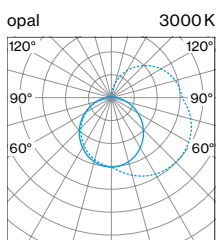
TYPE	ORDER CODE
linear connector (1 piece)	0 4 0 - 0 0 0 1 5
linear connector (10 pieces)	0 4 0 - 0 0 0 1 5 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 5



THROUGH WIRE

TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

LIGHT DISTRIBUTION



e	1696lm/m	108lm/W
e ²	2445lm/m	102lm/W
e ²⁺	3296lm/m	94lm/W

Inspiration

Fernsehmacher
Hamburg, Germany

ARCHITECT
Heeckt & Maurer Architekten BDA
Hamburg, Germany

PRODUCT
CORNER 65 surface





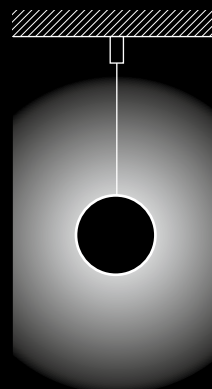
TUBO system

MOUNTING

CEILING



SUSPENDED



SHAPES

LINEAR



LIGHT DISTRIBUTION

OPAL



CONTROL

non DIM
3000K / 4000K

DIM DALI
3000K / 4000K



non DIM, DIM DALI
emergency light
3000K / 4000K

Description

DE Modulares Profilleuchtensystem mit zylindrischer opaler Abdeckung für homogene Ausleuchtung; wahlweise aufgebaute oder abgehängte Variante; ausgelegt für durchgehende Lichtsysteme; lieferbar in den Lichtfarben 3000 K und 4000 K; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Modular profile luminaire system with cylindrical opal cover for homogeneous illumination; choice of surface mounted and pendant versions; designed for continuous lighting systems; available in the light colours 3000 K and 4000 K; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

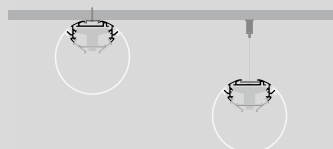
Overview

	TUBO 100 ceiling	TUBO 100 suspended
		
INSET		
non DIM e ²	•	•
DIM DALI e ²	•	•
COVER		
opal high performance	•	•

TUBO 100

ceiling / suspended

xal.com/tubo



Quickinfo

GENERAL

suspended
IP 20

LED

Mid-power LED
up to 4135 lm/m
up to 129 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
transparent feeder cable

PHYSICAL

aluminium
powder-coated
halogen-free cable (internal wiring)

TUBO

surface /
suspended
370 / 374



Description

DE Tragprofil aus Aluminiumstrangpressprofil; Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; Aufbau- bzw. Pendelleuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. transparenter Einspeiseleitung; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; zylindrische Abdeckung aus satiniertem PMMA für homogene Ausleuchtung; mit 340° Lichtabstrahlung und leichter Deckenaufhellung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; wahlweise nicht dimmbar oder DALI-dimmbar; optional Notlichtelement mit 1h oder 3h Akku und Selbsttest

EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; surface white powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; surface mounted or suspended luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; cylindrical cover made of satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; protection class IP 20; PC I; optionally non-dimmable or DALI dimmable; optionally emergency light with 1h or 3h battery and self test

Features



detail end caps



quick lock



all side light
distribution

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1
DIM DALI 3

MATERIAL COLOUR
white 7



Extended configuration

COLOUR TEMPERATURE ◆◆
4000K 6

EMERGENCY LIGHT ●
1h Accupack N L 1
3h Accupack N L 3



TUBO 100 ceiling / suspended

order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	582	0 2 9 - 0 0 6 6 7
channel	882	0 2 9 - 0 0 9 6 7
channel	1182	0 2 9 - 0 1 2 6 7
channel	1482	0 2 9 - 0 1 5 6 7
channel	2364	0 2 9 - 0 2 5 6 7
channel	3000	0 2 9 - 0 3 0 6 7
channel	custom	E 8 5 9 5 0 ···· 7

COVER OPAL

TYPE	L (mm)	ORDER CODE
cover	577	0 0 6 - 5 2 0 5 7 0 0
cover	877	0 0 6 - 5 2 0 8 7 0 0
cover	1177	0 0 6 - 5 2 1 1 7 0 0
cover	1477	0 0 6 - 5 2 1 4 7 0 0
cover	2359	0 0 6 - 5 2 2 3 4 0 0
cover	2995	0 0 6 - 5 2 3 0 0 0 0
cover	custom	E 8 5 9 1 0 ···· 0 0

LIGHT INSET



non DIM / DIM DALI e²

SYSTEM POWER	L (mm)	ORDER CODE
18 W	571	0 2 9 - 8 8 3 2 ◆◆ 7
28 W	871	0 2 9 - 8 8 3 3 ◆◆ 7
37 W	1171	0 2 9 - 8 8 3 4 ◆◆ 7
47 W	1463	0 2 9 - 8 8 3 5 ◆◆ 7 ●
75 W	2341	0 2 9 - 8 8 3 8 ◆◆ 7

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 2 9 - 1 4 0 6 7

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 2 9 - 1 2 0 2 7
linear connector (10 pieces)	0 2 9 - 1 2 0 2 7 . 1 0
opal cover linear connector	0 2 9 - 1 2 9 2 7
anti-slip protection (per cover)	0 2 9 - 0 0 3 4 7

MOUNTING

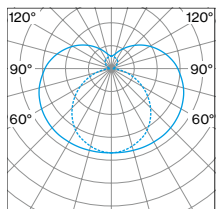
TYPE	L (mm)	ORDER CODE
ceiling mounting set	40	0 2 9 - 0 0 4 4 6
cable suspension	1500	0 0 5 - 2 1 4 2 1 1 0
angular cable susp. (max. 60°)	1500	0 0 5 - 2 1 4 2 2 1 0
power feeder 3 × 1,5 mm ² (non DIM)	1500	0 0 5 - 2 2 2 2 3 1 7
power feeder 5 × 1,5 mm ² (DIM DALI)	1500	0 0 5 - 2 2 2 2 4 1 7
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0

THROUGH WIRE

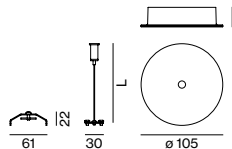
TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

LIGHT DISTRIBUTION

opal 3000K



e² 3860lm/m 121lm/W



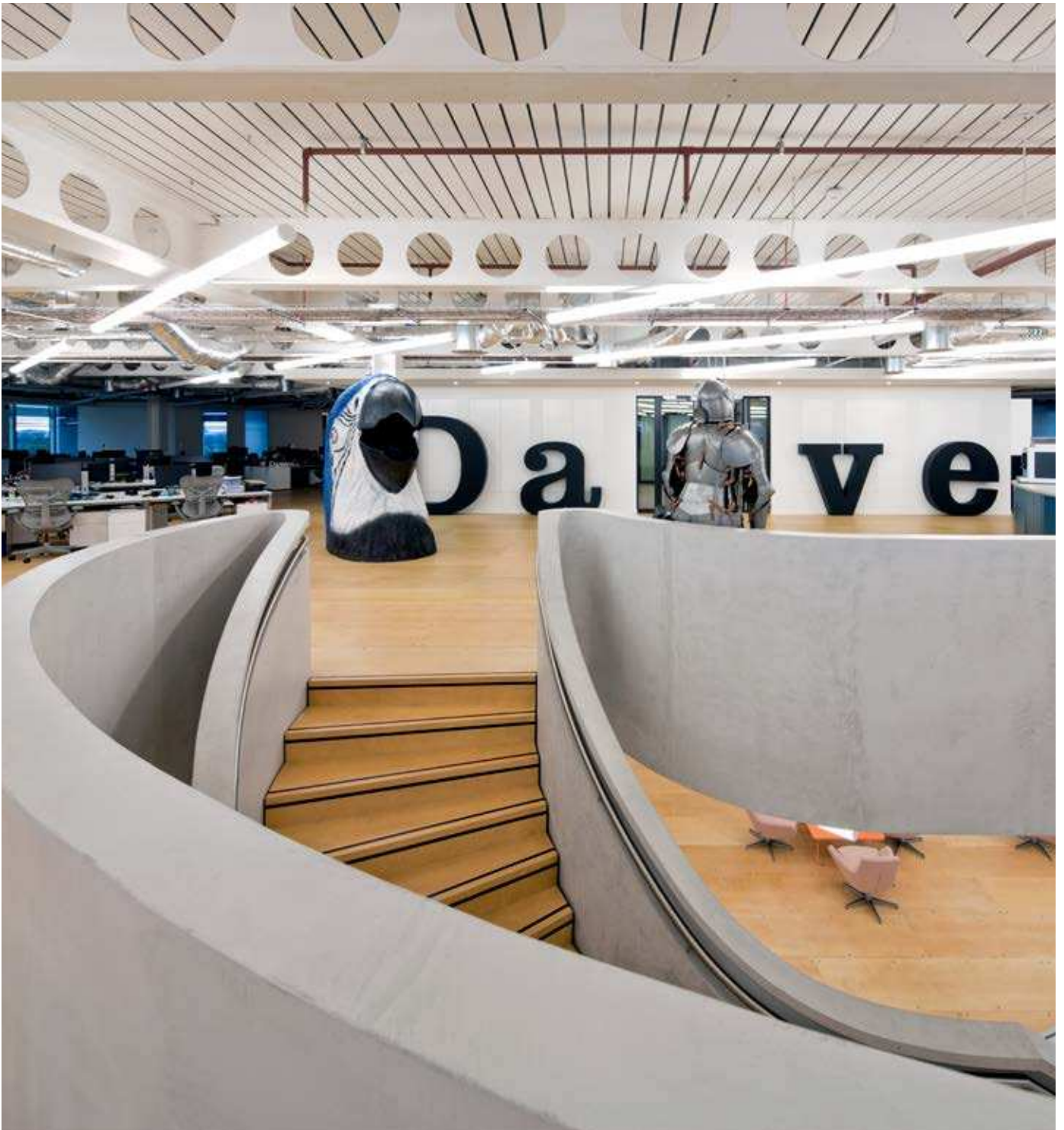
Inspiration

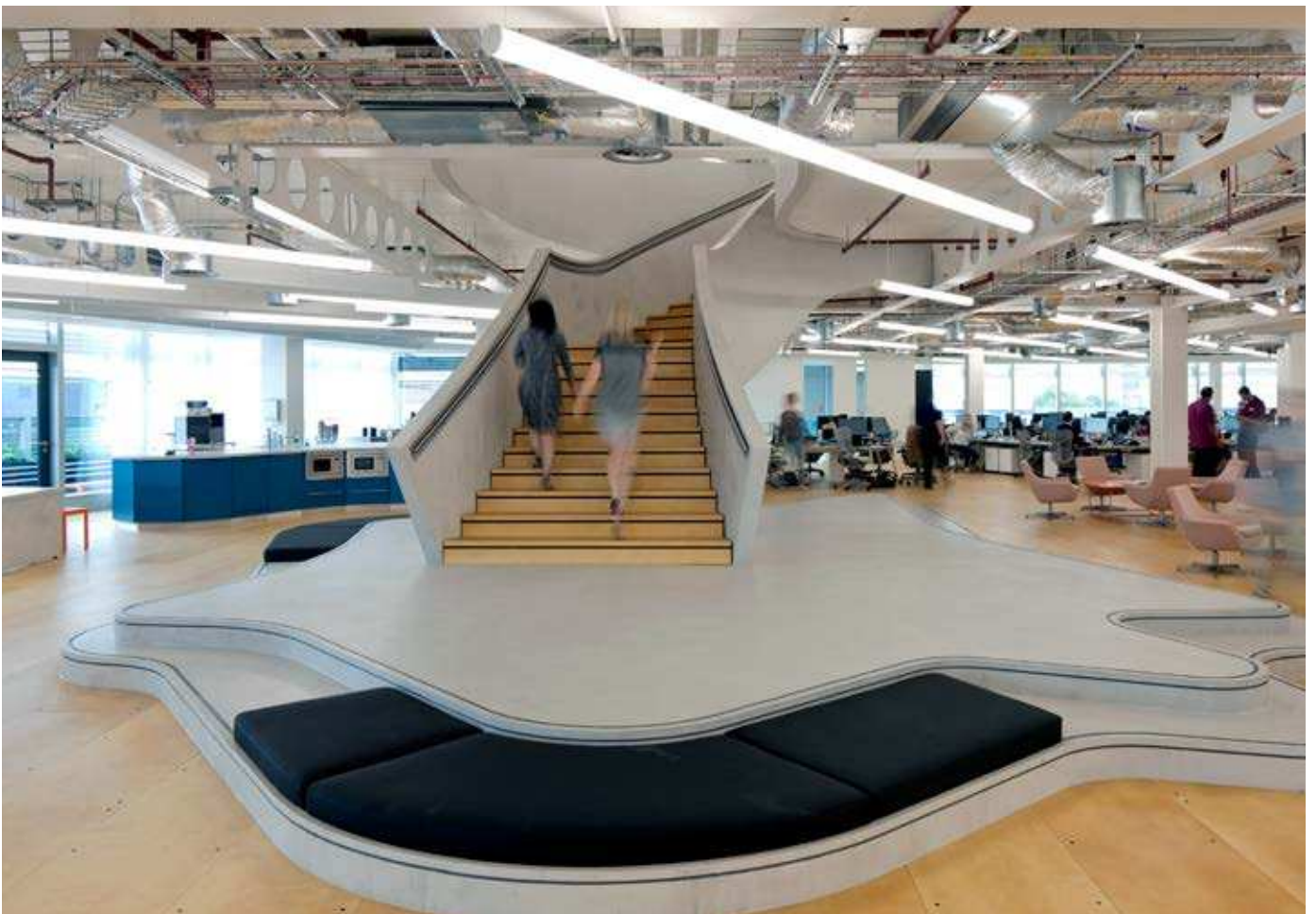
UK TV
London, United Kingdom

PRODUCT
TUBO 100 suspended

ARCHITECT
PENSON
London, United Kingdom

LIGHTING DESIGN
AECOM
London, United Kingdom





Inspiration

Cafeteria
Segovia, Spain

PRODUCT
TUBO 100 suspended

ARCHITECT
Serrano Suárez Arquitectos
Madrid, Spain



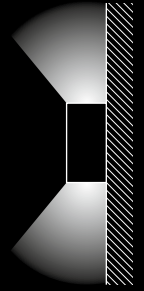


LINEA EVO

system

MOUNTING

WALL

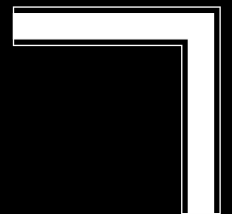


SHAPES

LINEAR

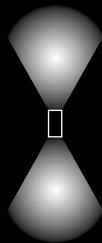


CORNER



LIGHT DISTRIBUTION

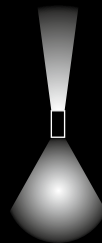
OPAL
OPAL



GRAZER
GRAZER



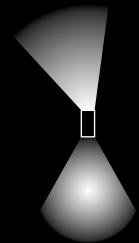
GRAZER
OPAL



ASYMMETRIC
GRAZER



ASYMMETRIC
OPAL



CONTROL

non DIM
3000K / 4000K

DIM DALI / line control
3000K / 4000K

Description

DE Modulares Profilleuchtensystem mit direkt/indirekter Lichtverteilung; hohe Variantenvielfalt für projektspezifische Anforderung; geeignet für Wandmontage; ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; wahlweise mit verschiedenen Lichteinsätzen; lieferbar in den Lichtfarben 3000 K und 4000 K; wahlweise nicht dimmbar oder DALI-dimmbar

EN Modular profile luminaire system with direct/indirect light distribution; large range of versions for specific project requirements; suitable for wall mounting; designed for continuous lighting systems, 90° angle connectors for flexible system design; optionally with different light insets; available in the light colours 3000 K and 4000 K; optionally non-dimmable or DALI dimmable

Overview

LINEA EVO
 wall



INSET DIRECT

- opal
- wall grazer
- asymmetric

-
-
-

INSET INDIRECT

- opal
- wall grazer
- asymmetric

-
-
-

LINEA EVO

wall

xal.com/linea-evo



Quickinfo

GENERAL

wall mounted
IP20

LED

Mid-power LED
up to 145lm/W
3000 K, 4000 K
CRI ≥ 80, CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct/indirect illumination
PMMA cover opal
opal, wall grazer, asymmetric lens

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

Description

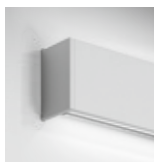
DE Leuchtenkörper und Frontabdeckung aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; ausgelegt für durchgehende Lichtsysteme; Oberfläche grau, weiß oder schwarz pulverbeschichtet; geeignet für Wandmontage; homogene Wand- bzw. Deckenaufhellung durch gleichmäßige direkt/indirekte Lichtverteilung; präzise Abstrahlcharakteristik mit drei verschiedenen Linsenprofilen (opal, wall grazer, asymmetric); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK III; wahlweise nicht dimmbar oder DALI-dimmbar

EN Luminaire housing and front cover from extruded aluminium profile, angular version; no visible screws; designed for continuous lighting systems; surface powder coated in grey, white or black; suitable for wall mounting; homogeneous wall or ceiling illumination through uniform direct/indirect light distribution; precise radiation characteristic with three different lens profiles (opal, wall grazer, asymmetric); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC III; optionally non-dimmable or DALI dimmable

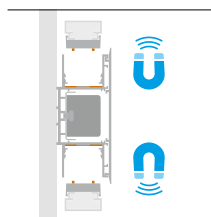
LINEA EVO

wall

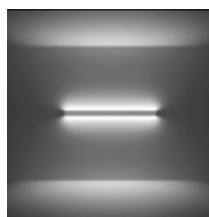
[page 662](#)



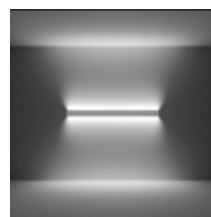
Features



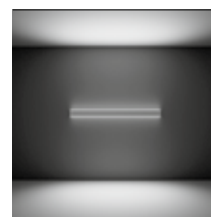
magnetic light insets



opal high performance



wall grazer



asymmetric

Standard configuration

COLOUR TEMPERATURE ■ ■ ■
3000K 5

CONTROL CHANNEL ◆
non DIM 1
DIM DALI line control 3

CONTROL LIGHT INSET
non DIM 1
DIM DALI line control 1

MATERIAL COLOUR ■
grey G



LIGHT INSET ▲
opal high performance H



LINEA EVO wall 48V / 48V + DALI-bus

order installation channel, cover, light inset + mounting accessories separately

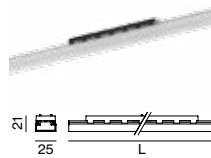
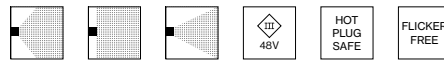


INSTALLATION TRACK + COVER

TYPE	L (mm)	ORDER CODE
channel + cover	606	0 5 0 - 2 5 2 2 1 1 ■
channel + cover	1206	0 5 0 - 2 5 2 4 1 1 ■
channel + cover + 75 W converter	1206	0 5 0 - 2 5 2 4 2 ■
channel + cover + 75 W converter	1811	0 5 0 - 2 5 2 6 2 ■
channel + cover + 120 W converter	2406*	0 5 0 - 2 5 2 8 2 ■
channel + cover	custom	E 8 5 6 8 0 · · · ■
inner corner 90° channel + cover	640x640	0 5 0 - 2 5 5 2 1 1 ■
outer corner 90° channel + cover	640x640	0 5 0 - 2 5 5 3 1 1 ■

*channel can be extended with channel 606mm or 1206mm or corner 640x640mm

LIGHT INSET



SYSTEM POWER (OPAL, W. GRAZER / ASYM.)	L (mm)	ORDER CODE
10 W / 11 W	605	0 5 0 - 2 6 1 2 ■ ■ 1 8 ▲
18 W / 19 W	1205	0 5 0 - 2 6 1 4 ■ ■ 1 8 ▲
36 W / 36 W	2405	0 5 0 - 2 6 1 8 ■ ■ 1 8 ▲

Extended configuration

COLOUR TEMPERATURE ■ ■ ■
4000K 6

MATERIAL COLOUR ■
white 7
black 8



+5% surcharges

LIGHT INSET ▲
wall grazer S
asymmetric A



LIGHT INSET	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	30W/m	3160lm/m	105lm/W
performance	4000K		3360lm/m	111lm/W
wall grazer	3000K	30W/m	4115lm/m	137lm/W
	4000K		4380lm/m	145lm/W
asymmetric	3000K	31W/m	2470lm/m	79lm/W
	4000K		2730lm/m	87lm/W

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 5 0 - 2 5 4 0 1 0 ■

CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	0 5 0 - 2 5 5 1 1 0 0
linear connector (10 pieces)	0 5 0 - 2 5 5 1 1 0 0 . 1 0
linear track connector 48V (pair)	0 5 0 - 2 0 3 1 1 1 0

THROUGH WIRE

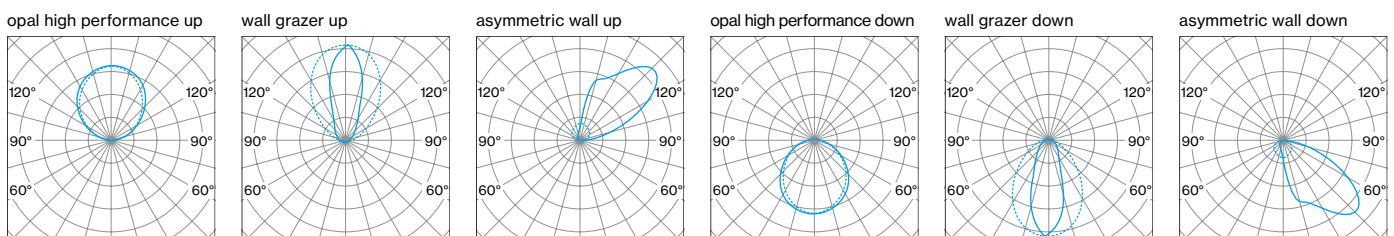
TYPE	ORDER CODE
3 × 1,5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
5 × 1,5 mm ² (DIM DALI, 10 pieces)	0 0 4 - 9 0 0 0 5

Options on request

COLOUR TEMPERATURE
2700K



LIGHT DISTRIBUTION



Inspiration

Champalimaud Centre for the Unknown
Lisbon, Portugal

ARCHITECT

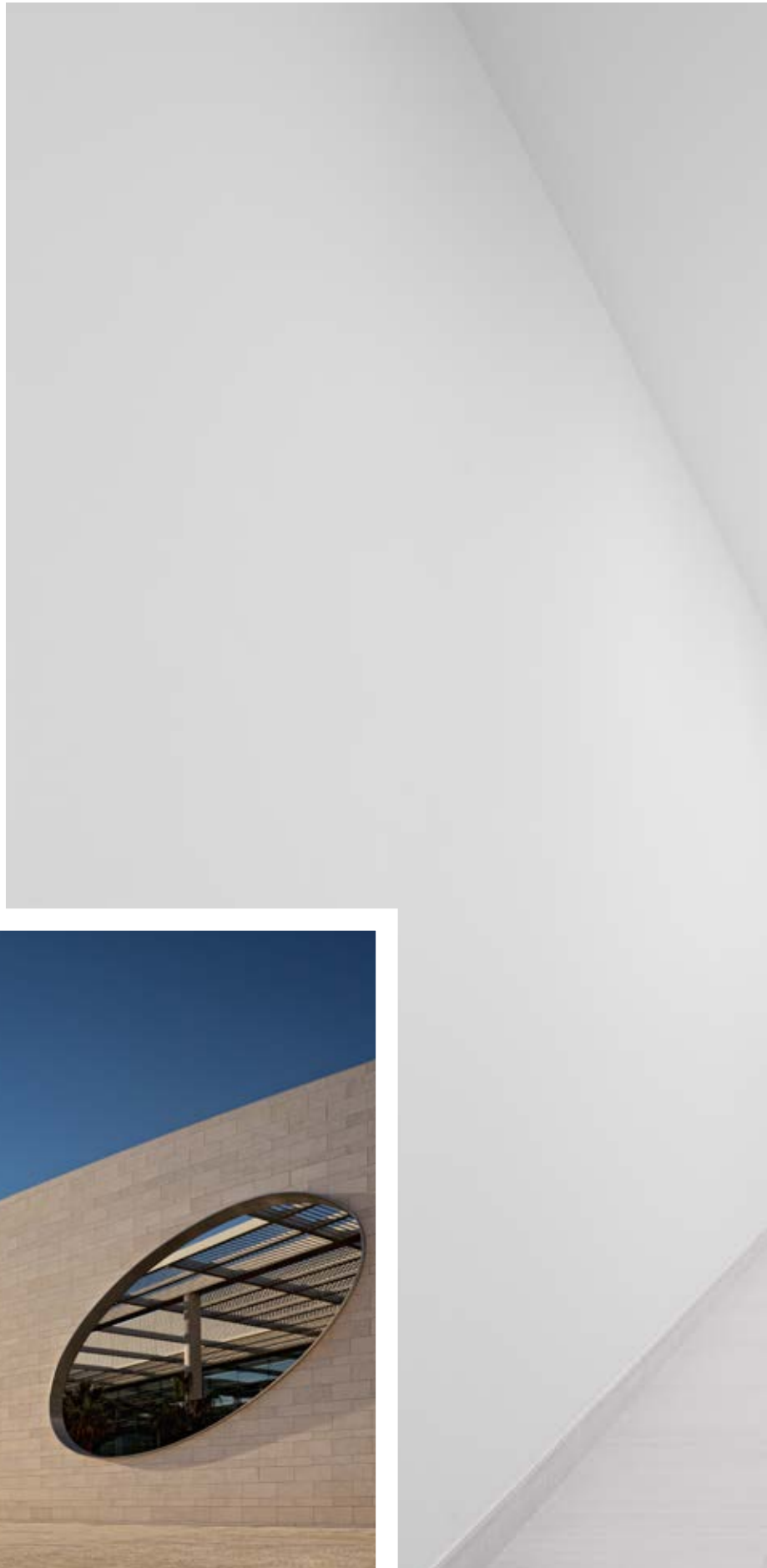
Charles Correa Associates
Mumbai, India

LIGHTING DESIGN

dpa lighting consultants
Oxfordshire, United Kingdom

PRODUCT

LINEA EVO wall

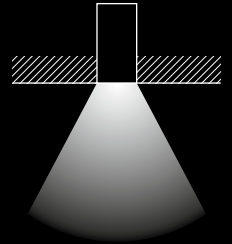




MINO X system

MOUNTING

RECESSED

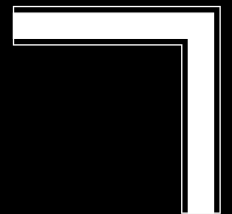


SHAPES

LINEAR



CORNER



OPAL



MICROPRISMATIC



CONTROL

non DIM
3000K / 4000K

DIM DALI
3000K / 4000K

DIM DALI
tunable white
3000–6000K

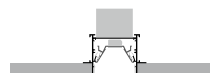
Description

DE Modulares Profilleuchtensystem, speziell für Einsatz in Rockfon® System X Deckeneinbausystemen konzipiert; wahlweise als Einbauvariante mit deckenbündiger Leuchtenebene oder mit hervorstehender Abdeckung (jut-out); ausgelegt für durchgehende Lichtsysteme, 90° Winkelverbinder für flexiblen Systemaufbau; lieferbar in den Lichtfarben 3000K und 4000K, optional mit Tunable-White Bestückung (3000-6000K); wahlweise nicht dimmbar oder DALI-dimmbar

EN Modular profile luminaire system, specially developed for use in Rockfon® System X recessed ceiling systems; either as recessed variant with flush lighting level or with jut-out cover; designed for continuous lighting systems, 90° angle connectors for flexible system design; available in the light colours 3000K and 4000K, optionally with tunable-white diodes (3000-6000K); optionally non-dimmable or DALI dimmable

Overview

MINO X
installation channel + light inset



LIGHT OPTIC COVER

opal high performance
microprismatic
jut-out
blind cover

-
-
-
-

MINO X

xal.com/mino

Rockfon
ACTIVATE YOUR CEILING



Quickinfo

GENERAL

recessed
IP20

LED

Mid-power LED
up to 2635lm/m
up to 122lm/W
3000K, 4000K, tunable white
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50.000h

OPTICAL

direct illumination
PMMA cover opal, microprismatic
CSC cover jut-out

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
halogen-free cable

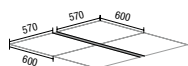
Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; ausgelegt für durchgehende Lichtsysteme; Oberfläche weiß pulverbeschichtet; speziell für Einsatz in Rockfon® System X Deckeneinbausystemen konzipiert; individuelle Anpassung möglich; mit Snap-In Einbaubügel für einfache und werkzeuglose Montage; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung, wahlweise deckenbündig oder 8 mm hervorstehend (jut-out); mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I; Betriebsgerät in aufgesetztem Aluminiumgehäuse verbaut; optional nicht dimmbar

EN Luminaire housing made of extruded aluminium; designed for continuous lighting systems; surface white powder coated; specially developed for use in Rockfon® System X recessed ceiling systems; individual adjustment possible; with snap-in mounting brackets for easy mounting without tools; lighting insert consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for homogeneous illumination, optionally flush with ceiling or protruding by 8 mm (jut-out); micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; operating unit installed in attached aluminium housing; optional non-dimmable

Features

Rockfon
ACTIVATE YOUR CEILING



made for "Rockfon®
System X"

tunable white
3000-6000K

MINO X

[page 202](#)



Standard configuration

UNIT	
middle (run)	4
start / end	5

COLOUR TEMPERATURE	
3000K	5

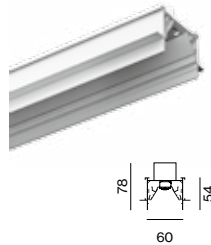
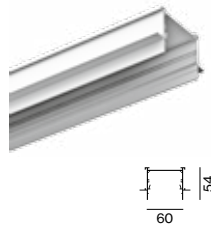
CONTROL	
DIM DALI	3

MATERIAL COLOUR	
white	7



LIGHT OPTIC COVER	
opal high performance	H
microprismatic	Z
jut-out	J

NUMBER OF CORES	
3-pole	1
5-pole	2



MINO X

order installation channel, cover, light inset + mounting accessories separately

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	600	0 5 9 - 4 8 0 2 1 1 7
channel	1200	0 5 9 - 4 8 0 4 1 1 7
channel	custom	E 8 5 4 6 1 7

INSTALLATION CHANNEL + LIGHT INSET



non DIM / DIM DALI

SYSTEM POWER / TYPE	L (mm)	ORDER CODE
13W / end unit	600	0 5 9 - 4 5 3 2 :: : 7
26W	1200	0 5 9 - 4 3 4 3 :: : 7
39W / middle unit	1800	0 5 9 - 4 4 3 6 :: : 7
51W / middle unit	2400	0 5 9 - 4 4 3 8 :: : 7
64W / middle unit	3000	0 5 9 - 4 4 3 9 :: : 7



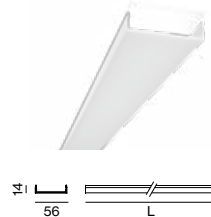
DIM DALI tunable white 3000–6000K

SYSTEM POWER / TYPE	L (mm)	ORDER CODE
26W	1200	0 5 9 - 4 3 4 0 3 7
39W / middle unit	1800	0 5 9 - 4 4 3 6 0 3 7
51W / middle unit	2400	0 5 9 - 4 4 3 8 0 3 7

Extended configuration

COLOUR TEMPERATURE	
4000K	6

CONTROL	
non DIM	1

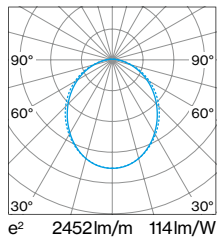


LIGHT OPTIC COVER

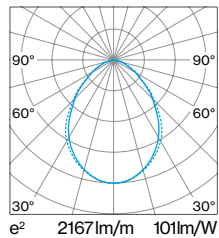
TYPE	L (mm)	ORDER CODE
cover	599	0 5 9 - 4 8 9 0 4 2 0 □
cover	1199	0 5 9 - 4 8 9 0 4 4 0 □
cover	1798	0 5 9 - 4 8 9 0 4 6 0 □
cover	2397	0 5 9 - 4 8 9 0 4 8 0 □
cover	2997	0 5 9 - 4 8 9 0 4 9 0 □
cover	custom	E 8 0 6 3 1 0 □
blind cover	600	0 5 9 - 4 8 9 0 4 2 7
blind cover	1200	0 5 9 - 4 8 9 0 4 4 7
blind cover	custom	E 8 0 6 3 1 7 B

LIGHT DISTRIBUTION

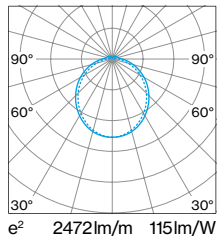
opal high perform. 3000K



microprismatic 3000K



jut out 3000K



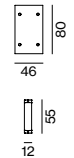
Accessories

END CAPS



TYPE	H (mm)	ORDER CODE
end caps (pair)	50	0 5 9 - 4 8 2 0 1 1 7
end caps for jut-out (pair)	58	0 5 9 - 4 8 2 0 1 2 7

LINEAR CONNECTOR



TYPE	ORDER CODE
linear connector (1 piece)	0 5 9 - 4 8 1 0 1 1 0
linear connector (10 pieces)	0 5 9 - 4 8 1 0 1 1 0 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0

POWER FEEDER 220-240 V | 13 A

TYPE	ORDER CODE
power feeder	0 5 9 - 2 9 1 1 : 1 0

CONNECTION CABLE 220-240 V | 13 A

L (mm)	ORDER CODE
1000	0 5 9 - 4 8 4 1 : 1 0
2000	0 5 9 - 4 8 4 2 : 1 0
3000	0 5 9 - 4 8 4 3 : 1 0

Inspiration

Meeting Room
Bern, Switzerland

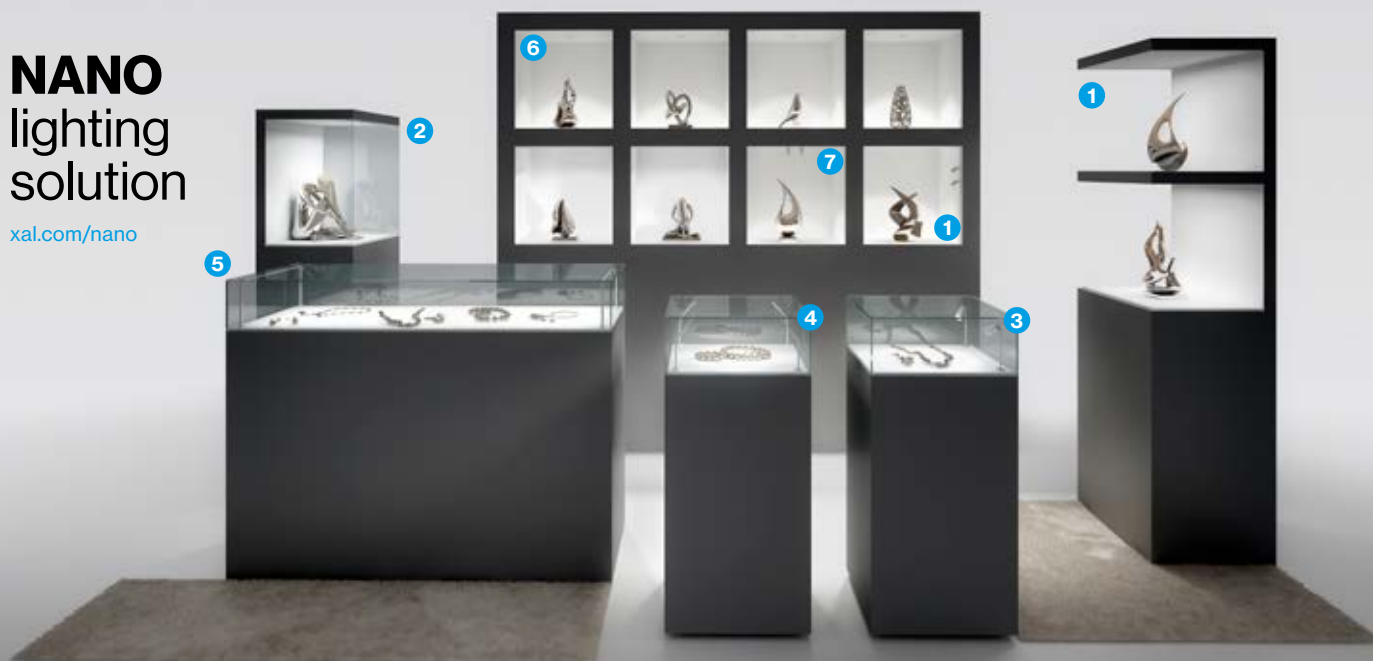
PRODUCT
MINO X





NANO lighting solution

xal.com/nano



Quickinfo

1 NANO TURN / JUST

Highly flexible and varied range of recessed and surface mounted lighting profiles for shelf lighting.

2 INEO

Simple surface mounted lighting profile for shelf lighting.

3 STADIO

Solitary spotlight for illuminating display cases, available in nine different variants.

4 PICO

Discreet single spotlight in four versions, optimally suitable for display cases.

5 PICO SUPPORT

Luminaire in round and rectangular profile styles for illuminating deeper showcases.

6 MICRO

Recessed spotlight in three different versions for optimal niche lighting.

7 JUST

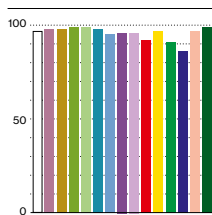
Flexible mounted luminaire, perfect for recessed areas and shelf lighting.

Description

Die Eine optimale Präsentation von Waren und Ausstellungsstücken lenkt bewusst die Aufmerksamkeit des Betrachters und hebt das Besondere am jeweiligen Exponat hervor. Licht ist dabei einer der wichtigsten Einflussfaktoren. NANO und die verwandten Produktfamilien INEO, STADIO, PICO, PICO SUPPORT, MICRO und JUST wurden für den blendfreien Einsatz im Regal und der Vitrine entwickelt und sollen genau das leisten: Das Begehrens- und Bewundernswerte des Exponats sichtbar machen, es in seinem Detailreichtum zeigen, die Aufmerksamkeit darauf lenken. Die Vielfalt der Anforderungen erfordert dabei eine breite Auswahl an Instrumenten und die Relevanz der Aufgabe erfordert den Einsatz der besten Lichttechnologie. Die Produkte weisen einen sehr hohen Farbwiedergabeindex von CRI 95 auf.

The optimal presentation of products and exhibition pieces directs the viewer's attention in a targeted manner and highlights the special features of the item on display. Light is one of the most important factors in this context. NANO and the associated product families of INEO, MICRO, STADIO, and PICO were developed for use in shelves and display cases and are intended to achieve exactly that: making all of the valuable and exquisite characteristics of the displayed item visible, presenting the item in all its glorious detail, and drawing the viewer's attention to it. The diverse requirements demand a wide range of tools, and the importance of the task requires the use of the finest lighting technology. The products feature a very high colour rendering index of CRI 95.

Features



CRI 95 (R9 > 90)

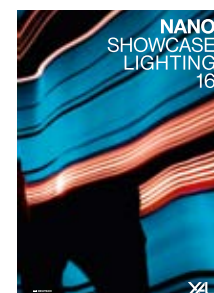


optical accessories



adjustable
beam angle

Brochure



Inspiration

Elfenbein Museum
Erbach, Germany

ARCHITECT
Sichau & Walter Architekten
Fulda, Germany

LIGHTING DESIGN
Licht Kunst Licht AG
Bonn, Germany

PRODUCT
NANO JUST 26



Inspiration

Hessisches Landesmuseum
Darmstadt, Germany

LIGHTING DESIGN

Kardorff Ingenieure Lichtplanung
Berlin, Germany

ARCHITECT

KPW Papay Warnicke und
Partner Architekten
Hamburg, Germany

PRODUCT

NANO TURN

GENERAL PLANNER

Schiel Projektgesellschaft mbH
Berlin, Germany





06



STEH- / TISCHLEUCHTEN FREE STANDING LUMINAIRES

615



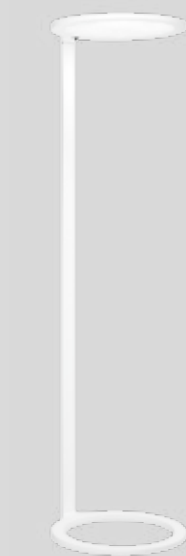
TASK
free standing

↻ 616



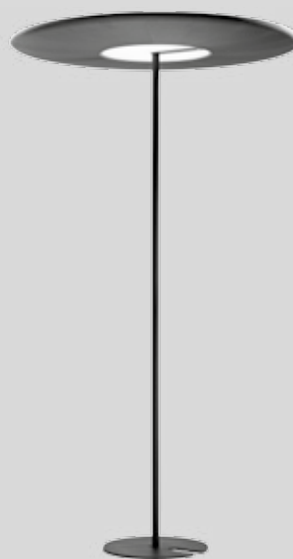
TASK square
free standing

↻ 624



HELIOS
free standing

↻ 628



SONIC
free standing (absorber)

↻ 634



TASK
table

↻ 638

new

TASK

free standing

xal.com/task



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 140lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated

Description

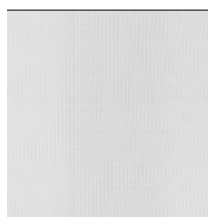
DE Stehleuchte mit rechteckigem Leuchtenkopf aus Aluminium und abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Stahlrohr rund; Standfuß mit Ausnehmung für Tischfuß; Oberfläche weiß, grau oder schwarz pulverbeschichtet; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; optional: Indirektlichtanteil mit eigenen Platinen für erhöhten Lichtstrom und maximale Deckenaufhellung; mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; einfache Regelung durch Touch-DIM am Leuchtenkopf oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; Anwesenheitssensor-Erfassungsbereich ø 4,5 m am Fußboden; inkl. Anschlussleitung (3 m) mit Schutzkontaktstecker

EN Floor lamp with rectangular luminaire head made of aluminium and rounded edges; ultra low-profile design (only 15 mm); steel round downpipe; pedestal with recess for table base; surface powder coated in white, grey or black; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; microprismatic PMMA cover; completely homogeneous illumination through use of a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP20; PC I; easy control through touch-DIM on light head or with integrated infrared presence and brightness sensor; presence sensor detection range ø 4,5 m on the floor; incl. connection cable (3 m) with safety plug

Features



flat design (15 mm)



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
daylight & movement sensor 7

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
touch DIM 5

MATERIAL COLOUR ▣
grey 6
black 8



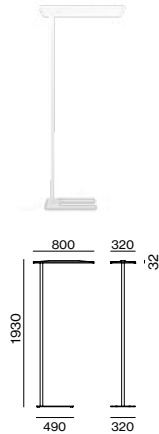
+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL
cluster network DIM
dynamic daylight control
touch DIM on pole

MOUNTING
table system



TASK free standing

DIRECT / INDIRECT SOFT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
75 W	3000 K	↓ 4850 / ± 2590 lm	0 5 9 - 2 9 3 6 ⬢⬢ ▣ ▣ P
	4000 K	↓ 5150 / ± 2750 lm	

DIRECT / INDIRECT POWER



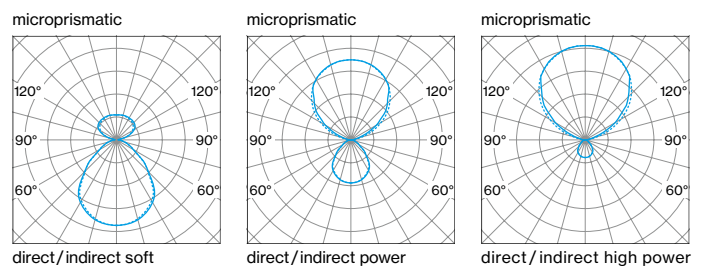
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
75 W	3000 K	↓ 2710 / ± 6560 lm	0 5 9 - 2 9 3 7 ⬢⬢ ▣ ▣ P
	4000 K	↓ 2880 / ± 6970 lm	

DIRECT / INDIRECT HIGH POWER

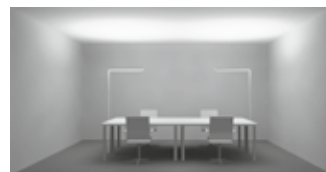
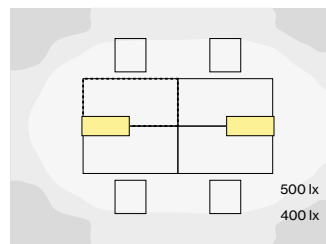


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
115 W	3000 K	↓ 1960 / ± 13160 lm	0 5 9 - 2 9 3 8 ⬢⬢ ▣ ▣ P
	4000 K	↓ 2080 / ± 13980 lm	

LIGHT DISTRIBUTION



Technical data



TASK free standing, 115 W, 4000 K
direct/indirect high power

ROOM VALUES
Room dimensions 5.4 × 4 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8

CALCULATION SURFACE
Surface dimensions 1.6 × 0.8 m
Surface height 0.75 m
Average illuminance (E_m) > 500 lx
Uniformity (U₀) > 0.6

GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H
UGR transversal < 19
UGR axial < 19
65° < 3000 cd/m²

Inspiration

Krafft Planungsbüro
Darmstadt, Germany

PRODUCT
TASK free standing

ARCHITECT
Krafft Planungsbüro
Darmstadt, Germany





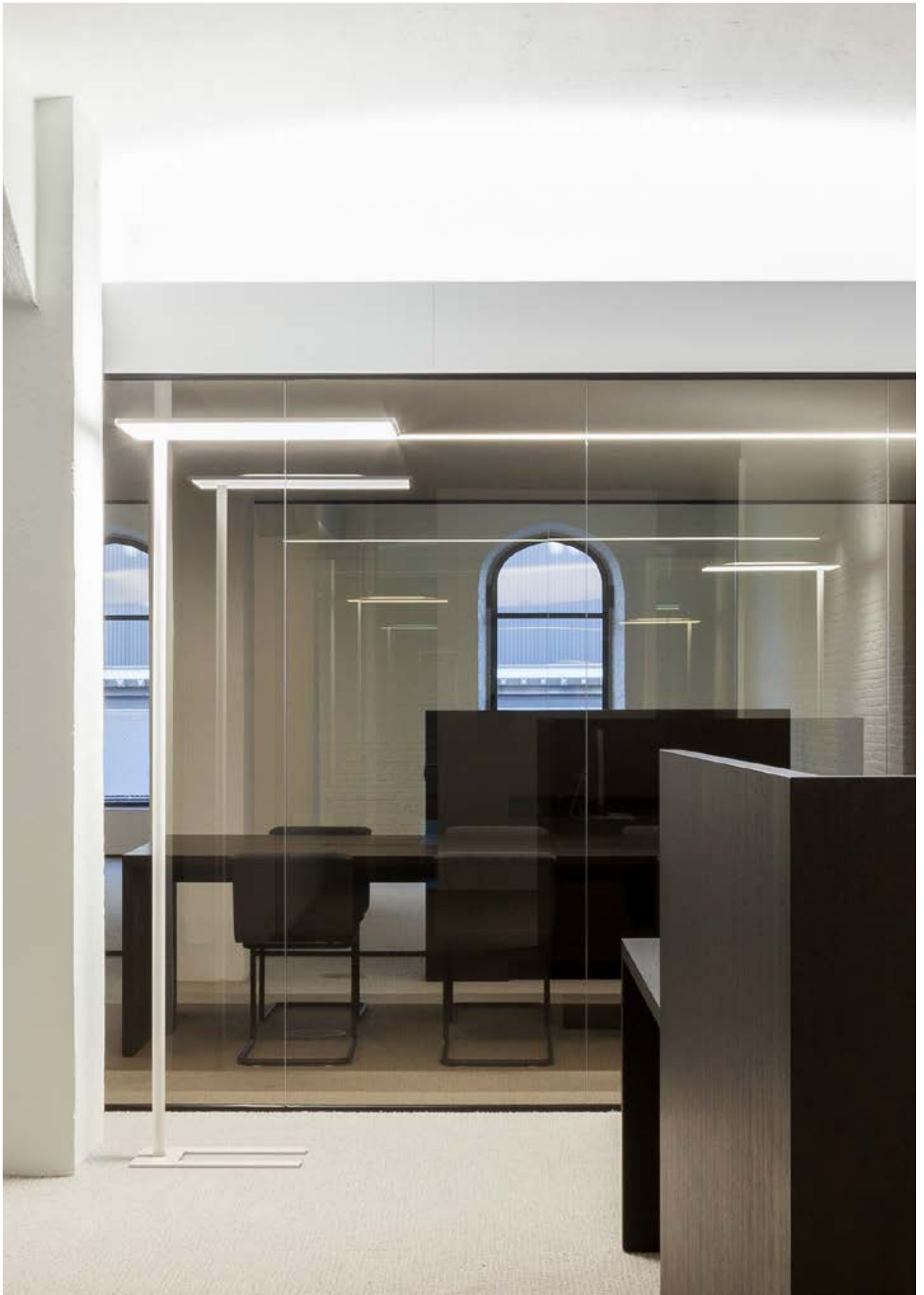
Inspiration

Orde van architecten
Brussels, Belgium

PRODUCT
TASK free standing

ARCHITECT
Stein Van Rossem
Brussels, Belgium





Inspiration

Polyadès
Delémont, Switzerland

ARCHITECT
Stähelin Architekten
Basel, Switzerland

PRODUCT
TASK free standing





TASK square free standing

xal.com/task



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 143 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated

Description

DE Stehleuchte mit quadratischem Leuchtenkopf aus Aluminium und abgerundeten Kanten; extrem flache Bauform (nur 15 mm); Stahlrohr rund; Standfuß mit Ausnehmung für Tischfuß; Oberfläche weiß, grau oder schwarz pulverbeschichtet; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Indirektlichtanteil mit eigenen Platinen für erhöhten Lichtstrom und maximale Deckenaufhellung; mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 20; SK I; einfache Regelung durch Touch-DIM am Standrohr oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; Anwesenheitssensor-Erfassungsbereich ø 4,5 m am Fußboden; inkl. Anschlussleitung (3 m) mit Schutzkontaktstecker

EN Floor lamp with square luminaire head made of aluminium and rounded edges; ultra low-profile design (only 15 mm); steel round downpipe; pedestal with recess for table base; surface powder coated in white, grey or black; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; microprismatic PMMA cover; completely homogeneous illumination through use of a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class IP 20; PC I; easy control through touch-DIM on pole or with integrated infrared presence and brightness sensor; presence sensor detection range ø 4,5 m on the floor; incl. connection cable (3 m) with safety plug

Features



flat design (15 mm)



microprismatic
(UGR < 19)



touch DIM on pole

Standard configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
daylight & movement sensor 7

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
touch DIM on pole 5

MATERIAL COLOUR ▣
grey 6
black 8

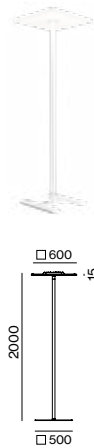


+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL
dynamic daylight control



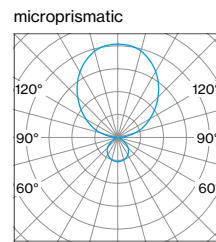
TASK square free standing

DIRECT / INDIRECT POWER

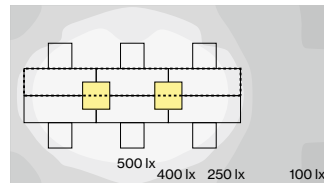


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
96W	3000K	↓ 2380 / ↑ 10490lm	0 5 9 - 2 9 3 2 ⋮ ⬆ P
	4000K	↓ 2530 / ↑ 11150lm	

LIGHT DISTRIBUTION



Technical data



TASK square free standing, 96W,
4000K, direct/indirect power

ROOM VALUES

Room dimensions	7.2 × 4 × 2.8m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	4.8 × 0.6m
Surface height	0.75m
Average illuminance (E _m)	> 500 lx

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	

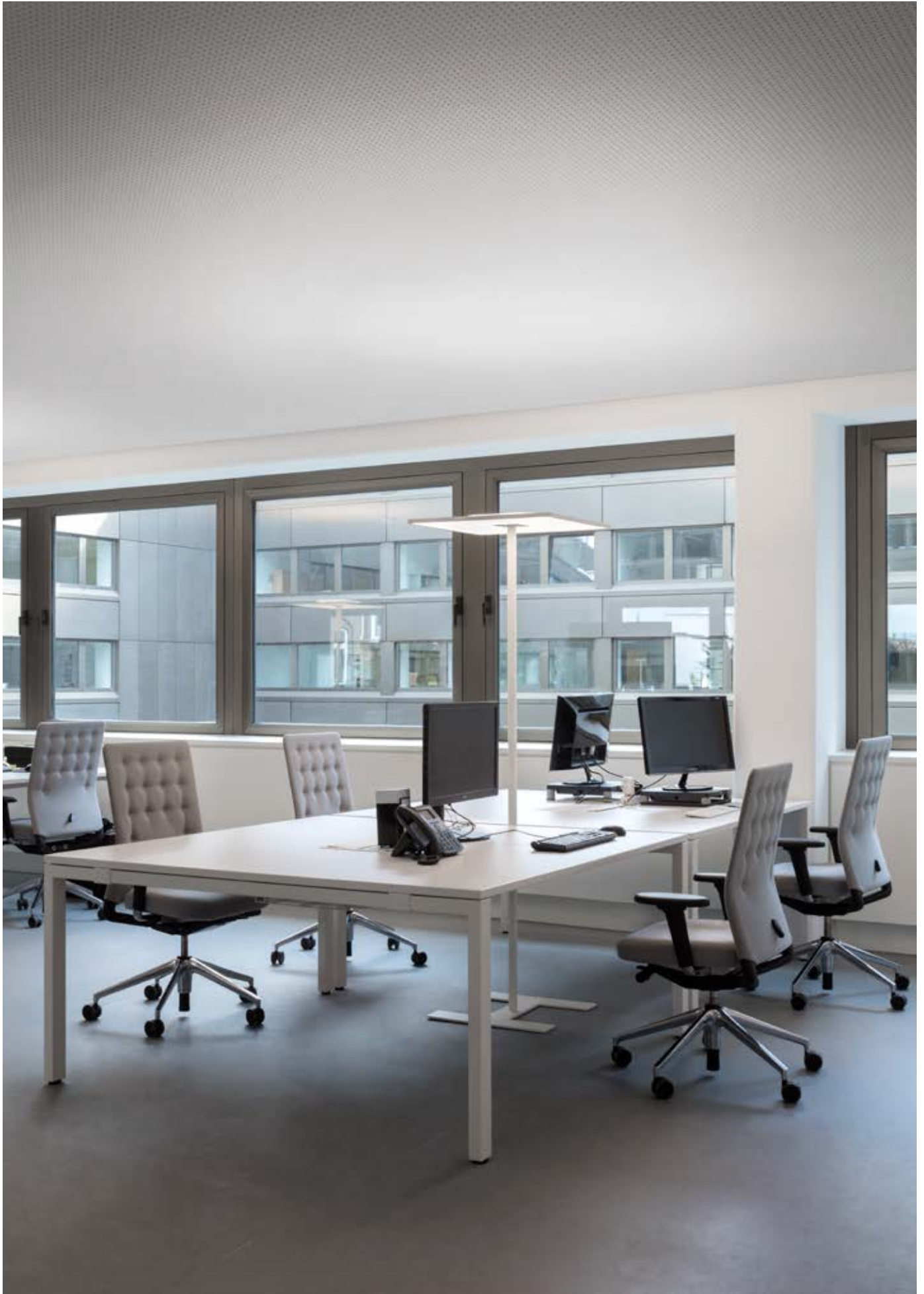
Inspiration

Office MyHammer
Berlin, Germany

PRODUCT
TASK square free standing

ARCHITECT
designfunktion Gesellschaft für
moderne Einrichtung Berlin mbH
Berlin, Germany





HELIOS

free standing

xal.com/helios



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 105lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct/indirect illumination
circular de-glaring prism (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated

Description

DE Stehleuchte mit ringförmigem, schlankem Leuchtenkopf (nur 17 mm) und Standfuss; Aluminiumstandrohr trapezförmig; Oberfläche weiß oder schwarz pulverbeschichtet; elektronisches Betriebsgerät im Standrohr verbaut; Kühlkörper in Leuchtengeometrie für optimales Thermomanagement und passive Kühlung der LEDs integriert; direkt/indirekte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach oben und unten gelenkt; Direktanteil: zirkularprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung; optional: Lichtverteilung durch patentierten Rotorreflektor aus hochreflektierendem Material steuerbar; Verteilung Direkt- zu Indirektlichtanteil stufenlos von 70:30% auf 100% Direktanteil einstellbar; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; einfache Regelung durch integrierte touch DIM-Funktion am Standrohr oder mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; inkl. Anschlussleitung (3 m) mit Schutzkontaktstecker

EN Floor lamp with an annular, slim luminaire head (only 17 mm) and stand; aluminium trapezoidal upright tube; surface powder coated in white or black; electronic operating unit installed in the downpipe; heat sink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; Direct component: circular prismatic PMMA cover, completely homogeneous illumination; optionally: light distribution controlled by patented rotor reflector in highly reflective material; distribution of direct to indirect component continuously variable from 70:30% to 100% direct; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP20; PC I; easy control through integrated touch DIM function on downpipe or through integrated infrared daylight and movement sensor; incl. connection cable (3 m) with safety plug

Features



flat design (17 mm)



patented rotor reflector



touch DIM control



high quality chrome reflector

HELIOS


suspended

[page 314](#)



Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
daylight & movement sensor 7

MATERIAL COLOUR 
white 7



LIGHT OPTIC COVER
circular de-glaring prism (UGR < 19)

Extended configuration

COLOUR TEMPERATURE 
4000K 6

CONTROL 
touch DIM 5

MATERIAL COLOUR 
black 8



+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



CONTROL
dynamic daylight control



HELIOS rotor reflector free standing

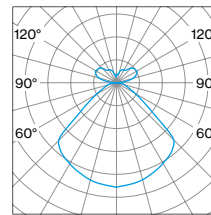
DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
65 W	3000 K	↓ 4580 / ↑ 1810 lm	0 5 9 - 8 9 2 6  
	4000 K	↓ 4870 / ↑ 1920 lm	

LIGHT DISTRIBUTION

reflector open





direct/indirect



HELIOS free standing

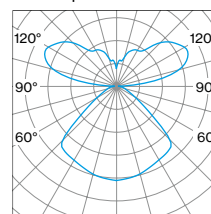
DIRECT / INDIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
80 W	3000 K	↓ 3240 / ↑ 4620 lm	0 5 9 - 8 9 3 6  
	4000 K	↓ 3440 / ↑ 4910 lm	

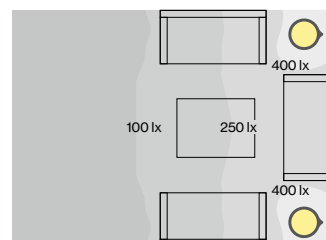
LIGHT DISTRIBUTION

circular prismatic



direct/indirect

Technical data



HELIOS free standing, 65 W, 4000 K
direct/indirect

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	Floor
Surface height	0 m

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	



Inspiration

Praxis am Bahnhof
Bremgarten, Switzerland

ARCHITECT
Outlog Architektur + Planung AG
Lenzburg, Switzerland

LIGHTING DESIGN
Outlog Architektur + Planung AG
Lenzburg, Switzerland

PRODUCT
HELIOS free standing







SONIC

free standing (absorber)

xal.com/sonic



Quickinfo

GENERAL

free standing
IP20

LED

Mid-power LED
up to 140lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct/indirect illumination
microprismatic (UGR < 19)

ELECTRICAL

touch DIM
daylight & movement sensor

PHYSICAL

aluminium
powder-coated
acoustically effective

Description

DE Stehleuchte mit konischem Leuchtenkopf aus gerolltem Aluminiumprofil; Oberfläche weiß oder dunkelgrau pulverbeschichtet; rundes Aluminiumstandrohr wahlweise zentral oder dezentral angeordnet; runder Standfuß mit Ausnehmung für Tischfuß; mit direkt/indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke und mehr Sehkomfort; Indirektlichtanteil mit klarem Acrylglas abgedeckt; Direktanteil: Mikroprismatische PMMA-Abdeckung; absolut homogene Ausleuchtung; inkl. Reflektor aus hochreflektierendem Material (96% Reflexionsgrad); bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; einfache Regelung durch integrierte touch DIM-Funktion am Leuchtenkopf; optional nicht dimmbar; optional dimmbar mit integriertem Infrarot Anwesenheits- und Helligkeitssensor; inkl. Anschlussleitung (3 m) mit Schutzkontaktstecker; schallreduzierendes Zubehör erhältlich: patentiertes Schallschutzelement aus expandiertem Polystyrol (EPS)

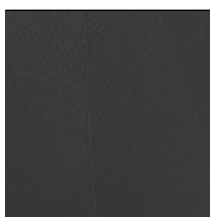
EN Free standing luminaire with conical luminaire head from rolled aluminium profile; surface white or dark grey powder coated; round aluminium downpipe arranged centralised or decentralised; round pedestal with recess for table base; with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; indirect component covered with clear acrylic glass; direct component: microprismatic PMMA cover; completely homogeneous illumination; incl. reflector in high reflectance material (96% reflectance); workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP20; PC I; easy control through integrated touch DIM function on light head; optional non-dimmable; optionally dimmable with integrated infrared presence and brightness sensor; incl. connection cable (3 m) with safety plug; noise reducing accessories available: patented soundproofing element made of expanded polystyrene (EPS)

SONIC

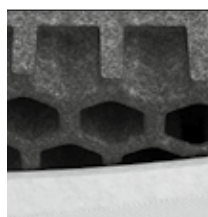
suspended
[page 318](#)



Features



one piece acoustic ring, in 2 colours



patented honeycomb structure

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
touch DIM 5

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
non DIM switch 1
daylight & movement sensor 7

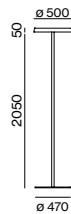
MATERIAL COLOUR ▣
dark grey 6



+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



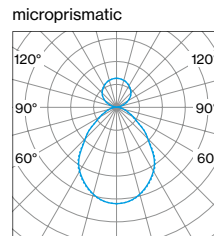
SONIC centric pole free standing

DIRECT / INDIRECT

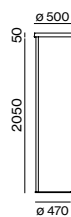


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
37W	3000K	↓ 3430 / ↑ 1470 lm	0 5 9 - 6 9 3 4 ⋮ ⬆ ▣ P
	4000K	↓ 3640 / ↑ 1560 lm	

LIGHT DISTRIBUTION



direct / indirect



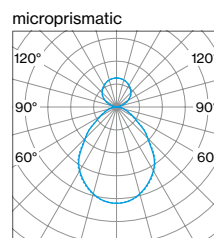
SONIC excentric pole free standing

DIRECT / INDIRECT

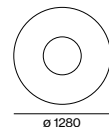


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
37W	3000K	↓ 3430 / ↑ 1470 lm	0 5 9 - 6 9 8 4 ⋮ ⬆ ▣ P
	4000K	↓ 3640 / ↑ 1560 lm	

LIGHT DISTRIBUTION



direct / indirect

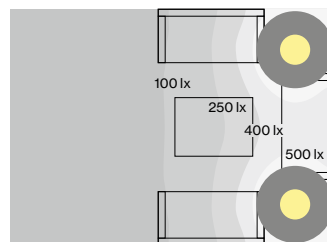


Accessory

ABSORBER

TYPE	ORDER CODE
bazalt grey	9 5 9 - 6 9 9 9 1 1 6
light grey	9 5 9 - 6 9 9 9 1 1 7

Technical data



SONIC excentric pole free standing
+ absorber, 37W, 4000K,
direct / indirect

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	Floor
Surface height	0 m

GLARE EVALUATION

Table Classification X=4H Y=8H S=0.25H	
UGR transversal	< 19
UGR axial	< 19
65° < 3000 cd/m ²	



Inspiration

DocSander - Dentist Practice Room
Munich, Germany

ARCHITECT
architopia_christine detering
gramming Architekten
Munich, Germany

PRODUCT
SONIC free standing (absorber)





TASK table

xal.com/task



Quickinfo

GENERAL

table

IP20

LED

Mid-power LED

up to 1030 lm

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct 100%

ELECTRICAL

DIM via optical sensor (10-100%)

movement sensor

PHYSICAL

aluminium

powder-coated

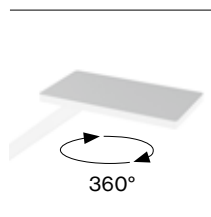
head 360° rotatable, 15° tiltable

Description

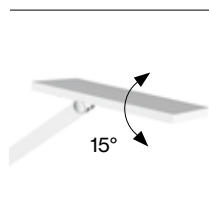
DE Schreibtischleuchte in puristischem Design und hoher Funktionalität; Leuchtenkopf 360° dreh- und 15° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; opale PMMA-Abdeckung; absolut homogene Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK II; stufenloses Dimmen via optischem Sensor (10-100% analog); integrierte USB-Ladebuchse zum Aufladen eines Smart Devices; Ausführung mit Präsenzmelder; Montage wahlweise auf Fußplatte, Tischklemmen oder Wand möglich

EN Desk lamp in puristic design with high functionality; lamp head 360° rotatable and 15° tiltable; surface powder coated in white or black; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; opal PMMA cover; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP20; PC II; continuously adjustable dimming via optical sensor (10-100% analog); integrated USB charging socket for charging of a smart device; version with presence detector optional; mounting possible on base plate, table clamps or wall

Features



head 360° rotatable



head 15° tiltable



movement sensor



USB connector

Standard configuration

COLOUR TEMPERATURE ⋮
4000K 6

MATERIAL COLOUR ▣
white 7



LIGHT OPTIC COVER
opal O

Extended configuration

COLOUR TEMPERATURE ⋮
3000K 5

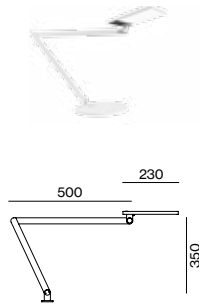
MATERIAL COLOUR ▣
black 8



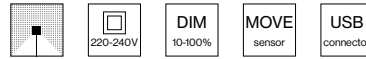
+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



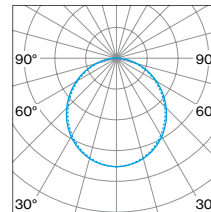
TASK table



DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	970lm	0 5 9 - 2 8 1 1 :: 7 ▣ O
	4000K	1030lm	

LIGHT DISTRIBUTION



direct

Accessories

BASE PLATE

TYPE	Ø-H (mm)	ORDER CODE
base plate	ø220 × 10	0 5 9 - 2 8 9 1 1 1 ▣

TABLE CLAMP FOR HOLE ø68mm

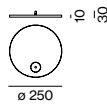
TYPE	Ø-H (mm)	ORDER CODE
table clamp	ø75 × 60	0 5 9 - 2 8 9 2 1 1 ▣

TABLE CLAMP

TYPE	L·W·H (mm)	ORDER CODE
table clamp	115 × 46 × 60	0 5 9 - 2 8 9 2 2 1 ▣

WALL FASTENING

TYPE	L·W·H (mm)	ORDER CODE
wall fastening	80 × 46 × 60	0 5 9 - 2 8 9 3 1 1 ▣



Inspiration

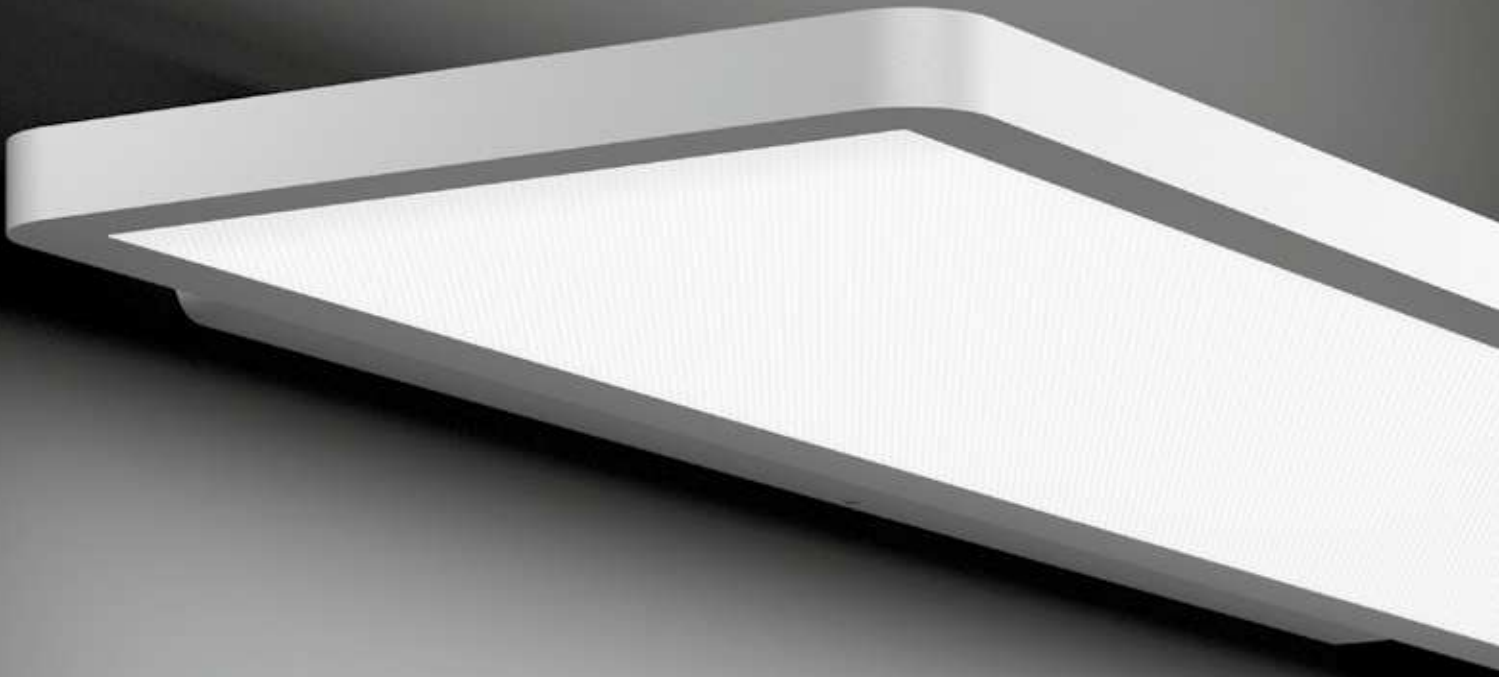
XAL headquarters
Graz, Austria

PRODUCT
TASK table





07



WANDANBAU- / WANDEINBAULEUCHTEN WALL MOUNTED / RECESSED WALL LUMINAIRES

643



TASK

xal.com/task



Quickinfo

GENERAL

wall mounted
IP20

LED

Mid-power LED
up to 122lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct/indirect illumination
direct: LGP
microprismatic (UGR < 19)

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated

Description

DE Rechteckiger Leuchtenkörper aus Aluminium mit abgerundeten Kanten; extrem flache Bauform (nur 15 mm); moderne Formensprache im edlen Design für höchste Ansprüche; Oberfläche weiß pulverbeschichtet; direkte Lichtverteilung durch LGP-Body (Light-Guiding-Prism); seitlich eingekoppeltes Licht durch Lasergravur nach unten gelenkt; Lichtlenkung mittels hochreflektierenden Reflektormaterials; Indirektlichtanteil mit eigenen Platinen mit asymmetrischer Lichtverteilung; für optimale Deckenaufhellung; mikroprismatische PMMA-Abdeckung, absolut homogene Ausleuchtung durch Einsatz einer diffusen Folie auf Polycarbonatbasis; verbessertes Verhältnis von Streuwirkung zu Lichtdurchlässigkeit; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; DALI-dimmbar mit CLO-Funktion; optional nicht dimmbar

EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); modern shape in an elegant design for high demands; surface white powder coated; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; indirect component with special PCBs with asymmetrical light distribution; for optimum ceiling illumination; microprismatic PMMA cover, completely homogeneous illumination using a polycarbonate based diffuser film; improved ratio of scattering effect to light transmission; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class IP20; PC I; DALI dimmable with CLO function; optional non-dimmable

TASK system
suspended

[page 550](#)

TASK free
standing

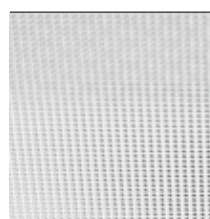
[page 616](#)



Features



flat design (15 mm)



microprismatic
(UGR < 19)

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
DIM DALI / CLO 3

MATERIAL COLOUR
white 7



LIGHT OPTIC COVER
microprismatic (UGR < 19) P

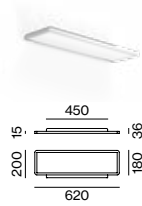
Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

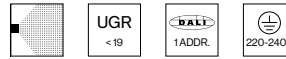
CONTROL ⬆
non DIM 1

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



TASK

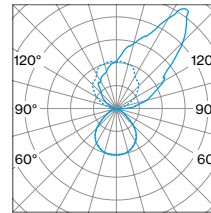


DIRECT / INDIRECT POWER

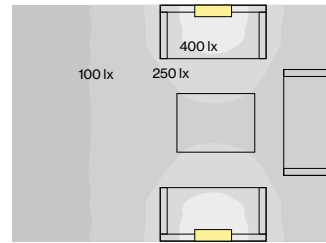
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
48W	3000K	↓ 1850 / ↑ 3670lm	0 5 9 - 2 0 3 2 ⋮ 7 P
	4000K	↓ 1970 / ↑ 3900lm	

LIGHT DISTRIBUTION

microprismatic



Technical data



TASK wall, 48W, 4000K
direct/indirect power

ROOM VALUES

Room dimensions	5.4 × 4.0 × 2.8m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8
Mounting height	2.25m

CALCULATION SURFACE

Surface dimensions	Floor
Surface height	0m

GLARE EVALUATION

Table Classification	X=4H Y=8H S=0.25H
UGR transversal	< 19
UGR axial	< 19
65° <	3000 cd/m ²



Inspiration

Lobby
Visualisation

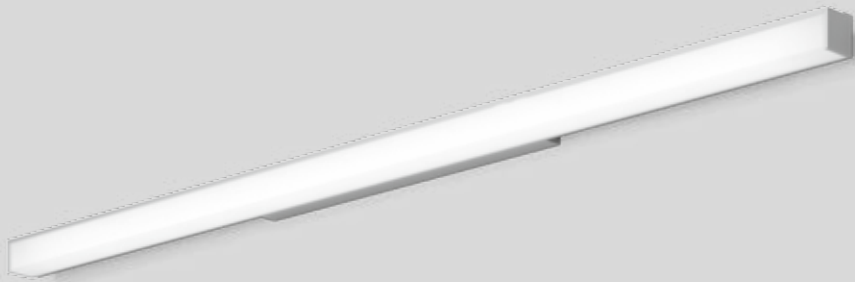
PRODUCT
TASK wall





CORNER MINI

xal.com/corner



Quickinfo

GENERAL

wall mounted
IP20

LED

Low-power LED
up to 660 lm/m
up to 77 lm/W
3000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

asymmetric illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

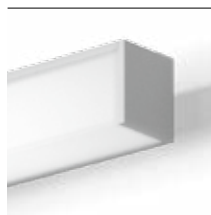
aluminium
chrome
anodised aluminium matt

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche chrom poliert oder Aluminium natur eloxiert; geeignet für Wandmontage; mit zweiseitiger Lichtabstrahlung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface polished chrome or with natural anodised aluminium finish; suitable for wall mounting; with double-sided light beam; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; protection class IP20; PC I

Features



high quality
aluminium end caps

Standard configuration

COLOUR TEMPERATURE
3000K 5

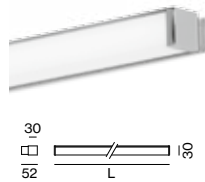
COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL
non DIM 1

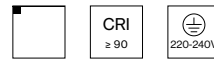
MATERIAL COLOUR
chrome 4
anodised aluminium matt J



LIGHT OPTIC COVER
opal high performance H



CORNER MINI



TYPE	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5W	3000K	400lm	626	0 5 7 - 2 8 4 2 5 1 <input checked="" type="checkbox"/> H
8W	3000K	600lm	926	0 5 7 - 2 8 4 3 5 1 <input checked="" type="checkbox"/> H
11W	3000K	810lm	1226	0 5 7 - 2 8 4 4 5 1 <input checked="" type="checkbox"/> H

Inspiration

Private Residence
Lorenskog, Norway

ARCHITECT
Metropolis arkitektur & design as
Oslo, Norway

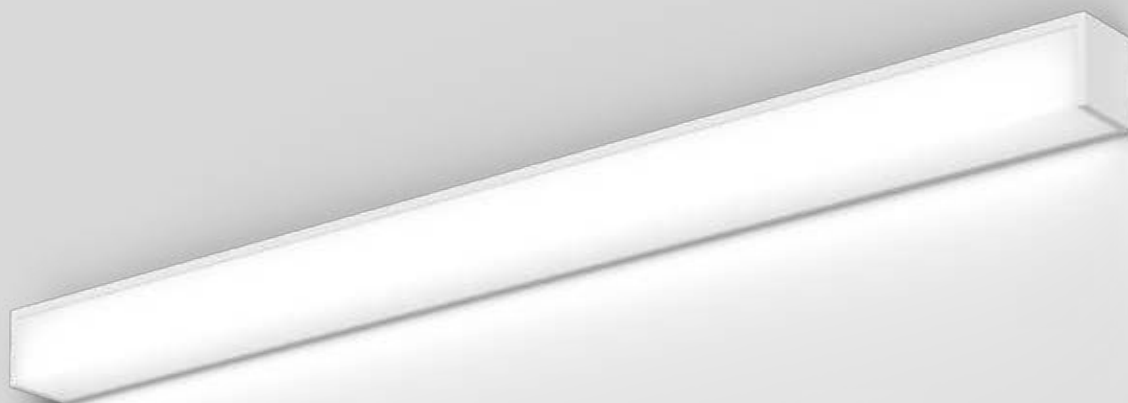
LIGHTING DESIGN
Limelight AS
Oslo, Norway

PRODUCT
CORNER mini



CORNER

xal.com/corner



Quickinfo

GENERAL

wall mounted
IP20

LED

Mid-power LED
up to 3374lm/m
up to 108lm/W
3000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

asymmetric illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated

Description

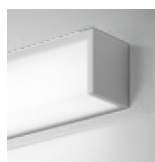
DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß, grau oder schwarz pulverbeschichtet; geeignet für Wand- oder Deckenmontage; mit zweiseitiger Lichtabstrahlung; Leuchtenprofil für Montage vorab lieferbar; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (e, e², e²⁺) am Lichteinsatz einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated in white, grey or black; suitable for wall or ceiling mounting; with double-sided light beam; luminaire profile for mounting available in advance; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with very good colour rendering; powerswitch (e, e², e²⁺) adjustable on the insert; binning initial ≤ 3 MacAdam; available in the light colour 3000K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I

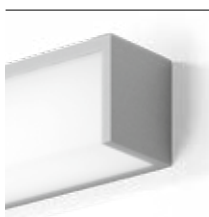
CORNER 65

system

[page 586](#)



Features



high quality
aluminium end caps



power switch

Standard configuration

COLOUR TEMPERATURE

3000K 5

CONTROL

non DIM (switchable e/e²/e²⁺) 1

MATERIAL COLOUR

white 7



LIGHT OPTIC COVER

opal high performance 0

Extended configuration

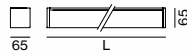
MATERIAL COLOUR

grey G

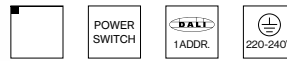
black 8



+5% surcharges



CORNER



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10W e	3000K	990 lm	588	0 4 0 - 8 9 P 2 5 1 <input checked="" type="checkbox"/> O
14W e ²	3000K	1430 lm		
21W e ²⁺	3000K	1930 lm		
14W e	3000K	1490 lm	888	0 4 0 - 8 9 P 3 5 1 <input checked="" type="checkbox"/> O
21W e ²	3000K	2150 lm		
31W e ²⁺	3000K	2900 lm		
18W e	3000K	1990 lm	1188	0 4 0 - 8 9 P 4 5 1 <input checked="" type="checkbox"/> O
28W e ²	3000K	2860 lm		
41W e ²⁺	3000K	3860 lm		

Inspiration

Private Residence
Visualisation

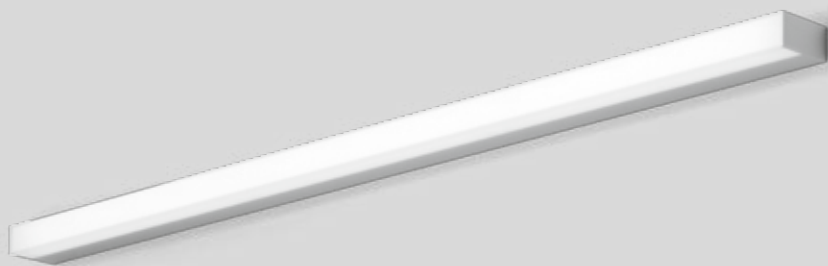
PRODUCT
CORNER
LINEA EVO





STRETTA MINI

xal.com/stretta



Quickinfo

GENERAL

wall mounted
IP20

LED

Low-power LED
up to 742lm/m
up to 85lm/W
3000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

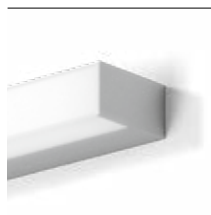
aluminium
chrome
anodised aluminium matt

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche chrom poliert oder Aluminium natur eloxiert; geeignet für Wandmontage; mit dreiseitiger Lichtabstrahlung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface polished chrome or with natural anodised aluminium finish; suitable for wall mounting; with three sided light beam; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; protection class IP20; PC I

Features



high quality
aluminium end caps

Standard configuration

COLOUR TEMPERATURE

3000K 5

COLOUR RENDERING INDEX

CRI ≥ 90

CONTROL

non DIM 1

MATERIAL COLOUR

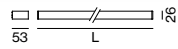
chrome 4

anodised aluminium matt J

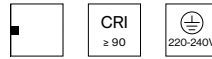


LIGHT OPTIC COVER

opal high performance H



STRETTA MINI



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5W	3000K	450lm	606	0 5 7 - 2 0 4 2 5 1 <input checked="" type="checkbox"/> H
8W	3000K	670lm	906	0 5 7 - 2 0 4 3 5 1 <input checked="" type="checkbox"/> H
11W	3000K	890lm	1206	0 5 7 - 2 0 4 4 5 1 <input checked="" type="checkbox"/> H

Inspiration

Private Residence
Graz, Austria

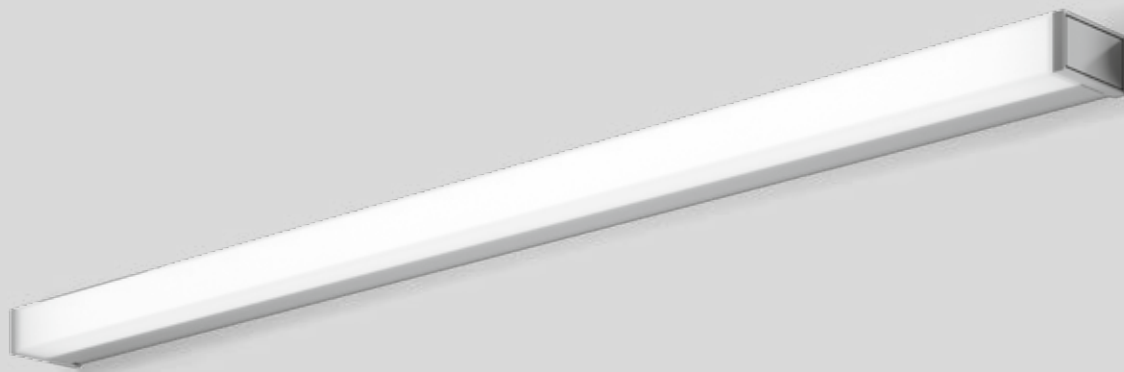
ARCHITECT
GSarchitects ZT
Graz, Austria

PRODUCT
STRETTA MINI



STRETTA

xal.com/stretta



Quickinfo

GENERAL

wall mounted
IP 40 / IP 44

LED

Mid-power LED
up to 2609 lm/m
up to 114 lm/W
3000 K (IP 40), 3400 K (IP 44)
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

omni illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche grau oder weiß pulverbeschichtet; Enddeckel galvanisch verchromt; geeignet für Wandmontage; mit dreiseitiger Lichtabstrahlung; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K (IP 40) oder 3400 K (IP 44); CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 40 (SK I) oder IP 44 (SK II)

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface grey or white powder coated; end cap chrome plated; suitable for wall mounting; with three sided light beam; HPO (High Performance Opal) cover for uniform illumination; with increased transmission and diffusion; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K (IP 40) or 3400 K (IP 44); CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP 40 (PC I) or IP 44 (PC II)

Features



IP (weatherproof protection)

Standard configuration

COLOUR TEMPERATURE

3000K (IP40), 3400K (IP44) 5

CONTROL

non DIM 1

MATERIAL COLOUR

grey/chrome F

F

LIGHT OPTIC COVER

opal high performance H

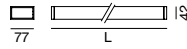
Extended configuration

MATERIAL COLOUR

white/chrome 5

5

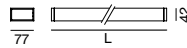
+5% surcharges



STRETTA IP40



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3000K	1580lm	610	0 5 7 - 0 3 3 2 5 1 H
21 W	3000K	2370lm	908	0 5 7 - 0 3 3 3 5 1 H
28 W	3000K	3160lm	1208	0 5 7 - 0 3 3 4 5 1 H



STRETTA IP44



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3400K	1360lm	610	0 5 7 - 0 6 3 2 5 1 H
20 W	3400K	2040lm	908	0 5 7 - 0 6 3 3 5 1 H
27 W	3400K	2730lm	1208	0 5 7 - 0 6 3 4 5 1 H

Inspiration

Private Residence
Visualisation

PRODUCT
STRETTA





LINO

xal.com/lino



Quickinfo

GENERAL

wall mounted
IP20

LED

High-power LED
up to 6460 lm/m
up to 92 lm/W
3000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

direct/indirect illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
anodised
powder-coated

Description

DE Leuchtenkörper und Frontabdeckung aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß pulverbeschichtet bzw. Aluminium natur eloxiert; geeignet für Wandmontage; homogene Wandaufhellung durch gleichmäßige direkt/indirekte Lichtverteilung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP20; SK I

EN Luminaire housing and front cover from extruded aluminium profile, angular version; no visible screws; surface powder coated in white or natural anodised aluminium; suitable for wall mounting; homogeneous wall illumination through uniform direct/indirect light distribution; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70% of the luminous flux after 50000 hours; protection class IP20; PC I

Features



high quality
aluminium end caps

Standard configuration

COLOUR TEMPERATURE

3000K 5

CONTROL

non DIM 1

MATERIAL COLOUR

white 7

7

LIGHT OPTIC COVER

opal high performance

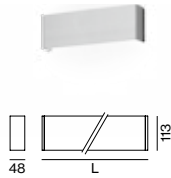
Extended configuration

MATERIAL COLOUR

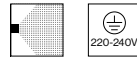
anodised aluminium 6

6

+5% surcharges



LINO



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	3000K	1060 lm	180	0 5 8 - 6 3 0 3 5 1 <input checked="" type="checkbox"/>
23 W	3000K	2120 lm	350	0 5 8 - 6 3 2 3 5 1 <input checked="" type="checkbox"/>

Inspiration

Private Residence
Graz, Austria

ARCHITECT
DI Michael Kadletz ZT GmbH
Graz, Austria

PRODUCT
LINO



LINEA EVO

xal.com/linea-evo



Quickinfo

GENERAL

wall mounted
IP20

LED

Mid-power LED
up to 145lm/W
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct/indirect illumination
PMMA cover opal
opal, asymmetric lens

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

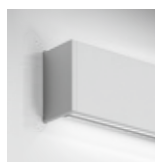
DE Leuchtenkörper und Frontabdeckung aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche grau, weiß oder schwarz pulverbeschichtet; geeignet für Wandmontage; homogene Wand- bzw. Deckenaufhellung durch gleichmäßige direkt/indirekte Lichtverteilung; präzise Abstrahlcharakteristik mit drei verschiedenen Linsenprofilen (opal, wall grazer, asymmetric); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Luminaire housing and front cover from extruded aluminium profile, angular version; no visible screws; surface powder coated in grey, white or black; suitable for wall mounting; homogeneous wall or ceiling illumination through uniform direct/indirect light distribution; precise radiation characteristic with three different lens profiles (opal, wall grazer, asymmetric); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 90% of the luminous flux after 50000 hours; protection class IP20; PC I; optional DALI dimmable

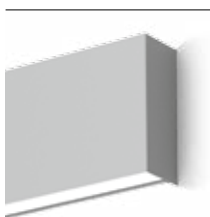
LINEA EVO

system

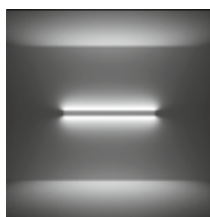
[page 600](#)



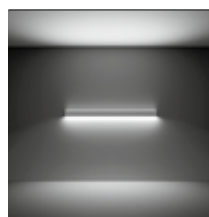
Features



high quality
aluminium end caps



opal / opal



opal / asymmetric

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000 K 5

CONTROL ⬢
non DIM 1

MATERIAL COLOUR ▣
grey G



DIRECT ILLUMINATION
opal high performance H

INDIRECT ILLUMINATION
opal high performance H

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000 K 6

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR ▣
white 7
black 8



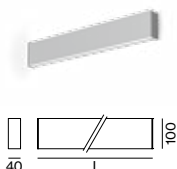
+5% surcharges

INDIRECT ILLUMINATION
asymmetric A

Options on request

COLOUR TEMPERATURE
2700 K

ILLUMINATION
wall grazer



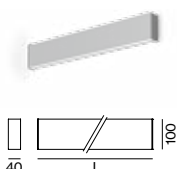
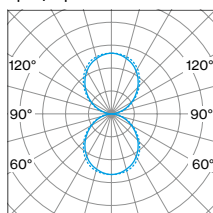
LINEA EVO opal / opal



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
18 W	3000 K	↓ 830 / ± 830 lm	610	0 5 8 - 6 2 5 2 ⬢⬢ ▣ H H
	4000 K	↓ 890 / ± 890 lm		
36 W	3000 K	↓ 1660 / ± 1660 lm	1210	0 5 8 - 6 2 5 4 ⬢⬢ ▣ H H
	4000 K	↓ 1780 / ± 1780 lm		
72 W	3000 K	↓ 3320 / ± 3320 lm	2416	0 5 8 - 6 2 5 8 ⬢⬢ ▣ H H
	4000 K	↓ 3560 / ± 3560 lm		

LIGHT DISTRIBUTION

opal / opal



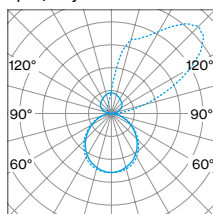
LINEA EVO opal / asymmetric



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
18 W	3000 K	↓ 830 / ± 740 lm	610	0 5 8 - 6 2 5 2 ⬢⬢ ▣ H A
	4000 K	↓ 890 / ± 820 lm		
37 W	3000 K	↓ 1660 / ± 1480 lm	1210	0 5 8 - 6 2 5 4 ⬢⬢ ▣ H A
	4000 K	↓ 1780 / ± 1640 lm		
74 W	3000 K	↓ 3320 / ± 2960 lm	2416	0 5 8 - 6 2 5 8 ⬢⬢ ▣ H A
	4000 K	↓ 3560 / ± 3280 lm		

LIGHT DISTRIBUTION

opal / asymmetric



Inspiration

SNS Headquarters
Moscow, Russia

ARCHITECT
ABD Architects
Moscow, Russia

LIGHTING DESIGN
Light & Design
Moscow, Russia

PRODUCT
LINEA EVO

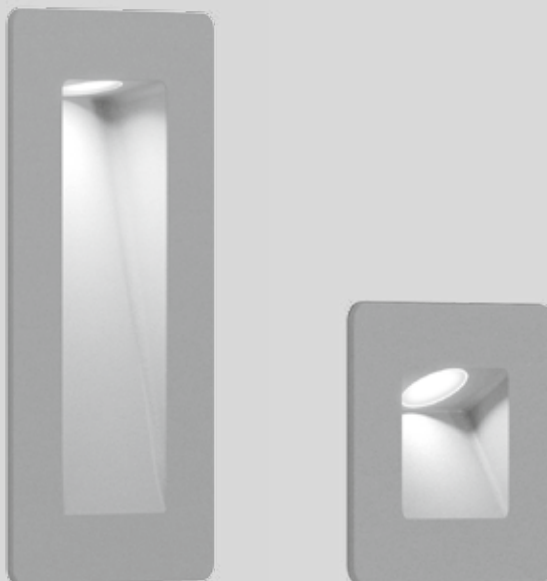




WISE

recessed

xal.com/wise



Quickinfo

GENERAL

wall recessed

IP54

optional concrete install. housing

LED

High-power LED

up to 56 lm/W

3000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

asymmetric illumination

lens optics

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

optimised corrosion protection

Description

DE Wandeinbauleuchte aus Aluminium-druckguss, schutzeloxiert, mit umlaufendem Rand; Oberfläche grau, weiß oder dunkelgrau pulverbeschichtet; geeignet für Wandstärken von 10-25 mm; Einputzgehäuse für massive Wände als Zubehör erhältlich; asymmetrische Lichtverteilung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP54; SK I

EN Recessed wall luminaire made of anodised die-cast aluminium with trim; surface powder coated in grey, white or dark grey; suitable for wall thickness of 10-25 mm; flush housing for solid walls available as accessory; asymmetrical light distribution; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70% of the luminous flux after 50000 hours; protection class IP54; PC I

Standard configuration

IP RATING

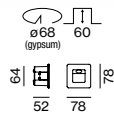
IP54

CONTROL

non DIM 1

MATERIAL COLOUR

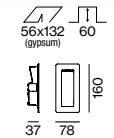
white 7
grey 6
dark grey D



WISE MINI recessed



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,4 W	3000 K	80 lm	0 5 2 - 7 4 5 0 5 1



WISE recessed



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,4 W	3000 K	80 lm	0 5 2 - 7 4 6 0 5 1

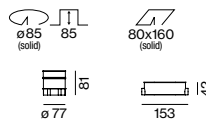
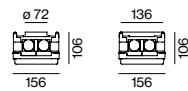
Accessory

INSTALLATION HOUSING FOR CONCRETE

TYPE	ORDER CODE
WISE MINI	0 5 2 - 7 4 1 9 9 1 0
WISE	0 5 2 - 7 4 3 9 9 1 0

INSTALLATION HOUSING FOR SOLID WALLS

TYPE	ORDER CODE
WISE MINI	0 5 2 - 7 4 1 9 9 2 0
WISE	0 5 2 - 7 4 3 9 9 2 0



Inspiration

The GPT Group
Sydney, Australia

ARCHITECT
WoodsBagot
Sydney, Australia

PRODUCT
WISE MINI recessed





RECOVER

xal.com/recover



Quickinfo

GENERAL

passive cooling
indoor
IP40 (on request IP54)
direct/indirect illumination

LED

high-power LED
ambient light up to CRI95
reading, examination light CRI \geq 90
typical CRI95
binning initial \leq 3-SDCM
binning directly on BBL

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

asymmetric light distribution

PHYSICAL

powdercoated surface
white
glass cover
height luminaire body: 40 mm

RECOVER SPECIFICS

luminaire with movement sensor
light-emitting surfaces with
ESG glass

Description

DE XAL bietet drei Ausführungs-Varianten der RECOVER Leuchte an:

Die Ausführung RECOVER PRO wurde für den höchsten Anspruch an Beleuchtungskomfort entwickelt. In Kombination mit der RECOVER Master Unit (pro Raum eine Unit), können bis zu sechs Leuchten mit dynamischen Tageslichtprogrammen (circadian light) bespielt werden.

RECOVER DALI ermöglicht ein individuelles Dimmen. Über bauseits installierte Dimm-Taster werden vier Lichtkreise, das indirekte Raumlicht mit 2700 und 6500K, das Untersuchungslicht und das Leselicht mit 3000K, individuell angesteuert.

Die Version RECOVER BASIC ermöglicht die Schaltung des indirekten Raumlichts, des Untersuchungslichts und des Leselichts über handelsübliche Schalter.

EN XAL offers three versions of the RECOVER luminaire:

The RECOVER PRO version has been developed to meet the highest standard of lighting comfort. In combination with the RECOVER Master Unit (one unit per room), up to six luminaires can be configured with dynamic daylight programmes (circadian light).

RECOVER DALI allows for individual dimming. Dim switches installed on-site are individually controlled via four light circuits, the indirect ambient light with 2700 and 6500K, the examination light and the reading light with 3000K.

The RECOVER BASIC version allows the indirect ambient light, the examination light, and the reading light to be operated using standard switches.

Features



circadian light
2200–3100K



master unit

Brochure



Inspiration

LKH Leoben
Leoben, Austria

PRODUCT
RECOVER

ARCHITECT

Ernst Giselbrecht + Partner
architektur zt gmbh
Graz, Austria

LIGHTING DESIGN

pi-plan, Franz Pischler
Graz, Austria



Inspiration

EMCO private clinic
Bad Dürrenberg/Salzburg, Austria

ARCHITECT
FLEOS architektur
Salzburg, Austria

LIGHTING DESIGN
Das Licht
Salzburg, Austria

PRODUCT
RECOVER

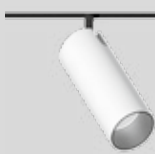




08



STRAHLER UND STROMSCHIENEN TRACK LIGHTS AND TRACKS



BO 55
basic/wls

↻ 678 **new**



BO 70
basic/focus

↻ 682



BO 70
shutter/iris/gobo

↻ 686



TIMO 80
free

↻ 690



KIS

↻ 698



ARGO

↻ 702



PABLO
basic/focus

↻ 706 **new**



PABLO
shutter/iris/gobo

↻ 710 **new**



VARO

↻ 714 **new**



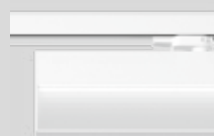
STUDIO

↻ 718



STRAIGHT

↻ 722



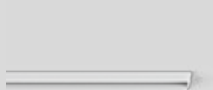
STRAIGHT
wallwasher

↻ 726



SQUADRO
wallwasher

↻ 730 **new**



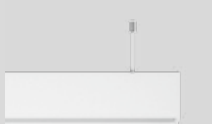
CANYON 15
recessed

↻ 734 **new**



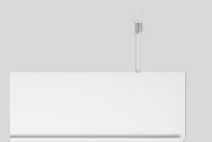
CANYON 50
offset

↻ 736



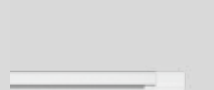
CANYON 50
surface/suspended

↻ 740



STILO 40
suspended

↻ 742 **new**



TRACK 3-phase
recessed/
surface/suspended

↻ 744

BO OVERVIEW



Quickinfo

	BO 55 basic ➔ 678	BO 70 basic ➔ 682	BO 70 focus ➔ 682
SYSTEM POWER	10 W, 20 W	26 W	23 W
LUMINOUS FLUX	710 lm, 1670 lm	2330 lm	960 lm, 1360 lm
COLOUR RENDERING INDEX	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90
COLOUR TEMPERATURE	2700K, 3000K, 4000K	3000K, 4000K	3000K, 4000K
BEAM ANGLE	6°, 14°, 23°, 33°	18°, 24°, 36°, 58°	adjustable 17°-47°
HEAD DIMENSIONS	ø55 mm / H 140 mm	ø70 mm / H 136 mm	ø70 mm / H 147 mm
SUITABLE FOR	CANYON 15 TRACK 3-phase	CANYON 50 TRACK 3-phase	CANYON 50 TRACK 3-phase



BO 70
shutter
➔ 686

23W
1015 cd, 1476 cd
CRI ≥ 90
3000K, 4000K

adjustable square light illumination

ø70 mm / H 198 mm

CANYON 50
TRACK 3-phase

BO 70
iris
➔ 686

23W
1040 cd, 1512 cd
CRI ≥ 90
3000K, 4000K

adjustable round light illumination

ø70 mm / H 198 mm

CANYON 50
TRACK 3-phase

BO 70
gobo
➔ 686

14W
-
CRI ≥ 90
3000K, 4000K

customised logo

ø70 mm / H 198 mm

CANYON 50
TRACK 3-phase

BO 55

basic/wls

xal.com/bo



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 84 lm/W
2700K, 3000K, 4000K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 6°, 14°, 23°, 33°

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
adapter plastic

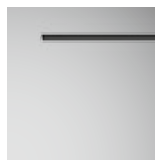
Description

DE Stromschiensstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 90° schwenkbar; optimiert für Einbau in einem CANYON 15 Kanal, Adapter deckenbündig; Konverter im Strahlerkopf integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K, 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit vier verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; 3 Phasen Adapter für werkzeugloses Einsetzen bzw. Verschieben in einer Eutrac Stromschiene

EN Track light made of die-cast aluminium; surface powder coated in white or black; spotlight head 355° rotatable and 90° tiltable; optimised for flush ceiling installation in a CANYON 15 channel adapter; converter integrated into spotlight head; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K, 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; precise radiation characteristic with four different beam angles; installed and exchanged without tools; protection class IP20; PC I; 3 phase adapter for toolless installation or movement on Eutrac power track

CANYON 15
track

[page 734](#)



BO 55 basic
surface /
semi recessed

[page 240](#)



Features



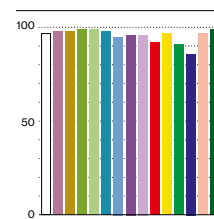
optimised adapter for
CANYON 15



adaptor flush in
standard 3-phase
power tracks



glare-free due to
recessed LED



CRI ≥ 90 (R9 > 90)

Standard configuration

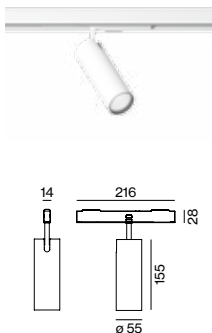
COLOUR TEMPERATURE ☼☼
3000K 5

CONTROL
non DIM 1

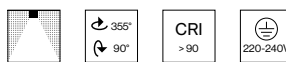
MATERIAL COLOUR ☑
white 7
black 8



BEAM ANGLE ▲
flood 33° F



BO 55 basic



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20 W	2700K	1350lm	0 5 3 - 3 0 2 1 :: 1 ☑ ▲
	3000K	1560lm	
	4000K	1670lm	

luminous flux flood 33°

LIGHT DISTRIBUTION for 3000K

spot 14°			medium 23°			flood 33°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	12907	ø0,25	1	6769	ø0,40	1	3625	ø0,68
2	3227	ø0,51	2	1692	ø0,81	2	906	ø1,37
3	1434	ø0,76	3	752	ø1,21	3	403	ø2,05
4	807	ø1,01	4	423	ø1,61	4	227	ø2,74
5	516	ø1,26	5	271	ø2,02	5	145	ø3,42

Extended configuration

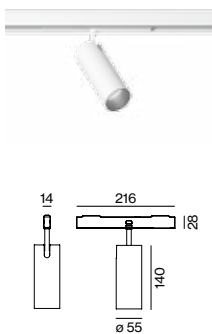
COLOUR TEMPERATURE ☼☼
2700K 4
4000K 6

MATERIAL COLOUR ☑
white/black adaptor housing P

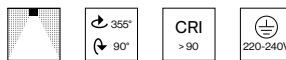


+5% surcharges

BEAM ANGLE ▲
super spot 6°* V
spot 14° S
medium 23° M
*only for BO 55 wls



BO 55 wls



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700K	620lm	0 5 3 - 3 0 2 0 :: 1 ☑ ▲
	3000K	710lm	
	4000K	710lm	

luminous flux spot 14°

LIGHT DISTRIBUTION for 3000K, BO 55 basic wls

super spot 6°			spot 14°			medium 23°			flood 33°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	22562	ø0,11	1	6667	ø0,25	1	1801	ø0,60	1	450	ø1,20
2	5640	ø0,21	2	1666	ø0,50	2	450	ø1,20	2	200	ø1,80
3	2506	ø0,32	3	740	ø0,75	3	200	ø1,80	3	112	ø2,40
4	1410	ø0,43	4	416	ø1,01	4	112	ø2,40	4	72	ø3,00
5	902	ø0,53	5	266	ø1,26	5	72	ø3,00			

Optical accessories

HONEYCOMB LOUVER

TYPE	ø-H (mm)	ORDER CODE
honeycomb louver	50-3	0 0 7 - 1 9 6 5 1 9 8

Inspiration

Autosalon
Paris, France

ARCHITECT
Schmidhuber Brand Experience GmbH
Munich, Germany

PRODUCT
CANYON 15 recessed
BO 55 basic





BO 70

basic / focus

xal.com/bo



Quickinfo

GENERAL

track light
IP 20

LED

COB LED module
up to 88 lm/W
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 18°, 24°, 36°, 58°
beam angle (focus) 17–47°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschienenstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; optimiert für Einbau in einem CANYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000 h Lebensdauer; BO 70 basic: hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit vier verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; BO 70 focus: inkl. hochwertiger plan-konvexer Glaslinse; exakte Objekt-Fokussierung durch justierbare Linse; Ausstrahlwinkel von 17-47° einstellbar; Fokussierung mittels gummiertem Verstellring am Strahlerkopf; Schutzart IP 20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; surface powder coated in white or black; spot-light head 355° rotatable and 180° tiltable; optimised for installation in CANYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; BO 70 basic: high quality aluminium reflector with spherical facet finish; high-gloss anodised; precise radiation characteristic with four different beam angles; installed and exchanged without tools; BO 70 focus: incl. high quality plano-convex glass lens; precise object focusing through adjustable lens; adjustable beam angle of 17-47°; focusing by means of rubberised adjusting ring on the spotlight head; protection class IP 20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON 50
offset

[page 736](#)



CANYON 50
surface / susp.

[page 740](#)



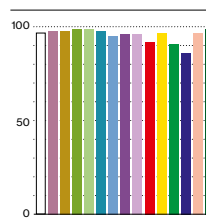
Features



optimised adaptor for
CANYON 50



adjustable beam angle
17–47° (BO 70 focus)



CRI ≥ 90 (R9 > 90)

Standard configuration

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ⬆
non DIM 1

MATERIAL COLOUR ▣
white 7
black 8



BEAM ANGLE ▲
flood 36° F

Extended configuration

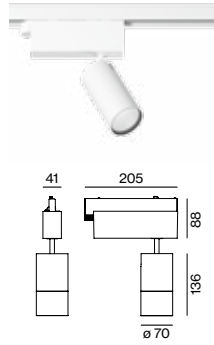
COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ⬆
DIM DALI 3

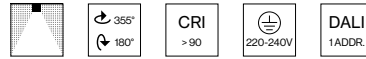
MATERIAL COLOUR ▣
white/black adaptor housing P

P
+5% surcharges

BEAM ANGLE ▲
spot 18° S
medium 24° M
wide flood 58° W



BO 70 basic



SYSTEM POWER **COLOUR TEMP.** **LUMINOUS FLUX** **ORDER CODE**
26 W 3000 K 2180lm 0 5 3 - 3 2 4 1 ⋮ ⬆ ▲
4000 K 2330lm

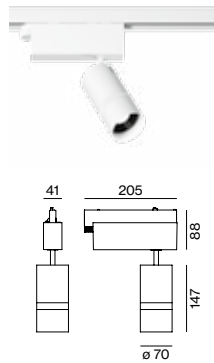
luminous flux spot 18°

LIGHT DISTRIBUTION for 26 W, 3000 K

spot 18°			medium 24°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	13907	ø0,31	1	9006	ø0,42	1	5279	ø0,65
2	3476	ø0,62	2	2251	ø0,84	2	1319	ø1,31
3	1545	ø0,93	3	1000	ø1,27	3	586	ø1,96
4	869	ø1,24	4	562	ø1,69	4	329	ø2,61
5	556	ø1,55	5	360	ø2,11	5	211	ø3,27

wide flood 58°

h (m)	E (lx)	ø (m)
1	2223	ø1,12
2	555	ø2,24
3	247	ø3,35
4	138	ø4,47
5	88	ø5,59



BO 70 focus



SYSTEM POWER **COLOUR TEMP.** **LUMINOUS FLUX** **ORDER CODE**
23 W 3000 K 1260lm 0 5 3 - 3 4 4 1 ⋮ ⬆ ▲
4000 K 1360lm

LIGHT DISTRIBUTION for 3000 K

min. angle 17°			max. angle 47°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	5316	ø0,30	1	2187	ø0,87
2	1329	ø0,60	2	546	ø1,74
3	590	ø0,89	3	243	ø2,60
4	332	ø1,19	4	136	ø3,47
5	212	ø1,49	5	87	ø4,34

Inspiration

Taschen Store
Berlin, Germany

ARCHITECT

SPIESS Interior Design
Dresden, Germany

LIGHTING DESIGN

Salvatore Licitra
Alberto Stampanoni
Milan, Italy

PRODUCT

TRACK 3-phase recessed
BO 70 basic





BO 70

shutter / iris / gobo

xal.com/bo



Quickinfo

GENERAL

track light
IP 20

LED

COB LED module
up to 1512 cd
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
form illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschiennenstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; Strahlerkopf 355° dreh- und 180° schwenkbar; optimiert für Einbau in einem CANYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Konturstrahler für exakte rechteckige oder runde Formgebung; einfache Einstellung durch 4 Abschattenelemente oder durch irisförmige Abschatter aus Edelstahl; inkl. hochwertiger bikonvexer Glaslinse; scharfe Objekt-Fokussierung durch justierbare Linse; Fokussierung mittels gummiertem Verstellring am Strahlerkopf; Schutzart IP 20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; surface powder coated in white or black; spotlight head 355° rotatable and 180° tiltable; optimised for installation in CANYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; contour spotlight for precise rectangular or round shape; easy adjustment by 4 shading elements or by iris-shaped shade made of stainless steel; incl. high quality bi-convex glass lens; sharp object focusing through adjustable lens; focus using rubber adjustment ring on spotlight head; protection class IP 20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON 50
offset

[page 736](#)



CANYON 50
surface / susp.

[page 740](#)



Features



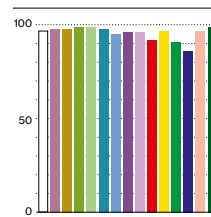
optimised adaptor for
CANYON 50



shutter element
(BO 70 shutter)



adjustable lens



CRI ≥ 90 (R9 > 90)

Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆◆
non DIM 1

MATERIAL COLOUR ■
white 7
black 8



Extended configuration

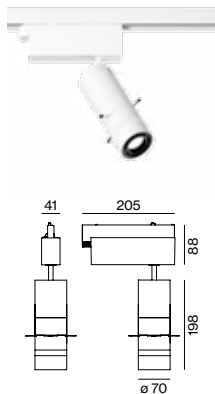
COLOUR TEMPERATURE ◆◆
4000K 6

CONTROL ◆◆
DIM DALI 3

MATERIAL COLOUR ■
white/black adaptor housing P



+5% surcharges



BO 70 shutter



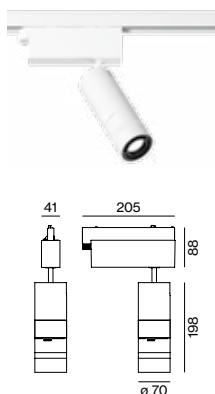
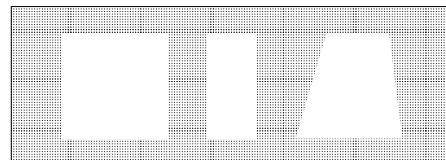
SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
23 W	3000 K	1375 cd	0 5 3 - 3 7 4 1 ◆◆ ■ ■
	4000 K	1476 cd	

illuminance (lm) = luminous intensity (cd) / distance (m)²

LIGHT DISTRIBUTION 3000 K

adjustable possible forms of illumination

h (m)	E (lx)	ø (m)
1	1196	ø 0,56
2	299	ø 1,12
3	132	ø 1,68
4	74	ø 2,24
5	47	ø 2,79



BO 70 iris



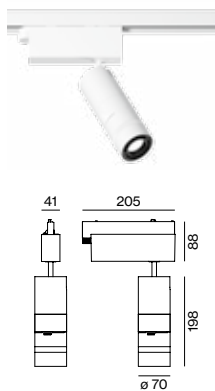
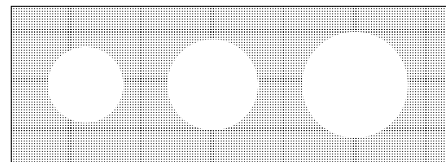
SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
23 W	3000 K	1409 cd	0 5 3 - 3 8 4 1 ◆◆ ■ ■
	4000 K	1512 cd	

illuminance (lm) = luminous intensity (cd) / distance (m)²

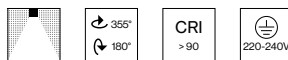
LIGHT DISTRIBUTION for 3000 K

adjustable possible forms of illumination

h (m)	E (lx)	ø (m)
1	1363	ø 0,57
2	340	ø 1,13
3	151	ø 1,70
4	85	ø 2,26
5	54	ø 2,83



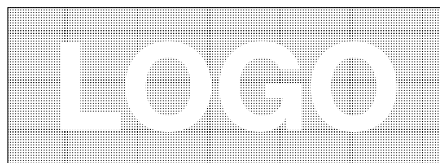
BO 70 gobo



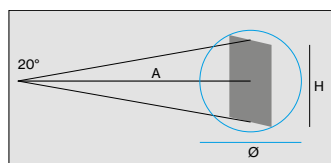
SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
14 W	3000 K	-	on request
	4000 K	-	

LIGHT DISTRIBUTION

possible forms of illumination



Illumination size



A (mm)	H (mm)	ø (mm)
1000	396	560
2000	792	1120
3000	1188	1680

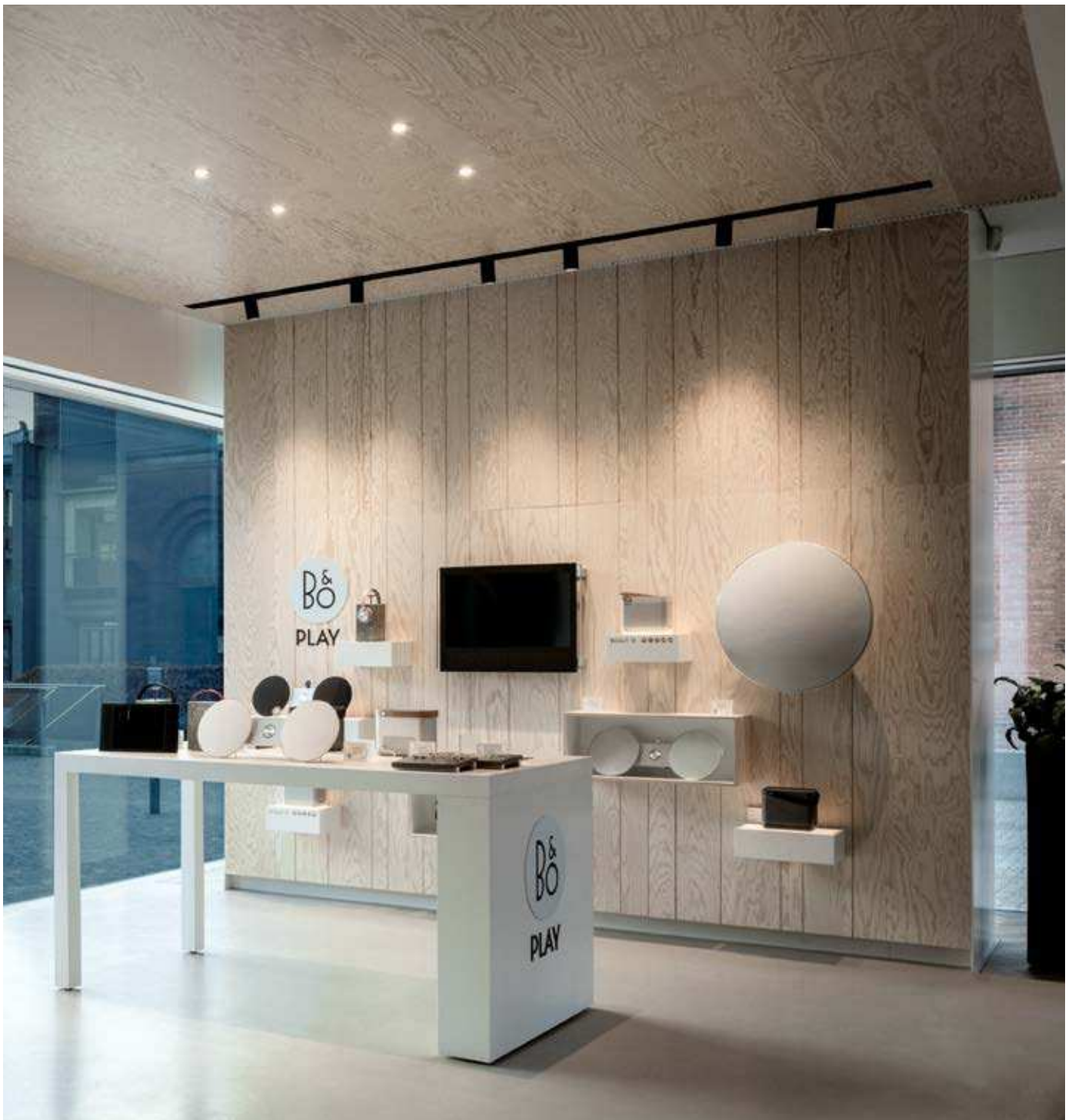
Inspiration

BANG & OLUFSEN
Herning, Denmark

PRODUCT
CANYON 50 offset
BO 70 shutter track

ARCHITECT
Johannes Torpe Studio
Copenhagen, Denmark

LIGHTING DESIGN
SENSA by Thomas Skovby
Frederiksberg, Denmark

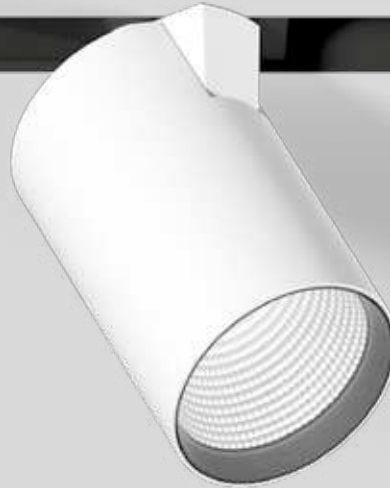




TIMO 80

free

xal.com/timo-80-free



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 130 lm/W
3000 K, 4000 K
CRI ≥ 80, CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 19°, 28°, 37°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschiennenstrahler aus Aluminiumdruckguss; 355° dreh- und 90° ausschwenkbar; optimiert für Einbau in einem CANYON 50 Kanal, Adapter verschwindet im Kanal; Oberfläche weiß oder schwarz pulverbeschichtet; Konverter im Kunststoffadapter integriert; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80 oder CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP 20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; 355° rotatable and 90° tiltable outward; optimised for installation in CANYON 50 channel, adapter disappears into channel; surface powder coated in white or black; Integrated converter in the plastic adapter; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80 or CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

Features



optimised adaptor for
CANYON 50

CANYON 50
offset
[page 736](#)



CANYON 50
surface / susp.
[page 740](#)



Standard configuration

COLOUR RENDERING INDEX +
CRI ≥ 80 3

COLOUR TEMPERATURE ::
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ☑
white 7
black 8



BEAM ANGLE ▲
flood 37° F

Extended configuration

COLOUR RENDERING INDEX +
CRI ≥ 90 (only 3000K) 4

COLOUR TEMPERATURE ::
4000K 6

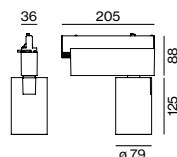
CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ☑
white/black adaptor housing P

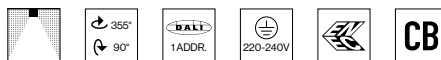


+5% surcharges

BEAM ANGLE ▲
spot 19° S
medium 28° M



TIMO 80 free



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19W	3000K	2390lm	0 5 3 - 0 3 + 0 :: ◆ ▲
	4000K	2470lm	
29W	3000K	3310lm	0 5 3 - 0 3 + 1 :: ◆ ▲
	4000K	3420lm	

luminous flux spot 19°

LIGHT DISTRIBUTION for 29W, 3000K

spot 19°			medium 28°			flood 37°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	15485	ø0,34	1	11068	ø0,50	1	7705	ø0,66
2	3871	ø0,68	2	2767	ø1,00	2	1926	ø1,32
3	1720	ø1,02	3	1229	ø1,50	3	856	ø1,99
4	967	ø1,36	4	691	ø2,00	4	481	ø2,65
5	619	ø1,70	5	442	ø2,50	5	308	ø3,31

Optical accessories

LENSES AND HONEYCOMB LOUVER



TYPE	Ø-H (mm)	ORDER CODE
linear prismatic lens	72·3	0 0 6 - 9 2 2 0 7
honeycomb louver	72·3	0 0 6 - 9 3 1 0 2

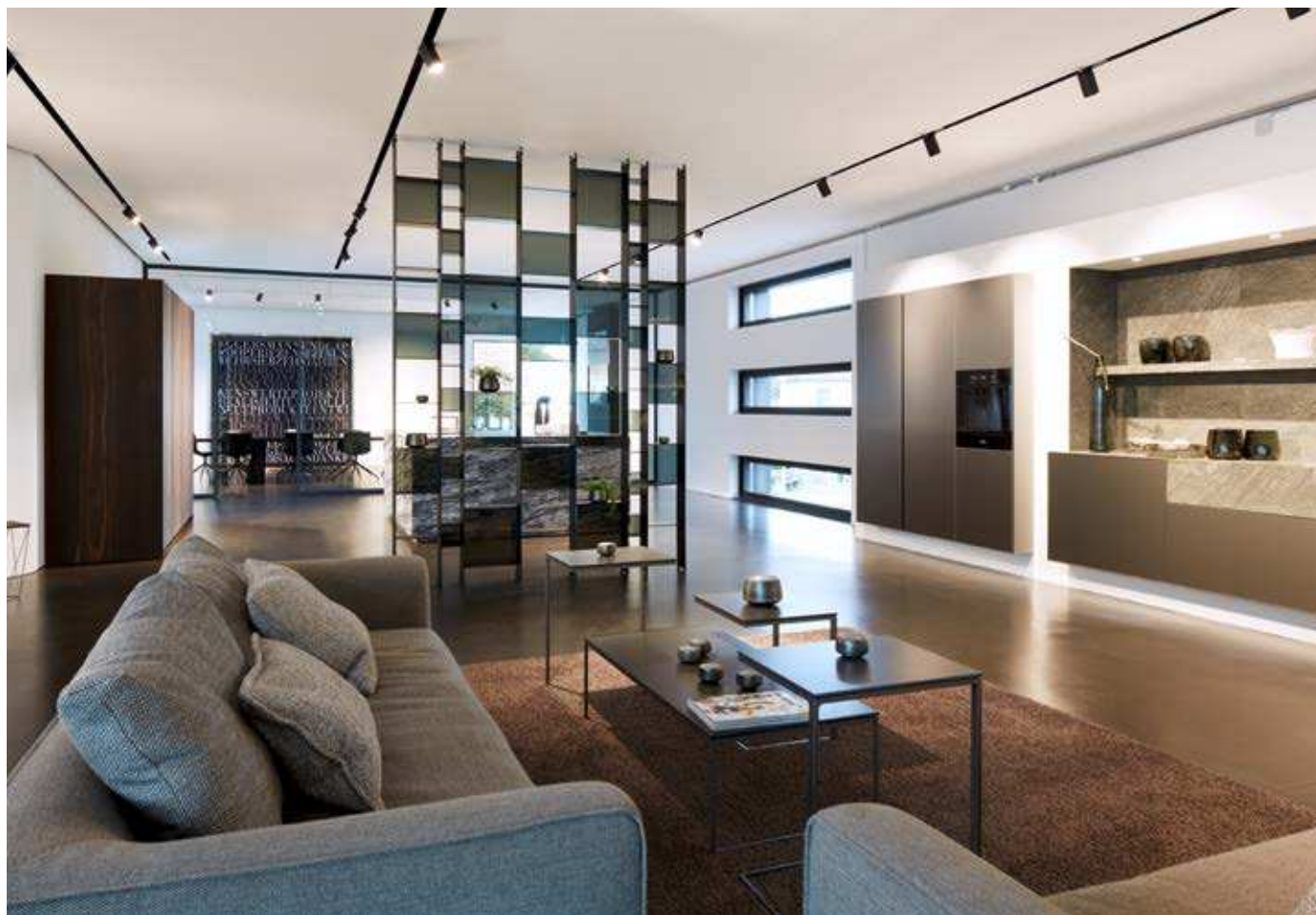
Inspiration

Eggersmann Küchen
Hiddenhausen, Germany

PRODUCT
CANYON 50 offset
TIMO 80 free

ARCHITECT
BKS Architekten
Lübbecke, Germany





Inspiration

Puma Store
London, United Kingdom

PRODUCT
TRACK 3-phase suspended
TIMO 80 free

ARCHITECT
Plajer & Franz Studio
Berlin, Germany





Inspiration

My Duty Free Munich Airport
Munich, Germany

PRODUCT
CANYON 50 offset
TIMO 80 free

ARCHITECT
Gruschwitz
Munich, Germany





KIS

xal.com/kis



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 68 lm/W
3000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 21°, 36°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschiennenstrahler aus Aluminiumdruckguss; 355° dreh- und 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optimiert für Einbau in einem CANYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; 355° rotatable and 85° tiltable; surface powder coated in white or black; optimised for installation in CANYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality single lens; precise radiation characteristic with two different beam angles; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON 50
offset

[page 736](#)



CANYON 50
surface / susp.

[page 740](#)



Features



optimised adaptor for
CANYON 50



high quality lens

Standard configuration

COLOUR TEMPERATURE

3000K 5

CONTROL ▶

non DIM 3

MATERIAL COLOUR ■

white/black adaptor housing P



BEAM ANGLE ▲

flood 36° F

Extended configuration

CONTROL ▶

DIM DALI 2

MATERIAL COLOUR ■

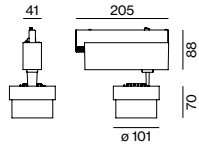
black 8



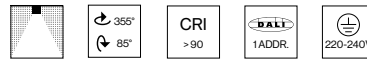
+5% surcharges

BEAM ANGLE ▲

medium 21° M



KIS



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	810 lm	0 4 9 - 1 7 2 1 5 ▶▲
16 W	3000 K	1080 lm	0 4 9 - 1 7 2 2 5 ▶▲

luminous flux medium 23°

LIGHT DISTRIBUTION for 16 W

medium 21°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	6221	ø 0,36	1	1484	ø 0,65
2	1555	ø 0,73	2	371	ø 1,30
3	691	ø 1,09	3	164	ø 1,95
4	388	ø 1,46	4	92	ø 2,60
5	248	ø 1,82	5	59	ø 3,25

Inspiration

Public Building
Visualisation

PRODUCT
CANYON 50 offset
KIS





ARGO

xal.com/argo



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 102 lm/W
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
beam angle 14°, 25°, 41°
optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
polycarbonate driver housing

Description

DE Stromschiennenstrahler aus Aluminium-druckguss; 365° dreh- und 90° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; optimiert für Einbau in einem CANYON 50 Kanal, Adapter verschwindet im Kanal; Konverter im Kunststoffadapter integriert; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; 365° rotatable and 90° tiltable; surface powder coated in white or black; optimised for installation in CANYON 50 channel, adapter disappears into channel; Integrated converter in the plastic adapter; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; high quality single lens; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

CANYON 50
offset

[page 736](#)



CANYON 50
surface / susp.

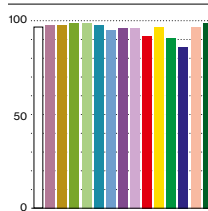
[page 740](#)



Features



optimised adaptor for
CANYON 50



CRI ≥ 90 (R9 > 90)

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
non DIM 1

MATERIAL COLOUR ▣
white 7



BEAM ANGLE ▲
medium 25° M

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR ▣
black 8
white/black adaptor housing P



+5% surcharges

BEAM ANGLE ▲
spot 14° S
flood 41° F

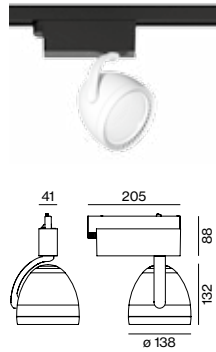
Options on request

SPECIAL COLOUR

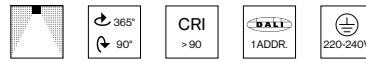
vogue	CRI ≥ 90
gallery	CRI 98
gourmet	CRI ≥ 80
fresh meat & fish	CRI ≥ 80
pastry	CRI ≥ 80
brilliant white	CRI ≥ 90

REFLECTOR

wide flood 58°



ARGO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2670 lm	0 5 3 - 8 1 3 0 ⬢⬢ ▲
44 W	3000 K	3590 lm	0 5 3 - 8 1 3 1 ⬢⬢ ▲
	4000 K	3850 lm	

luminous flux medium 25°

LIGHT DISTRIBUTION for 44W, 3000K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32065	ø0,24	1	14573	ø0,44	1	6431	ø0,74
2	8016	ø0,49	2	3643	ø0,87	2	1607	ø1,48
3	3562	ø0,73	3	1619	ø1,31	3	714	ø2,22
4	2004	ø0,97	4	910	ø1,75	4	401	ø2,96
5	1282	ø1,21	5	582	ø2,18	5	257	ø3,70

Optical accessories

LENSES AND HONEYCOMB LOUVER



TYPE	Ø-H (mm)	ORDER CODE
sculpture lens	105/3	0 0 6 - 9 2 2 3 7
flood lens clear	105/3	0 0 6 - 9 2 2 3 8
honeycomb louver	105/3	0 0 6 - 9 3 1 3 2

ANTI-GLARE ADAPTOR



TYPE	Ø-H (mm)	ORDER CODE
white 65°	106/65	0 0 5 - 0 7 1 0 7
black 65°	106/65	0 0 5 - 0 7 1 0 8
white	106/65	0 0 5 - 0 7 1 1 7
black	106/65	0 0 5 - 0 7 1 1 8

Inspiration

Kastner & Öhler
Ried im Innkreis, Austria

PRODUCT
TRACK 3-phase suspended
ARGO

ARCHITECT
BLOCHER BLOCHER Partners
Stuttgart, Germany

LIGHTING DESIGN
VEDDER.LICHTMANAGEMENT
Munich, Germany





PABLO

basic/focus

xal.com/pablo



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 91lm/W
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 2 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL BASIC

direct illumination
beam angle 6, 12, 24, 39, 58°, asym.
beam angle (focus) 17–47°

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Stromschiennenstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; 342° dreh- und 310° schwenkbar; Konverter im Strahlergehäuse aus Aluminium verbaut; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 2 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; PABLO basic: hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit fünf verschiedenen Ausstrahlwinkeln oder einer asymmetrischen Lichtverteilung; werkzeuglos einsetz- bzw. austauschbar; PABLO focus: inkl. hochwertiger plan-konvexer Glaslinse; exakte Objekt-Fokussierung durch justierbare Linse; Ausstrahlwinkel von 17–47° einstellbar; Fokussierung mittels gummiertem Verstellring am Strahlerkopf; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; surface powder coated in white or black; 342° rotatable and 310° tiltable; Converter installed in aluminium spotlight housing; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 2 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 90; min. 80 % of the luminous flux after 50000 hours; PABLO basic: high quality aluminium reflector with spherical facet finish; high-gloss anodised; precise light distribution with five different beam angles or asymmetrical light distribution; installed and exchanged without tools; PABLO focus: incl. high quality plano-convex glass lens; precise object focusing through adjustable lens; adjustable beam angle of 17–47°; focusing by means of rubberised adjusting ring on the spotlight head; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

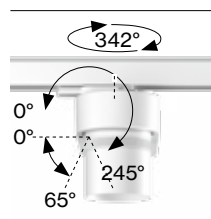
Features



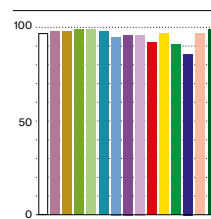
adjustable beam angle 17–47° (PABLO focus)



asymmetric illumination



342° rotatable and 245°/65° tiltable



CRI ≥ 90 (R9 > 90)
≤ 2 step MacAdam

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
non DIM 1

MATERIAL COLOUR ▣
white 7

7

REFLECTOR ▲
flood 39° F

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
DIM DALI 3

MATERIAL COLOUR ▣
black 8

8

+5% surcharges

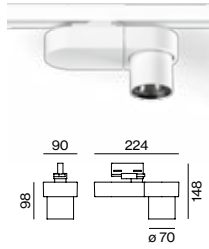
REFLECTOR ▲

super spot 6° (only for 11W)	V
spot 12°	S
medium 24°	M
wide flood 58°	W
wallwasher	A

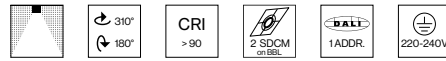
Options on request

REFLECTOR

oval flood



PABLO basic



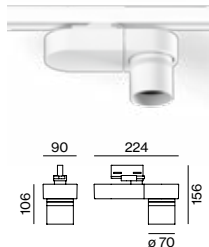
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000K	620lm	0 8 0 - 5 1 1 0 ⬢⬢ ▣ ▲ V
14 W	4000K	670lm	0 8 0 - 5 1 1 0 ⬢⬢ ▣ ▲
26 W	3000K	1190lm	0 8 0 - 5 1 1 1 ⬢⬢ ▣ ▲
	4000K	1270lm	
		1950lm	
		2080lm	

luminous flux spot 12°

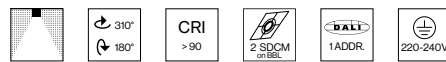
LIGHT DISTRIBUTION for 26W, 3000K

super spot 6°			spot 12°			medium 24°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	42903	ø0,10	1	23958	ø0,20	1	7827	ø0,42
2	10725	ø0,21	2	5989	ø0,40	2	1956	ø0,84
3	4767	ø0,31	3	2662	ø0,60	3	869	ø1,27
4	2681	ø0,41	4	1497	ø0,81	4	489	ø1,69
5	1716	ø0,51	5	958	ø1,01	5	313	ø2,11

flood 39°			wide flood 58°			wallwasher		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	3627	ø0,70	1	2223	ø1,12	1	1163	ø1,18
2	906	ø1,41	2	555	ø2,24	2	290	ø2,36
3	403	ø2,11	3	247	ø3,35	3	129	ø3,54
4	226	ø2,82	4	138	ø4,47	4	72	ø4,72
5	145	ø3,52	5	88	ø5,59	5	46	ø5,90



PABLO focus



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000K	890lm	0 8 0 - 5 2 1 0 ⬢⬢ ▣ ▲
23 W	4000K	960lm	0 8 0 - 5 2 1 1 ⬢⬢ ▣ ▲
	3000K	1260lm	
	4000K	1360lm	

LIGHT DISTRIBUTION for 23W, 3000K

min. angle 17°			max. angle 47°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	5316	ø0,30	1	2187	ø0,87
2	1329	ø0,60	2	546	ø1,74
3	590	ø0,89	3	243	ø2,60
4	332	ø1,19	4	136	ø3,47
5	212	ø1,49	5	87	ø4,34

Inspiration

Private Gallery
Graz, Austria

PRODUCT
TRACK 3-phase surface
PABLO focus





PABLO

shutter/ iris/ gobo

xal.com/pablo



Quickinfo

GENERAL

track light
IP20

LED

COB LED module
up to 1463 cd
3000 K, 4000 K
CRI ≥ 90
Binning initial ≤ 2 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination
form illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated

Description

DE Stromschienenstrahler aus Aluminiumdruckguss; Oberfläche weiß oder schwarz pulverbeschichtet; 342° dreh- und 310° schwenkbar; Konverter im Strahlergehäuse aus Aluminium verbaut; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 2 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Konturstrahler für exakte rechteckige oder runde Formgebung; einfache Einstellung durch 4 Abschattenelemente oder durch irisförmige Abschatter aus Edelstahl; inkl. hochwertiger bikonvexer Glaslinse; scharfe Objekt-Fokussierung durch justierbare Linse; Fokussierung mittels gummiertem Verstellring am Strahlerkopf; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; surface powder coated in white or black; 342° rotatable and 310° tiltable; Converter installed in aluminium spotlight housing; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 2 MacAdam; available in the light colours 3000K and 4000 K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; contour spotlight for precise rectangular or round shape; easy adjustment by 4 shading elements or by iris-shaped shade made of stainless steel; incl. high quality bi-convex glass lens; sharp object focusing through adjustable lens; focus using rubber adjustment ring on spotlight head; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

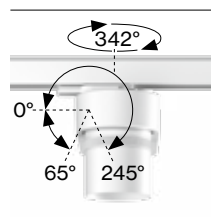
Features



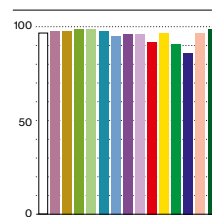
shutter element
(PABLO shutter)



adjustable lens



342° rotatable and
245°/65° tiltable



CRI ≥ 90 (R9 > 90)
≤ 2 step MacAdam

Standard configuration

COLOUR TEMPERATURE ⋮
3000 K 5

CONTROL ⬆
non DIM 1

MATERIAL COLOUR ☑
white 7



Extended configuration

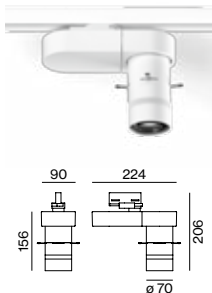
COLOUR TEMPERATURE ⋮
4000 K 6

CONTROL ⬆
DIM DALI 3

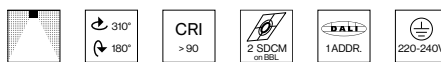
MATERIAL COLOUR ☑
black 8



+5% surcharges



PABLO shutter



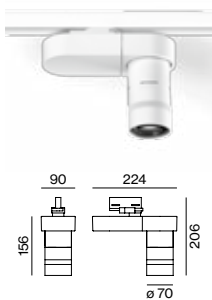
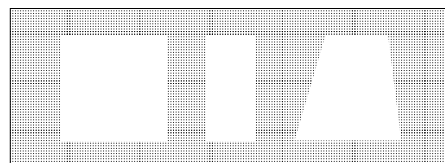
SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
14 W	3000 K	823 cd	0 8 0 - 5 3 1 0 ⋮ ⬆ ☑
	4000 K	883 cd	
23 W	3000 K	1197 cd	0 8 0 - 5 3 1 1 ⋮ ⬆ ☑
	4000 K	1284 cd	

illuminance (lm) = luminous intensity (cd) / distance (m)²

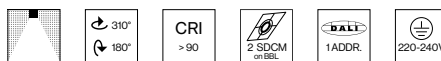
LIGHT DISTRIBUTION for 23W, 3000K

adjustable possible forms of illumination

h (m)	E (lx)	ø (m)
1	1196	ø0,56
2	299	ø1,12
3	132	ø1,68
4	74	ø2,24
5	47	ø2,79



PABLO iris



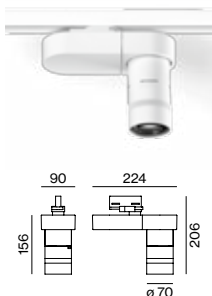
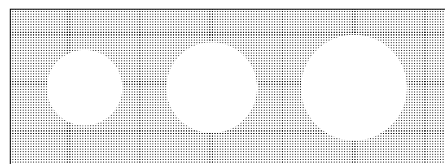
SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
14 W	3000 K	937 cd	0 8 0 - 5 4 1 0 ⋮ ⬆ ☑
	4000 K	1006 cd	
23 W	3000 K	1363 cd	0 8 0 - 5 4 1 1 ⋮ ⬆ ☑
	4000 K	1463 cd	

illuminance (lm) = luminous intensity (cd) / distance (m)²

LIGHT DISTRIBUTION for 23W, 3000K

adjustable possible forms of illumination

h (m)	E (lx)	ø (m)
1	1363	ø0,57
2	340	ø1,12
3	151	ø1,70
4	85	ø2,26
5	54	ø2,83



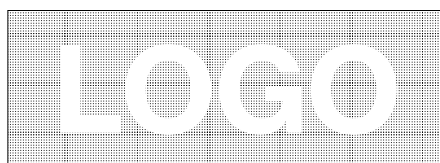
PABLO gobo



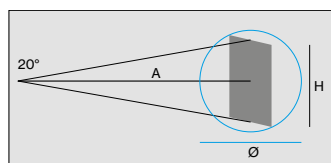
SYSTEM POWER	COLOUR TEMP.	LUM. INTENSITY	ORDER CODE
14 W	3000 K	-	on request
	4000 K	-	

LIGHT DISTRIBUTION

possible forms of illumination



Illumination size



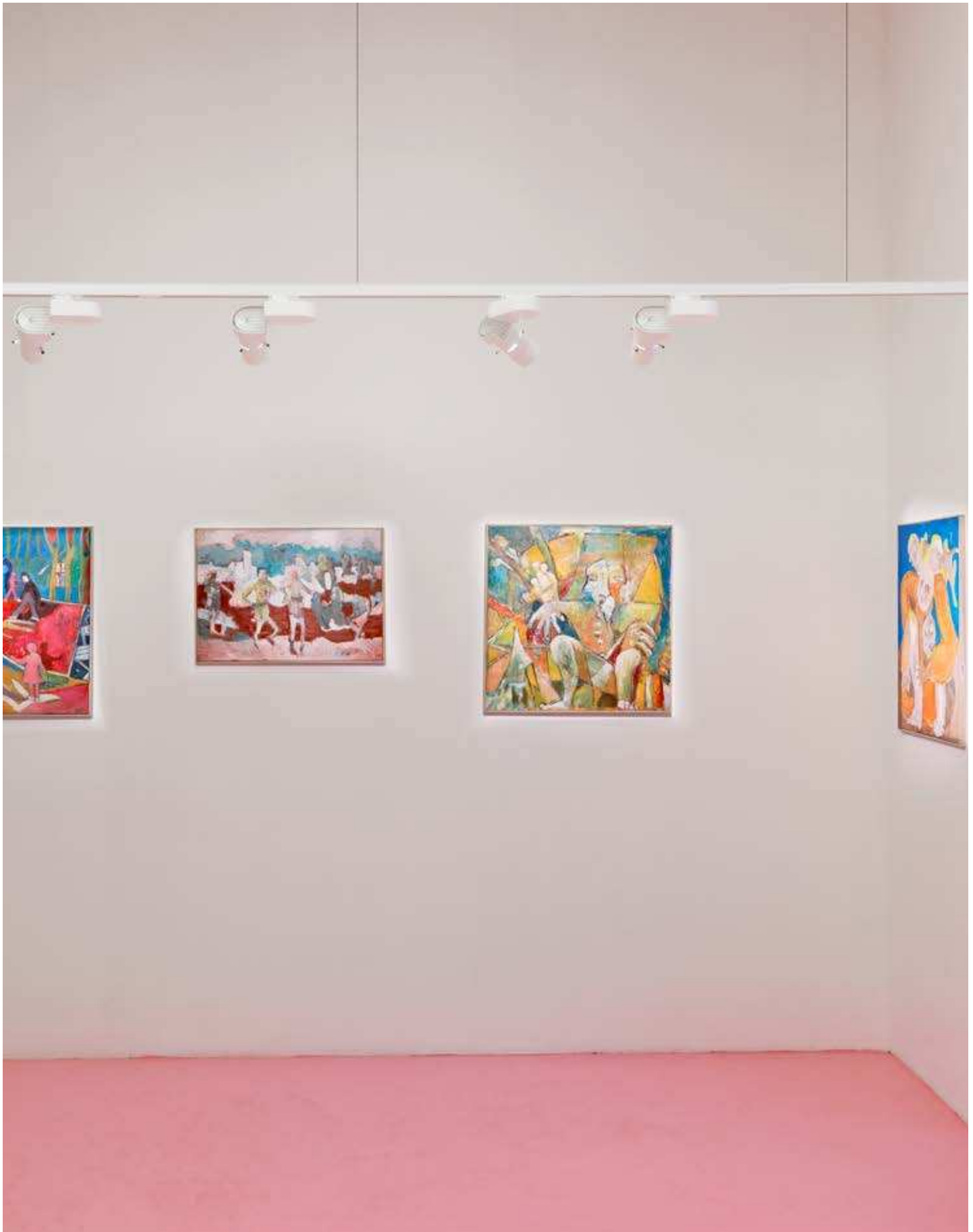
A (mm)	H (mm)	ø (mm)
1000	396	560
2000	792	1120
3000	1188	1680

Inspiration

Gallery Ursula Stross
Graz, Austria

PRODUCT
TRACK 3-phase suspended
PABLO iris
PABLO shutter





VARO

xal.com/varo



Quickinfo

GENERAL

track light

IP20

mounting accessories

LED

COB LED module

up to 100lm/W

3000K, 4000K

CRI ≥ 90

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000h

OPTICAL

direct illumination

beam angle 14°, 23°, 39°

optical accessories

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

TRACK

[page 744](#)



Description

DE Stromschienstrahler aus Aluminiumdruckguss; Oberfläche weiß, grau oder schwarz pulverbeschichtet; 355° dreh- und 90° schwenkbar; Konverter im Strahlergehäuse aus Aluminium verbaut; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Powerswitch (2 verschiedene Leistungsstufen) am Strahler einstellbar; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Reflektor mit sphärischer Facettenoptik; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschielen

EN Track light made of die-cast aluminium; surface powder coated in white, grey or black; 355° rotatable and 90° tiltable; Converter installed in aluminium spotlight housing; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; powerswitch (2 levels) controllable on the spotlight; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality reflector with spherical facet finish; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks

Features



power switch

Standard configuration

COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL
non DIM 1

MATERIAL COLOUR ▣
white 7

7

BEAM ANGLE ▲
flood 39° F

Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

MATERIAL COLOUR ▣
grey 6
black 8

6 8

+5% surcharges

BEAM ANGLE ▲
spot 14° S
medium 23° M

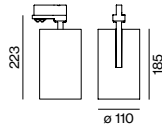
Options on request

SPECIAL COLOUR

vogue	CRI ≥ 90
gallery	CRI 98
gourmet	CRI ≥ 80
fresh meat & fish	CRI ≥ 80
pastry	CRI ≥ 80
brilliant white	CRI ≥ 90

REFLECTOR

wide flood 67°



VARO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
33/44 W	3000 K	3020 / 3590 lm	0 8 0 - 6 1 1 0 ⬢⬢ 1 ▣ ▲
	4000 K	3260 / 3870 lm	

luminous flux medium 25°

LIGHT DISTRIBUTION for 44 W, 3000 K

spot 14°			medium 23°			flood 39°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	24643	ø 0,25	1	13272	ø 0,41	1	6798	ø 0,72
2	6160	ø 0,50	2	3318	ø 0,82	2	1699	ø 1,43
3	2738	ø 0,75	3	1474	ø 1,24	3	755	ø 2,15
4	1540	ø 1,00	4	829	ø 1,65	4	424	ø 2,87
5	985	ø 1,25	5	530	ø 2,06	5	271	ø 3,58

Optical accessories

LENSES AND HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
honeycomb louver	95/3	0 0 6 - 9 3 1 3 0

Inspiration

Vendrella Store
Munich, Germany

ARCHITECT
Gruschwitz
Munich, Germany

PRODUCT
TRACK 3-phase suspended
VARO





STUDIO

xal.com/studio



Quickinfo

GENERAL

track light

IP20

mounting accessories

LED

COB LED module

up to 104lm/W

3000K, 4000K

CRI ≥ 90

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination

beam angle 14°, 25°, 41°

optical accessories

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

Description

DE Stromschiennenstrahler aus Aluminiumdruckguss; Konverter im Strahlergehäuse aus Aluminium verbaut; Strahler 355° drehbar; Strahlerkopf 85° schwenkbar; Oberfläche weiß, grau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; optional DALI-dimmbar

EN Track light made of die-cast aluminium; Converter installed in aluminium spotlight housing; spotlight rotatable 355°; spotlight head tiltable 85°; surface powder coated in white, grey or black; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 90; min. 80% of the luminous flux after 50000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable

TRACK

[page 744](#)



Standard configuration

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆
non DIM 1

MATERIAL COLOUR ■
white 7



BEAM ANGLE ▲
flood 41° F

Extended configuration

COLOUR TEMPERATURE ◆◆
4000K 6

CONTROL ◆
DIM DALI 3

MATERIAL COLOUR ■
grey 6
black 8



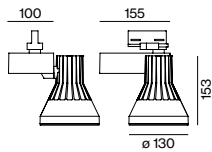
+5% surcharges

BEAM ANGLE ▲
spot 14° S
medium 25° M

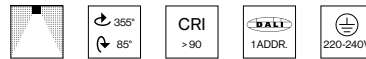
Options on request

SPECIAL COLOUR
vogue CRI ≥ 90
gallery CRI 98
gourmet CRI ≥ 80
fresh meat & fish CRI ≥ 80
pastry CRI ≥ 80
brilliant white CRI ≥ 90

REFLECTOR
wide flood 58°



STUDIO



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
29 W	3000 K	2780 lm	0 5 3 - 7 9 2 1 ◆◆ ▲
44 W	3000 K	3590 lm	0 5 3 - 7 9 2 2 ◆◆ ▲
	4000 K	2980 lm	
	4000 K	3850 lm	

luminous flux medium 25°

LIGHT DISTRIBUTION for 44W, 3000K

spot 14°			medium 25°			flood 41°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	32065	ø 0,24	1	14573	ø 0,44	1	6431	ø 0,74
2	8016	ø 0,49	2	3643	ø 0,87	2	1607	ø 1,48
3	3562	ø 0,73	3	1619	ø 1,31	3	714	ø 2,22
4	2004	ø 0,97	4	910	ø 1,75	4	401	ø 2,96
5	1282	ø 1,21	5	582	ø 2,18	5	257	ø 3,70

Optical accessories

LENSES AND HONEYCOMB LOUVER



TYPE	Ø-H (mm)	ORDER CODE
sculpture lens	105/3	0 0 6 - 9 2 2 3 7
flood lens clear	105/3	0 0 6 - 9 2 2 3 8
honeycomb louver	105/4	0 0 6 - 9 3 1 3 2

Mounting accessories

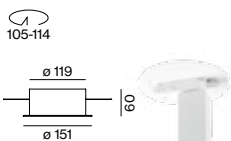
SURFACE HOUSING / POINT OUTLET



COLOUR	ORDER CODE
grey	3 8 6 - 0 7 2 2 8 6
white	3 8 6 - 0 7 2 2 8 7
black	3 8 6 - 0 7 2 2 8 8

not use with DIM DALI (on request)

RECESSED HOUSING / POINT OUTLET



ceiling thickness: 0-30 mm

COLOUR	ORDER CODE
grey	3 8 6 - 0 7 2 2 7 6
white	3 8 6 - 0 7 2 2 7 7
black	3 8 6 - 0 7 2 2 7 8

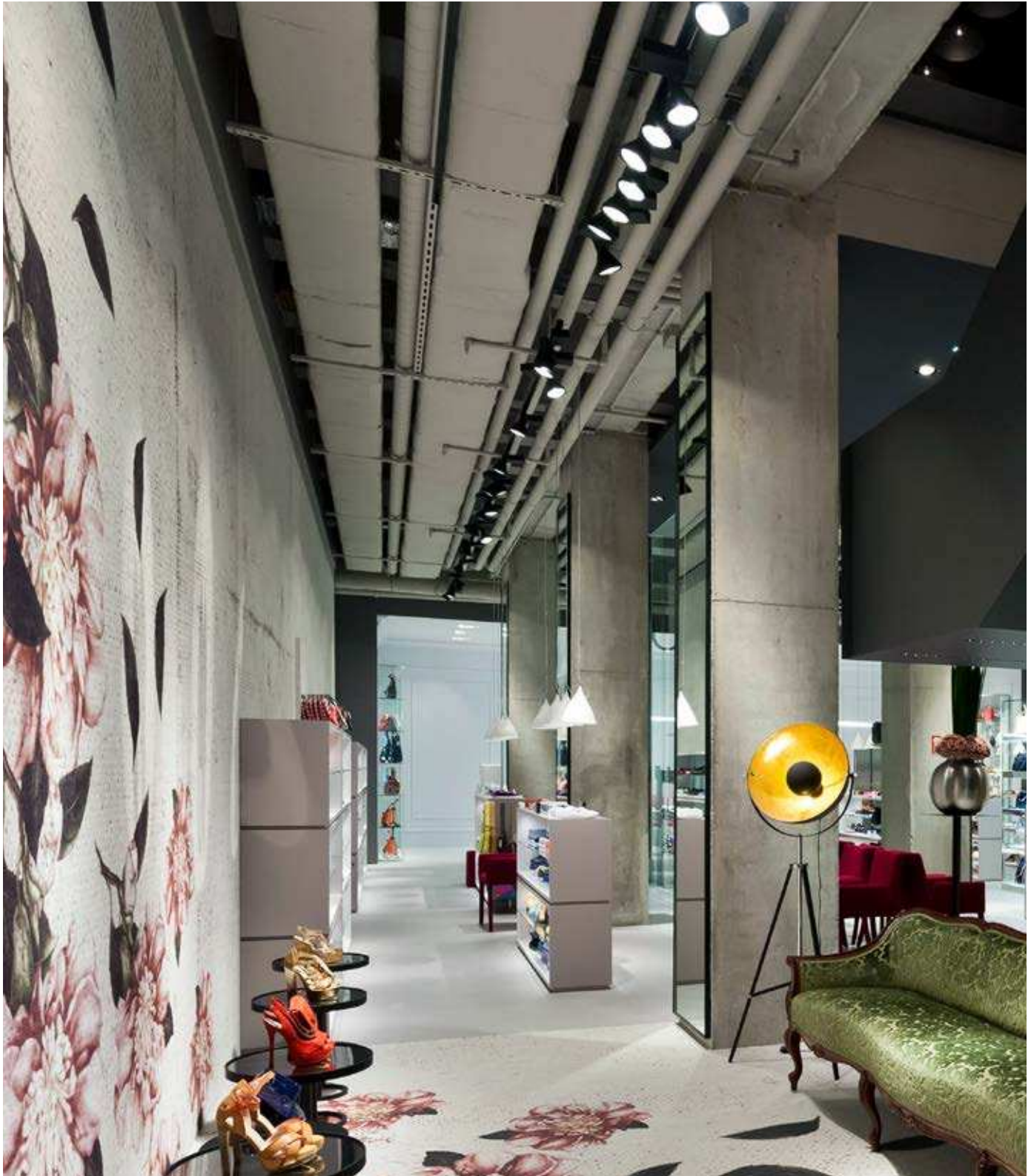
not use with DIM DALI (on request)

Inspiration

Humanic Store
Munich, Germany

PRODUCT
TRACK 3-phase surface
STUDIO

ARCHITECT
Design und Bauabteilung
Leder & Schuh AG
Mag. Hans Michael Heger
Graz, Austria





STRAIGHT

xal.com/straight



Quickinfo

GENERAL

track light

IP20

mounting accessories

LED

COB LED module

up to 86lm/W

3000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

direct illumination

beam angle 23°, 36°

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

Description

DE Stromschiennenstrahler aus Aluminium; Strahler 355° drehbar; Strahlerkopf 85° schwenkbar; Oberfläche weiß oder schwarz pulverbeschichtet; Konverter im Strahlergehäuse aus Aluminium verbaut; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; mit COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; hochwertige Einzellinse; präzise Abstrahlcharakteristik mit zwei verschiedenen Ausstrahlwinkeln; Schutzart IP20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschiennen; wahlweise nicht dimmbar oder DALI-dimmbar

EN Track spotlight in aluminium; spotlight rotatable 355°; spotlight head tilttable 85°; surface powder coated in white or black; Converter installed in aluminium spotlight housing; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; high quality single lens; precise radiation characteristic with two different beam angles; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optionally non-dimmable or DALI dimmable

TRACK

[page 744](#)



Standard configuration

COLOUR TEMPERATURE
3000 K 5

CONTROL
non DIM 6

MATERIAL COLOUR
white 7



BEAM ANGLE ▲
flood 36° F

Extended configuration

MATERIAL COLOUR
black 8



+5% surcharges

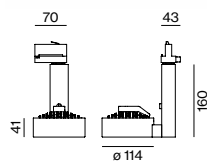
BEAM ANGLE ▲
medium 23° M

Options on request

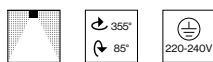
COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
2700 K

CONTROL
phase-cut DIM



STRAIGHT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000 K	1020 lm	0 8 0 - 2 6 5 6 <input checked="" type="checkbox"/> ▲
16 W	3000 K	1370 lm	0 8 0 - 2 7 5 6 <input checked="" type="checkbox"/> ▲

luminous flux medium 23°

LIGHT DISTRIBUTION for 16 W

medium 23°			flood 36°		
h (m)	E (lx)	ø (m)	h (m)	E (lx)	ø (m)
1	5369	ø 0,40	1	2484	ø 0,65
2	1342	ø 0,81	2	621	ø 1,30
3	596	ø 1,21	3	276	ø 1,95
4	335	ø 1,62	4	155	ø 2,60
5	214	ø 2,02	5	99	ø 3,25

Optical accessories

LENSES AND HONEYCOMB LOUVER



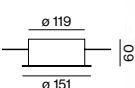
TYPE	Ø-H (mm)	ORDER CODE
sculpture lens	105-3	0 0 6 - 9 2 2 3 7
flood lens clear	105-3	0 0 6 - 9 2 2 3 8
honeycomb louver	105-3	0 0 6 - 9 3 1 3 2

Mounting accessories

SURFACE HOUSING / POINT OUTLET



COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 8 7
black	3 8 6 - 0 7 2 2 8 8



RECESSED HOUSING / POINT OUTLET

ceiling thickness: 0-30 mm

COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 7 7
black	3 8 6 - 0 7 2 2 7 8

Inspiration

Zaha Hadid
Munich, Germany

ARCHITECT
Zaha Hadid Architects
London, United Kingdom

LIGHTING DESIGN
Nelson licht design
Hamburg, Germany

PRODUCT
TRACK 3-phase suspended
STRAIGHT





STRAIGHT wallwasher

xal.com/straight



Quickinfo

GENERAL

track light

IP20

mounting accessories

LED

Mid-power LED

up to 73 lm/W

3000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

asymmetric light distribution

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

adapter plastic

TRACK

[page 744](#)



Description

DE Wandfluter aus Aluminium für Stromschienenmontage; 355° drehbar; Oberfläche weiß oder schwarz pulverbeschichtet; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; mit speziell berechnetem, asymmetrischem Reflektor für homogene vertikale Beleuchtungsstärken; Reflektor aus matt eloxiertem Reinaluminium; Schutzart IP 20; SK I; Adapter für werkzeugloses Einsetzen bzw. Verschieben in verschiedenen 3 Phasen Stromschienen; optional DALI-dimmbar

EN Wallwasher in aluminium for power track mounting; 355° rotatable; surface powder coated in white or black; passive cooling of LEDs with optimised heat sink geometry; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; with specially computed, asymmetrical reflector for homogeneous lighting intensity; reflector in matt anodised pure aluminium; protection class IP20; PC I; adapter for toolless insertion or movement on a variety of 3-phase power tracks; optional DALI dimmable or DALI dimmable

Features



pure aluminium
reflector

Standard configuration

COLOUR TEMPERATURE	
3000K	5
CONTROL	◆
non DIM	1
MATERIAL COLOUR	☑
white	7



Extended configuration

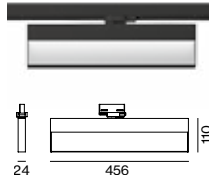
CONTROL	◆
DIM DALI	3
MATERIAL COLOUR	☑
black	8



+5% surcharges

Options on request

COLOUR RENDERING INDEX	
CRI ≥ 90	



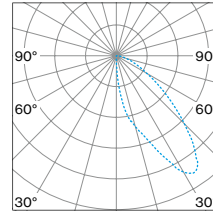
STRAIGHT wallwasher



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
22W	3000K	1590lm	0 8 0 - 4 0 5 ◆ ☑ A

LIGHT DISTRIBUTION

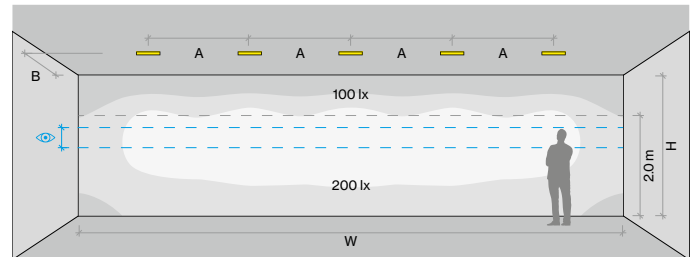
wallwasher



direct

Technical data

STRAIGHT wallwasher, 22 W, 3000 K



ROOM VALUES		CALCULATION SURFACE	
Wall dimensions	H = 2.8 m W = 10.8 m	Surface dimensions	10.8 × 2.8 m
Distance to wall	B = 1.3 m	Surface height	0 – 2.8 m
Distance between spotlights	A = 2.0 m	Eye level	1.35 m – 1.75 m
Reflection factor	0.7 0.5 0.2		
Maintenance factor	0.8		

Mounting accessories

SURFACE HOUSING / POINT OUTLET

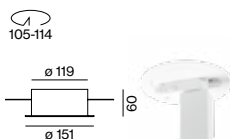
COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 8 7
black	3 8 6 - 0 7 2 2 8 8



RECESSED HOUSING / POINT OUTLET

ceiling thickness: 0-30 mm

COLOUR	ORDER CODE
white	3 8 6 - 0 7 2 2 7 7
black	3 8 6 - 0 7 2 2 7 8



Inspiration

Gallery Ursula Stross
Graz, Austria

PRODUCT

TRACK 3-phase suspended
STRAIGHT wallwasher
PABLO focus

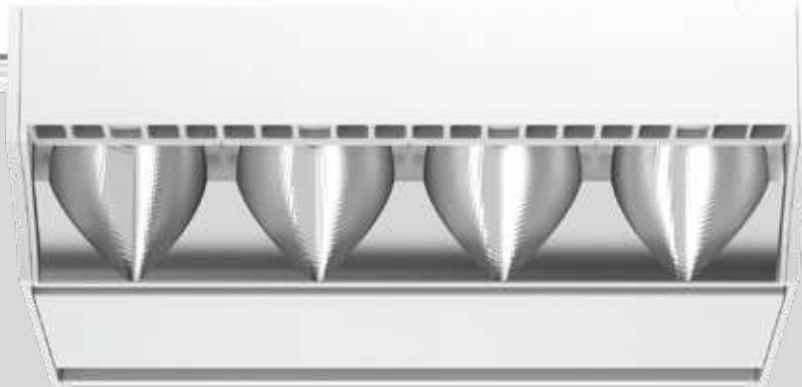




SQUADRO

wallwasher

xal.com/squadro



Quickinfo

GENERAL

tracklight

IP 20, IP 40

quick installation

LED

COB LED module

up to 14240lm

up to 119lm/W

3000K, 4000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

direct light 100%

PMMA/aluminium coated reflector
shelf/wall floor washer

ELECTRICAL

220–240V

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

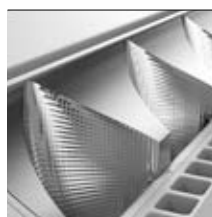
white

Description

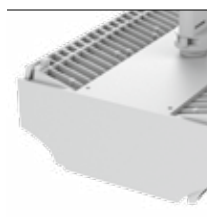
DE Stromschienstrahler aus Aluminiumdruckguss in 2 verschiedenen Varianten (4-flammig bzw. 2x4-flammig) und mit 2 verschiedenen Lichtmodulen (für shelf floor washer und wall floor washer); Oberfläche weiß oder schwarz pulverbeschichtet; Gangzonenstrahler mit speziellen Multi-Freiformflächenreflektoren mit Facettenoptik zur äußerst präzisen Lichtlenkung; punktgenaue Regal- und Gangzonenausleuchtung, optimale Längsentblendung für hohen Sehkomfort in der Gangzone, einstellbare Lichtmodule mit Verriegelung; Kühlkörper in Leuchtengeometrie für optimales Thermomanagement und passive Kühlung der LEDs integriert; COB (Chip on Board) Technologie für höchste Effizienz; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000K und 4000K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP 20; IP 40-Schutzglas als Zubehör erhältlich; SK I; optional DALI-dimbar

EN Track light in die cast aluminium in two different types (4 lamps or 2x4 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); surface powder coated in white or black; aisle spotlight with special, multi-free-form, facet effect surface reflectors for high precision light control; precise shelf and aisle zone lighting, optimum longitudinal glare control for high viewing comfort in the aisle zone, adjustable light modules with interlock; heat sink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; COB (Chip on Board) technology for maximum efficiency; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000K and 4000K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP 20; IP 40 protection glass available as an accessory; PC I; optional DALI dimmable

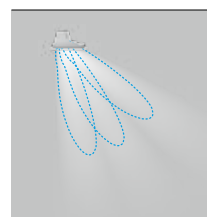
Features



microfaceting



+15° up to -15° tiltable



adjustable light module

Standard configuration

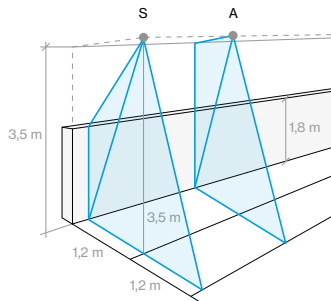
COLOUR TEMPERATURE ⬢⬢
3000K 5

CONTROL ⬢
non DIM 1

MATERIAL COLOUR
white 7



REFLECTOR ▲
shelf floor washer S
wall floor washer A



Extended configuration

COLOUR TEMPERATURE ⬢⬢
4000K 6

CONTROL ⬢
DIM DALI 3

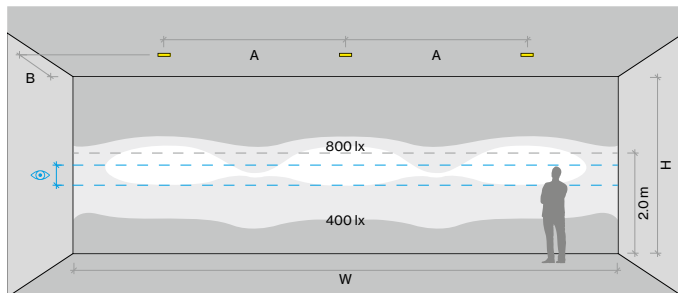
MATERIAL COLOUR ■
black 8



+5% surcharges

Technical data

SQUADRO shelf floor washer, +5° tilt, 53W, 3000K



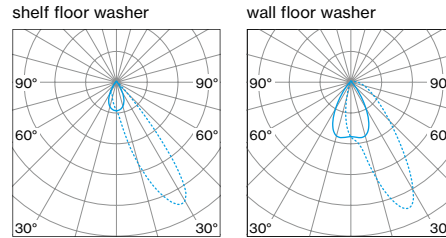
ROOM VALUES		CALCULATION SURFACE	
Wall dimensions	H = 3.5 m W = 10.8 m	Surface dimensions	10.8 × 3.5 m
Distance to wall	B = 1.3 m	Surface height	0 – 3.5 m
Distance between spotlights	A = 3.6 m	Eye level	1.35 m – 1.75 m
Aisle width	2.6 m		
Reflection factor	0.7 0.7 0.2		
Maintenance factor	0.9		

SQUADRO 4 lamps, wallwasher



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
53W	3000K 4000K	6040lm 6300lm	0 4 9 - 2 2 3 1 ⬢⬢▲

LIGHT DISTRIBUTION

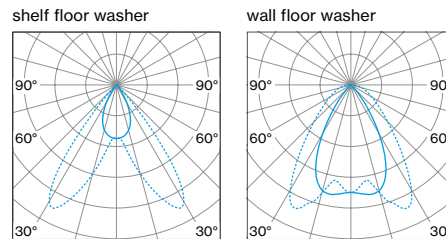


SQUADRO 2 × 4 lamps, wallwasher



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
2x61W	3000K 4000K	13650lm 14240lm	0 4 9 - 2 2 4 1 ⬢⬢▲

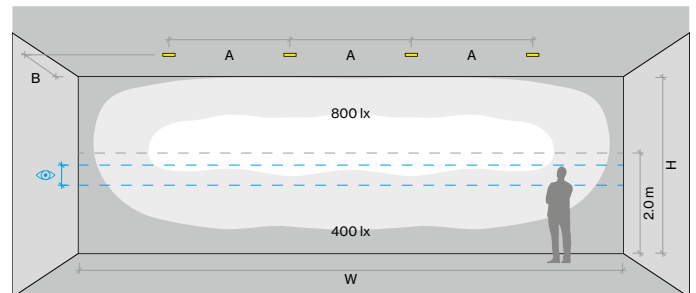
LIGHT DISTRIBUTION



Optical accessories

TYPE	ORDER CODE
IP 40 protection glass - single-sided output	0 4 9 - 2 9 3 0 0 1 0
IP 40 protection glass - double-sided output	0 4 9 - 2 9 4 0 0 1 0

SQUADRO wall floor washer, +5° tilt, 53W, 3000K



ROOM VALUES		CALCULATION SURFACE	
Wall dimensions	H = 3.5 m W = 10.8 m	Surface dimensions	10.8 × 3.5 m
Distance to wall	B = 1.3 m	Surface height	0 – 3.5 m
Distance between spotlights	A = 2.4 m	Eye level	1.35 m – 1.75 m
Aisle width	2.6 m		
Reflection factor	0.7 0.7 0.2		
Maintenance factor	0.9		

Inspiration

Vitalia health food store
Munich, Germany

PRODUCT
TRACK 3-phase surface
SQUADRO wallwasher

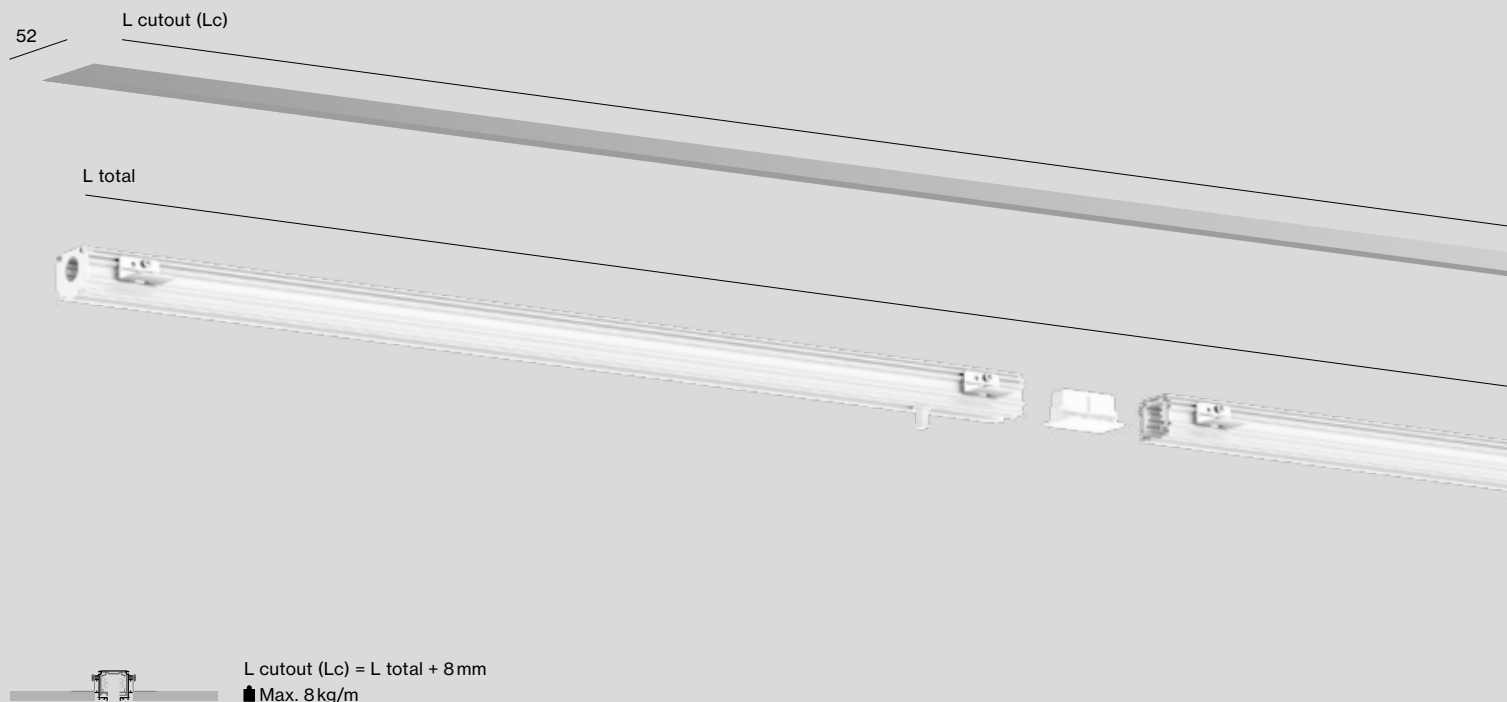




CANYON 15

recessed

xal.com/canyon



Quickinfo

GENERAL

channel recessed

IP20

quick installation

ELECTRICAL

220–240 V

non DIM, DIM DALI

PHYSICAL

aluminium

powder-coated

white, black

Description

DE Aluminiumstrangpressprofil zur Aufnahme von 3 Phasen Stromschielen; Oberfläche weiß oder schwarz pulverbeschichtet; für den randlosen Einbau in Gipskartondecken, spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 12,5-25 mm; optimiert für BO 55 Strahler, Adapter deckenbündig; für durchgehende Profilsysteme; optional flexibler Verbinder

EN Extruded aluminium profile to accommodate 3-phase power tracks; surface powder coated in white or black; for trimless installation in plasterboard ceilings, specially designed trim with grooves for better adhesion of smoothing compound; suitable for ceiling thickness of 12,5-25 mm; optimized for BO 55 spotlight, adapter flush with ceiling; for continuous lighting systems; optional: flexible connectors

Features



optimised for track
light BO 55

Standard configuration

CONTROL

non DIM _____

MATERIAL COLOUR

white 7
black 8



CANYON 15 recessed

CHANNEL

L (mm)	ORDER CODE
1075	0 3 3 - 6 4 1 0 <input checked="" type="checkbox"/>
2075	0 3 3 - 6 4 2 0 <input checked="" type="checkbox"/>
custom cut	E 8 2 4 2 0 <input checked="" type="checkbox"/>

install track in channel before final mounting



END CAPS

TYPE	ORDER CODE
white	0 3 3 - 6 4 0 4 7
black	0 3 3 - 6 4 0 4 8



MOUNTING BRACKET

CEILING THICKNESS (mm)	ORDER CODE
12,5/15/25	0 3 3 - 6 4 0 1 0

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector	0 3 3 - 6 4 0 2 0



TRACK 3-phase



TRACK 240V-16A

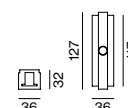
L (mm)	ORDER CODE
1000	3 8 6 - 0 1 1 1 1 1 <input checked="" type="checkbox"/>
2000	3 8 6 - 0 1 1 2 1 1 <input checked="" type="checkbox"/>
3000	3 8 6 - 0 1 1 3 1 1 <input checked="" type="checkbox"/>
4000	3 8 6 - 0 1 1 4 1 1 <input checked="" type="checkbox"/>
track mounting set (10 pieces)	0 3 3 - 6 4 0 3 0



end cap	3 8 6 - 0 2 1 0 1 1 <input checked="" type="checkbox"/>
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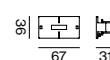


end feed right	3 8 6 - 0 2 1 3 1 1 <input checked="" type="checkbox"/>
end feed left	3 8 6 - 0 2 1 4 1 1 <input checked="" type="checkbox"/>
middle feed	3 8 6 - 0 2 0 3 2 1 <input checked="" type="checkbox"/>

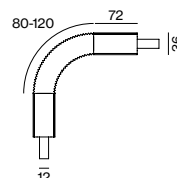


CONNECTORS 240V-16A

TYPE	ORDER CODE
linear connector	3 8 6 - 0 2 1 1 1 1 <input checked="" type="checkbox"/>



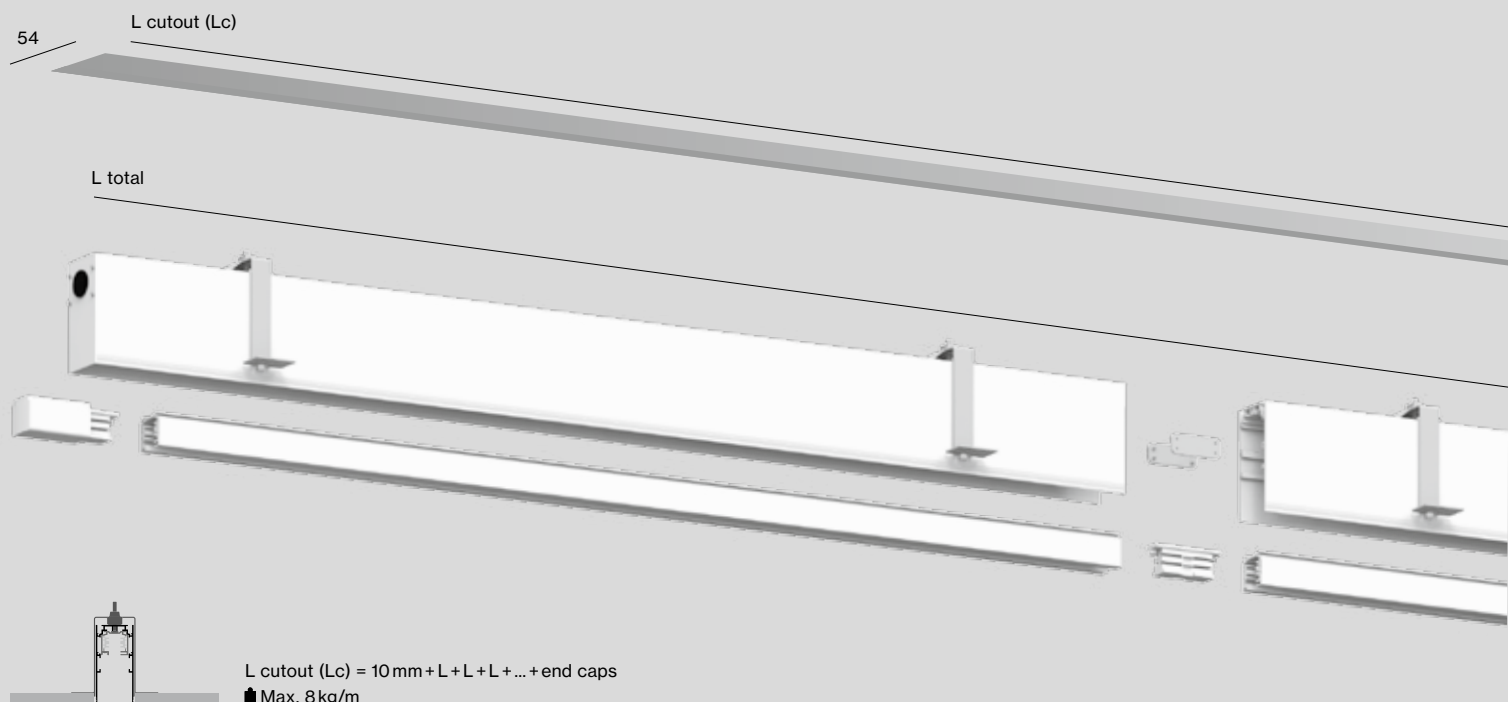
adjustable connector	3 8 6 - 0 2 1 1 6 1 <input checked="" type="checkbox"/>
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CANYON 50

offset

xal.com/canyon



Quickinfo

GENERAL

channel recessed
IP20

ELECTRICAL

220–240 V
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
white, black

Description

DE Aluminiumstrangpressprofil zur Aufnahme von 3 Phasen Stromschielen; Oberfläche weiß oder schwarz pulverbeschichtet; zurückversetzte Stromschienebene; für den randlosen Einbau in Gipskartondecken, spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 8-25 mm; optimiert für BO 70, TIMO 80, KIS und ARGO Strahler, Adapter verschwindet im Kanal; für durchgehende Profilsysteme; 90° Winkelverbinder für rechtwinkligen Systemaufbau

EN Extruded aluminium profile to accommodate 3-phase power tracks; surface powder coated in white or black; recessed power track level; for trimless installation in plasterboard ceilings, specially designed trim with grooves for better adhesion of smoothing compound; suitable for ceiling thickness of 8-25 mm; optimized for BO 70, TIMO 80, KIS and ARGO spotlights, adapter invisible in channel; for continuous lighting systems; 90° angle connectors for rectangular system design

Features



optimised for
track lights BO 70,
TIMO 80, KIS, ARGO

Standard configuration

CONTROL	◆
non DIM	1

MATERIAL COLOUR	▣
white	7
black	8



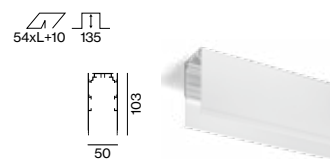
Extended configuration

CONTROL	◆
DIM DALI	3

CANYON 50 offset

INSTALLATION CHANNEL

L (mm)	ORDER CODE
1075	033-6510
2075	033-6520
3000	033-6530
custom cut	E82400



END CAPS (pair)

TYPE	ORDER CODE
white	033-65047
black	033-65048



MOUNTING BRACKET

CEILING THICKNESS (mm)	ORDER CODE
8-15	033-65010
18-25	033-65011

number of brackets required: length of your system in metres+1



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector	033-65020



SUSPENSION KIT FOR HEAVY WEIGHTS

L (mm)	ORDER CODE
2000	033-66050

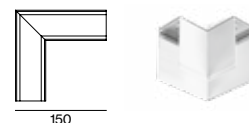
use suspension kit every 2 m



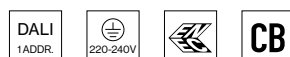
CORNER CONNECTOR 90°

TYPE	ORDER CODE
corner connector 90°	033-6506

X- and T- connector on request



TRACK 3-phase / 3-phase + DALI-bus



TRACK 240V-16A

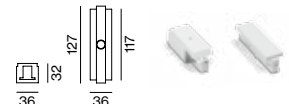
L (mm)	ORDER CODE
1000	386-01111
2000	386-01121
3000	386-01131
4000	386-01141
track mounting set (10 pieces)	033-65030



end cap	386-021011
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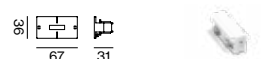


end feed right	386-02131
end feed left	386-02141
middle feed	386-02032

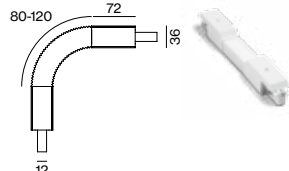


CONNECTORS 240V-16A

TYPE	ORDER CODE
linear connector	386-02111



adjustable connector	386-02116
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TRACK ACCESSORIES

page 744



Inspiration

Fernsehturm
Stuttgart, Germany

ARCHITECT
Ghanai+Heinrich interiorpartners
Stuttgart, Germany

PRODUCT
CANYON 50 offset
TIMO 80 free

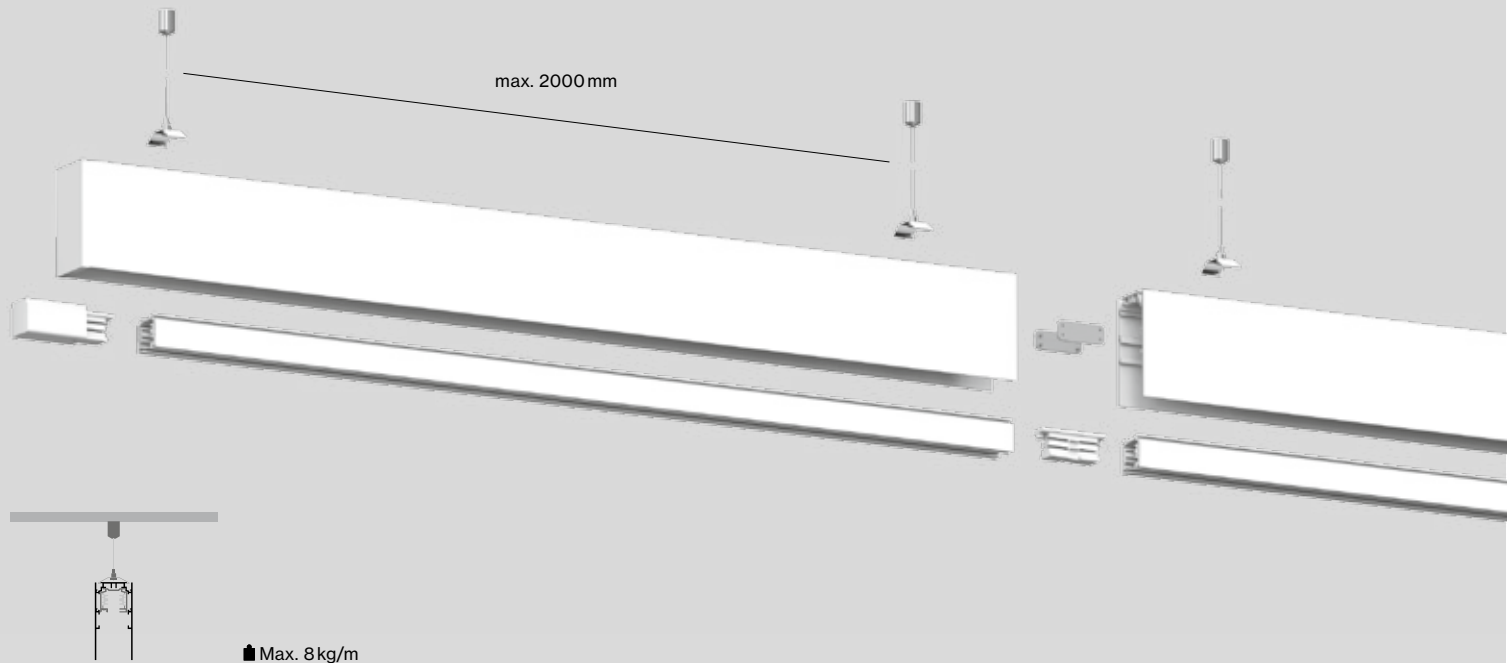




CANYON 50

surface / suspended

xal.com/canyon



Quickinfo

GENERAL

channel surface / suspended
IP20

ELECTRICAL

220–240 V
non DIM, DIM DALI

PHYSICAL

aluminium
powder-coated
white, black

Description

DE Aluminiumstrangpressprofil zur Aufnahme von 3 Phasen Stromschielen; Oberfläche weiß oder schwarz pulverbeschichtet; zurückversetzte Stromschielenenebene; für Deckenaufbaumontage oder für abgehängte Montage (1500 mm Seilabhängung); Abhängung mittels frei positionierbaren Federclips und werkzeugloser Höhenverstellung; optimiert für BO 70, TIMO 80, KIS und ARGO Strahler; Adapter verschwindet im Kanal; für durchgehende Profilsysteme; 90° Winkelverbinder für rechtwinkligen Systemaufbau

EN Extruded aluminium profile to accommodate 3-phase power tracks; surface powder coated in white or black; recessed power track level; for ceiling surface mounting or suspended mounting (1500 mm cable suspension); suspension with freely positionable spring clips and height adjustment without tools; optimized for BO 70, TIMO 80, KIS and ARGO spotlights; adapter invisible in channel; for continuous lighting systems; 90° angle connectors for rectangular system design

Features



optimised for
track lights BO 70,
TIMO 80, KIS, ARGO

Standard configuration

CONTROL	◆
non DIM	1

MATERIAL COLOUR	▣
white	7
black	8



Extended configuration

CONTROL	◆
DIM DALI	3

TRACK ACCESSORIES

➔ page 744



CANYON 50 surface / suspended

INSTALLATION CHANNEL

L (mm)	ORDER CODE
1075	0 3 3 - 6 6 1 0 ▣
2075	0 3 3 - 6 6 2 0 ▣
3000	0 3 3 - 6 6 3 0 ▣
custom cut	E 8 5 4 0 0 ···· ▣



END CAPS (pair)

TYPE	ORDER CODE
white	0 3 3 - 6 6 0 4 7
black	0 3 3 - 6 6 0 4 8



LINEAR CONNECTOR

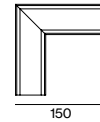
TYPE	ORDER CODE
linear connector	0 3 3 - 6 5 0 2 0



CORNER CONNECTOR 90°

TYPE	ORDER CODE
corner connector 90°	0 3 3 - 6 6 0 6 ▣

X- and T- connector on request



SUSPENSION

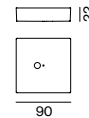
TYPE	L (mm)	ORDER CODE
cable suspension	1500	0 3 3 - 6 6 0 5 0

use suspension kit every 2 m

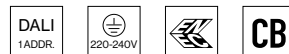


POWER FEEDER CANOPY

TYPE	L (mm)	ORDER CODE
5 × 1,5 mm ²	1500	0 0 5 - 2 2 1 2 4 1 ▣
7 × 1,5 mm ²	1500	0 0 5 - 2 2 1 2 5 1 ▣



TRACK 3-phase / 3-phase + DALI-bus



TRACK 240V-16A

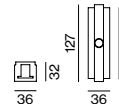
L (mm)	ORDER CODE
1000	3 8 6 - 0 1 1 1 1 ▣
2000	3 8 6 - 0 1 1 2 1 ▣
3000	3 8 6 - 0 1 1 3 1 ▣
4000	3 8 6 - 0 1 1 4 1 ▣
track mounting set (10 pieces)	0 3 3 - 6 5 0 3 0



end cap	3 8 6 - 0 2 1 0 1 1 ▣
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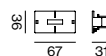


end feed right	3 8 6 - 0 2 1 3 1 ▣
end feed left	3 8 6 - 0 2 1 4 1 ▣
middle feed	3 8 6 - 0 2 0 3 2 ▣

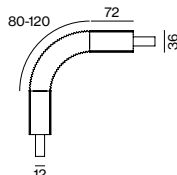


CONNECTORS 240V-16A

TYPE	ORDER CODE
linear connector	3 8 6 - 0 2 1 1 1 ▣



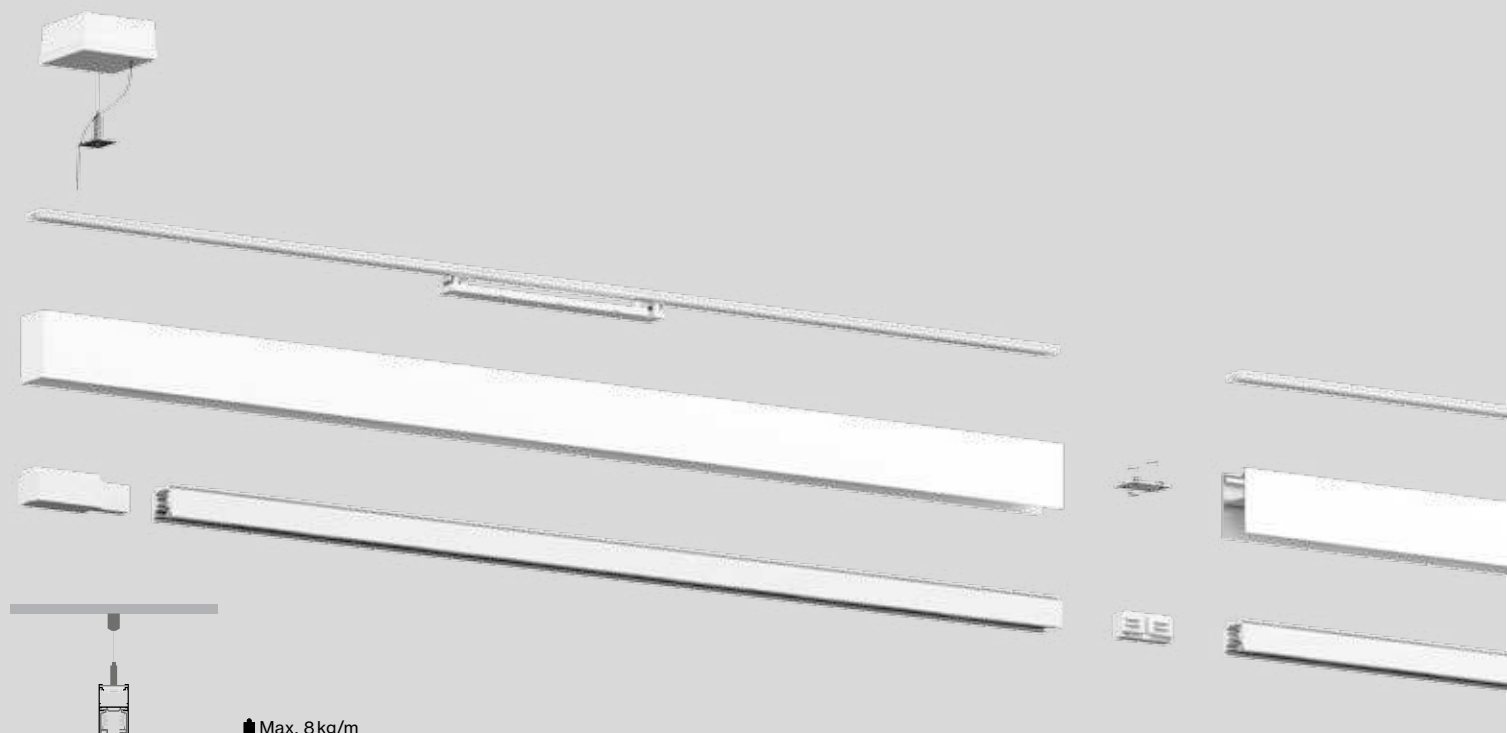
adjustable connector	3 8 6 - 0 2 1 1 6 ▣
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STILO 40

suspended

xal.com/stilo



Quickinfo

GENERAL

channel + tracklight suspended
IP20

LED

Mid-power LED
3000 K, 4000 K
CRI \geq 80
Binning initial \leq 3 MacAdam

ESTIMATED LED LIFETIME

L80/50000h

OPTICAL

indirect illumination
PMMA cover opal

ELECTRICAL

220–240 V
non DIM, DIM DALI

PHYSICAL

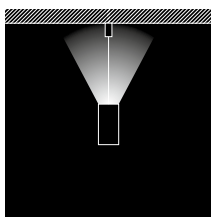
aluminium
powder-coated
white, grey, black

Description

DE Aluminiumstrangpressprofil inkl. 3 Phasen Stromschiene; Oberfläche weiß, grau oder schwarz pulverbeschichtet; für abgehängte Montage (1500 mm Seilabhängung); Abhängung mittels frei positionierbaren Federclips und werkzeugloser Höhenverstellung; für durchgehende Profilsysteme; 90° Winkelverbinder für rechtwinkligen Systemaufbau; optional Lichteinsätze mit indirekter Abstrahlcharakteristik für zusätzliche Akzentuierung der Decke einsetzbar; Indirektlichtanteil mit opaler Abdeckung abgedeckt; Binning initial \leq 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI \geq 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

EN Extruded aluminium profile with 3 phase track; surface powder coated in white, grey or black; for suspended mounting (1500 mm cable suspension); suspension with freely positionable spring clips and height adjustment without tools; for continuous lighting systems; 90° angle connectors for rectangular system design; lighting inserts optionally with indirect radiation characteristic for additional emphasis of the ceiling; Indirect component covered with opal cover; binning initial \leq 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI \geq 80; min. 80% of the luminous flux after 50000 hours; protection class IP20; PC I; optional DALI dimmable

Features



available with indirect illumination

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
non DIM 1

MATERIAL COLOUR 
white 7



Extended configuration

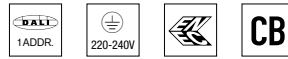
COLOUR TEMPERATURE 
4000K 6

CONTROL 
DIM DALI 3







MATERIAL COLOUR 
grey G
black 8



STILO 40 3-phase / 3-phase + DALI-bus




CHANNEL + 3-PHASE/BUS TRACK

L (mm)	ORDER CODE
1000	033-70040  
2000	033-70060  
3000	033-70090  





END CAP

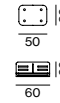
TYPE	ORDER CODE
end cap	033-70100 



separate track end caps not necessary

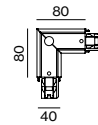
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	033-70210  



CONNECTOR LEFT/RIGHT

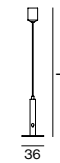
TYPE	ORDER CODE
90° corner left	033-70220  
90° corner right	033-70230  







T- and X-connector on request. based on the special project requirements (left/right, feeding option earth inside/outside).

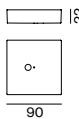
CABLE SUSPENSION

L (mm)	ORDER CODE
1500	033-7032000









POWER FEEDER CANOPY

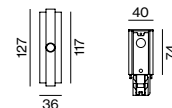
TYPE	L (mm)	ORDER CODE
5 × 1,5 mm ²	1500	005-221241  
7 × 1,5 mm ²	1500	005-221251  



use for installation channel and inset indirect













POWER FEEDER LEFT/RIGHT/MIDDLE

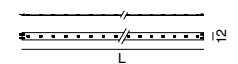
TYPE	ORDER CODE
power feeder left	033-70400  
power feeder right	033-70410  
power feeder middle	033-70420  



INSET indirect



SYSTEM POWER	L (mm)	ORDER CODE
5 W	500	033-7062   
10 W	1000	033-7064   
19 W	2000	033-7066   
29 W	3000	033-7069   



TRACK 3-phase recessed

Standard configuration

CONTROL 
non DIM 1

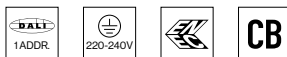
MATERIAL COLOUR
white 7

7




Extended configuration

CONTROL 
DIM DALI 3

TRACK 3-phase / 3-phase + DALI-bus




TRACK 240V-16A

L (mm)	ORDER CODE
2000	3 8 6 - 0 1 2 2 1  7
3000	3 8 6 - 0 1 2 3 1  7
4000	3 8 6 - 0 1 2 4 1  7

end cap 3 8 6 - 0 2 2 0 1 1 7

end feed right 3 8 6 - 0 2 2 3 1  7

end feed left 3 8 6 - 0 2 2 4 1  7

middle feed 3 8 6 - 0 2 0 3 2  7

CONNECTORS 240V-16A

TYPE **ORDER CODE**
linear connector 3 8 6 - 0 2 2 1 1  7

L-connector 3 8 6 - 0 2 2 1 2  7

L-connector right 3 8 6 - 0 2 2 1 3  7

L-connector left 3 8 6 - 0 2 2 2 3  7

T-connector right 3 8 6 - 0 2 2 1 4  7

T-connector left 3 8 6 - 0 2 2 2 4  7

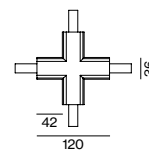
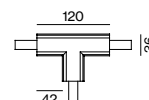
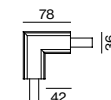
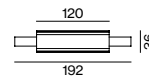
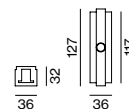
X-connector 3 8 6 - 0 2 2 1 5  7

MOUNTING ACCESSORIES

TYPE **ORDER CODE**
clip 3 8 6 - 0 2 2 5 1 1 0

suspension element 3 8 6 - 0 2 2 5 2 1 0

40xL



TRACK 3-phase surface / suspended

Standard configuration

CONTROL ◆
non DIM 1

MATERIAL COLOUR ▣
white 7



Extended configuration

CONTROL ◆
DIM DALI 3

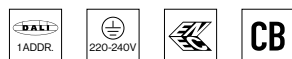
TRACK MATERIAL COLOUR ▣
grey 6
black 8



ACCESSORY MATERIAL COLOUR ▣
grey 0
black 8



TRACK 3-phase / 3-phase + DALI-bus



TRACK 240V-16A

L (mm)	ORDER CODE
1000	3 8 6 - 0 1 1 1 1 1 ◆
2000	3 8 6 - 0 1 1 2 1 1 ◆
3000	3 8 6 - 0 1 1 3 1 1 ◆
4000	3 8 6 - 0 1 1 4 1 1 ◆

end cap 3 8 6 - 0 2 1 0 1 1 ◆

end feed right 3 8 6 - 0 2 1 3 1 1 ◆
end feed left 3 8 6 - 0 2 1 4 1 1 ◆
middle feed 3 8 6 - 0 2 0 3 2 1 ◆

CONNECTORS 240V-16A

TYPE ORDER CODE
linear connector 3 8 6 - 0 2 1 1 1 1 ◆

I-connector 3 8 6 - 0 2 1 1 2 1 ◆

L-connector right 3 8 6 - 0 2 1 1 3 1 ◆
L-connector left 3 8 6 - 0 2 1 2 3 1 ◆

T-connector right 3 8 6 - 0 2 1 1 4 1 ◆
T-connector left 3 8 6 - 0 2 1 2 4 1 ◆

X-connector 3 8 6 - 0 2 1 1 5 1 ◆

adjustable corner connector 3 8 6 - 0 2 1 1 6 1 ◆

MOUNTING ACCESSORIES

TYPE ORDER CODE
ceiling clip 3 8 6 - 0 2 1 5 1 1 ◆

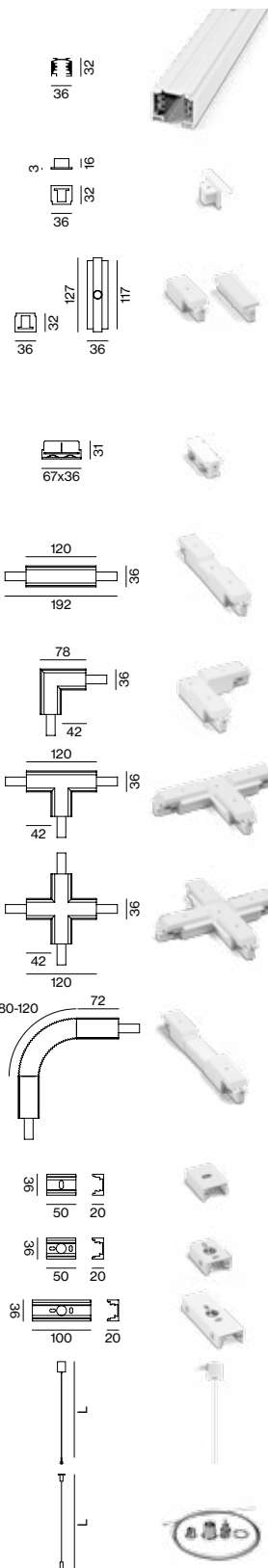
pendant clip 3 8 6 - 0 2 1 5 2 1 ◆

joiner piece 3 8 6 - 0 2 1 5 3 1 ◆

SUSPENSION KIT

TYPE ORDER CODE
pendant 600 3 8 6 - 0 2 1 6 1 1 ◆
pendant 1200 3 8 6 - 0 2 1 6 2 1 ◆

cable 1500 3 8 6 - 0 2 1 7 1 1 0
cable 3000 3 8 6 - 0 2 1 7 2 1 0
cable 6200 3 8 6 - 0 2 1 7 3 1 0



09



AUSSEN- UND BODENEINBAULEUCHTEN OUTDOOR AND RECESSED FLOOR LUMINAIRES



SONO
IP54 surface
→ 748



SONO LOOP
IP54 surface
→ 750



SONO FLEX
IP54 trim
→ 754



SONO FLEX
IP54 trimless
→ 758



FRAME 60
IP65 trim
→ 760



MINO 60
IP65 surface
→ 764



STREAMCUT
surface
→ 768



STREAMCUT
wall
→ 772



STREAMCUT
bollard
→ 776



DOC
wall
→ 780



SOLIS
surface
→ 784



WISE
wall
→ 788



LETU 65 / 110
recessed
→ 792 / 794



LECU 65 / 110
recessed
→ 798 / 800



FILO 160
square / round
recessed
→ 804

SONO

IP54

surface

xal.com/sono-surface



Quickinfo

GENERAL

surface mounted
IP54

LED

Mid-power LED
up to 138lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

aluminium
powder-coated
halogen-free cable
shock resistance IK07

SONO

surface

[page 280](#)

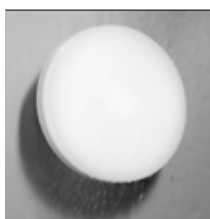


Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss; Oberfläche weiß pulverbeschichtet; geeignet für Wand- oder Deckenmontage; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP54; SK I; Schlagfestigkeit IK07; optional DALI-dimmbar mit CLO-Funktion

EN Round luminaire housing in die-cast aluminium; surface white powder coated; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP54; PC I; shock resistance IK07; optional DALI dimmable with CLO function

Features



IP54 (waterproof protection)



shock resistance IK07



easy mounting by click-mechanism



tunable white 3000–6000 K on request

Standard configuration

IP RATING

IP54

COLOUR TEMPERATURE

3000K 5

CONTROL

non DIM 1

MATERIAL COLOUR

white 7

7

LIGHT OPTIC COVER

opal 0

Extended configuration

COLOUR TEMPERATURE

4000K 6

CONTROL

DIM DALI / CLO 3

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

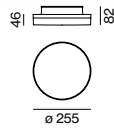
COLOUR TEMPERATURE

tunable white 3000–6000K (2 DALI)

CONTROL

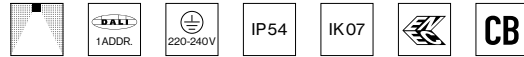
RCS Master (☉)

RCS Slave (☾)

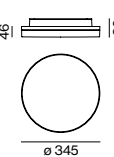


SONO 260 IP54 surface

DIRECT

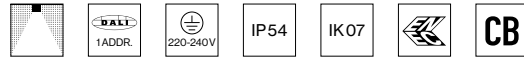


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W	3000K 4000K	930lm 990lm	8 7 1 - 9 1 2 6 :: 7 0

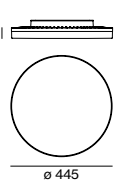


SONO 350 IP54 surface

DIRECT

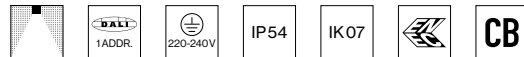


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W	3000K 4000K	2050lm 2200lm	8 7 1 - 9 1 3 6 :: 7 0



SONO 450 IP54 surface

DIRECT

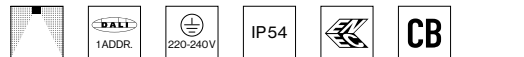


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W	3000K 4000K	3030lm 3220lm	8 7 1 - 9 1 4 6 :: 7 0



SONO 600 IP54 surface

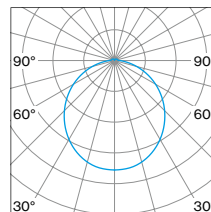
DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W	3000K 4000K	5740lm 6100lm	8 7 1 - 9 1 5 6 :: 7 0

LIGHT DISTRIBUTION

opal



direct

SONO LOOP

IP54

surface

xal.com/sono-loop-surface



Quickinfo

GENERAL

surface mounted
IP54

LED

Mid-power LED
up to 128 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM, DIM DALI
DALI: CLO

PHYSICAL

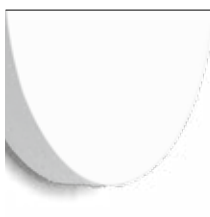
aluminium
powder-coated
halogen-free cable
shock resistance IK07

Description

DE Runder Leuchtenkörper aus Aluminiumdruckguss; Oberfläche dunkelgrau oder weiß pulverbeschichtet; aufgesetzter Ring aus gerolltem und nahtlos verschweißtem Aluminiumprofil; geeignet für Wand- oder Deckenmontage; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP54; SK I; Schlagfestigkeit IK07; optional DALI-dimmbar mit CLO-Funktion

EN Round luminaire housing in die-cast aluminium; surface powder coated in dark grey or white; fitted bezel in rolled, seamless welded aluminium profile; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90 % of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP54; PC I; shock resistance IK07; optional DALI dimmable with CLO function

Features



IP54 (waterproof protection)



shock resistance IK07



easy mounting by click-mechanism



tunable white 3000–6000 K on request

Standard configuration

IP RATING
IP54

COLOUR TEMPERATURE ⋮
3000K 5

CONTROL ↕
non DIM 1

MATERIAL COLOUR ▣
dark grey D



LIGHT OPTIC COVER
opal O

Extended configuration

COLOUR TEMPERATURE ⋮
4000K 6

CONTROL ↕
DIM DALI / CLO 3

MATERIAL COLOUR ▣
white 7



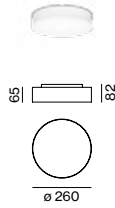
+5% surcharges

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

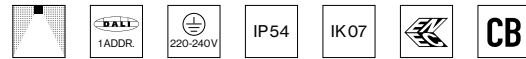
COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

CONTROL
RCS Master (☉)
RCS Slave (☾)

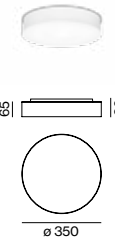


SONO LOOP 260 IP54 surface

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
8W	3000K 4000K	860lm 920lm	8 7 1 - 8 1 2 6 ⋮ ↕ ▣ O

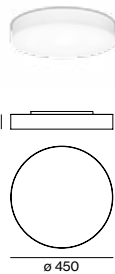


SONO LOOP 350 IP54 surface

DIRECT

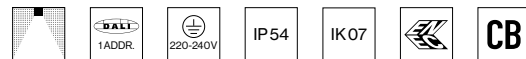


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W	3000K 4000K	1900lm 2040lm	8 7 1 - 8 1 3 6 ⋮ ↕ ▣ O

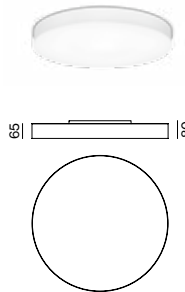


SONO LOOP 450 IP54 surface

DIRECT

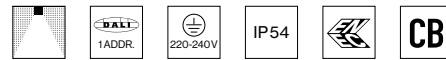


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W	3000K 4000K	2810lm 2990lm	8 7 1 - 8 1 4 6 ⋮ ↕ ▣ O



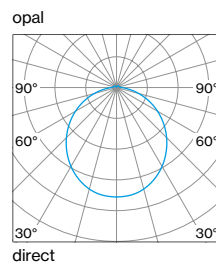
SONO LOOP 600 IP54 surface

DIRECT



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W	3000K 4000K	5330lm 5660lm	8 7 1 - 8 1 5 6 ⋮ ↕ ▣ O

LIGHT DISTRIBUTION

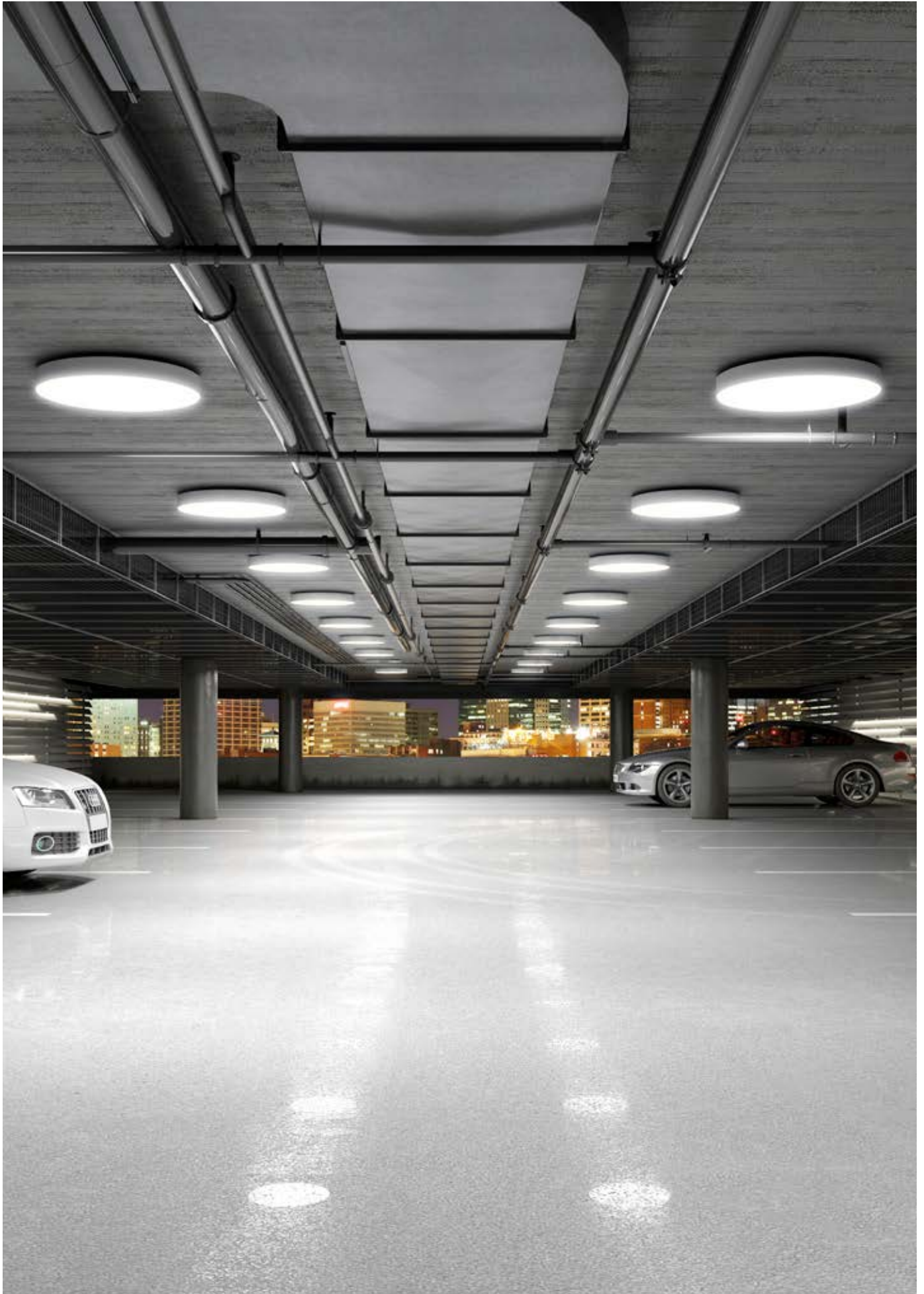


Inspiration

Parking Garage
Visualisation

PRODUCT
SONO LOOP IP54 surface





SONO FLEX

IP54

trim

xal.com/sono



Quickinfo

GENERAL

recessed trim

IP54

optional concrete install. housing

LED

Mid-power LED

up to 128 lm/W

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination

uniform illumination

PMMA cover opal

ELECTRICAL

non DIM, DIM DALI

DALI: CLO

PHYSICAL

aluminium

powder-coated

halogen-free cable

SONO FLEX

trim

[page 154](#)



Description

DE Runde Einbauleuchte aus Aluminium, bestehend aus Leuchtenkörper (SONO) und Einbaugehäuse; Gehäuse mit umlaufendem Rand geeignet für den Einbau in Gipskartondecken; geeignet für Deckenstärken von 10-25 mm; optional: Einbau in Betondecken mittels Betoneinbaugehäuse; Oberfläche weiß pulverbeschichtet; Leuchte wahlweise deckenbündig oder 25 mm hervorstehend werkzeuglos im Gehäuse einsetzbar; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90 % des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP54; SK I; optional DALI-dimmbar mit CLO-Funktion

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing with trim suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 10-25 mm; optionally: installation in concrete ceilings with a special installation housing; surface white powder coated; luminaire installs in housing without tools optionally flush or protruding by 25 mm; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP54; PC I; optional DALI dimmable with CLO function

Features



IP54 (waterproof protection)



tool-free installation of light engine



flexible flush or jut-out installation



tunable white 3000–6000 K on request

Standard configuration

IP RATING

IP54

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆◆
non DIM 1

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
opal 0

Extended configuration

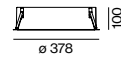
COLOUR TEMPERATURE ◆◆
4000K 6

CONTROL ◆◆
DIM DALI / CLO 3

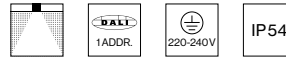
Options on request

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

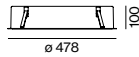
CONTROL
RCS Master (☉)
RCS Slave (☉)



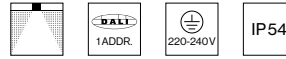
SONO FLEX 350 IP54 trim



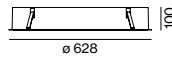
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W	3000K	1900lm	8 6 3 - 3 2 3 8 ◆◆ 7 0
	4000K	2040lm	



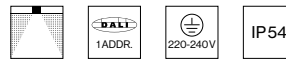
SONO FLEX 450 IP54 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W	3000K	2810lm	8 6 3 - 3 2 4 8 ◆◆ 7 0
	4000K	2990lm	



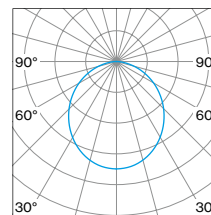
SONO FLEX 600 IP54 trim



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W	3000K	5330lm	8 6 3 - 3 2 5 8 ◆◆ 7 0
	4000K	5660lm	

LIGHT DISTRIBUTION

opal

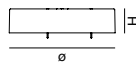


direct

Accessories

CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX 350	350-107	0 6 3 - 2 2 3 8 1 0 0
SONO FLEX 450	450-107	0 6 3 - 2 2 4 8 1 0 0
SONO FLEX 600	600-107	0 6 3 - 2 2 5 8 1 0 0



Inspiration

Passage
Visualisation

PRODUCT

SONO FLEX IP54 trim
SONO LOOP IP 54 surface





SONO FLEX

IP54

trimless

xal.com/sono



Quickinfo

GENERAL

recessed trimless

IP54

optional concrete install. housing

LED

Mid-power LED

up to 128 lm/W

3000 K, 4000 K, tunable white

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000 h

OPTICAL

direct illumination

uniform illumination

PMMA cover opal

ELECTRICAL

non DIM, DIM DALI

DALI: CLO

PHYSICAL

aluminium

powder-coated

low mounting depth H=100 mm

halogen-free cable

Description

DE Runde Einbauleuchte aus Aluminium, bestehend aus Leuchtenkörper (SONO) und Einbaugehäuse; Gehäuse geeignet für den randlosen Einbau in Gipskartondecken; spezielle Randausbildung mit Rillen für bessere Haftung der Spachtelmasse; geeignet für Deckenstärken von 10-25 mm; optional: Einbau in Betondecken mittels Betoneinbaugehäuse; Oberfläche weiß pulverbeschichtet; Leuchte wahlweise deckenbündig oder 25 mm hervorstehend werkzeuglos im Gehäuse einsetzbar; absolut homogen ausgeleuchtete, satinierte PMMA-Abdeckung; gleiche Leuchtdichte bei allen Flächenleuchten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000 h Lebensdauer; Leuchte mit 2 Kabelöffnungen und Steckklemme für Durchgangsverdrahtung; Schutzart IP54; SK I; optional DALI-dimmbare mit CLO-Funktion

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing suitable for the trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 10-25 mm; optionally: installation in concrete ceilings with a special installation housing; surface white powder coated; luminaire installs in housing without tools optionally flush or protruding by 25 mm; completely homogeneously illuminated, satinised PMMA cover; same luminance for all flat luminaires; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; luminaire with 2 cable openings and plug-in terminals for through wiring; protection class IP54; PC I; optional DALI dimmable with CLO function

Features



IP54 (waterproof protection)



tool-free installation of light engine



flexible flush or jut-out installation

Standard configuration

IP RATING

IP54

COLOUR TEMPERATURE ◆◆
3000K 5

CONTROL ◆◆
non DIM 1

MATERIAL COLOUR
white 7

7

LIGHT OPTIC COVER
opal 0

Extended configuration

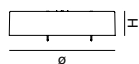
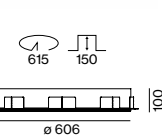
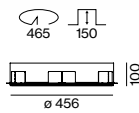
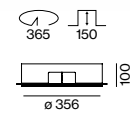
COLOUR TEMPERATURE ◆◆
4000K 6

CONTROL ◆◆
DIM DALI / CLO 3

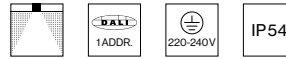
Options on request

COLOUR TEMPERATURE
tunable white 3000–6000K (2 DALI)

CONTROL
RCS Master (☉)
RCS Slave (☉)

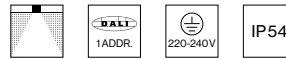


SONO FLEX 350 IP54 trimless



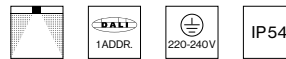
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16W	3000K	1900lm	8 6 3 - 2 2 3 8 ◆◆ 7 0
	4000K	2040lm	

SONO FLEX 450 IP54 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24W	3000K	2810lm	8 6 3 - 2 2 4 8 ◆◆ 7 0
	4000K	2990lm	

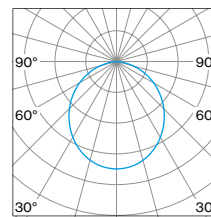
SONO FLEX 600 IP54 trimless



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44W	3000K	5330lm	8 6 3 - 2 2 5 8 ◆◆ 7 0
	4000K	5660lm	

LIGHT DISTRIBUTION

opal



direct

Accessories

INSTALLATION TEMPLATE

TYPE	ORDER CODE
SONO FLEX 350 TRIMLESS	0 6 3 - 2 2 3 0 0 0 0
SONO FLEX 450 TRIMLESS	0 6 3 - 2 2 4 0 0 0 0
SONO FLEX 600 TRIMLESS	0 6 3 - 2 2 5 0 0 0 0

CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX 350 TRIMLESS	350·107	0 6 3 - 2 2 3 8 1 0 0
SONO FLEX 450 TRIMLESS	450·107	0 6 3 - 2 2 4 8 1 0 0
SONO FLEX 600 TRIMLESS	600·107	0 6 3 - 2 2 5 8 1 0 0

FRAME 60

IP65

trim

xal.com/frame



Quickinfo

GENERAL

recessed
IP65
opt. concrete installation housing

LED

Mid-power LED
up to 83lm/W
3400K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
halogen-free cable

FRAME 60

system trim

[page 486](#)



Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil; Einbauleuchte mit umlaufendem Rand; geeignet für Deckenstärken von 8-25 mm; Oberfläche dunkelgrau oder weiß pulverbeschichtet; Leuchtenprofil (Enddeckel und Montagebügel werkseitig vormontiert) für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; vergossene LED Platine; in geschlossenes Gehäuse aus PMMA eingeschoben, Enddeckel aus PMMA dicht mit Gehäuse verklebt; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3400K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP65; SK II; IP67-Buchsen-Steckersystem für dichten elektrischen Anschluss

EN Luminaire housing made of extruded aluminium; Recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface powder coated in dark grey or white; Luminaire profile (end cover and mounting bracket pre-assembled) for mounting available in advance; remaining luminaire components mounted without tools; encapsulated LED circuit board; inserted in closed housing made of PMMA, PMMA end caps bonded sealed to housing; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3400K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP65; PC II; IP67 socket connector system for easy and sealed electrical connection

Features



IP65 (waterproof protection)

Standard configuration

IP RATING

IP65

CONTROL

non DIM 1

MATERIAL COLOUR

dark grey D



LIGHT OPTIC COVER

opal high performance H

Extended configuration

MATERIAL COLOUR

white 7

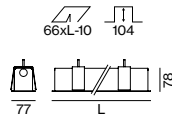


+5% surcharges

Options on request

SYSTEM SOLUTION

contact the sales department

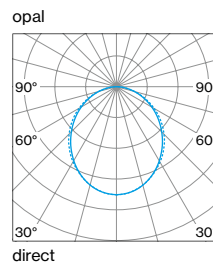


FRAME 60 IP65, trim



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3400 K	1140 lm	593	8 5 2 - 4 7 3 2 5 1 <input checked="" type="checkbox"/> H
20 W	3400 K	1700 lm	893	8 5 2 - 4 7 3 3 5 1 <input checked="" type="checkbox"/> H
27 W	3400 K	2270 lm	1193	8 5 2 - 4 7 3 4 5 1 <input checked="" type="checkbox"/> H

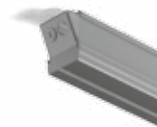
LIGHT DISTRIBUTION



Mounting accessories

CONCRETE INSTALLATION HOUSING

L-W-H (mm)	ORDER CODE
582-75-88	0 3 5 - 0 4 0 6 6
882-75-88	0 3 5 - 0 4 0 9 6
1182-75-88	0 3 5 - 0 4 1 2 6



Inspiration

ÖBB passage
Graz, Austria

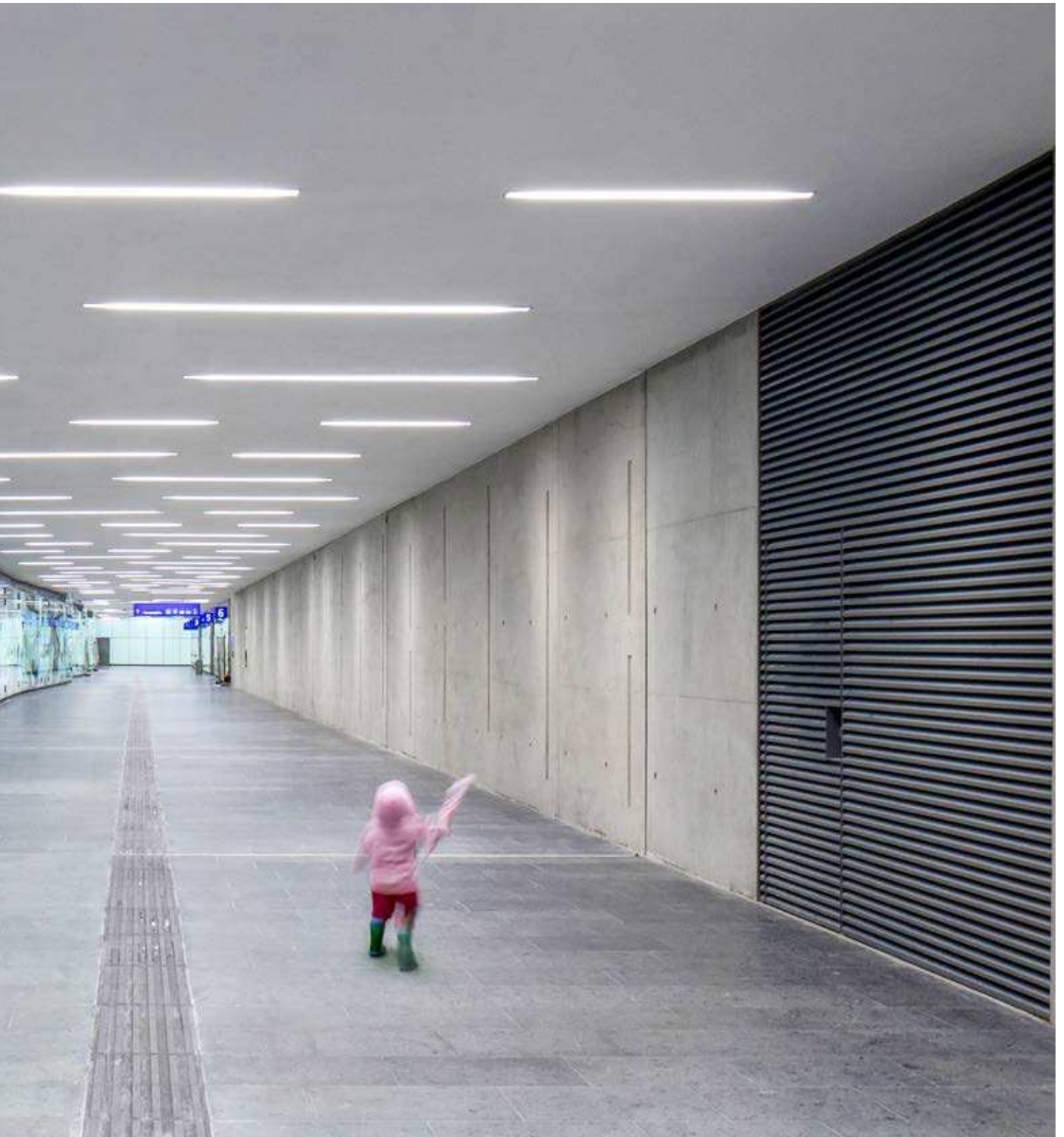
LIGHTING DESIGN
ESC engineering Service & Consulting kg
Vienna, Austria

PRODUCT
FRAME 80 IP 65

ARCHITECT
skyline architekten ZT gmbh
Vienna, Austria

Peter Andres Lichtplanung
(Tageslichtberechnung / Kunstlichtkonzept)
Hamburg, Germany





MINO 60

IP65

surface

xal.com/mino



Quickinfo

GENERAL

surface mounted
IP65

LED

Mid-power LED
up to 83lm/W
3400K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L90 / 50000h

OPTICAL

direct illumination
uniform illumination
PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

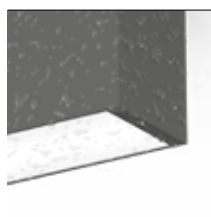
aluminium
powder-coated
halogen-free cable

Description

DE Leuchtenkörper aus Aluminiumstrangpressprofil in kantiger Ausführung; lichtdicht abschließende Enddeckel aus Aluminium, keine sichtbaren Schrauben; Oberfläche dunkelgrau oder weiß pulverbeschichtet; Leuchtenprofil (Enddeckel werkseitig vormontiert) für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; vergossene LED Platine; in geschlossenes Gehäuse aus PMMA eingeschoben, Enddeckel aus PMMA dicht mit Gehäuse verklebt; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3400K; CRI ≥ 80; min. 90% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP65; SK II; IP67-Buchsen-Steckersystem für dichten elektrischen Anschluss

EN Luminaire housing from extruded aluminium profile in angular design; light-tight end caps in aluminium, no visible screws; surface powder coated in dark grey or white; Luminaire profile (end cover pre-assembled) for mounting available in advance; remaining luminaire components mounted without tools; encapsulated LED circuit board; inserted in closed housing made of PMMA, PMMA end caps bonded sealed to housing; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3400K; CRI ≥ 80; min. 90% of the luminous flux after 50000 hours; protection class IP65; PC II; IP67 socket connector system for easy and sealed electrical connection

Features



IP65 (waterproof protection)

Standard configuration

IP RATING

IP 65

CONTROL

non DIM 1

MATERIAL COLOUR

dark grey D



LIGHT OPTIC COVER

opal high performance H

Extended configuration

MATERIAL COLOUR

white 7

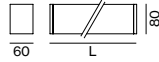
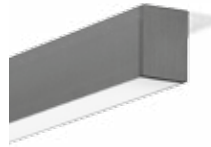


+5% surcharges

Options on request

SYSTEM SOLUTION

contact the sales department

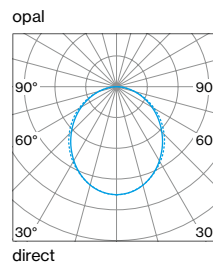


MINO 60 IP 65 surface



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W	3400 K	1140 lm	588	8 4 6 - 4 1 2 2 5 1 <input checked="" type="checkbox"/> H
20 W	3400 K	1700 lm	888	8 4 6 - 4 1 2 3 5 1 <input checked="" type="checkbox"/> H
27 W	3400 K	2270 lm	1188	8 4 6 - 4 1 2 4 5 1 <input checked="" type="checkbox"/> H

LIGHT DISTRIBUTION



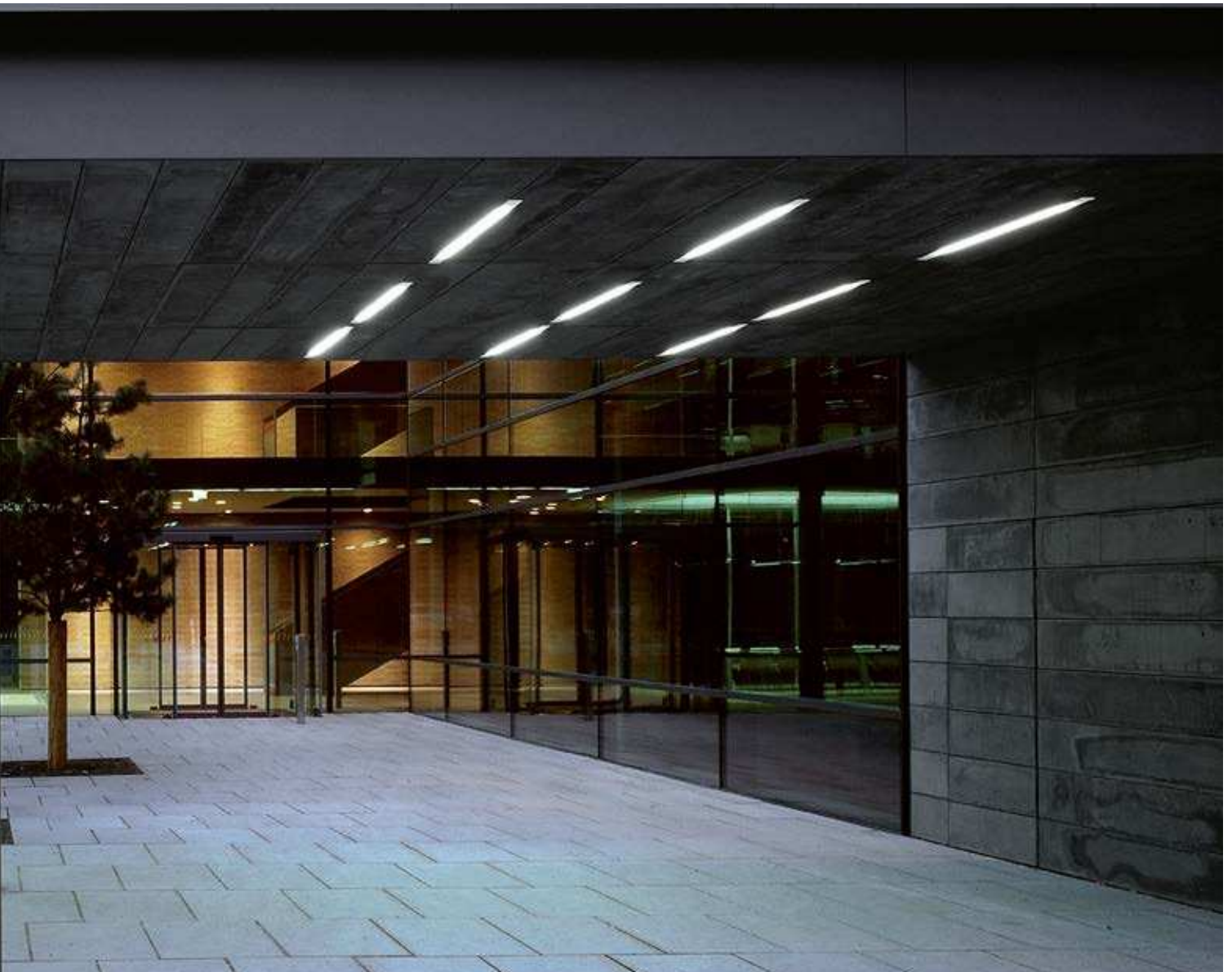
Inspiration

University Research Institute
Ulm, Germany

PRODUCT
MINO 60 IP 65 surface

ARCHITECT
bizer architekten
Stuttgart, Germany

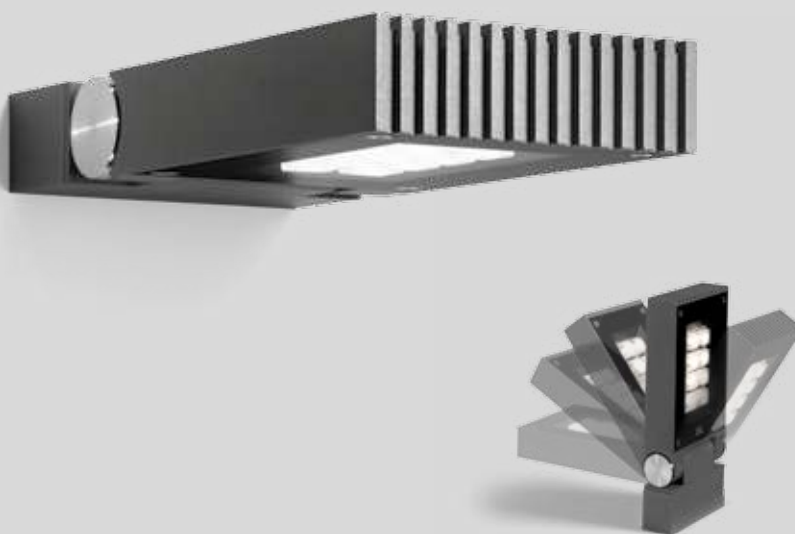




STREAMCUT

surface

xal.com/streamcut



Quickinfo

GENERAL

surface mounted
IP65
several mounting options

LED

High-power LED
up to 79 lm/W
3000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

asymmetric/flood illumination
lens optics
glass cover
flood 48°

ELECTRICAL

non DIM / phase-cut

PHYSICAL

aluminium
powder-coated
optimised corrosion protection
pressure compensation valve
shock resistance IK07

Description

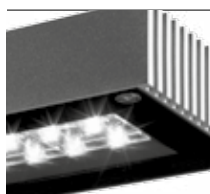
DE Boden- bzw. Wandaufbauleuchte aus Aluminium in schlichtem, reduziertem Design; Leuchtenkopf mit integrierten Kühlrippen; +/- 90° schwenkbar und alle 30° fixierbar; Oberfläche schutzeloxiert und dunkelgrau pulverbeschichtet; Montage wahlweise aufgeschraubt oder mit Erdspeiß; Teilbedrucktes Sicherheitsglas, fixiert mit Edelstahlschrauben; inkl. hochwertiger Linsenoptik symmetrischer oder asymmetrischer Lichtverteilung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP65, mit Druckausgleichsventil; SK I; Schlagfestigkeit IK07; Umgebungstemperaturen von -20°C bis +50°C; separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung

EN Floor or wall mounted light in aluminium with simple, minimalist design; luminaire head with integrated cooling fins; +/- 90° tiltable, lockable every 30°; anodised surface and dark grey powder coated; optional mounting screwed on or with ground spike; Partially printed safety glass, fixed with stainless steel screws; incl. high quality lens system symmetrical or asymmetrical light distribution; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70% of the luminous flux after 50000 hours; protection class IP65, with pressure equalisation valve; PC I; shock resistance IK07; ambient temperatures from -20°C to + 50°C; side coupled light, directed up and down

Features



tilt adjustment 90°,
fixable from 0° - 90°



high quality lens

Standard configuration

IP RATING

IP 65

COLOUR TEMPERATURE

3000K 5

CONTROL

non DIM 1

MATERIAL COLOUR

dark grey D



LIGHT OPTIC COVER

asymmetric place A
flood 48° F

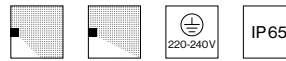
Options on request

ELECTRICAL

phase-cut DIM



STREAMCUT surface



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	1080 lm	0 8 8 - 2 8 2 1 5 1 D <input type="checkbox"/>

luminous flux flood 48°

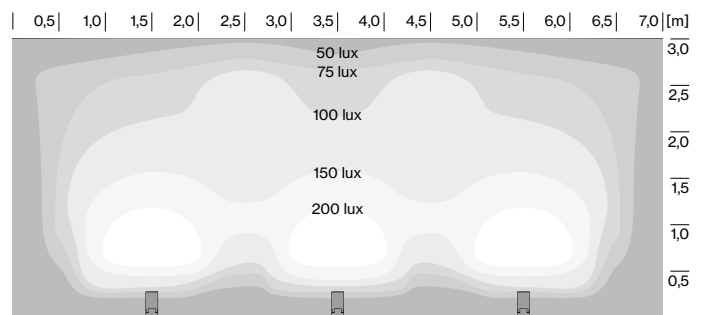
Accessory

EARTH SPIKE

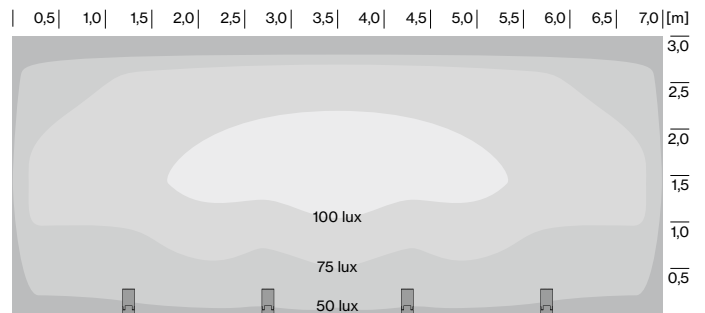
TYPE	ORDER CODE
earth spike	0 8 8 - 2 8 9 2 1 1 0



Illumination example



STREAMCUT SURFACE with symmetric flood optics (3 luminaires)
Zonal lighting: distance to wall: 1,5m / distance between luminaires: 2,0m, 40° tilt



STREAMCUT SURFACE with asymmetric place optics (4 luminaires)
Areal lighting: distance to wall: 1,5m / distance between luminaires: 1,5m, 40° tilt

Inspiration

Private Residence
Visualisation

PRODUCT
STREAMCUT surface





STREAMCUT

wall

xal.com/streamcut



Quickinfo

GENERAL

wall recessed

IP 65

several mounting options

LED

COB LED module

up to 43 lm/W

3000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

asymmetric illumination

glass cover

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

optimised corrosion protection

pressure compensation valve

shock resistance IK 09

Description

DE Wandeinbauleuchte aus Aluminium in schlichtem, reduziertem Design; Oberfläche schutzeloxiiert und dunkelgrau oder schwarz pulverbeschichtet; Teilbedrucktes Sicherheitsglas, fixiert mit Edelstahlschrauben; Reflektor aus matt eloxiertem Reinaluminium mit asymmetrischer Abstrahlcharakteristik; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI ≥ 80; min. 80 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 65, mit Druckausgleichsventil; SK I; Schlagfestigkeit IK09; Umgebungstemperaturen von -20°C bis +50°C; separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung

EN Recessed wall luminaire in aluminium in a simple, minimalist design; surface anodised and powder coated in dark grey or black; Partially printed safety glass, fixed with stainless steel screws; reflector in matt anodised aluminium with asymmetric radiation characteristic; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 3000 K and 4000 K; CRI ≥ 80; min. 80 % of the luminous flux after 50000 hours; protection class IP 65, with pressure equalisation valve; PC I; shock resistance IK09; ambient temperatures from -20°C to + 50°C; side coupled light, directed up and down

Features



high quality lens

Standard configuration

IP RATING

IP65

COLOUR TEMPERATURE

3000K

5

CONTROL

non DIM

1

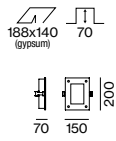
MATERIAL COLOUR

dark grey

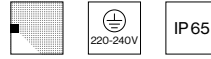
D

black

8



STREAMCUT wall



SYSTEM POWER

8 W

COLOUR TEMP.

3000K

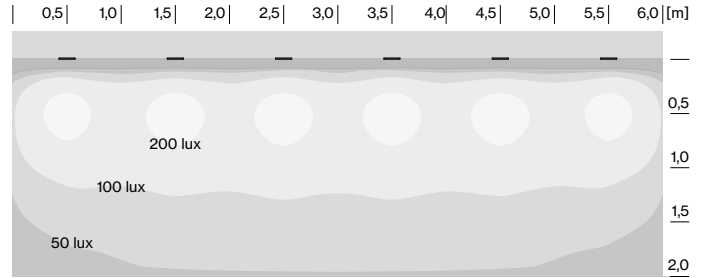
LUMINOUS FLUX

290lm

ORDER CODE

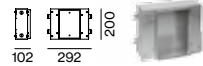
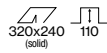
0 8 8 - 2 8 3 1 5 1

Illumination example



STREAMCUT WALL (6 luminaires)

wall mounting height from bottom: 0,8 m / distance between luminaires: 1,0 m



Accessory

MOUNTING HOUSING FOR CONCRETE AND SOLID WALLS

TYPE

concrete / solid walls

L-W-H (mm)

290-100-200

ORDER CODE

0 8 8 - 2 8 9 1 1 1 0

Inspiration

Private Residence
Visualisation

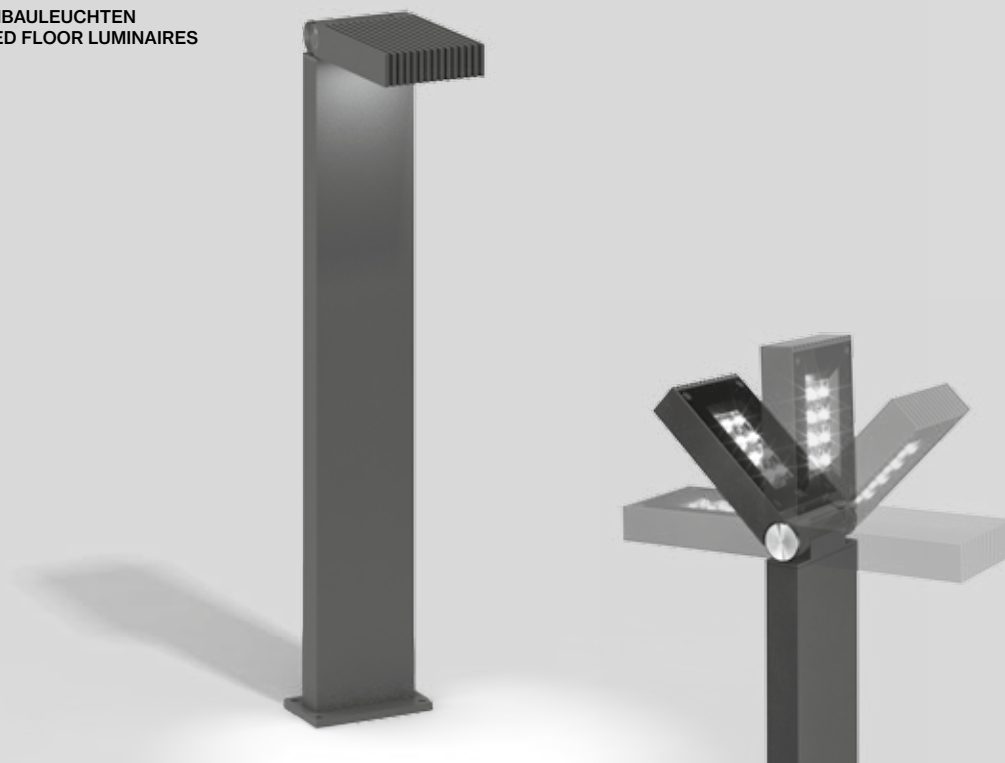
PRODUCT
STREAMCUT wall





STREAMCUT bollard

xal.com/streamcut



Quickinfo

GENERAL

standing
IP65
several mounting options

LED

High-power LED
up to 72 lm/W
3000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

asymmetric illumination
lens optics
glass cover

ELECTRICAL

non DIM
opt. integrated surge protection

PHYSICAL

aluminium
powder-coated
optimised corrosion protection
pressure compensation valve
shock resistance IK07

Description

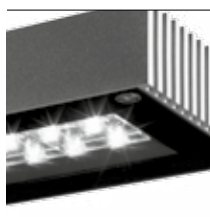
DE Pollerleuchte aus Aluminium in schlichtem, reduziertem Design; Leuchtenkopf mit integrierten Kühlrippen; +/- 90° schwenkbar und alle 30° fixierbar; Oberfläche schutzeloxiert und dunkelgrau pulverbeschichtet; Montage wahlweise auf Sockel aufgeschraubt oder mit Betonanker; Teilbedrucktes Sicherheitsglas, fixiert mit Edelstahlschrauben; hochwertiger Linsenoptik mit asymmetrischer Lichtverteilung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000h Lebensdauer; Schutzart IP65, mit Druckausgleichsventil und optional Überspannungsschutz Typ 2 mit Nennableitstrom 3kA; SK I; Schlagfestigkeit IK07; Umgebungstemperaturen von -20°C bis +50°C; separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung

EN Bollard luminaire in aluminium in a simple, minimalist design; luminaire head with integrated cooling fins; +/- 90° tiltable, lockable every 30°; anodised surface and dark grey powder coated; optional mounting on screw-on base or with concrete anchors; Partially printed safety glass, fixed with stainless steel screws; high quality lens system asymmetrical light distribution; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70% of the luminous flux after 50000 hours; protection class IP65, with pressure equalisation valve and optional surge protection typ 2 with nominal discharge current 3 kA; PC I; shock resistance IK07; ambient temperatures from -20°C to +50°C; side coupled light, directed up and down

Features



tilt adjustment 90°,
fixable from 0° - 90°



high quality lens

Standard configuration

IP RATING

IP65

SURGE PROTECTION

yes **5**
no 2
1

COLOUR TEMPERATURE

3000K 5

CONTROL

non DIM 1

MATERIAL COLOUR

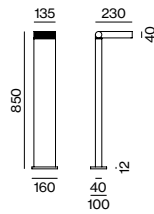
dark grey D



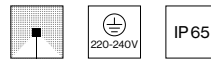
Options on request

CONTROL

phase-cut DIM

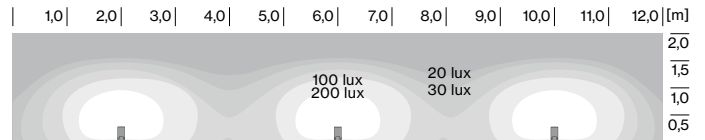


STREAMCUT bollard



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	980 lm	0 8 8 - 2 8 1 5 1 D A

Illumination example



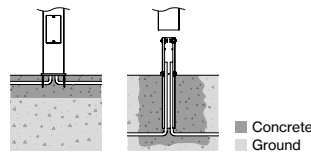
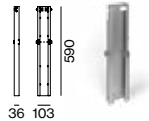
STREAMCUT BOLLARD (3 luminaires)

Distance between luminaires: 4,0m

Accessory

ANCHORAGE UNIT

TYPE	L-W-H (mm)	ORDER CODE
ANCHORAGE UNIT	84-32-590	0 8 8 - 2 8 9 3 1 1 0



Standard mounting

Mounting with ANCHORAGE UNIT

Inspiration

Private Residence
Visualisation

PRODUCT
STREAMCUT bollard





DOC wall

xal.com/doc



Quickinfo

GENERAL

surface mounted
IP54

LED

Mid-power LED
up to 81lm/W
3000K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80 / 50000 h

OPTICAL

PMMA cover opal

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
optimised corrosion protection
pressure compensation valve
shock resistance IK09

Description

DE Runde Aufbauleuchte, Leuchtenkörper aus Aluminiumdruckguss; zentrale Dekorscheibe aus Aluminium mittels Magnet befestigt; Oberfläche schutzeloxiert und dunkelgrau, weiß oder schwarz pulverbeschichtet; opale Abdeckung für absolut homogene Ausleuchtung; mit erhöhter Transmission und Diffusion; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 80% des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP54, mit Druckausgleichsventil; SK I; Schlagfestigkeit IK09; Umgebungstemperaturen von -20°C bis +50°C; bei ø360 mm: separater Leuchtenanschlussraum, geeignet für Durchgangsverkabelung

EN Round surface mounted luminaire, housing in die-cast aluminium; central decorative panel held by magnet; surface anodised and white, black or dark grey powder coated; opal cover for completely homogeneous illumination; with increased transmission and diffusion; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 80% of the luminous flux after 50000 hours; protection class IP54, with pressure equalisation valve; PC I; shock resistance IK09; ambient temperatures from -20°C to + 50°C; ø360 mm: separate luminaire wiring compartment, suitable for through wiring

Features



decorative plate with magnet



robust coverage
IK09

Standard configuration

IP RATING

IP54

CONTROL

non DIM 1

MATERIAL COLOUR

dark grey D



LIGHT OPTIC COVER

opal

Extended configuration

MATERIAL COLOUR

white 7

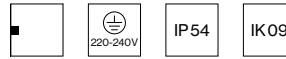
black 8



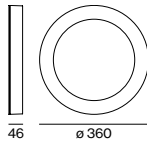
+5% surcharges



DOC 180 wall



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
13 W	3000 K	930 lm	0 8 8 - 2 7 1 0 5 1 <input checked="" type="checkbox"/>



DOC 360 wall



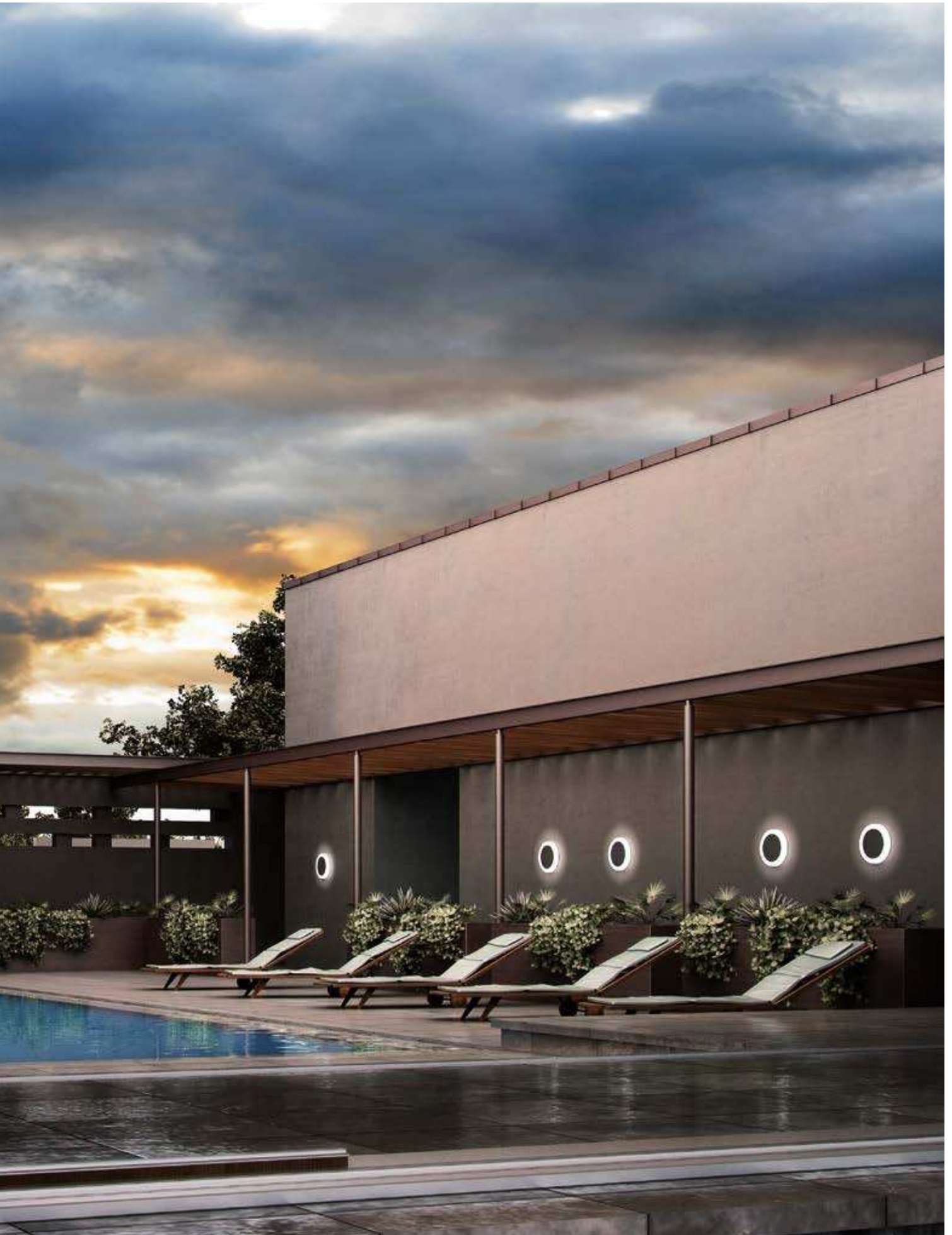
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28 W	3000 K	2260 lm	0 8 8 - 2 7 2 0 5 1 <input checked="" type="checkbox"/>

Inspiration

Private Residence
Visualisation

PRODUCT
DOC 180 wall





SOLIS

surface

xal.com/solis



Quickinfo

GENERAL

surface mounted
IP65
several mounting options

LED

High-power LED
up to 48 lm/W
2200 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

beam angle 20°, 35° (SOLIS 65)
beam angle 10°, 32° (SOLIS 110)
lens optics
glare reduction
glass cover

ELECTRICAL

non DIM

PHYSICAL

aluminium
powder-coated
optimised corrosion protection
shock resistance IK10

Description

DE Rundes Strahlerelement in 2 Größen aus Aluminium, geeignet als Boden- bzw. Wandaufbauleuchte; Leuchtenkopf 90° schwenkbar 355° drehbar; Oberfläche schutzeloziert und dunkelgrau pulverbeschichtet; Montage wahlweise aufgeschraubt oder mit Erdspieß; inkl. hochwertiger Linsenoptik mit 2 Ausstrahlwinkeln, dicht verklebte Abdeckung aus teilbedrucktem Sicherheitsglas (ESG); energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 2200 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000h Lebensdauer; Schutzart IP65; SK I; Schlagfestigkeit IK10; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Round spotlight element in 2 sizes in aluminium, suitable as floor or wall mounted luminaire; luminaire head tiltable 90° rotatable 355°; anodised surface and dark grey powder coated; optional mounting screwed on or with ground spike; incl. high quality lens system with 2 beam angles, bonded sealed diffuser in partially printed safety glass (ESG); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 2200 K; CRI ≥ 80; min. 70 % of the luminous flux after 50000 hours; protection class IP65; PC I; shock resistance IK10; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Standard configuration

IP RATING

IP 65

LED LENS SOLIS 65

medium 35°



M

LED LENS SOLIS 110

medium 32°



M

CONTROL

non DIM

1

MATERIAL COLOUR

dark grey

D

D

Extended configuration

LED LENS SOLIS 65

spot 20°



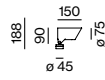
S

LED LENS SOLIS 110

spot 10°



S



SOLIS 65 surface



SYSTEM POWER

4 W

COLOUR TEMP.

2200 K

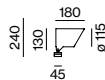
LUMINOUS FLUX

180 lm

ORDER CODE

0 8 8 - 1 1 5 0 5 1 D ▲

luminous flux spot 20°



SOLIS 110 surface



SYSTEM POWER

9 W

COLOUR TEMP.

2200 K

LUMINOUS FLUX

430 lm

ORDER CODE

0 8 8 - 1 1 6 0 5 1 D ▲

luminous flux spot 10°

Accessory

EARTH SPIKE

TYPE

earth spike

ORDER CODE

0 8 8 - 1 1 9 1 0 0



MOUNTING BOX SURFACE

TYPE

mounting box surface

ORDER CODE

0 8 8 - 1 1 9 2 0 0



CONNECTION BOX IP55

TYPE

connection box (ca. 50 ml)

L-W-H (mm)

90-45-37

ORDER CODE

0 8 6 - 3 0 0 9 1

cast resin 250 ml

0 8 6 - 3 0 0 9 2



Inspiration

XAL headquarters
Graz, Austria

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

PRODUCT
SOLIS surface





WISE wall

xal.com/wise



Quickinfo

GENERAL

wall recessed

IP54

optional concrete install. housing

LED

High-power LED

up to 56 lm/W

3000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

asymmetric illumination

lens optics

ELECTRICAL

non DIM

PHYSICAL

aluminium

powder-coated

optimised corrosion protection

Description

DE Wandeinbauleuchte aus Aluminium-druckguss, schutzeloxiert, mit umlaufendem Rand; Oberfläche weiß, grau oder dunkelgrau pulverbeschichtet; geeignet für Wandstärken von 10-25 mm; Einputzgehäuse für massive Wände als Zubehör erhältlich; asymmetrische Lichtverteilung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP54; SK I

EN Recessed wall luminaire made of anodised die-cast aluminium with trim; surface powder coated in white, grey or dark grey; suitable for wall thickness of 10-25 mm; flush housing for solid walls available as accessory; asymmetrical light distribution; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70 % of the luminous flux after 50000 hours; protection class IP54; PC I

Standard configuration

IP RATING

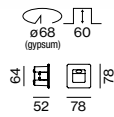
IP54

CONTROL

non DIM 1

MATERIAL COLOUR

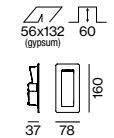
white 7
grey 6
dark grey D



WISE MINI wall



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,4 W	3000 K	80 lm	0 5 2 - 7 4 5 0 5 1 <input checked="" type="checkbox"/>



WISE wall



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
1,4 W	3000 K	80 lm	0 5 2 - 7 4 6 0 5 1 <input checked="" type="checkbox"/>

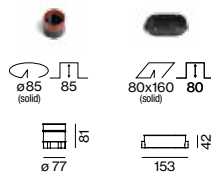
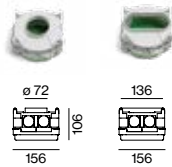
Accessory

INSTALLATION HOUSING FOR CONCRETE

TYPE	ORDER CODE
WISE MINI	0 5 2 - 7 4 1 9 9 1 0
WISE	0 5 2 - 7 4 3 9 9 1 0

INSTALLATION HOUSING FOR SOLID WALLS

TYPE	ORDER CODE
WISE MINI	0 5 2 - 7 4 1 9 9 2 0
WISE	0 5 2 - 7 4 3 9 9 2 0



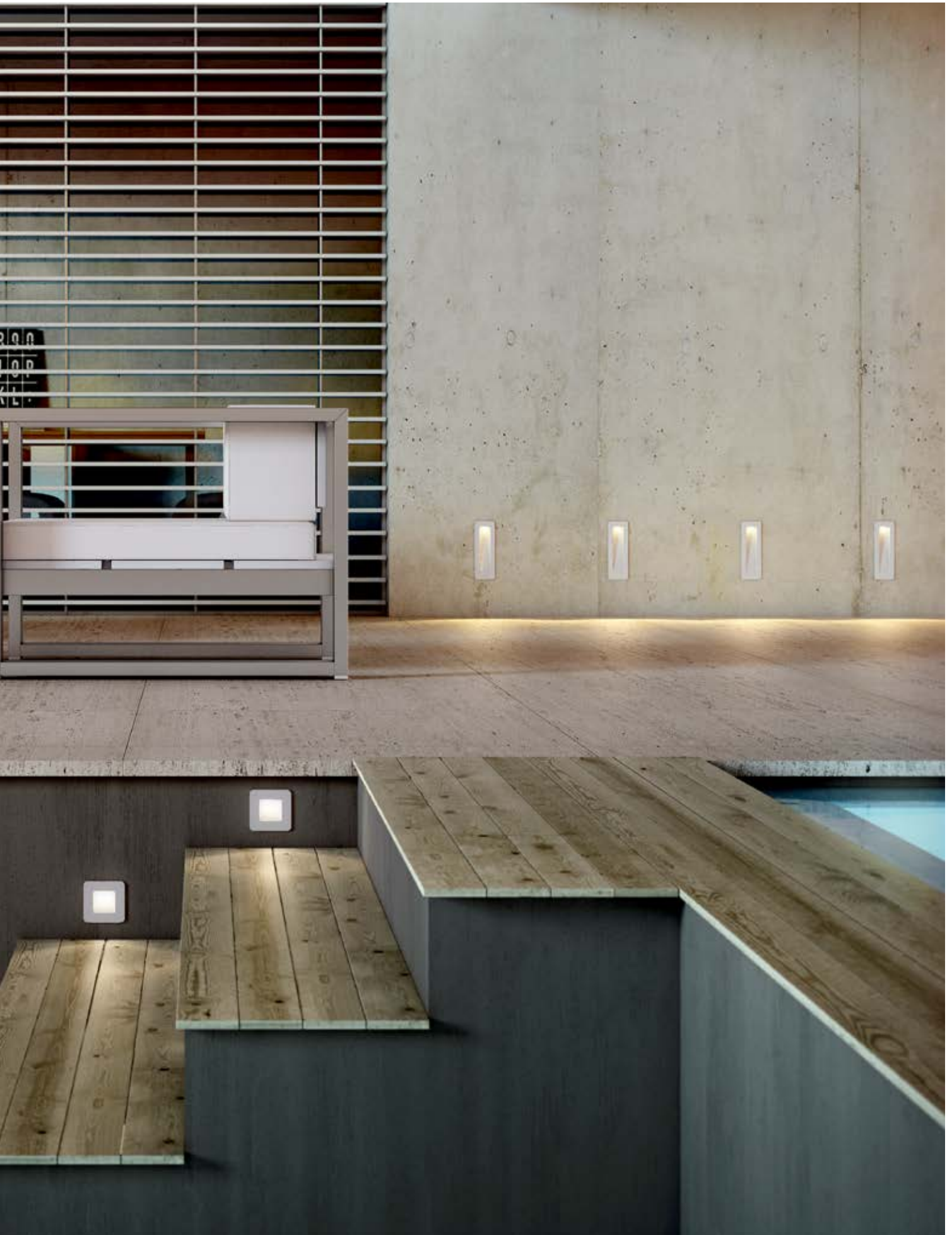
Inspiration

Private Residence
Visualisation

PRODUCT

WISE wall, WISE MINI wall





LETU 65

recessed

xal.com/letu



Quickinfo

GENERAL

recessed
IP 67
several installation housings

LED

High-power LED
up to 45 lm/W
3000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000 h

OPTICAL

beam angle 20°, 35°
lens optics
cover opal
glass cover

ELECTRICAL

non DIM
300 mm connection cable

PHYSICAL

aluminium
anodised
optimised corrosion protection
shock resistance IK10

Description

DE Runder Bodeneinbaustrahler aus Aluminium, schutzeloziert; begehbar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugeschäuses; Montage-ring für Einbau in Decken oder Holzböden mit umlaufenden Rand geeignet für 1-25 mm Materialstärke; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik mit 2 Ausstrahlwinkeln (Abdeckung teilbedruckt); oder mit homogen ausgeleuchteter, satinierter Abdeckung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP 67; SK I; Schlagfestigkeit IK10; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Round floor recessed luminaire made of anodised aluminium; accessible design; no visible edge when using floor or wall installation housing; mounting ring for installation in ceilings or wooden floors with with trim suitable for a material thickness of 1-25 mm; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system with 2 beam angles (diffuser partially printed); or with homogeneously illuminated, satinised diffuser; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70% of the luminous flux after 50000 hours; protection class IP 67; PC I; shock resistance IK10; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Features



optionally for ceilings

Standard configuration

IP RATING

IP67 _____

COLOUR TEMPERATURE

3000K _____ 5

CONTROL

non DIM _____ 1

LED LENS

spot 20° _____ S

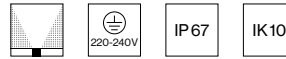
medium 35° _____ M

LIGHT OPTIC COVER

opal _____ O



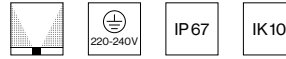
LETU 65 lens



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4W	3000K	180lm	088-5610516▲



LETU 65 opal

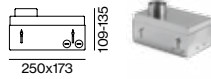


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4W	3000K	120lm	088-5610516O

Mounting accessories

TRIMLESS MOUNTING HOUSING

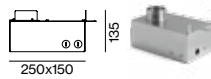
for installation in floors



TYPE	L-W-H (mm)	ORDER CODE
standard	250-173-109-135	086-31126

TRIMLESS MOUNTING HOUSING

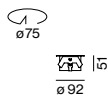
for brick and concrete walls



TYPE	L-W-H (mm)	ORDER CODE
standard	250-150-135	086-31226

MOUNTING SET WITH TRIM

for installation in ceilings/wooden floor 1-25 mm



TYPE	Ø-H (mm)	ORDER CODE
standard	92-40	086-31305

offset (10 mm) ring included

Accessories

COVER FRAME FOR FLOOR MOUNTING



TYPE	Ø-H (mm)	ORDER CODE
cover frame	80-20	086-31406

VACUUM CAP



TYPE	ORDER CODE
vacuum cap	086-30000

CONNECTION BOX IP55

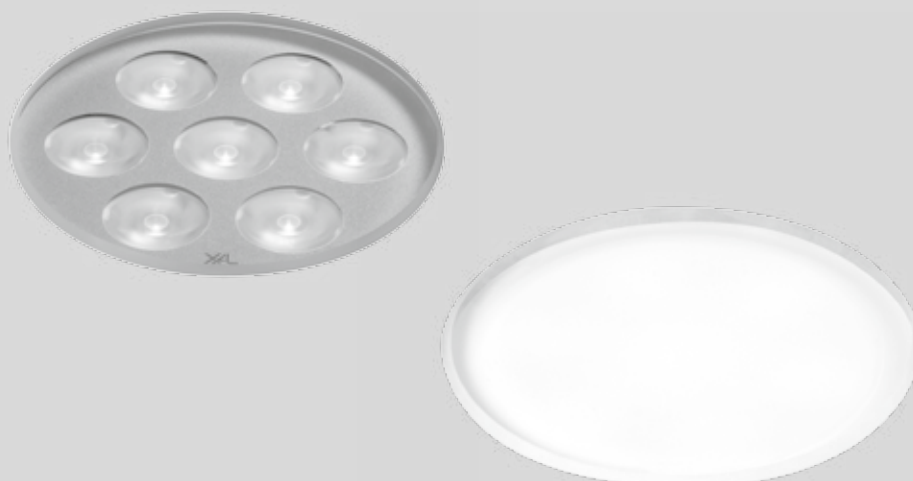


TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50 ml)	90-45-37	086-30091
cast resin 250 ml		086-30092

LETU 110

recessed

xal.com/letu



Quickinfo

GENERAL

floor recessed

IP67

several installation housings

LED

High-power LED/COB LED module

Up to 63lm/W

3000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

beam angle 35°

lens optics

cover opal

glass cover

ELECTRICAL

non DIM

300 mm connection cable

PHYSICAL

aluminium

anodised

optimised corrosion protection

shock resistance IK10

Description

DE Runder Bodeneinbaustrahler aus Aluminium, schutzeloziert; begehbar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugeschäuses; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik (Abdeckung teilbedruckt); oder Einzellinse aus Glas (Abdeckung nicht satiniert); oder mit homogen ausgeleuchteter, satinierter Abdeckung; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000h Lebensdauer; Schutzart IP67; SK I; Schlagfestigkeit IK10; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Round floor recessed luminaire made of anodised aluminium; accessible design; no visible edge when using floor or wall installation housing; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system (diffuser partially printed); or single lens made of glass, cover not satinised; or with homogeneously illuminated, satinised diffuser; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70 % of the luminous flux after 50000 hours; protection class IP67; PC I; shock resistance IK10; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Standard configuration

IP RATING

IP67

COLOUR TEMPERATURE

3000K 5

CONTROL

non DIM 1

LED LENS

spot 24° S

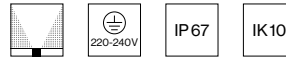
medium 35° M

LIGHT OPTIC COVER

opal O



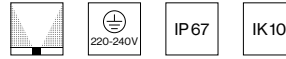
LETU 110 lens



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	3000K	420lm	088-5621516M



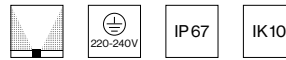
LETU 110 opal



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	3000K	290lm	088-5621516O



LETU 110 single spot 24°

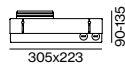


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12W	3000K	740lm	088-5623516S

Mounting accessories

TRIMLESS MOUNTING HOUSING

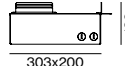
for installation in floors



TYPE	L-W-H (mm)	ORDER CODE
standard	305-223-90-135	086-31166

TRIMLESS MOUNTING HOUSING

for brick and concrete walls



TYPE	L-W-H (mm)	ORDER CODE
standard	303-200-138	086-31266

Accessories

COVER FRAME FOR FLOOR MOUNTING



TYPE	Ø-H (mm)	ORDER CODE
cover frame	135-20	086-31446

VACUUM CAP



TYPE	ORDER CODE
VACUUM CAP	086-30000

CONNECTION BOX IP55



TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50 ml)	90-45-37	086-30091
cast resin 250 ml		086-30092

Inspiration

Vineyard Georgiberg
Berghausen, Austria

PRODUCT
LETU 110 recessed

ARCHITECT
DI Helmut Perner
Preding, Austria





LECU 65

recessed

xal.com/lecu



Quickinfo

GENERAL

floor recessed

IP67

several installation housings

LED

High-power LED

up to 45lm/W

3000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

asymmetric illumination

beam angle 30°

lens optics

cover opal

glass cover

ELECTRICAL

non DIM

300 mm connection cable

PHYSICAL

aluminium

anodised

optimised corrosion protection

shock resistance IK10

Description

DE Quadratischer Bodeneinbaustrahler aus Aluminium, schutzeloziert; begehbar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugeschäuses; Montagering für Einbau in Decken oder Holzböden mit umlaufenden Rand geeignet für 1-25 mm Materialstärke; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik (Abdeckung teilbedruckt); oder mit homogen ausgeleuchteter, satinierter Abdeckung; optional Linsen mit Wallwashercharakteristik (7° zur Vertikalen geneigt) verfügbar; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP67; SK I; Schlagfestigkeit IK10; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Square recessed ground spotlight made of anodised aluminium; accessible design; no visible edge when using floor or wall installation housing; mounting ring for installation in ceilings or wooden floors with with trim suitable for a material thickness of 1-25 mm; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system (diffuser partially printed); or with homogeneously illuminated, satinised diffuser; optional lenses available with wall washer characteristic (7° incline to vertical); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70% of the luminous flux after 50000 hours; protection class IP67; PC I; shock resistance IK10; ambient temperatures from -20°C to + 50°C; power supply via 300 mm connecting cable

Features



optionally for ceilings

Standard configuration

IP RATING

IP67 _____

COLOUR TEMPERATURE

3000K _____ 5

CONTROL

non DIM _____ 1

LED LENS

medium 30° _____ M

LIGHT OPTIC COVER

opal _____ O



LECU 65 lens



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000K	240lm	0 8 8 - 5 7 1 0 5 1 6 M



LECU 65 asymmetric



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000K	240lm	0 8 8 - 5 7 1 2 5 1 6 M

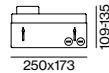


LECU 65 opal



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	3000K	160lm	0 8 8 - 5 7 1 0 5 1 6 O

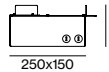
Mounting accessories



TRIMLESS MOUNTING HOUSING

for installation in floors

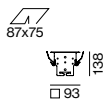
TYPE	L-W-H (mm)	ORDER CODE
standard	250-173-109-135	0 8 6 - 3 0 1 2 6



TRIMLESS MOUNTING HOUSING

for brick and concrete walls

TYPE	L-W-H (mm)	ORDER CODE
standard	250-150-137	0 8 6 - 3 0 2 2 6



MOUNTING SET WITH TRIM

for installation in ceilings/wooden floor 1-25 mm

TYPE	L-W-H (mm)	ORDER CODE
standard	97-97-80	0 8 6 - 3 0 3 0 5

offset (10 mm) ring included

Accessories



COVER FRAME FOR FLOOR MOUNTING

TYPE	Ø-H (MM)	ORDER CODE
cover frame	80-80-20	0 8 6 - 3 0 4 0 6



VACUUM CAP

TYPE	ORDER CODE
vacuum cap	0 8 6 - 3 0 0 0 0



CONNECTION BOX IP55

TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50 ml)	90-45-37	0 8 6 - 3 0 0 9 1
cast resin 250 ml		0 8 6 - 3 0 0 9 2

LECU 110

recessed

xal.com/lecu



Quickinfo

GENERAL

floor recessed

IP67

several installation housings

LED

High-power LED

up to 45lm/W

3000K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

asymmetric illumination

beam angle 30°

lens optics

cover opal

glass cover

ELECTRICAL

non DIM

300 mm connection cable

PHYSICAL

aluminium

anodised

optimised corrosion protection

shock resistance IK10

Description

DE Quadratischer Bodeneinbaustrahler aus Aluminium, schutzeloziert; begehbar ausgeführt; kein sichtbarer Rand bei Verwendung des Boden- bzw. Wandeinbaugeschützes; dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); wahlweise mit hochwertiger Linsenoptik (Abdeckung teilbedruckt); oder mit homogen ausgeleuchteter, satinierter Abdeckung; optional Linsen mit Wallwashercharakteristik (7° zur Vertikalen geneigt) verfügbar; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000K; CRI ≥ 80; min. 70% des Lichtstromes nach 50000h Lebensdauer; Schutzart IP67; SK I; Schlagfestigkeit IK10; Umgebungstemperaturen von -20°C bis +50°C; Spannungsversorgung über 300 mm Anschlussleitung

EN Square recessed ground spotlight made of anodised aluminium; accessible design; no visible edge when using floor or wall installation housing; tightly bonded cover in 12 mm safety glass (ESG); with optional high-quality lens system (diffuser partially printed); or with homogeneously illuminated, satinised diffuser; optional lenses available with wall washer characteristic (7° incline to vertical); energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000K; CRI ≥ 80; min. 70% of the luminous flux after 50000 hours; protection class IP67; PC I; shock resistance IK10; ambient temperatures from -20°C to +50°C; power supply via 300 mm connecting cable

Standard configuration

IP RATING
IP67

COLOUR TEMPERATURE
3000K 5

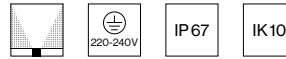
CONTROL
non DIM 1

LED LENS
medium 30° M

LIGHT OPTIC COVER
opal O

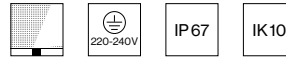


LECU 110 lens



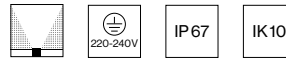
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000K	540lm	0 8 8 - 5 7 2 1 5 1 6 M

LECU 110 asymmetric



SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000K	530lm	0 8 8 - 5 7 2 2 5 1 6 M

LECU 110 opal

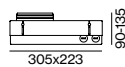


SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
12 W	3000K	370lm	0 8 8 - 5 7 2 1 5 1 6 O

Mounting accessories

TRIMLESS MOUNTING HOUSING

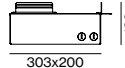
for installation in floors



TYPE	L-W-H (mm)	ORDER CODE
standard	305-223-90-135	0 8 6 - 3 0 1 6 6

TRIMLESS MOUNTING HOUSING

for brick and concrete walls



TYPE	L-W-H (mm)	ORDER CODE
standard	305-200-138	0 8 6 - 3 0 2 6 6

Accessories

COVER FRAME FOR FLOOR MOUNTING



TYPE	L-W-H (mm)	ORDER CODE
cover frame	140-140-22	0 8 6 - 3 0 4 5 6

VACUUM CAP



TYPE	ORDER CODE
vacuum cap	0 8 6 - 3 0 0 0 0

CONNECTION BOX IP55



TYPE	L-W-H (mm)	ORDER CODE
connection box (ca. 50 ml)	90-45-37	0 8 6 - 3 0 0 9 1
cast resin 250 ml		0 8 6 - 3 0 0 9 2

Inspiration

XALcc
Graz, Austria

ARCHITECT
INNOCAD Architektur ZT
Graz, Austria

PRODUCT
LECU 65 recessed

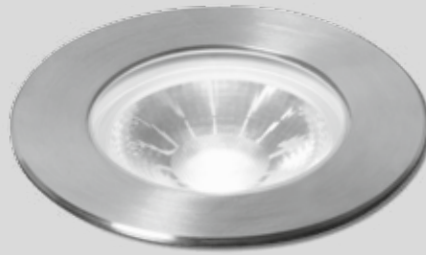




FILO 160

round / square trim

xal.com/filo



Quickinfo

GENERAL

floor recessed

IP67

optional installation housing

LED

COB LED module

up to 53lm/W

3000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L70 / 50000h

OPTICAL

beam angle 24°, 40°

adjustable optics

lens optics

glass cover

ELECTRICAL

non DIM

PHYSICAL

aluminium, stainless steel

optimised corrosion protection

Description

DE Bodeneinbaustrahler aus Aluminiumdruckguss, schutzeloziert; überrollbar bis 2000 kg; wahlweise mit rundem oder quadratischem Abdeckring aus geschliffenem Edelstahl; keine sichtbaren Schrauben; Bodeneinbaugehäuse aus schwarzem, hochfestem Kunststoff als Zubehör erhältlich; Einzellinse aus Glas, dicht verklebte Abdeckung aus 12 mm Sicherheitsglas (ESG); optional in +/- 15° schwenkbarer Ausführung lieferbar; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in der Lichtfarbe 3000 K; CRI ≥ 80; min. 70 % des Lichtstromes nach 50000 h Lebensdauer; Schutzart IP67; SK I; Umgebungstemperaturen von -20°C bis +50°C; Leuchte mit integriertem Konverter mit Harz ausgegossen

EN Recessed floor spotlight made of anodised die-cast aluminium; roll-over weight up to 2000 kg; optionally with round or square bezel made of polished stainless steel; no visible screws; recessed floor housing in black, high-strength plastic, available as an accessory; single glass lens, bonded sealed cover in 12 mm safety glass (ESG); optional in +/- 15° schwenkbarer Ausführung lieferbar; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colour 3000 K; CRI ≥ 80; min. 70 % of the luminous flux after 50000 hours; protection class IP67; PC I; ambient temperatures from -20°C to + 50°C; Luminaire with integrated converter filled with resin

Features



H₂O stop

Standard configuration

IP RATING

IP67

CONTROL

non DIM

1

LED LENS

flood 40°

▲

F

Extended configuration

LED LENS

medium 24°

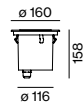
▲

M

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90



FILO 160 round

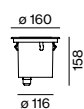


SYSTEM POWER
12 W

COLOUR TEMP.
3000K

LUMINOUS FLUX
500lm

ORDER CODE
0 8 8 - 5 3 5 3 5 1 5 ▲



FILO 160 round turn

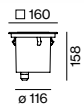


SYSTEM POWER
8 W

COLOUR TEMP.
3000K

LUMINOUS FLUX
440lm

ORDER CODE
0 8 8 - 5 3 5 1 5 1 5 ▲



FILO 160 square

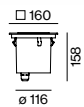


SYSTEM POWER
12 W

COLOUR TEMP.
3000K

LUMINOUS FLUX
500lm

ORDER CODE
0 8 8 - 5 3 6 3 5 1 5 ▲



FILO 160 square turn

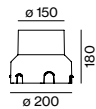


SYSTEM POWER
8 W

COLOUR TEMP.
3000K

LUMINOUS FLUX
440lm

ORDER CODE
0 8 8 - 5 3 6 1 5 1 5 ▲



Mounting accessories

MOUNTING HOUSING

TYPE
standard

ORDER CODE

0 8 8 - 5 3 9 0 0 1 8

Accessories

CONNECTION BOX IP55

TYPE
connection box (ca. 50ml)
cast resin 250ml

L-W-H (mm)
90-45-37

ORDER CODE

0 8 6 - 3 0 0 9 1

0 8 6 - 3 0 0 9 2



VACUUM CAP

TYPE
vacuum cap

ORDER CODE

0 8 6 - 3 0 0 0 0

Inspiration

Private Residence
Wörthersee, Austria

PRODUCT
FILO 160 round turn

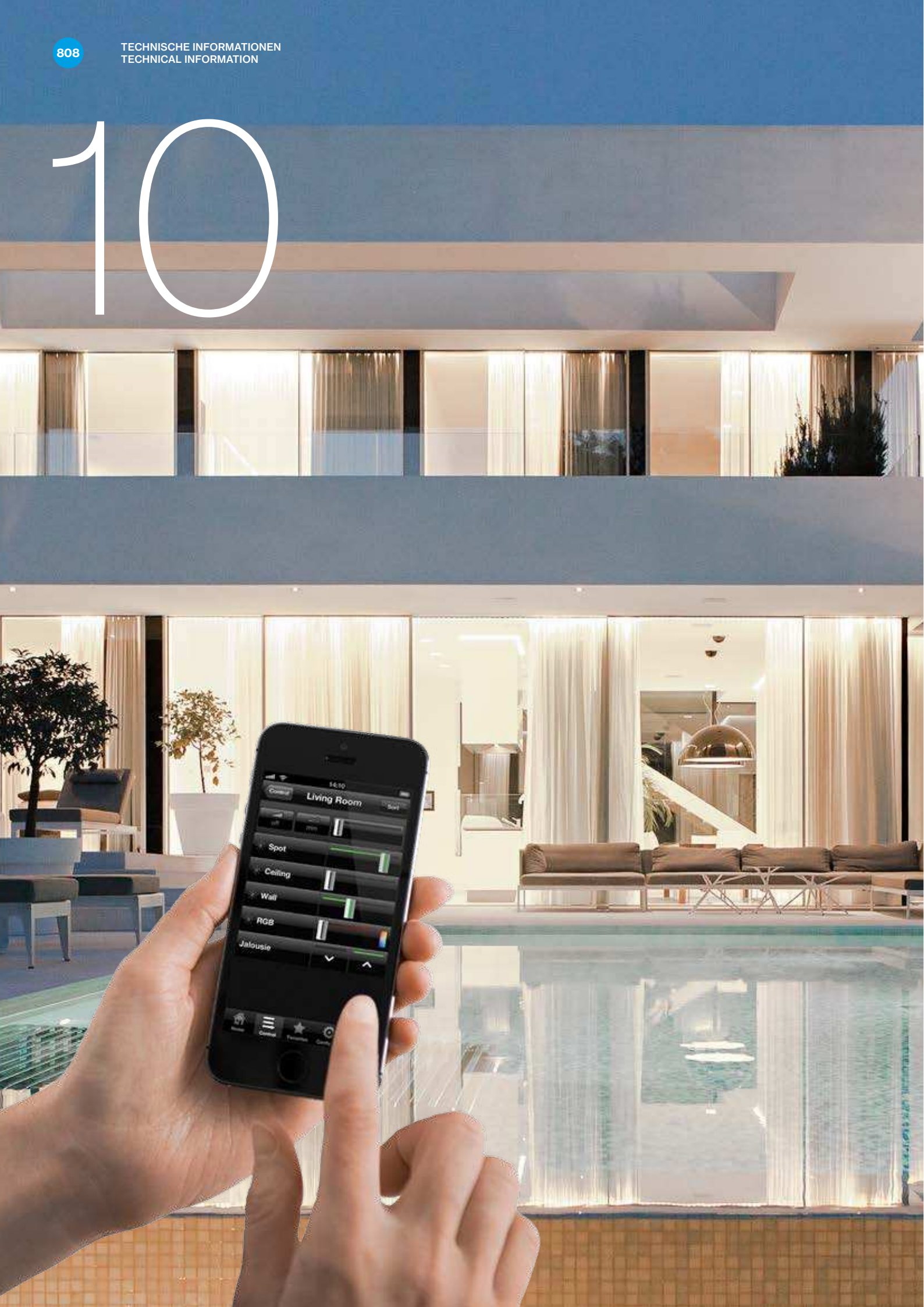
ARCHITECT
ROOMS - ATELIER ARMW GmbH
Ebenthal, Austria

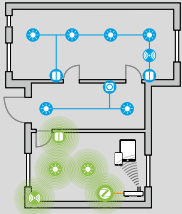
INTERIOR DESIGN
Rooms
Klagenfurt, Austria





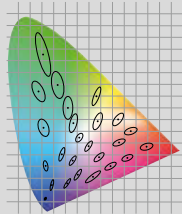
10





LIGHTING CONTROLS

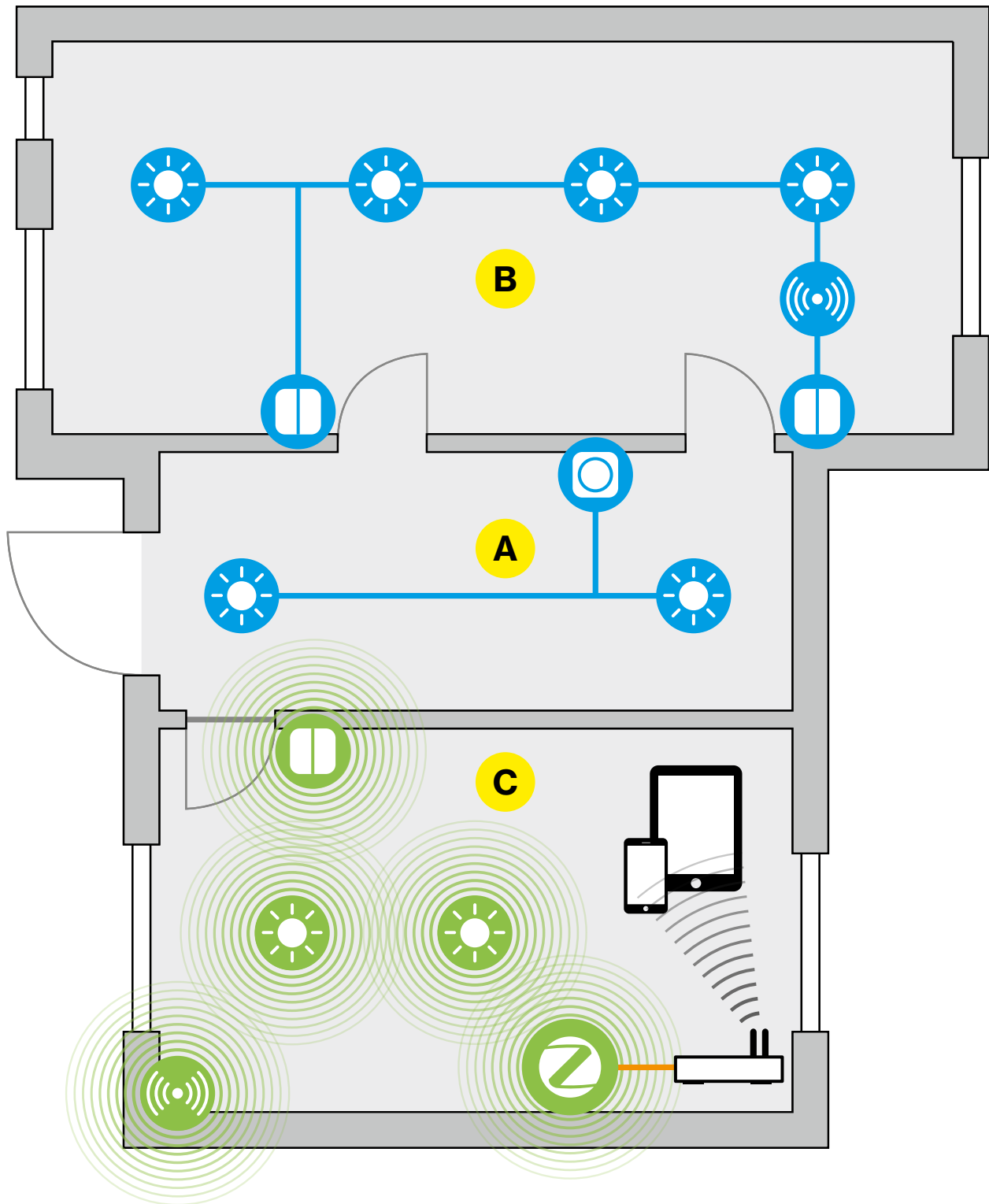
➔ 810



TECHNOLOGY

➔ 814

Overview lighting controls



Light ZigBee



Wall switch ZigBee



Sensor ZigBee



ZigBee gateway

CAT5 Ethernet

ZigBee



Light DALI



Wall switch DALI



WLAN router

DALI Bus

WLAN



Sensor DALI



Rotary dimmer DALI



Smart device

A Basic Lighting Control



DE Drehschalter zum intuitiven manuellen Dimmen, Schalten und Einstellen der Farbtemperatur (DALI MCU Tunable White); geeignet für bis zu 25 elektronische Vorschaltgeräte; bis zu 4 DALI MCU zum Aufbau mehrerer Bedienstellen; automatische Synchronisation zwischen den Bedienstellen; Rahmen und Drehknopf in neutralweiß.

EN Rotary switch for intuitive manual dimming, switching and setting of the colour temperature (DALI MCU Tunable White); suitable for up to 25 electronic ballast units; up to 4 DALI MCUs for setting up several control points; automatic synchronisation between the control points; mount and knob in neutral white.

DALI MCU 220-240 V

TYPE	L-W-H (mm)	ORDER CODE
DALI MCU dimmer	80-80-50	0 0 2 - 5 2 1 6 0

DALI MCU TUNABLE WHITE 220-240 V

TYPE	L-W-H (mm)	ORDER CODE
DALI MCU Tunable White	80-80-50	0 0 2 - 5 2 1 6 1

B Basic Lighting Control and Automation



DE Tasterinterface zur einfachen Steuerung von DALI-Leuchten; die Steuerung erfolgt mittels DALI-Broadcast-Befehlen; max. 2 x 16 DALI-EVG; Anbindung von Sensoren möglich.

EN Button interface for the simple control of DALI luminaires; it is controlled by use of DALI broadcast commands; max. 2 x 16 DALI electronic ballasts; connection to sensors possible.

DALI ECO CONTROL 220-240 V

TYPE	L-W-H (mm)	ORDER CODE
DALIeco control	118-30-21	0 0 2 - 5 2 1 6 2
ceiling insertion kit		0 0 2 - 5 2 1 6 3

MASTER REMOTE

TYPE	L-W-H (mm)	ORDER CODE
DALIeco master remote	230-45-13	0 0 2 - 5 2 1 6 6

USER REMOTE

TYPE	L-W-H (mm)	ORDER CODE
DALIeco user remote	230-45-13	0 0 2 - 5 2 1 6 7

DAYLIGHT AND MOVEMENT SENSOR - PIR

TYPE	L-W-H (mm)	ORDER CODE
DALIeco LS/PD LI NP	48-17-15	0 0 2 - 5 2 1 6 4

DAYLIGHT AND MOVEMENT SENSOR - HF

TYPE	L-W-H (mm)	ORDER CODE
HF LS LI	56-28-21	0 0 2 - 5 2 1 6 5

C Wireless Lighting Management



DE Zentrale Basis für kabelloses Lichtsteuerungssystem auf ZigBee-Funkstandard; bis zu 100 Lichtpunkte, Sensoren und Taster möglich; intuitive Konfiguration und Steuerung per Smart Devices; Stand-alone-Betrieb oder Integration in eine bestehende IT-Infrastruktur; Einbindung von DALI-Komponenten.

EN Central base for wireless lighting control system based on ZigBee radio standard; up to 100 light points, sensors and buttons possible; intuitive configuration and control using smart devices; stand-alone operation or integrated into an existing IT infrastructure; integration of DALI components.

LIGHTIFY PRO GATEWAY 220-240 V

TYPE	L-W-H (mm)	ORDER CODE
LIGHTIFY Pro Gateway	160-85-26	0 0 2 - 5 2 1 6 8

LIGHTIFY PRO DSE 220-240 V

TYPE	L-W-H (mm)	ORDER CODE
LIGHTIFY Pro DSE	200-30-21	0 0 2 - 5 2 1 6 9

LIGHTIFY PRO DSE + HF SENSOR

TYPE	L-W-H (mm)	ORDER CODE
LIGHTIFY Pro DSE HF	45-45-18	0 0 2 - 5 2 1 7 2

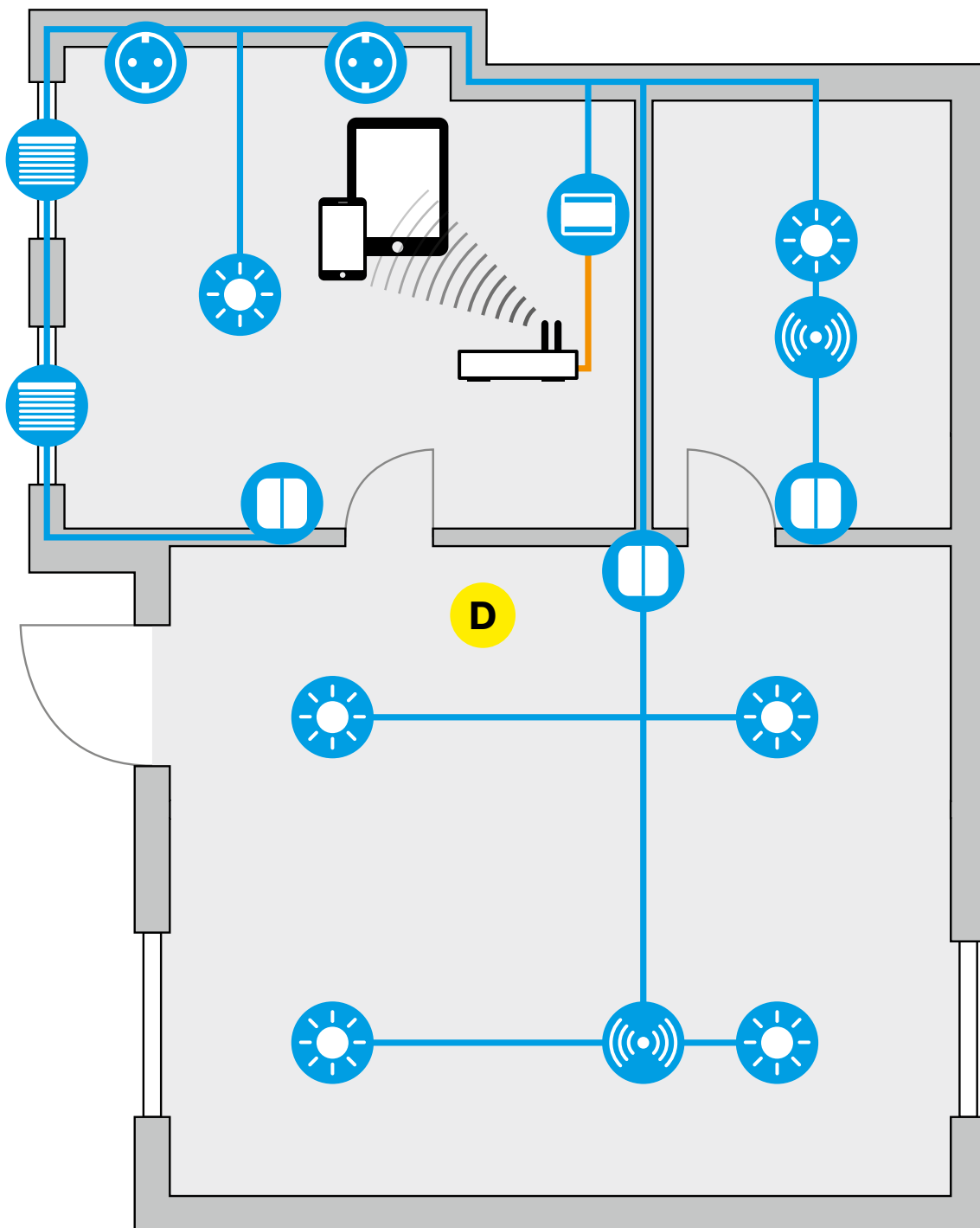
LIGHTIFY PRO DSE + PIR SENSOR

TYPE	L-W-H (mm)	ORDER CODE
LIGHTIFY Pro DSE PIR	200-30-21	0 0 2 - 5 2 1 7 1

LIGHTIFY PRO PBC 220-240 V

TYPE	L-W-H (mm)	ORDER CODE
LIGHTIFY Pro PBC	45-45-18	0 0 2 - 5 2 1 7 0

Overview lighting controls



Light



Power socket



Wall switch



WLAN router

CAT5 Ethernet



Jalousie



Sensor



DALI gateway



Smart device

WLAN

DALI Bus

D Advanced Lighting Control and Management



DE Steuergerät zu XAL-LC-DALI-App; Verwaltung von max. 64 Adressen, 16 Gruppen und 16 Szenen; Inbetriebnahme direkt über iPhone/iPad; Einbindung in ein bestehendes Netzwerk bzw. WLAN erforderlich; leichte Einbindung von Zusatzkomponenten (DALI XC, Bewegungs- und Helligkeitssensor); Jalousie-Ansteuerung möglich; XAL LC App im App Store kostenlos downloadbar.

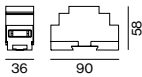
EN Control unit for XAL LC DALI app; control of up to 64 addresses, 16 groups and 16 scenes; activation directly via iPhone/iPad; integration in existing network or WLAN necessary; easy extension with other components (DALI XC, Motion Sensor and light sensor); control of window blinds possible; free download of the XAL LC app from the App Store.

iPHONE DALI GATEWAY 12-48V DC

TYPE	ORDER CODE
iPhone DALI Gateway	0 0 2 - 5 2 0 6 9

POWER SUPPLY 220-240V

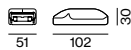
TYPE	L-W-H (mm)	ORDER CODE
24V	93-25-56	0 0 2 - 5 9 8 9 1



DALI POWER SUPPLY 220-240V

TYPE	L-W-H (mm)	ORDER CODE
PS 240 mA	90-36-58	0 0 2 - 5 9 8 7 1

for top-hat-rail mounting



DALI POWER SUPPLY 120-240V

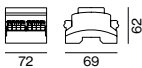
TYPE	L-W-H (mm)	ORDER CODE
XPS1 200 mA	102-51-30	0 0 2 - 5 9 8 8 0

for ceiling insertion



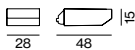
DALI RELAY ACTOR

TYPE	L-W-H (mm)	ORDER CODE
1 channel	120-115-95	0 0 2 - 5 2 0 6 7
3 channel	120-115-95	0 0 2 - 5 2 0 6 8



DALI REPEATER 100-240V

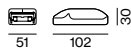
TYPE	L-W-H (mm)	ORDER CODE
DALI Repeater	72-69-62	1 3 2 - 3 0 1 0 9 3



DALI MODULE for group/scene control

TYPE	L-W-H (mm)	ORDER CODE
XC	48-28-15	0 0 2 - 5 4 0 2 6

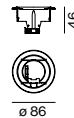
DALI control of 4 scenes / 2 groups



DALI PCD/S PHASE DIMMER 220-240V

TYPE	L-W-H (mm)	ORDER CODE
1-300 VA	102-51-30	0 0 2 - 5 4 0 4 1

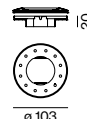
for ceiling insertion



LIGHT SENSOR / MOTION DETECTOR 6mA

TYPE	Ø-H (mm)	ORDER CODE
ceiling mounted	86-46	0 0 2 - 5 4 0 5 1

operating area at 2.5m (Ø5m) / max. height 5m / tiltable ± 15°



LIGHT SENSOR / MOTION DETECTOR 6mA

TYPE	Ø-H (mm)	ORDER CODE
socket mounted	103-20	0 0 2 - 5 4 0 5 3

operating area at 2.5m (Ø5m) / max. height 5m / tiltable ± 15°



LIGHT SENSOR / MOTION DETECTOR 6mA

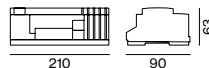
TYPE	Ø-H (mm)	ORDER CODE
surface mounted	86-40	0 0 2 - 5 4 0 5 8

operating area 2.5m (Ø5m) / max. mounting height 5m



DALI BLIND INTERFACE 220-240V

TYPE	L-W-H (mm)	ORDER CODE
jalousie interface	105-51-30	0 0 2 - 5 2 0 7 1



DALI BLIND ACTOR 220-240V

TYPE	L-W-H (mm)	ORDER CODE
4 AC motors	210-90-63	0 0 2 - 5 2 0 7 0

More wireless systems

DE Für weitere Systeme zur kabellosen Steuerung von XAL-Leuchten mit Funktechnologien wie ZigBee, Enocean und Z-Wave besuchen Sie bitte unsere Website unter www.xal.com/de/services

EN For further details of wireless control systems for XAL luminaires using radio technologies, such as ZigBee, Enocean and Z-Wave, please visit our website at www.xal.com/en/services/

Technology control

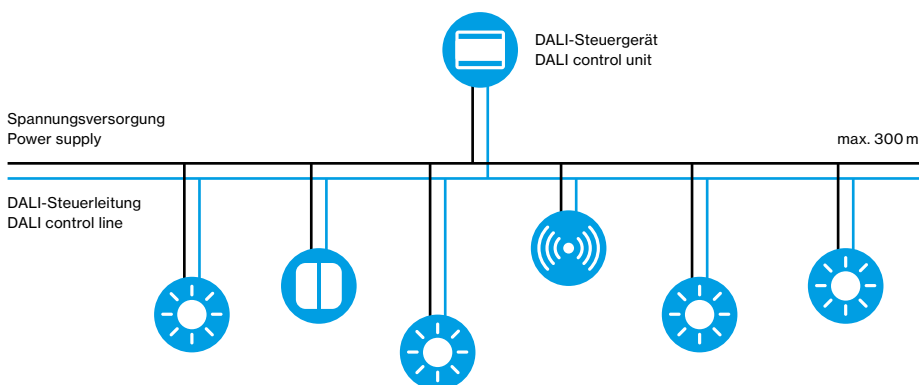


Dali Lighting Control

DE Das Steuerungsprotokoll DALI (DIGITAL ADDRESSABLE LIGHTING INTERFACE) ist in der Gebäudeautomatisierung ein Standard zur Steuerung von lichttechnischen Betriebsgeräten. Zur Installation wird nur eine 2-adrige Steuerleitung benötigt, welche auch gemeinsam mit der Spannungsversorgung in einer fünfadrigen Mantelleitung mitgeführt werden kann. Die maximale Leitungslänge beträgt 300 Meter, bei einem Leitungsquerschnitt von 1,5 mm². Insgesamt können pro DALI-Linie bis zu 64 Adressen und/oder 16 Gruppen bzw. 16 Szenen angesteuert werden.

Dali Lighting Control

EN The DALI (DIGITAL ADDRESSABLE LIGHTING INTERFACE) control protocol is a standard for the control of lighting devices in building automation. A two-wire control cable is all that is required for installation, which can also be run alongside the supply voltage in a five-core cable. The maximum cable length is 300 metres, with a cable cross-section of 1.5 mm². In total, up to 64 addresses and/or 16 groups or 16 lighting settings can be controlled per DALI line.



WIRELESS ZigBee Lighting Control

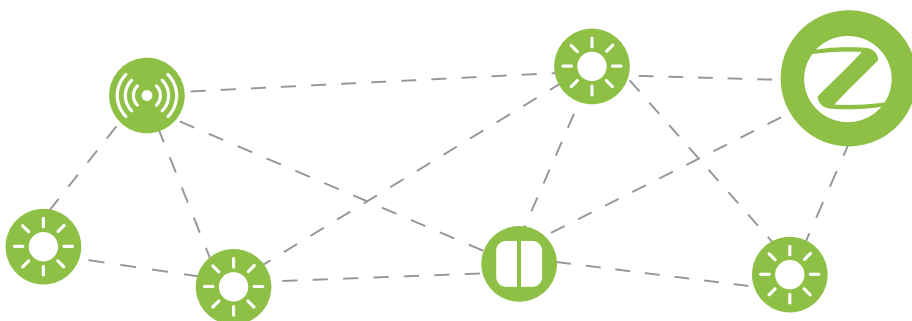
DE Das Funkprotokoll ZigBee hat sich im Smart-Home-Bereich und insbesondere in der Lichtsteuerung zum Standard entwickelt. Seit der neuesten ZigBee-Version 3.0 wurden die bisher einzelnen Profile zu einem multifunktionalen und uniformen Protokoll zusammengefasst. Dies ermöglicht ein flexibles und unkompliziertes Vernetzen verschiedener Gerätetypen unterschiedlicher Hersteller. Damit lassen sich z.B. Leuchten, Sensoren und Taster intuitiv per Mobile App ansteuern und einstellen. Die XAL-Leuchten, die mit einem durch die ZigBee-Alliance zertifizierten ZigBee-3.0-Modul ausgestattet sind, erfüllen die höchsten Sicherheitsstandards und Kompatibilitätskriterien:

- führender Funkstandard im Smart Lighting
- keine zusätzliche Verkabelung nötig
- ausgereifte Sicherheitsmechanismen
- einfache Steuerung und Einrichtung per App
- hohe Reichweiten dank Mesh-Netzwerk

WIRELESS ZigBee Lighting Control

EN The ZigBee wireless protocol has become a standard in the smart home sector, particularly for control of lighting. Since the latest version of ZigBee 3.0, the individual profiles have been combined into a multifunctional and uniform protocol. This enables flexible and uncomplicated networking of different types of devices from varying manufacturers. This allows intuitive control and setting of luminaires, sensors and buttons, for example, using a smartphone app. The XAL luminaires, fitted with the ZigBee 3.0 module and certified by the ZigBee Alliance, meet the highest safety standards and compatibility criteria

- Leading radio standard for smart lighting
- No additional wiring required
- Sophisticated safety mechanisms
- Easy control and set-up using smartphone app
- High coverage range due to mesh network



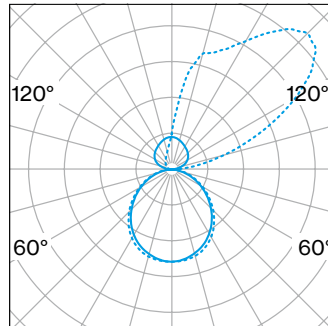
Technology lighting

Lichtstärkeverteilungskurve

DE Das Lichtstärkeverteilungsdiagramm stellt die Werte in Querrichtung mit einer durchgehenden Linie (C0-C180) und in Längsrichtung mit einer strichlierten Linie (C90-C270) dar.

Light intensity distribution curve

EN The light intensity distribution diagram shows the values in the transverse direction with a solid line (C0-C180) and in the longitudinal direction with a dashed line (C90-C270).



Lichtkegeldiagramm

DE Das Lichtkegeldiagramm zeigt die mittleren Beleuchtungsstärkewerte (lx) mit folgenden Kenngrößen:

h(m): Abstand der Lichtaustrittsfläche zur Bezugsebene (senkrecht zur Lichtquelle)

E(lx): Mittlere Beleuchtungsstärke für die entsprechende Lichtpunkthöhe (m)

ø (m): Lichtkegeldurchmesser (m), charakterisiert dadurch, dass am Kegelrand die Hälfte des maximalen Beleuchtungsstärkewertes vorliegt.

Light cone chart

EN The light cone diagram shows the mean illuminance values (lx) with the following parameters:

h(m): Distance of the light exit surface to the reference plane (perpendicular to the light source)

E(lx): Medium illuminance for the corresponding light spot height (m)

ø (m): Light beam diameter (m) is specified when half of the maximum illuminance value is present at the cone edge.

h (m)	E (lx)	ø (m)
1	2534	ø 0,48
2	633	ø 0,96
3	281	ø 1,44
4	158	ø 1,92
5	101	ø 2,40

Technology LED

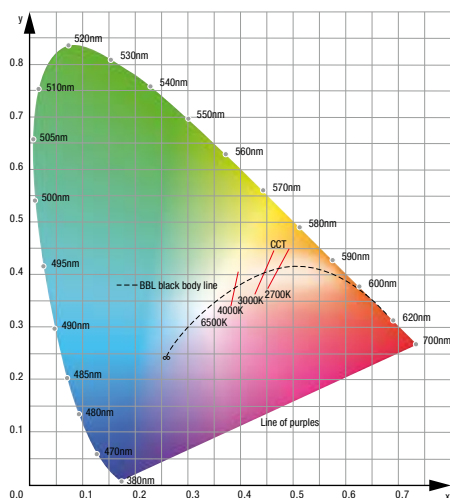
Allgemein

DE Die LED-Technologie, darunter ist die Lichterzeugung durch Elektrolumineszenz zu verstehen, hat in den letzten 10 Jahren alle anderen Beleuchtungstechnologien vom Markt verdrängt. Sowohl die um ca. 50 % höhere Energieeffizienz als auch der nur in eine Richtung gerichtete Lichtaustritt sind für diese Entwicklung gegenüber Leuchtstofflampen maßgeblich verantwortlich. Zusätzlich verringert die ca. 4-mal so hohe Nutzlebensdauer (Brenndauer) deutlich die Wartungskosten und sorgt für eine rasche Amortisierung der Umrüstkosten. Das kontinuierliche Spektrum der LED ermöglicht eine bessere Farbwiedergabe. Im Emissionsbereich ist keine UV- und Infrarot-Strahlung vorhanden. Die kleine lichtemittierende Fläche der LED ermöglicht eine präzise Lichtlenkung mittels Reflektoren bzw. Linsen. Die hohe Leuchtdichte des LED-Chips stellt sicher, dass beleuchtete Objekte dreidimensional und detailreich abgebildet werden. Die uneingeschränkte Dimmbarkeit sowie die Vibrations- und Schallfestigkeit sind weitere Vorteile.

General introduction

EN LED technology, the generation of light by electroluminescence, has effectively displaced all other lighting technologies in the market over the past 10 years. This development is due to both a 50 % increase in energy efficiency as well as the unidirectional light emission of LEDs compared to fluorescent lamps. In addition, the service life (lifetime) of LEDs, which is approximately four times longer, significantly reduces maintenance costs and ensures rapid amortisation of the cost of conversion to LEDs. The continuous spectrum of the LEDs enables improved colour rendering. There is no UV or infrared radiation present in the emission spectrum. The small light-emitting surface of LEDs allows light to be precisely directed using reflectors or lenses. The high luminance of LED chips ensures that illuminated objects are visualised in three dimensions and in detail. Further advantages of LEDs include full dimming capability as well as durability under vibration and switching.

CIE 1931 COLOUR SPACE



Farbort

DE Der Farbort einer Lichtquelle wird üblicherweise im CIE-Normfarbsystem 1931 dargestellt. Jede selbstleuchtende Lichtquelle kann eindeutig mit einer x- und y-Koordinate angegeben werden. Auf der geschwungenen Außenkontur, dem Spektralfarbenzug, sind die für den Menschen sichtbaren Wellenlängen aufgetragen. Die untere Begrenzung bildet die Purpur-Gerade, die die Grenze des sichtbaren Lichtes zur unsichtbaren UV- und IR-Strahlung darstellt. Der in der Mitte des Diagramms befindliche Weißlichtbereich wird durch die Black-Body-Linie (BBL) markiert. Alle auf der BBL befindlichen Farborte sind reinweiß und ergeben sich aus einer Mischung von einer Vielzahl von sichtbaren Wellenlängen. Die Farborte auf der BBL unterscheiden sich durch das Mischungsverhältnis der Wellenlängen. Sind mehrheitlich rote Wellenlängen vorhanden, spricht man von warmweißem Licht. Kaltweißes Licht hingegen verfügt über mehrheitlich blaue Wellenlängen. Auf der BBL befinden sich die Farborte der Farbtemperaturen von ca. 1000 K (Kelvin) bis ca. 40.000 K. Mit ≤ 3500 K bezeichnet man warmweiße Lichtquellen. 3500 K bis 5000 K nennt man neutralweiß, > 5000 K sind kaltweiße Lichtquellen. Liegt der Farbort einer weißen Lichtquelle nicht auf der BBL, so ist ein Intensitätsüberhang im Wellenlängenbereich einer Farbe dafür verantwortlich. Je nach Farbe spricht man von gelbstichig, grünstichig, bläustichig bzw. rosastichig. Geschnitten wird die BBL durch die CCT-Linien. Diese Geraden werden aus Farborten gleicher Farbtemperatur gebildet, unabhängig davon, ob sie reinweiß, gelbstichig oder rosastichig sind.

Colour point

EN The colour point (also chromaticity) of a light source is usually represented in the CIE standard colour system 1931. Each self-illuminating light source can be unambiguously specified by the x- and y coordinates. The wavelengths visible to the human eye are plotted on the curved outer contour, or spectral locus. The lower limit is the purple line, which is the limit of visible light to invisible UV and IR radiation. The white light area in the centre of the diagram is marked by the black body line (BBL). All of the colour points on the BBL are pure white and result from a mixture of a variety of visible wavelengths. The colour points on the BBL are differentiated by the mixing ratio of the wavelengths. If predominantly red wavelengths are present, this is referred to as warm white light. Cold white light, on the other hand, has a predominance of blue wavelengths. On the BBL, the colour points of the colour temperatures are positioned from approximately 1000 K (Kelvin) to approximately 40,000 K. Light sources are referred to as warm white at ≤ 3500 K, neutral white at 3500 K to 5000 K, and cold white light at > 5000 K. If the colour point of a white light source is not on the BBL, this is due to an excess of a colour wavelength. Depending on the colour, this is referred to as yellow, green, blue or pink tinted. The BBL is cut by the CCT (Correlated Colour Temperature) lines. These lines are formed from colour points of the same colour temperature, regardless of whether they are pure white, or tinted yellow or pink.

Farbhomogenität

DE Hochwertige Innenraum-Beleuchtungslösungen verlangen reinweiße Farborte. Weißes Licht mit einem Farbstick ist unerwünscht. Aber ab wann sind tatsächlich 2 Farborte für den Menschen voneinander unterscheidbar? Mit dieser Frage hat sich David Lewis MacAdam bereits in den 1940ern beschäftigt. Mehrere Lichtfarborte wurden mit einem definierten Farbort im CIE 1931 verglichen. Die Einteilung erfolgte nach gleichfärbig bzw. ungleichfärbig. Es zeigte sich, dass alle gleichfärbigen Farborte mit einer Ellipse umschrieben werden konnten. Man weiß nun, dass zwischen Farborten innerhalb dieser Ellipsenflächen und deren Zentrum keine Farbunterschiede feststellbar sind. Die in Folge als „1-Step-MacAdams-Ellipse“ bezeichnete Einheit ist fortan das Maß für Farbhomogenität. Um größere Farbbereiche beschreiben zu können, werden die Halbachsen der Ellipse verdoppelt, verdreifacht usw. So ergibt sich eine 2-Step, 3-Step, ... -Ellipse. Da MacAdam jedoch nur eine Aussage zu 25 Farborten gemacht hat (siehe Grafik), kann die Größeneinheit mit SDCM scale (Standard Deviation Colour Matching) auf jeden Farbort im CIE 1931 umgelegt werden. Beispiel: Eine 3-Step-MacAdam-Ellipse kann auch mit „ ≤ 3 SDCM“ angegeben werden.

Binning

DE Binning bezeichnet eine Sortierung bzw. Klassifizierung hinsichtlich der Helligkeit, des CRI-Wertes, der Vorwärtsspannung und des Farbortes. Farbort-Binning: Das Farbort-Binning gibt den Farbort-Bereich an, in welchem sich alle LED bei Auslieferung befinden. Es wird mit „Initial“ gekennzeichnet. Der Bereich um die BBL wird nach der Norm ANSI C78.377A zwischen 2600 K und 7000 K in 8 Bereiche unterteilt (siehe Grafik). Die Trennlinien zwischen den Bereichen sind die CCT-Linien, als Linien gleicher Farbtemperatur. Die 8 Bereiche umschließen Farbtemperaturen um 2700 K, 3000 K, 3500 K, 4000 K, 4500 K, 5000 K, 5700 K und 6500 K. Da einzelne Farborte innerhalb dieser groben Einteilung gut unterscheidbar sind, werden nur LEDs aus kleineren Farbortbereichen in Leuchten verbaut. Im besten Fall stammen alle Farborte aus einem Bereich in Ellipsenform, der sich genau mittig im ANSI-Rechteck auf der BBL befindet. Die Größe der Ellipse ist ein Gütekriterium. Je kleiner die Ellipse bzw. der mit SDCM angegebene Wert sind, umso einheitlicher wirkt die Lichtfarbe. Bei ≤ 3 SDCM bzw. 3-Step-MacAdam sind zwischen einzelnen Leuchten keine Farbnuancen erkennbar. In Leuchten-Datenblättern entspricht „Initial ≤ 3 SDCM“ einem sehr guten Wert. Oft jedoch fehlt diese Angabe gänzlich, was auf eine fragwürdige Qualität dieser Leuchte schließen lässt.

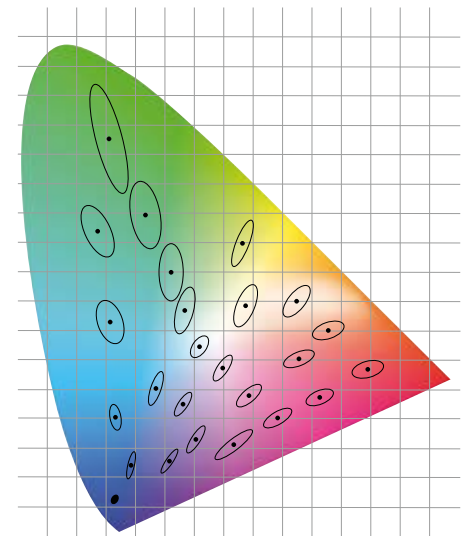
Colour homogeneity

EN High-quality indoor lighting solutions require pure white colour. White light with a colour tint is undesirable. But at which point is the human eye able to differentiate between two colour points? David Lewis MacAdam already tried to tackle this question as early as the 1940s. Several light colours were compared with a defined colour point under CIE 1931. Classification was then made according to whether the same colouring or unequal colouring was apparent. It was found that all of the colour points of the same colour could be circumscribed with an ellipse. It is now recognised that within these elliptical surfaces and their centre, differences in colour between colour points cannot be detected. The unit, consequently known as the “1 Step MacAdam’s Ellipse”, is now taken as the measure of colour homogeneity. To define larger ranges in colour, the radius of the ellipse is incrementally increased - doubled, tripled, and so on - thus resulting in a 2 step or 3 step ellipse, etc. However, as MacAdam only drew conclusions on 25 colour points (see graphic), the unit can be converted to any colour point in the CIE 1931 standard using the SDCM (Standard Deviation Colour Matching) scale. Example: A 3 Step MacAdam ellipse can also be specified as “ ≤ 3 SDCM”.

Binning

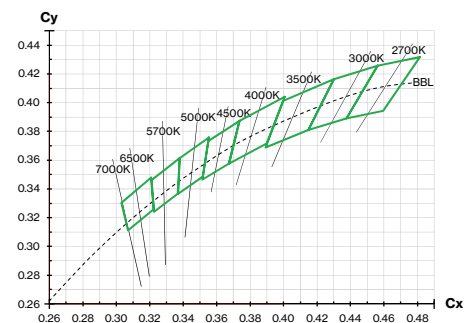
EN Binning indicates sorting or classification of LEDs with respect to the brightness, the CRI value, the forward bias and the colour point. Colour point binning: The colour point binning specifies the range of colours within which all LEDs are first supplied. It has the designation “Initial”. The area around the BBL is divided into 8 areas, according to the ANSI C78.377A standard, between 2600 K and 7000 K (see graphic). The dividing lines between the areas are the CCT lines, or lines of the same colour temperature. The 8 areas enclose colour temperatures at 2700 K, 3000 K, 3500 K, 4000 K, 4500 K, 5000 K, 5700 K and 6500 K. As individual colour points are clearly distinguishable within this coarse division, only LEDs taken from a smaller range of colour points are installed in luminaires. In the best case, all the colour points arise from a single elliptical shape, which is located exactly in the middle of the ANSI rectangle on the BBL. The size of the ellipse is a criterion of quality. The smaller the ellipse or the value specified by the SDCM, the more uniform is the light colour. At ≤ 3 SDCM or 3 Step MacAdam, it is not possible to detect colour nuances between individual luminaires. An “Initial ≤ 3 SDCM” in a luminaire data sheet represents a very good value. Frequently, however, specification of this for a luminaire is completely missing, and is indicative of questionable quality.

CIE 1931 COLOUR SPACE



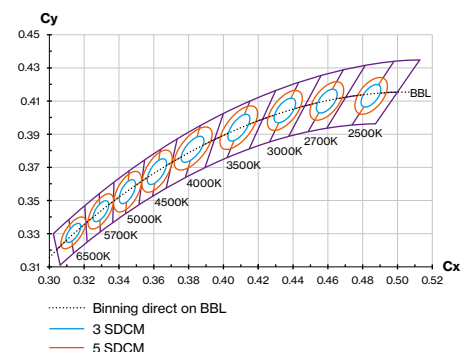
ANSI C78.377A Chromaticity Bins

Source: CREE



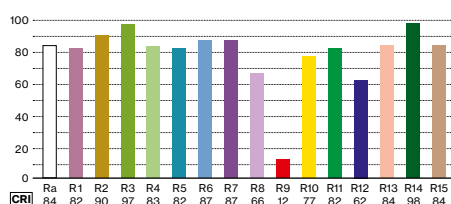
Chromaticity Coordinate Groups

Source: OSRAM

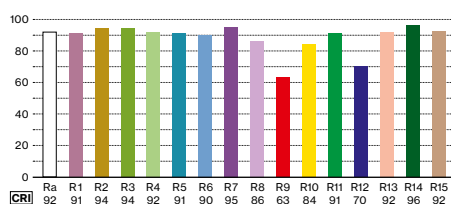


Technology LED

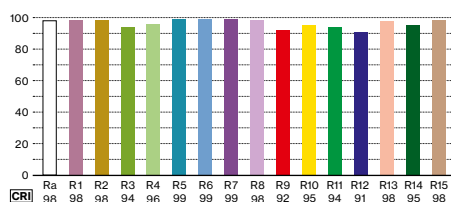
CRI / $R_a \geq 80$ (4000K)



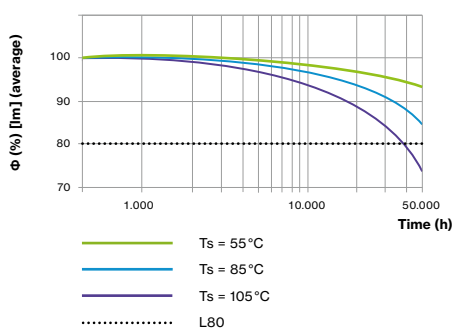
CRI / $R_a \geq 90$ (4000K)



CRI / $R_a \geq 90, R_9 > 90$ (3000K)



TEMPERATURE CAUSED LUMINOUS FLUX DEGRADATION



Farbort-Position zur BBL

DE Nicht nur die Größe, sondern speziell auch die Position des Binnings zur BBL ist ausschlaggebend für eine reine Lichtfarbe. Farborte, die reinweißes Licht emittieren, befinden sich auf der BBL. Eine Angabe im Datenblatt, die eine Position des Binnings beschreibt, ist ein Gütekriterium. Meistens jedoch fehlt diese Angabe. Die Bezeichnung „Zentrumsbinning“, oder „direct on BBL“ gibt dem Kunden die Sicherheit, Leuchten mit der besten LED-Sortierung erworben zu haben.

Farbwiedergabe

DE Um die Qualität von Lichtquellen objektiv bewerten zu können, wurde der international anerkannte Farbwiedergabeindex R_a (englisch CRI) definiert. Dabei wird die Testlichtquelle mit einer Referenzlichtquelle anhand von 15 ausgewählten Testfarben verglichen. Die Bewertungsbandbreite liegt zwischen maximal plus 100 und minus 60. Je genauer die Testlichtquelle die Testfarbe wiedergibt, desto höher bzw. besser ist der Farbwiedergabewert.

Der Mittelwert der ersten 8 Testfarben ergibt den Farbwiedergabeindex R_a . Der gemittelte R_a -Wert wird eingeteilt in: mäßig gute Farbwiedergabe für R_a 70–80, z.B. für Straßenbeleuchtung; in gute Farbwiedergabe für R_a 80–90, z.B. für Beleuchtung von Arbeitsstätten und in sehr gute Farbwiedergabe für R_a 90–100, z.B. für Museen und hochwertige Retail-Anwendungen.

Um die Güte der Farbwiedergabe zusätzlich zu präzisieren, kann z.B. bei einer Bandbreite von $R_a \geq 80$ bis 90 darüber hinaus noch ein typischer R_a -Wert mit R_a (typ) 85 angegeben werden.

Die ermittelten Werte für die Testfarben R9–R15 geben detaillierte Auskunft über die Farbwiedergabe der gesättigten Farben (R9–R12), der Hautfarbe (R13), von Blattgrün (R14) und über den asiatischen Hautfarbton (R15).

Bestromung und Temperatur

DE LEDs haben bei verschiedenen Betriebstemperaturen einen unterschiedlichen Lichtstrom-Output und Farbort.

Um möglichst realistische Datenblattangaben für Lichtstrom und Farbort zu gewährleisten, werden ausschließlich LEDs angeboten, die in einem thermisch eingeschwungenen Zustand von 85°C gemessen worden sind. Während der Brenndauer verändern LEDs fortlaufend den Lichtstrom-Output und den Farbort. Das Ausmaß dieser Lichtstromdegeneration und der Farbortverschiebung ist direkt abhängig vom Betriebsstrom und der Betriebstemperatur der LEDs. XAL als Leuchtenhersteller legt größten Wert darauf, Betriebsstrom und Wärmeableitung so zu gestalten, dass ein nachhaltiges Produkt angeboten werden kann. Das bedeutet, dass das Thermomanagement zu minimaler Farbortverschiebung ≥ 1 SDCM nach 10.000 h und zu einer geringen Lichtstromdegradation L80 nach 50.000 h führt.

Colour point position to BBL

EN It is not just the size but, in particular, the position of the binning to the BBL that is decisive for a pure light colour. Colour points, which emit pure white light, are located on the BBL. A specification in the data sheet, which describes a position of the binning, is a quality criterion. However, this information is usually missing. The term “centre binning”, or “direct on BBL”, gives an assurance to customers of having purchased LEDs with the best level of sorting.

Colour rendering

EN In order to evaluate the quality of light sources objectively, the internationally recognised colour rendering index R_a (English CRI) was defined. The test light source is compared with a reference light source using 15 selected test colours. The evaluation bandwidth is between a maximum of plus 100 and minus 60. The more accurately the test light source reproduces the test colour, the higher or better the colour rendering value.

The mean value of the first 8 test colours gives the colour rendering index R_a . The average R_a value is divided into: moderately good colour rendering for R_a 70-80, e.g. for street lighting; good colour rendering for R_a 80-90, e.g. for lighting workplaces, and very good colour rendering for R_a 90-100, e.g. for museums and high-quality retail applications.

In order to further specify the quality of the colour rendering, a typical R_a value of R_a (type) 85, for example, within a bandwidth of $R_a \geq 80$ to 90, can also be specified.

The results for the test colours R9–R15 give detailed information about the colour rendering of saturated colours (R9–R12), skin colour (R13), leaf green (R14) and Asian skin colour (R15)

Current supply and temperature

EN LEDs have a different luminous flux output and colour point at different operating temperatures.

In order to ensure that the data for the luminous flux and the colour point on the data sheet are as realistic as possible, only LEDs are offered, which have been measured at a thermally steady state of 85°C . While illuminated, LEDs continuously change the luminous flux output and the colour point. The extent of this degradation in luminous flux and shift in colour point is directly related to the operating current and temperature of the LEDs. As a luminaire manufacturer, XAL places great emphasis in configuring operating current and heat dissipation such that a product can be offered with sustainable performance. This means that thermal management results in minimal shift in the colour point ≥ 1 SDCM after 10,000 h and a low luminous flux degradation L80 after 50,000 h.

Lichtstromdegradation

DE Für die Degradation des Lichtstromes von LEDs gilt das Gleiche wie für die Farbortverschiebung. Je höher Bestromung und Temperatur sind, desto negativer ist die Auswirkung. XAL verwendet für seine Leuchten ausschließlich LEDs, die in den Test Reports eine minimale Lichtstromdegradation aufweisen. Durch ein gutes Thermomanagement wird ein Lichtstromrückgang auf minimal 70%, 80% oder 90% nach 50.000h gewährleistet. Eine Datenblattangabe von L90 bezieht sich auf den verbleibenden Lichtstrom (L) von $\geq 90\%$ bei einer Nutzlebensdauer von 50.000h.

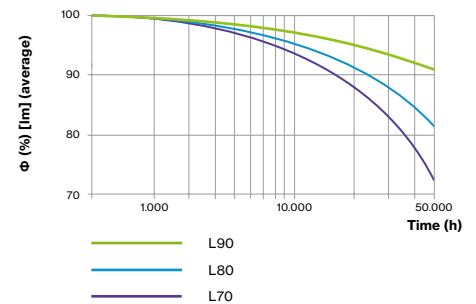
Farbortverschiebung

DE LEDs unterliegen einer Farbortverschiebung über die ganze Nutzlebensdauer hinweg. XAL verwendet für seine Leuchten ausschließlich LEDs, die in den Test Reports eine minimale Farbortverschiebung aufweisen. LEDs mit Werten von nur 0,5 SDCM nach 6000h bei 85°C entsprechen der höchsten Qualität (siehe Grafik 1 für SAMSUNG und Grafik 2 für OSRAM). Die europäische PremiumLightPro-Anforderung und die amerikanische EnergyStar-Anforderung empfehlen die Verwendung von LEDs mit einer maximalen Farbortverschiebung von ≤ 7 SDCM nach 6.000h. Um über die gesamte Nutzlebensdauer von 50.000h die Farbortverschiebung möglichst gering zu halten, wird viel Know-how in das Thermomanagement investiert. Eine Bestromung, die unter der Spezifikation der LED liegt, ist ebenso wie ein guter Kühlkörper für eine geringe Farbortverschiebung verantwortlich. So können Betriebstemperaturen um die 65°C gehalten und die Farbortverschiebung mit 1 SDCM nach 10.000h begrenzt werden. Die Farbhomogenität am Ende der Lebensdauer (Final) setzt sich zusammen aus dem Anfangswert (Initial) des Farbortbinnings und der Farbortverschiebung. Jede Datenblattangabe einer finalen Farbhomogenität ist ein Gütezeichen. Ein Fehlen dieser Angabe zeugt von fragwürdiger Qualität. Beispiel einer Leuchte mit umfassender Farbort-Beschreibung:
Initial ≤ 3 SDCM, direkt auf der BBL
Final ≤ 4 SDCM nach 10.000h

Luminous flux degradation

EN The same applies to luminous flux degradation of the LEDs, as to the shift in colour point. The higher current supply and temperature, the greater the negative influence. XAL only uses LEDs for its luminaires, which have a minimum luminous flux degradation in the test reports. Good thermal management ensures a drop in luminous flux to a minimum of 70%, 80% or 90% after 50,000h. A data sheet specification of L90 refers to the remaining luminous flux (L) of $\geq 90\%$ with a service life of 50,000h.

LUMINOUS FLUX DEGRADATION

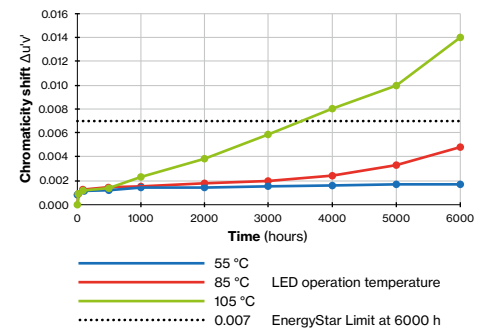


Colour point shift

EN LEDs are subject to colour point shift over the entire usable service life. XAL only uses LEDs for its luminaires, which have a minimal colour point shift in the test reports. LEDs with values of only 0.5 SDCM after 6000h at 85°C correspond to the highest quality (see graph 1 for SAMSUNG and graph 2 for OSRAM). The European PremiumLightPro requirement and the American EnergyStar requirement recommend the use of LEDs with a maximum colour point shift of ≤ 7 SDCM after 6,000h. To keep the colour point shift as low as possible over the entire service life of 50,000h, requires a great deal of invested expertise in thermal management. A power supply, which is within the specification of the LED, contributes just as much to a small shift in colour point as a good heat sink. Operating temperatures can thus be kept around 65°C and the colour point shift can be limited to 1 SDCM after 10,000h. The colour homogeneity at the end of the lifetime (final) is composed of the initial value (initial) of the colour point binning and the colour point shift. A data sheet specification with a final colour homogeneity is a mark of quality. A lack of such a specification is indicative of questionable quality. Example of a luminaire with a comprehensive colour point description:
Initial ≤ 3 SDCM, directly on the BBL
Final ≤ 4 SDCM after 10,000h

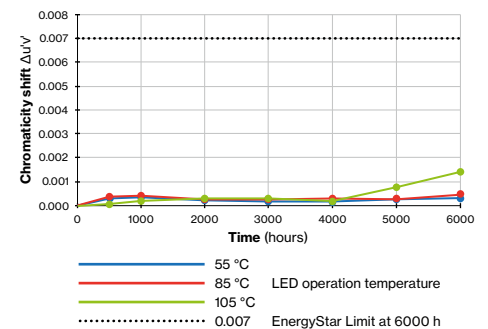
GRAPHIC 1

Source: SAMSUNG

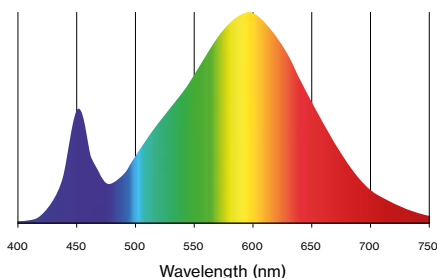


GRAPHIC 2

Source: OSRAM



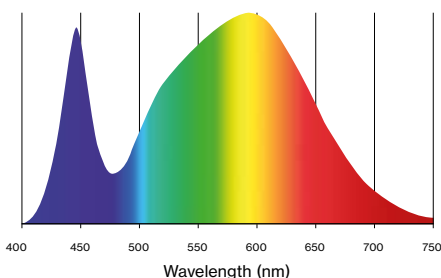
Light colours



Classic warm white 3000 K | CRI > 80 or CRI > 90 | 3-step SCDM

DE Prädestiniert für den Einsatz bei oft wechselnden Warengruppen im Retail-Sektor. Klares Weiß und lebendige Farben sind für Kaufhäuser, Textilien und verpackte Lebensmittel gleichermaßen geeignet. Die CRI-90-Variante verbessert speziell die Wiedergabe von allen gesättigten Farben und lässt Produkte dadurch „lebendiger“ erscheinen.

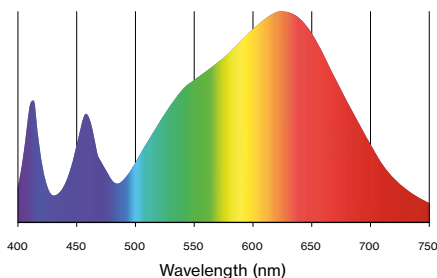
EN This light appears to be purpose-made for use in the retail sector, where product display groups are frequently changing. Clear white and vibrant colours are equally suitable for department stores, textiles and packaged foodstuffs. The CRI 90 variant specifically enhances the reproduction of all saturated colours and gives products a more vivid appearance.



Classic neutral white 4000 K | CRI > 80 or CRI > 90 | 3-step SCDM

DE Zur Präsentation von technischen Produkten, Jeanswaren sowie Schwarz-Weiß-Kontrasten im hochwertigen Textilhandel optimiert, da besonders Weiß- und Blautöne sehr gut zur Geltung kommen. Die CRI-90-Variante lässt Haut vitaler wirken und eignet sich daher für Arztpraxen, aber auch Museen.

EN Ideal for the presentation of technical products, denim goods and black and white contrasts in high-end textiles, as white and blue tones stand out very well. The CRI 90 version makes skin tones look more vibrant and is therefore suited to use in medical clinics and museums.

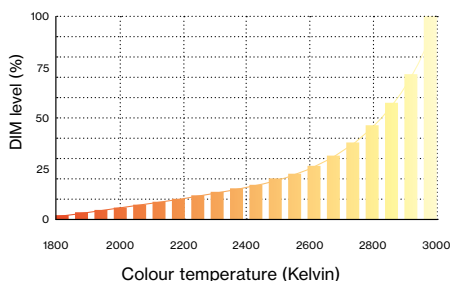


Brilliant white 3000 K | CRI > 90 | 3-step SCDM

DE Mit dieser Lichtfarbe können minimale Weißnuancen dargestellt werden, Farben kommen satt zur Geltung. Der blaue Halbleiterchip wurde um einen violetten Chip ergänzt. Die violette Emission wirkt als Gegengewicht der gelb-roten Wellenlängen. Das Ergebnis ist klares Weißlicht ohne jeden Gelbschleier.

EN With this version, very minor differences in white shades are highlighted and colours look full and vibrant. A violet chip was added to the usual blue semi-conductor chip, which acts to counterbalance the yellow-red light wavelengths and prevents any yellow fogging effect.

Colour Warm Dimming



DE Mit der CWD-Option (Colour Warm Dimming) erfolgt bei einer Reduzierung der Lichtintensität gleichzeitig eine stufenlose Veränderung der Farbtemperatur von 3000K auf 1800 K – ähnlich der Dimmcharakteristik einer Glühlampe (siehe Grafik). Die Reduzierung der Beleuchtungsstärke ermöglicht einen sehr warmen Farbton des Lichts. Somit sind wahlweise tagsüber ein ausgewogenes Arbeitslicht und abends eine entspannende Lichtstimmung möglich. Die CWD-Farbtemperaturkurve verläuft innerhalb des Wohlfühlbereiches (siehe Kruthof-Kurve).

EN With the CWD option (Colour Warm Dimming), a continuous change in the colour temperature, from 3000K to 1800K, is achieved simultaneously with a reduction in the intensity of the light (see graphic) - similar to the dimming characteristics of an incandescent lamp. The reduction in the illuminance allows a very warm hue to be imparted to the light. As a result, a selection can be made between a balanced working light during the day, and a relaxing light mood in the evening. The CWD colour temperature curve is within the comfort zone (see Kruthof curve).

Tunable white

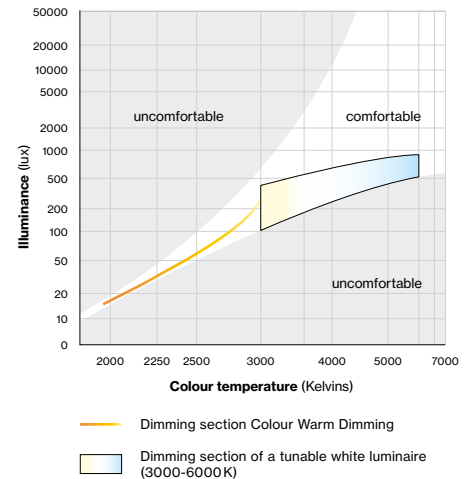
Ausgewogene Farbtemperatur und Beleuchtungsstärke

DE Die richtige Kombination der beiden Faktoren Beleuchtungsstärke und Farbtemperatur ist für das Wohlbefinden in einem Raum entscheidend. Bei geringer Beleuchtungsstärke muss die Farbtemperatur „wärmer“, bei höherer Beleuchtungsstärke „kühler“ sein (siehe Kruithof-Kurve). Mit Tunable-White-Technologie und einer entsprechend intelligenten Ansteuerung kann dieser Wohlfühlbereich erreicht werden.

Balanced colour temperature and light intensity

EN The right combination of light intensity and colour temperature makes all the difference in whether we feel comfortable in a room. When the light intensity is low, the colour temperature must be warmer, and the temperature must be cooler when the light intensity is greater (see Kruithof Curve). This comfort can be achieved with tunable white technology and an intelligent controller.

KRUITHOF CURVE



Tunable white in der Praxis

DE Als Anwendungsbereich eignen sich alle Aufenthaltsbereiche, die auch in den Tagesrandzeiten und in den Nachtstunden frequentiert werden. Während tagsüber eine kalte Farbtemperatur mit hoher Beleuchtungsstärke bevorzugt wird, können in den Morgen-, Abend- oder Nachtstunden die Helligkeit und die Farbtemperatur reduziert werden. Somit wird gemäß Kruithof'scher Kurve der ideale Wohlfühlbereich erreicht. Zusätzlicher positiver Effekt: Das wärmere Licht beeinträchtigt die Melatoninausschüttung und somit den Schlafrhythmus nicht.

Tunable white in practice

EN The range of application covers all areas, which are frequented during both daytime and night hours. Whereas during the daytime a cold colour temperature with a high illuminance is preferred, during the morning, evening or night hours, the brightness and the colour temperature can be reduced. As a result, an ideal feel-good range is achieved, in accordance with Kruithof's curve. There is an additional positive effect: the warmer light does not affect the natural release of the hormone melatonin and therefore the sleep rhythm.

3000-6000K

Die im Katalog zur Auswahl stehende Lichtfarbe tunable white ermöglicht variable Farbtemperatureinstellungen von warm- bis kaltweiß.

3000-6000K

The tunable white light colour available in the catalogue allows variable colour temperature settings from warm to cold white.

Constant Lumen Output

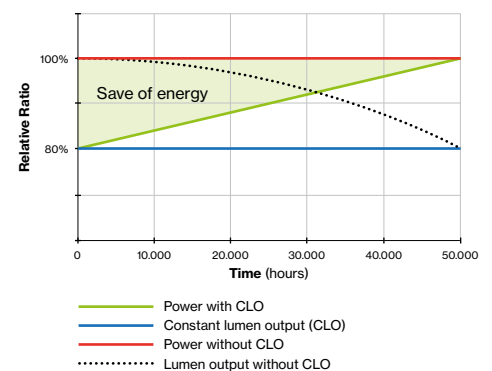
Konstanter Lichtstrom

DE CLO ist eine Funktion, die ein spezielles Betriebsgerät bietet, welches in allen XAL-DIM-DALI-Leuchten integriert ist. Dieses CLO-Betriebsgerät gleicht die Lichtstromabnahme der Leuchte laufend aus. Der Lichtstrom wird von Beginn der Nutzlebensdauer an auf jenen Lichtstrom heruntergeregelt, den die Leuchte am Ende ihrer Lebensdauer nach 50.000h noch hätte. Bei einer L80-Leuchte, die nach 50.000h noch mindestens 80% des anfänglichen Lichtstromes hat, wird anfänglich mit nur 80% bestromt und dann kontinuierlich aufgedimmt, bis auf final 100% Bestromung. Diese Dimmprogrammierung schont den LED-Chip, senkt Degradation und Farbortverschiebung und spart über die gesamte Nutzlebensdauer durchschnittlich 10% der Stromkosten. Die geforderten Beleuchtungsstärken werden bis zum Ende der Lebensdauer konstant eingehalten.

Constant luminous flux

EN CLO (Constant Light Output) is a function provided by a special operating device integrated in all XAL DIM DALI luminaires. This CLO control device continuously compensates for the drop in luminous flux of the luminaire. The luminous flux is adjusted from the beginning of the useful life to the luminous flux that the luminaire will still have at the end of its service life after 50,000 hours. In the case of an L80 luminaire, which still has at least 80% of the initial luminous flux after 50,000 hours, the lamp is initially powered at 80% and then continuously dimmed upwards to a final 100% current supply. This dim programming protects the LED chip, reduces degradation and shift in the colour point, and on average saves 10% of the electricity costs over the entire service life. The required illuminance levels are kept constant until the end of the service life.

COMPARISON WITH/WITHOUT CLO



RCS Intelligent Function

Radar Control System (RCS)

Dank Radar Control System (RCS) reagiert die Beleuchtung auf Lichtverhältnisse und Bewegungen im Umkreis. Die daraus resultierenden Steuerungsinformationen werden drahtlos zwischen den Leuchten weitergegeben.

Radar Control System (RCS)

Thanks to the Radar Control System (RCS), the lights react to the light conditions and movement within the range of the detector. The resulting control information is exchanged wirelessly between the luminaires.

Smarte Interaktion mit der Umgebung

DE Das Radar Control System reguliert die Beleuchtung je nach Anwesenheit von Personen und Helligkeit des Umgebungslichts. Ein unsichtbarer Sensor zur Radarpräsenzerkennung detektiert selbst kleinste Bewegungen innerhalb eines festgelegten Erfassungsbereichs. Mit Hilfe eines Funkmoduls werden die Informationen über die wahrgenommenen Bewegungen weitergegeben.

Auf diese Art können beliebig viele Leuchten in Distanzen von bis zu zehn Metern zu einem intelligent gesteuerten System zusammengeschaltet werden.

Zusätzlich zur Bewegungserkennung steuert ein Tageslichtsensor die Leuchten auf Basis einer vorgegebenen Helligkeitsschwelle.

Smart interaction with the environment

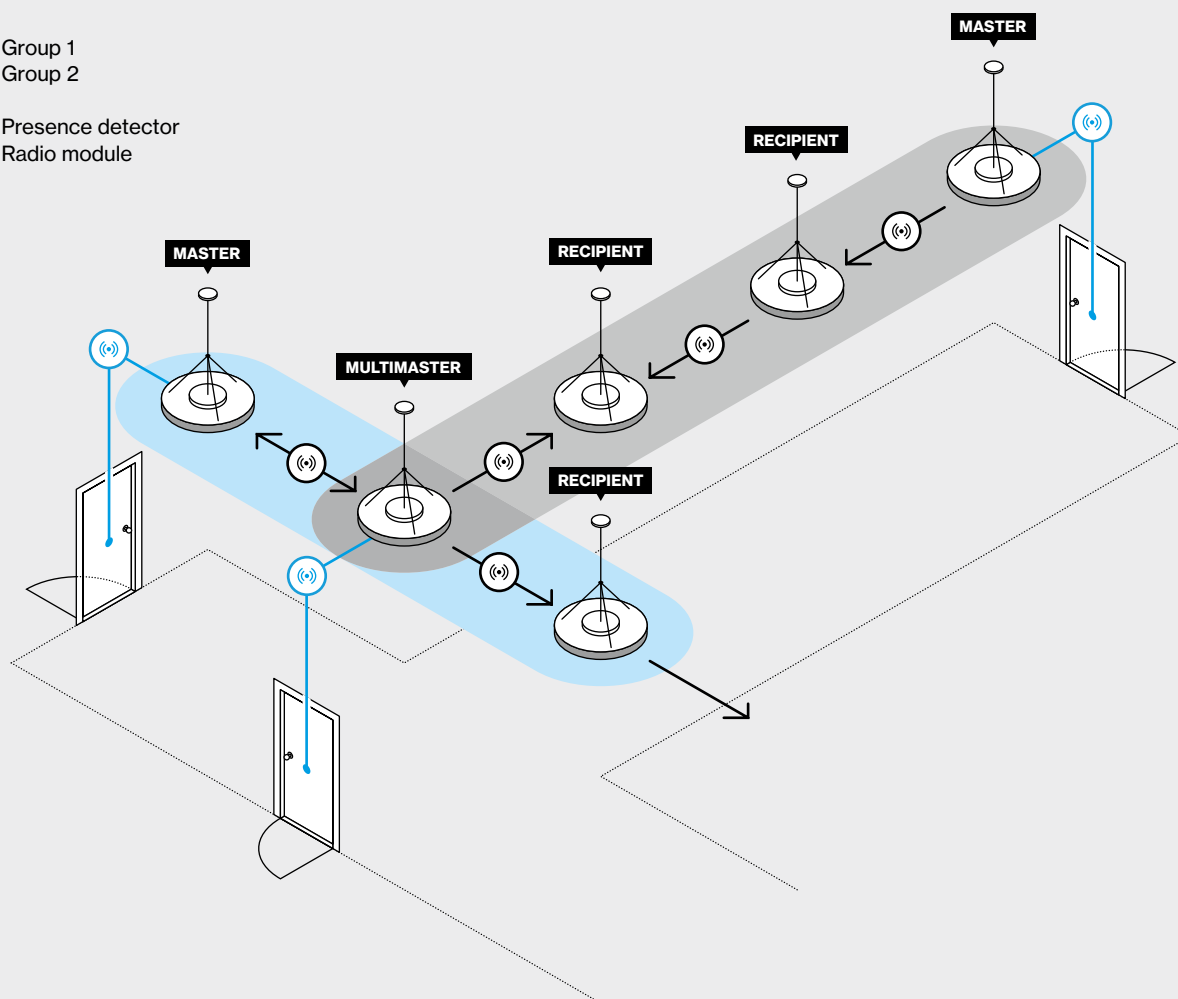
EN The Radar Control System regulates the lights according to the presence of people and the intensity of the ambient light. An invisible radar sensor detects even the smallest of movements within a defined scanning area. Information about the detected movements is passed on using a wireless communication module.

In this way, any number of luminaires at a distance of up to 10 metres can be combined into an intelligently controlled system.

In addition to motion detection, a daylight sensor controls the luminaire based on a defined brightness threshold.

Installation example

- Group 1
- Group 2
- Presence detector
- Radio module



Korridorfunktion

DE Die Korridorfunktion ist enorm wirtschaftlich und eignet sich neben Gängen und Treppenhäusern für alle Bereiche, in denen man nur kurz verweilt. Mit ihrer Hilfe wird nur dann Licht erzeugt, wenn es tatsächlich benötigt wird. Registriert der unsichtbare Radarsensor die Präsenz einer Person, erhöht sich die Grundlichtstärke automatisch auf die Anwesenheitsbeleuchtung und durchläuft ein vor-eingestelltes Programm (siehe Beispiel unten).

Corridor function

EN The corridor function is extremely economical and in addition to hallways and stairways is ideal for all areas where people only spend a short amount of time. This function ensures that light only shines when it is actually needed. When the radar sensor registers the presence of a person, the basic light intensity automatically increases to the "presence" lighting level and then runs through a predefined program (see the example below).

Light level over time (in %)

Fade Time On

DE Nach Erkennen einer Bewegung dimmt die Leuchte innerhalb von 2 Sek. auf 100 % und behält diesen Level bei, solange Bewegung detektiert wird.

EN When motion is detected, the light reaches 100 % intensity within 2 seconds and maintains this level for as long as motion is detected.

On Time

DE Ohne Detektion einer Bewegung bleibt die Leuchte für die eingestellte Dauer auf 100 %.

EN When no motion is detected, the luminaire remains at 100 % intensity for the configured amount of time.

Fade Time

DE Danach dimmt die Leuchte langsam auf DIM-Level.

EN The luminaire then slowly goes to dim level.

DIM Time

DE Die Leuchte verharrt für eine einstellbare Dauer auf DIM-Level.

EN The luminaire remains at dim level for a configurable period of time.

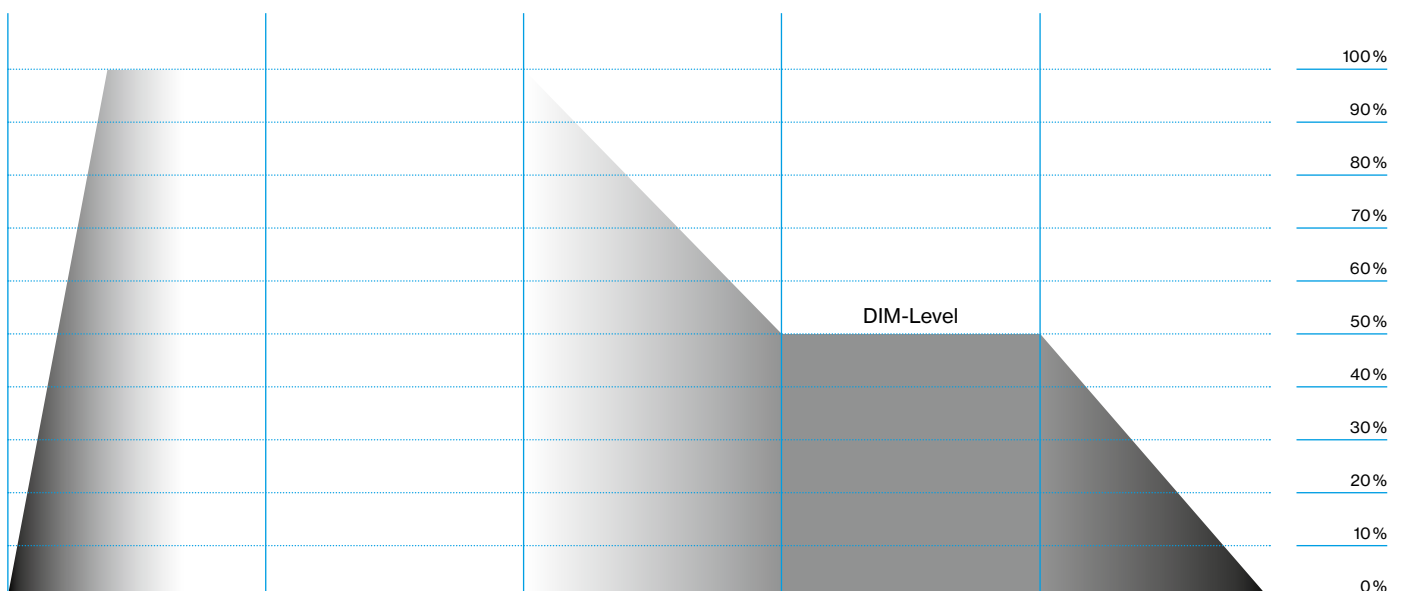
Fade Time Off

DE Wird keine weitere Bewegung detektiert, schaltet sich die Leuchte nach festgelegter DIM Time aus.

EN If no further motion is detected, the luminaire switches off after the configured dim time.

Configuration options:
30s, 1min, 5min, 15min

Configuration options:
1min, 5min, 15min, ∞
0%, 10%, 20%, 30%



Technology

other technical information

Erläuterungen

DE LICHTSTROM

Der Lichtstrom mit der Einheit Lumen bezeichnet die gesamte Lichtemission einer Leuchte. Die Angaben zum Lichtstrom in diesem Katalog unterliegen einer Toleranz von +/- 10 %.

DE LEISTUNGS-AUFNAHME

Unter der Leistungsaufnahme einer Leuchte in Watt versteht man die gesamte Stromaufnahme inklusive der notwendigen Vorschaltgeräte. Die Angaben in diesem Katalog sind Bemessungswerte, die im Einzelfall um maximal 10 % überschritten werden dürfen.

DE FARBTEMPERATUR

Die Farbtemperatur mit der Einheit Kelvin (K) beschreibt die Erscheinung einer Lichtquelle. Die Angaben in diesem Katalog unterliegen einer Toleranz von +/- 150K.

DE ELEKTROMAGNETISCHE VERTRÄGLICHKEIT (EMV)

Unter elektromagnetischer Verträglichkeit (EMV) versteht man die Eigenschaft einer elektrischen Einrichtung, in ihrer Umgebung zu funktionieren, ohne andere Einrichtungen zu beeinflussen. XAL testet nicht nur Einzelleuchten, sondern auch repräsentative Leuchtenkonfigurationen im Systemverbund. Der Testaufbau entspricht den hohen Anforderungen der einschlägigen Richtlinien und Normen.

Abkürzungen

DE lm (Lumen)

Lumen ist die Einheit des Lichtstroms. Der Lichtstrom beschreibt die von einer Lichtquelle in alle Richtungen abgestrahlte Leistung im sichtbaren Bereich.

DE lx (Lux)

Lux ist die Einheit der Beleuchtungsstärke. Die Beleuchtungsstärke beschreibt den Lichtstrom, der auf eine bestimmte Fläche trifft. Lux ist Lumen pro m² (lx=lm/m²).

DE cd (candela)

Candela ist die Einheit der Lichtstärke. Die Lichtstärke beschreibt den Lichtstrom pro durchstrahltem Raumwinkel.

DE UGR (Unified Glare Rating)

UGR ist ein Verfahren zur Bewertung der Blendung. Je nach Schwierigkeit von Sehaufgaben sollen die entsprechenden Grenzwerte nicht überschritten werden. Die UGR-Grenzwerte sind in der Norm EN 12464 für Tätigkeiten und Sehaufgaben festgelegt. Für Büroräume ist UGR = 19 als oberster Wert zugelassen.

DE LGP (Light Guiding Prism)

Lichtlenkende Strukturen in lichtführendem, transparentem Material, die bei seitlicher Lichteinkopplung für die gewünschte Lichtverteilung sorgen.

DE HPO (High-Performance-Opal)

Das High-Performance-Opal-Cover hat im Vergleich zu opalen Standardabdeckungen einen wesentlich höheren Transmissionsgrad mit einer um 15 % erhöhten Lichtausbeute.

Glossary

EN LUMINOUS FLUX

Luminous flux, with the unit of one lumen, denotes the total light emission of a luminaire. The information on the luminous flux in this catalogue is subject to a tolerance of +/- 10%.

EN POWER CONSUMPTION

The power consumption of a luminaire in watts is the entire current consumption including any necessary ballast. The values in this catalogue are rated values, which may be exceeded by a maximum of 10% in individual cases.

EN COLOUR TEMPERATURE

Colour temperature, with the unit of one Kelvin (K), describes the appearance given by a light source. The specifications in this catalogue are subject to a tolerance of +/-150K.

EN ELECTROMAGNETIC COMPATIBILITY (EMC)

Electromagnetic compatibility (EMC) is the property of an electrical device to function in its environment without affecting other devices. XAL not only tests single luminaires, but also representative lighting configurations in the system network. The test set-up complies with the high requirements of the relevant directives and standards.

Abbreviations

EN lm (lumen)

The lumen is the unit of luminous flux. Luminous flux describes the light energy in the visible band radiated from a light source in all directions.

EN lx (lux)

The lux is the unit of light intensity. It describes the total luminous flux incident on a given surface. Lux is equal to Lumen per m² (lx=lm/m²).

EN cd (candela)

Candela is the unit of luminous intensity. The luminous intensity describes the luminous flux per illuminated solid angle.

EN UGR (Unified Glare Rating)

UGR is a procedure for rating glare. Depending on the difficulty of visual tasks, the corresponding limits should not be exceeded. The UGR limit values are defined in the standard EN 12464 for activities and visual tasks. UGR = 19 is permitted as the maximum value for office spaces.

EN LGP (Light Guiding Prism)

Light-guiding structures in light-guiding, transparent material that ensure the desired distribution of light when light is introduced from the side.

EN HPO (High-Performance-Opal)

The high-performance opal cover has a significantly higher degree of transmission compared with standard opal covers, providing a 15% increase in luminous efficacy.

Symbole



DE Mit der CE-Kennzeichnung erklärt der Hersteller, dass die Leuchte allen geltenden europäischen Anforderungen entspricht.



DE Eine externe Überprüfung des Produkts und aller geltenden europäischen Anforderungen. Ein CB-Zertifikat erleichtert den Erwerb anderer nationaler Prüfzeichen.



DE Leuchten, die das ENEC-Zertifikat führen dürfen, sind nach den strengen ENEC-Richtlinien geprüft. Die Einhaltung wird durch jährliche Produkt- und Werksinspektionen gewährleistet.



DE Schutzarten (IP-Codes) nach DIN EN 60529. IP (Ingress Protection) steht für Schutz gegen Eindringen. Die erste Kennziffer des IP-Codes bezieht sich auf den Schutz gegen das Eindringen von festen Fremdkörpern und Staub. Die zweite Kennziffer bezieht sich auf den Schutz gegen Wasser und Feuchtigkeit.

IP Kennziffer 1 für Berührungsschutz

2
3
4
5
6

Schutz gegen Fremdkörper mit Durchmesser > 12 mm
Schutz gegen Fremdkörper mit Durchmesser > 2,5 mm
Schutz gegen Fremdkörper mit Durchmesser > 1 mm
Vollständiger Berührungsschutz, Schutz gegen Staubablagerungen im Innern
Vollständiger Berührungsschutz, Schutz gegen Eindringen von Staub

Kennziffer 2 für Wasserschutz

0
1
2
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Kein Wasserschutz
Geschützt gegen senkrecht fallende Wassertropfen
Geschützt gegen schräg fallende Wassertropfen
Geschützt gegen Sprühwasser
Geschützt gegen Spritzwasser
Geschützt gegen Strahlwasser (aus allen Richtungen)
Geschützt vor eindringendem Wasser bei vorübergehender Überflutung
Geschützt vor eindringendem Wasser beim Eintauchen



DE Schutzart für Einbauleuchten. Die obere Angabe bezieht sich auf den eingebauten Gehäuseteil, die untere auf den sichtbaren Teil der Leuchte.



DE Schutzklassen geben Auskunft darüber, inwieweit eine Leuchte gegen die Risiken eines Stromschlags durch Berührung geschützt ist.



SK I: Erdung
SK II: verstärkte oder zweifache Isolierung
SK III: Schutzkleinspannung



DE Gibt die Anzahl der DALI-Adressen einer Leuchte an.



DE Der Farbwiedergabeindex größer 90 steht für eine sehr gute Farbwiedergabe, die in Museen und im hochwertigen Retail-Bereich Anwendung findet.



DE Bildschirmtaugliche Arbeitsplatzleuchte gemäß DIN EN 12464-1.



DE PMMA ist das Kurzzeichen für den Kunststoff Polymethylmethacrylat, auch bekannt als Acrylglas. XAL verwendet für die LED-Leuchten opale oder mikroprismatische Abdeckungen aus PMMA. Opale Abdeckungen sorgen für eine homogene Ausleuchtung, mikroprismatische Abdeckungen für eine gute Entblendung.



DE Die IK-Schutzart ist ein Maß für die Widerstandsfähigkeit von Gehäusen elektrischer Betriebsmittel gegen mechanische Beanspruchung (Stoßbeanspruchung) und wird durch die genormte Prüfmethode nach IEC 62262 nachgewiesen.

IK 07: bis zu 2 Joule Stoßfestigkeit
IK 09: bis zu 10 Joule Stoßfestigkeit
IK 10: bis zu 20 Joule Stoßfestigkeit



DE Gibt die Dreh- und Schwenkbarkeit der Strahler an.

Symbols

EN The CE marking indicates a declaration of the manufacturer that the luminaire complies with all applicable European requirements.

EN This includes an external review of the product and all applicable European requirements. A CB (Certification Body) test certificate facilitates the acquisition of other national certification marks.

EN Luminaires that are allowed to carry the ENEC certificate are tested according to the strict ENEC standards. Compliance is guaranteed by annual product and factory inspections.

EN Protection classes (IP codes) according to DIN EN 60529. IP (Ingress Protection) indicates a level of protection against ingress. The first IP code refers to the protection against the penetration of solid foreign bodies and dust. The second IP code refers to the protection against ingress of water and moisture.

Code number 1 for contact protection

Protection against foreign bodies with a diameter > 12 mm
Protection against foreign bodies with a diameter > 2.5 mm
Protection against foreign bodies with a diameter > 1 mm
Full contact protection, protection against dust deposits internally
Full contact protection, protection against ingress of dust

Code number 2 for protection against water

No water protection
Protected against vertical falling water droplets
Protected against diagonal falling water droplets
Protected against water spray
Protected against water splashing
Protected against water jets (from all directions)
Protected against ingress of water with transient flooding
Protected against ingress of water with submersion

EN Protection class for recessed luminaires. The upper specification refers to the built-in housing part, the lower one refers to the visible part of the lamp.

EN Protection classes provide information on how well a luminaire is protected against the risks of a current surge due to contact.

PC I: Earthing
PC II: Reinforced or double insulation
PC III: Safety extra low voltage

EN Indicates the number of DALI addresses of a luminaire.

EN A colour rendering index greater than 90 indicates very good colour reproduction, which is applied in museums and high-quality retail areas.

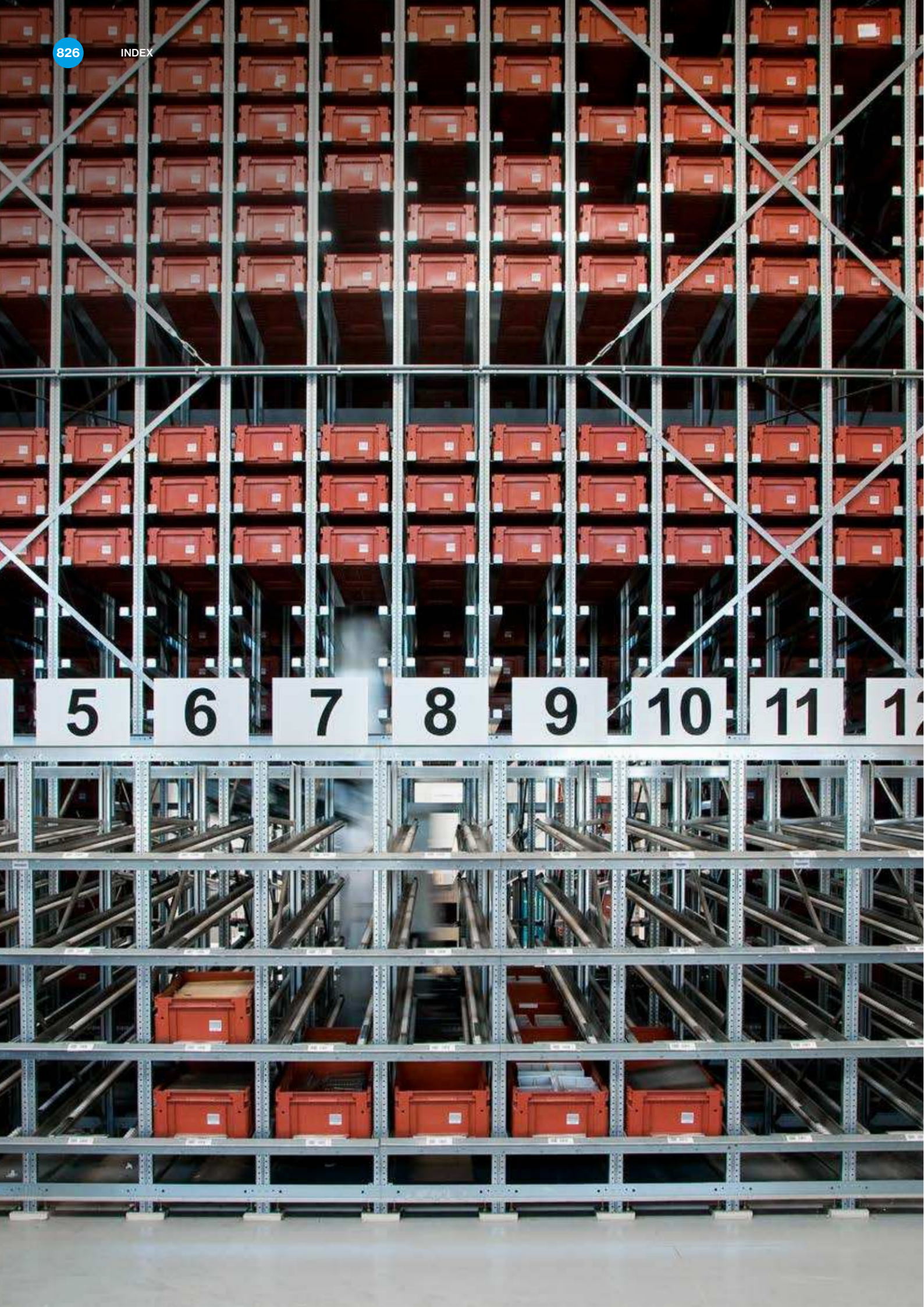
EN Suitable for lighting workstations with computer screens in accordance with DIN EN 12646-1.

EN PMMA is the abbreviation for the plastic polymethylmethacrylate, also known as acrylic glass. XAL uses opal or microprismatic covers of PMMA for the LED luminaires. Opal covers ensure a homogeneous lighting, while microprismatic covers provide for good glare elimination.

EN IK type protection is a measure of the resistance of electrical equipment housings to mechanical stress (impact loads) and is determined by the standard test method according to IEC 62262.

IK 07: up to 2 joules impact strength
IK 09: up to 10 joules impact strength
IK 10: up to 20 joules impact strength

EN Specifies the rotation and pivoting capability of the spotlight.



5

6

7

8

9

10

11

12

**PRODUCT
INDEX**

➔ 828

**PHOTOGRAPHER
OVERVIEW**

➔ 830

Product Index

A

	PAGE
ARGO tracklight	702
ARGO trim	132
AURO FOCUS trim, trimless	128

B

	PAGE
BASO 40 recessed trim	206
BASO 40 recessed trimless	224
BASO 40 surface	334
BASO 40 surface, suspended system	474
BASO 40 suspended	346
BASO 40 trim system	466
BASO 40 trimless system	470
BO 55 basic / wls tracklight	678
BO 55 basic surface, semi-recessed	240
BO 70 basic, focus tracklight	682
BO 70 shutter, iris, gobo tracklight	686
BUBBLE 80 trimless	88
BUBBLE 100 trimless	92
BUBBLE 150 trimless	96
BUBBLE trimless	176

C

	PAGE
CANYON 15 recessed track	734
CANYON 50 offset track	736
CANYON 50 surface, suspended track	740
CANYON 60 trim offset	210
CANYON 60 trim offset system	480
CANYON 60 trimless offset	226
CANYON 60 trimless offset system	484
CAVO round trimless	100
CAVO square trimless	100
CAVO trimless system	458
CIRO surface	306
CIRO suspended	310
COMBO round trim	158
COMBO square trim	168
CORNER 65 surface system	586
CORNER MINI wall	648
CORNER wall	650

D

	PAGE
DOC IP54 wall	780

E

	PAGE
EDGE 60 trimless system	502

F

	PAGE
FILO 160 IP67 round square trim	804
FLOW EVO surface	406
FLOW EVO suspended	410
FRAME 60 CURVE trim system	488
FRAME 60 IP65 trim	760
FRAME 60 trim	216
FRAME 60 trim system	486
FRAME 100 trim	220
FRAME 100 trim system	526

G

	PAGE
GEAR 3 suspended	426

H

	PAGE
HELIOS free standing	628
HELIOS suspended	314
HEX-O surface	414
HEX-O sususpended	420

I

	PAGE
INVISIBLE 80 retro trimless	82
INVISIBLE 80 round trimless	66
INVISIBLE 80 square, asym. trimless	74
INVISIBLE 100 retro trimless	84
INVISIBLE 100 round trimless	70
INVISIBLE 100 square, asym. trimless	78

K

	PAGE
KARO 80 trim, trimless	52
KARO 100 trim, trimless	56
KARO 150 trim, trimless	62
KARO ceiling	258
KIS surface, semi-recessed	244
KIS tracklight	698

L

	PAGE
LECU 65 IP67	798
LECU 110 IP67	800
LENO GRID 100	198
LENO GRID 100 system	578
LENO GRID 150	200
LENO GRID 150 system	580
LENO semi-recessed	194
LENO semi-recessed system	566
LENO surface	358
LENO surface system	570
LENO suspended	362
LENO suspended system	572
LENO trim	186
LENO trim system	558
LENO trimless	190
LENO trimless system	562
LETU 65 IP67	792
LETU 110 IP67	794
LINEA EVO wall	662
LINEA EVO wall system	600
LINO wall	660
LITO 60 suspended	366

M

	PAGE
MENO round trimless	162
MENO square trimless	172
MINIMAL 60 CURVE trimless system	496
MINIMAL 60 trimless	230
MINIMAL 60 trimless system	494
MINIMAL 100 trimless	234
MINIMAL 100 trimless system	530
MINO 60 ceiling, suspended system	506
MINO 60 CIRCLE ceiling	324
MINO 60 CIRCLE suspended	326
MINO 60 CURVE ceiling, susp. system	508
MINO 60 direct/indirect susp. system	514
MINO 60 IP65 surface	764
MINO 60 surface	338
MINO 60 suspended	350
MINO 100 ceiling, suspended system	536
MINO 100 surface	342
MINO 100 suspended	354
MINO X	202
MINO X system	606
MOVE IT 25 surface, suspended system	444
MOVE IT 25 suspended indirect system	448
MOVE IT 25 trimless system	436
MOVE IT 45 round flex trimless	110
MOVE IT 45 round trimless	106
MOVE IT 45 square trimless	118
MOVE IT 85 round trimless	114
MOVE IT 85 square trimless	124

N

	PAGE
NANO lighting solutions	610
NOD suspended	262

P

	PAGE
PABLO basic, focus tracklight	706
PABLO shutter, iris, gobo tracklight	710

R

	PAGE
RECOVER	670

S

	PAGE
SASSO 80 downlight trim, trimless	28
SASSO 80 flush, offset, trim, trimless	24
SASSO 100 / 150 asymmetric	44
SASSO 100 downlight trim, trimless	40
SASSO 100 flush, offset, trim, trimless	32
SASSO 100 WLS offset	38
SASSO 150 flush, offset, trim, trimless	48
SASSO ceiling	248
SASSO suspended	254
SOLIS IP65 surface	784
SONIC free standing	634
SONIC suspended	318
SONO FLEX IP54 trim	754
SONO FLEX IP54 trimless	758
SONO FLEX trim	154
SONO IP54 surface	748
SONO LOOP IP54 surface	750
SONO surface	280
SONO suspended	282
SPADO 100 / 150 round / asym. trim	136
SPADO 150 square trim	140
SQUADRO wallwasher tracklight	730
SQUADRO wallwasher, trim	148
STILO 40 suspended track	742
STRAIGHT tracklight	722
STRAIGHT wallwasher tracklight	726
STREAMCUT IP65 bollard	776
STREAMCUT IP65 surface	768
STREAMCUT IP65 wall	772
STRETTA MINI wall	654
STRETTA WALL	656
STUDIO tracklight	718

T

	PAGE
TASK free standing	616
TASK angular suspended	404
TASK circle suspended	400
TASK round surface	272
TASK round suspended	276
TASK S suspended	378
TASK square free standing	624
TASK square surface	392
TASK square suspended	396
TASK surface	382
TASK suspended	386
TASK suspended system	550
TASK table	638
TASK wall	644
TIMO 80 free tracklight	690
TRACK 3-phase recessed	744
TRACK 3-phase surface, suspended	745
TRAPEZ trimless	182
TUBO 100 ceiling, suspended	592
TUBO 100 surface	370
TUBO 100 suspended	374
TULA suspended	266

V

	PAGE
VARO tracklight	714
VELA EVO surface, ceiling	286
VELA EVO suspended	296

W

	PAGE
WALL MINI wallwasher trim, trimless	144
WISE IP54 wall	788
WISE recessed wall	666

Photographer Overview

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