

The logo for XAL, featuring the letters 'XAL' in a stylized, white, sans-serif font. The 'X' is formed by two intersecting diagonal lines.

LENO

Flat profile luminaire

EN

DE





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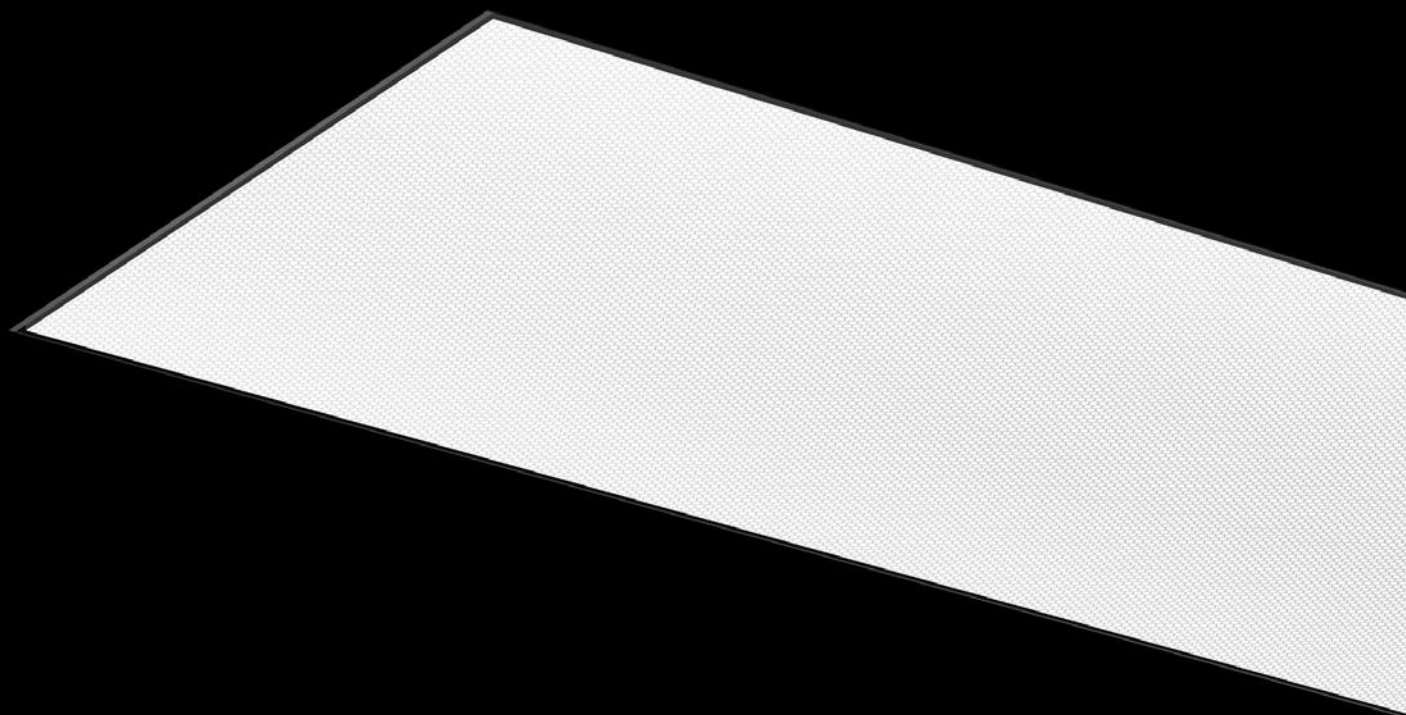
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- LENO semi-recessed
- LENO semi-recessed system
- LENO surface
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- LENO suspended
- LENO suspended system

52 SERVICES



xal.com/videos/leno

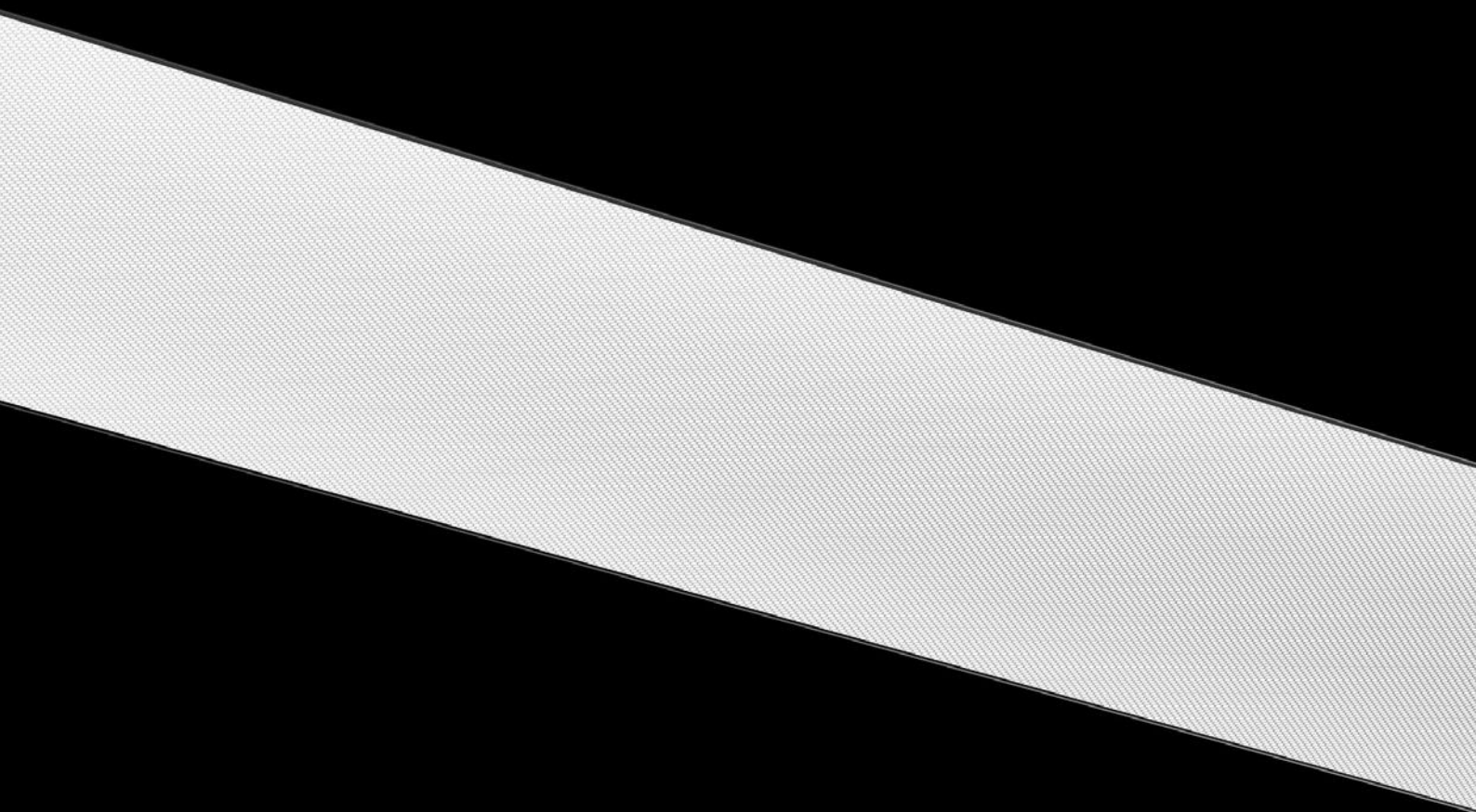


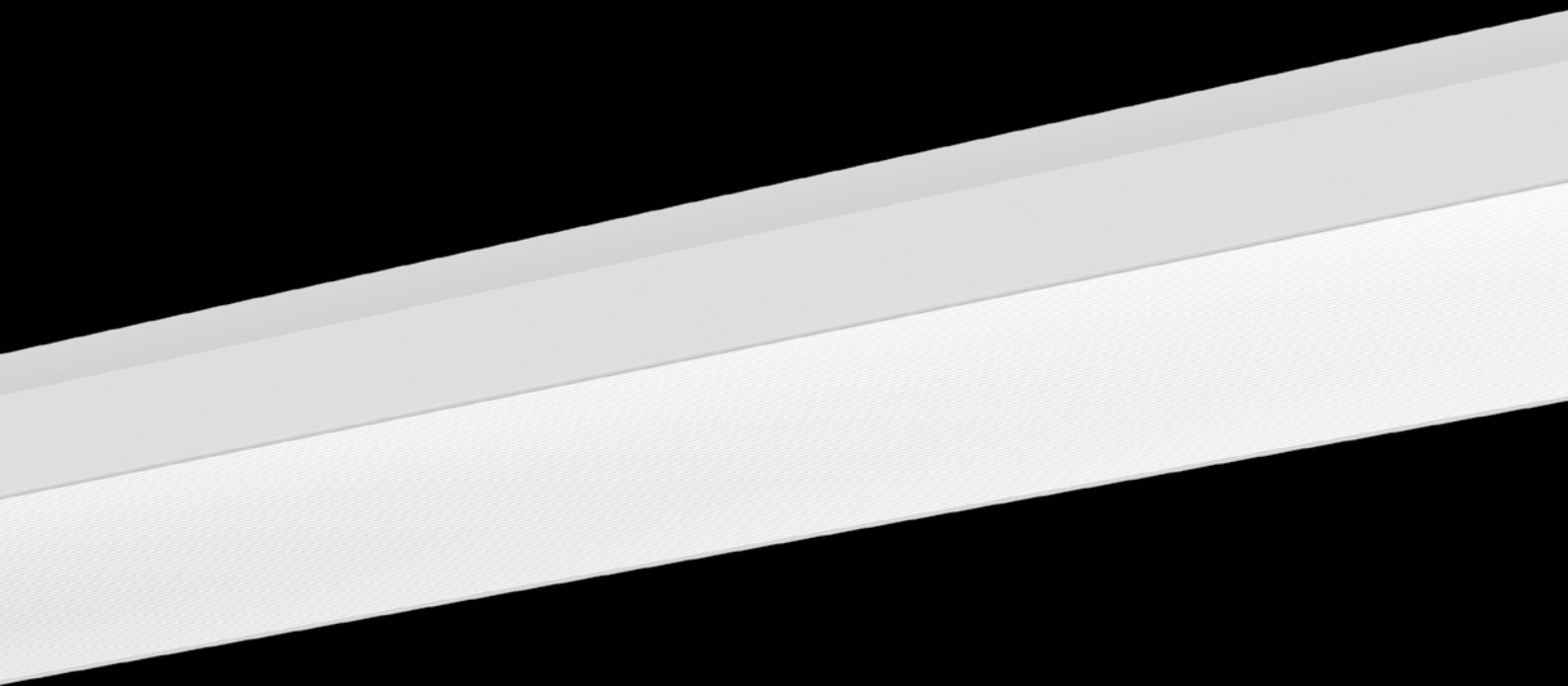
Flat profile luminaire

EN This Good Design Award-winning product family features a luminaire insert with a low height of just 11mm. The patentable technology can be mounted flush in suspended ceilings. The sleek design of the surface-mounted and suspended models allows them to fit harmoniously into various room settings.

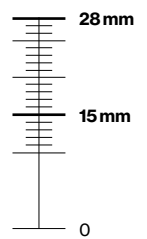
DE Die mit dem Good Design Award ausgezeichnete Produktfamilie weist eine geringe Höhe des Leuchteneinsatzes von nur 11mm auf. Die patentrelevante Technologie kann flächenbündig in abgehängte Decken integriert werden. Aufbau- und Pendelvarianten fügen sich durch das schlanke Design dezent in verschiedene Raumumgebungen ein.







LENO suspended
M 1:1



Low overall height

Flat suspended luminaire with integrated converter

EN The suspended model stands out thanks to its low overall height of 28 mm. The converter is discreetly integrated into the top of the flat extruded aluminium profile. The length of the suspension wire can be adjusted without tools.

DE Die Pendelvariante besticht durch eine geringe Gesamthöhe von 28 mm. Der Konverter ist dezent an der Oberseite des flachen Profils aus stranggepresstem Aluminium integriert. Die Länge der Seilabhängung kann werkzeuglos verstellt werden.



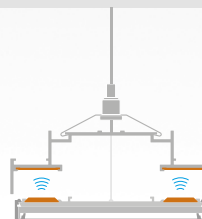
Magnets make life simple

Easy mounting with magnets

EN The luminaire insert can be mounted without tools using magnets. In order to prevent the insert from falling, it is secured on both ends by a safety wire, which is also helpful when mounting.

DE Die Befestigung des Leuchteneinsatzes erfolgt werkzeuglos mittels Magnet. Um den Einsatz vor Absturz zu sichern, wird dieser zusätzlich an beiden Enden durch ein Seil gesichert, das zugleich als Montagehilfe dient.

MAGNETIC MOUNTING LENO suspended

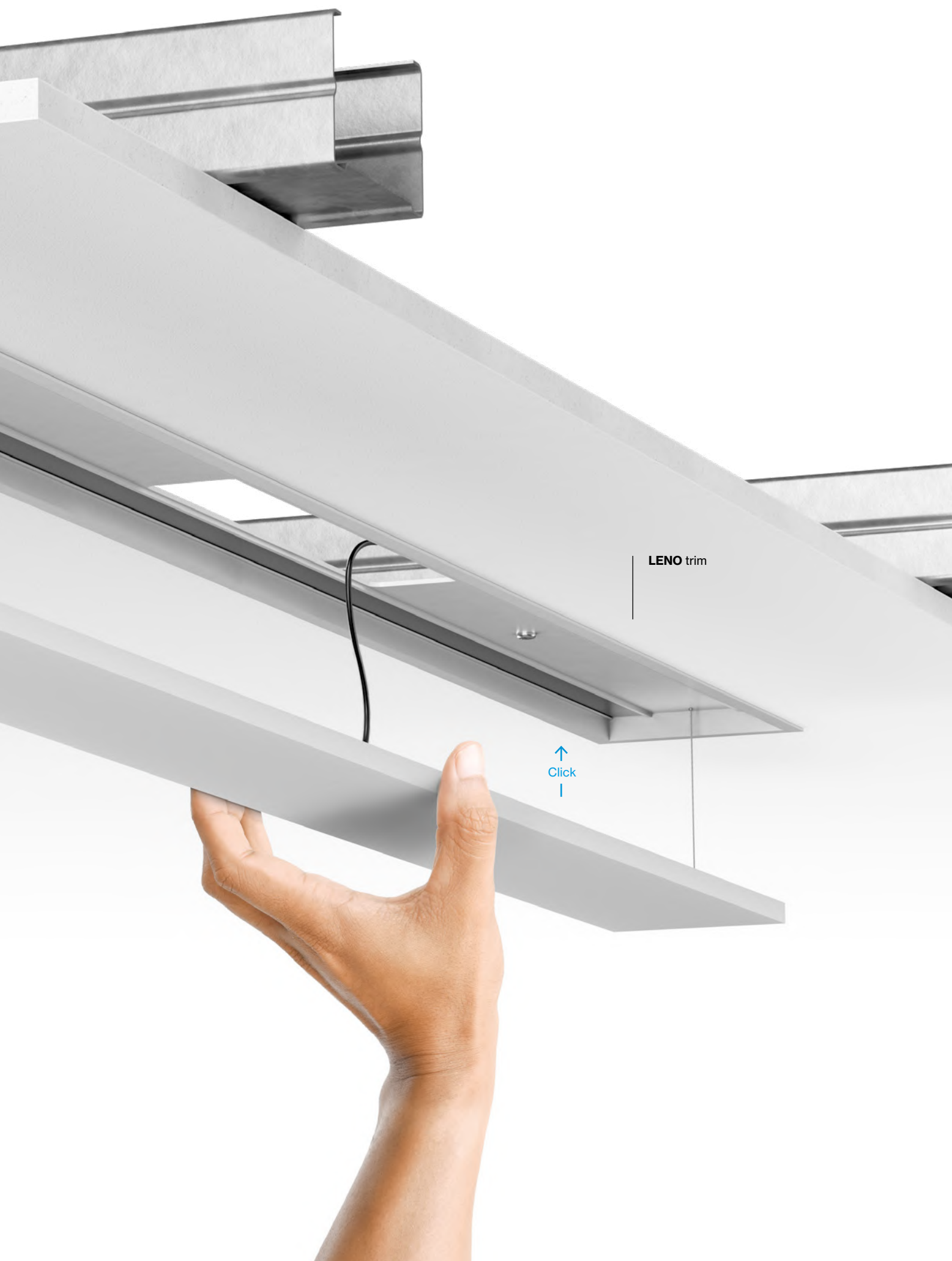


LENO trim



min. distance
> 45 mm

12,5 mm



LENO trim

↑
Click
↓



LENO trimless

Quick and easy mounting

Tool-free mounting and connection

EN For the recessed models, the mounting channel is bolted directly onto the ceiling substructure without having to make any ceiling cutouts. After the gypsum board ceiling has been mounted and sealed, the external converter can be inserted directly into the ceiling. The luminaire insert can be mounted without any tools using magnets. The frameless recessed luminaire features fluted edges in order to enable the filling compound to bond better.

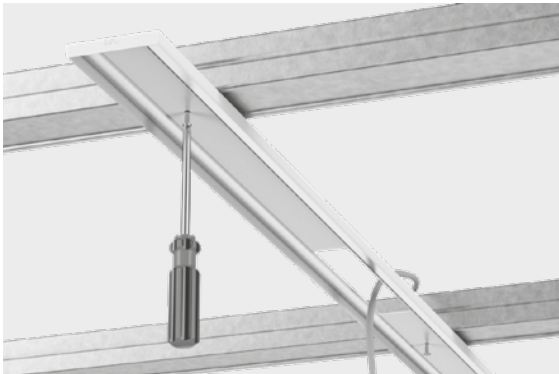
DE Bei den Einbauvarianten wird der Montagekanal direkt an die Deckenunterkonstruktion geschraubt, ohne dass diese ausgeschnitten werden muss. Nachdem die Gipskartonplatten befestigt und verspachtelt wurden, wird der externe Konverter direkt in die Decke eingelegt. Die Montage des Leuchteneinsatzes erfolgt vollkommen werkzeuglos mittels Magnet. Die rahmenlose Einbauleuchte ist für eine bessere Haftung der Spachtelmasse mit gerillten Rändern versehen.



xal.com/videos/leno

Mounting in six easy steps

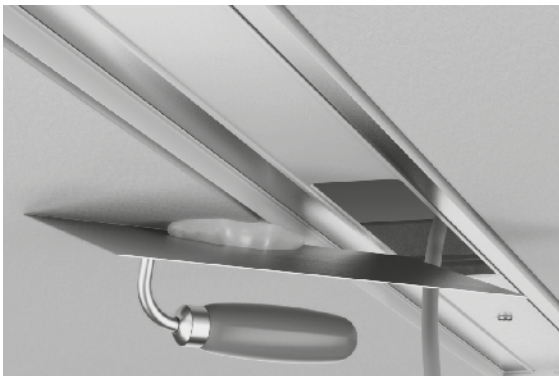
STEP 1



STEP 2



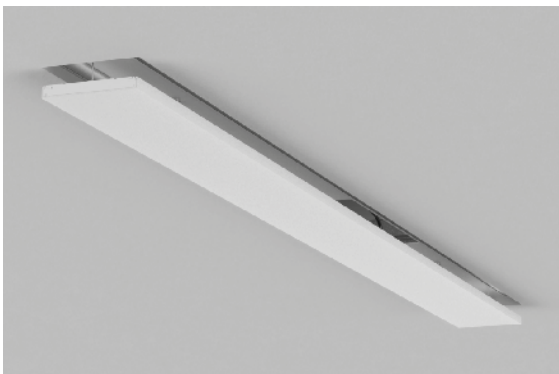
STEP 3



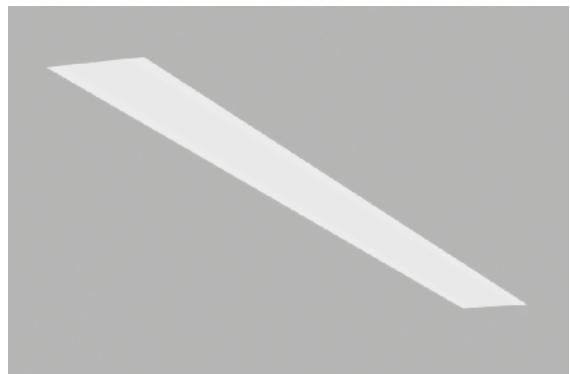
STEP 4



STEP 5

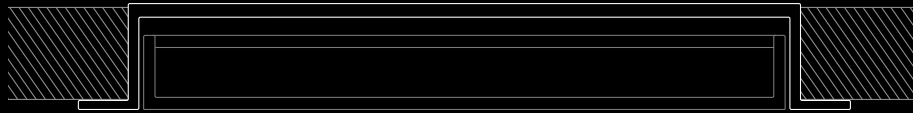


STEP 6

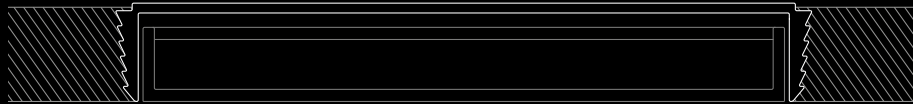


LENO

LENO trim
M 1:1



LENO trimless
M 1:1



LENO semi-recessed
M 1:1



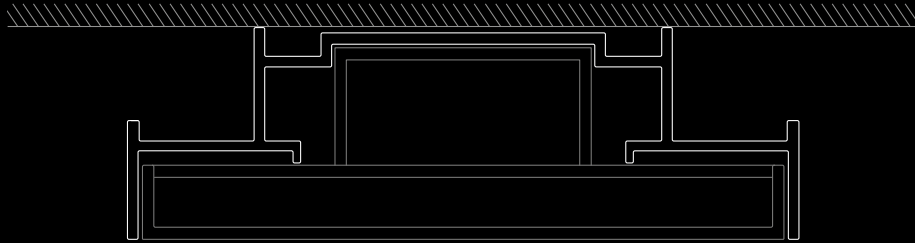
Variety of mounting

Optimised for every application

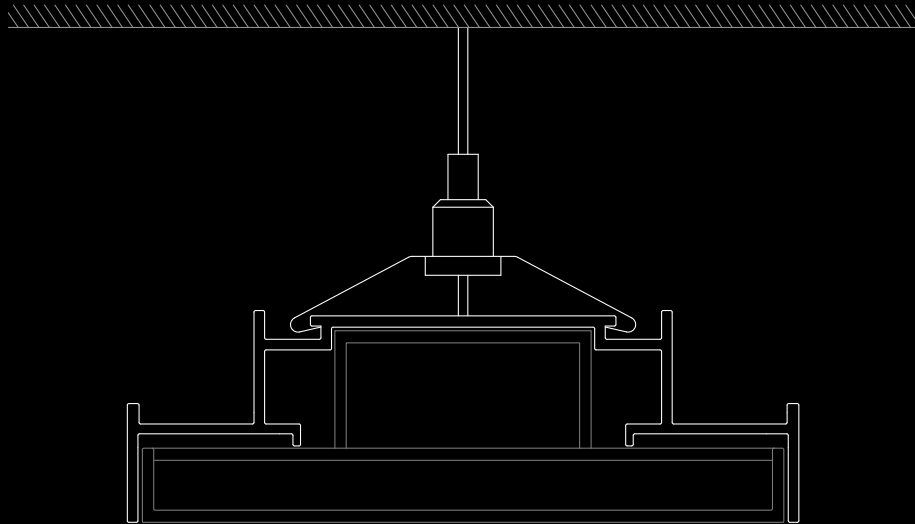
EN The range of LENO profile luminaires includes three recessed models as well as a surface-mounted model and a suspended model. All of the designs are available as individual and system luminaires.

DE Die Vielfalt der LENO Profilleuchten reicht von drei Einbauvarianten über die Aufbau- bis zur Pendelleuchte. Alle Ausführungen sind sowohl als Einzeleuchte als auch als Systemleuchte erhältlich.

LENO surface
M 1:1



LENO suspended
M 1:1



Channel
LENO trim
M 1:1

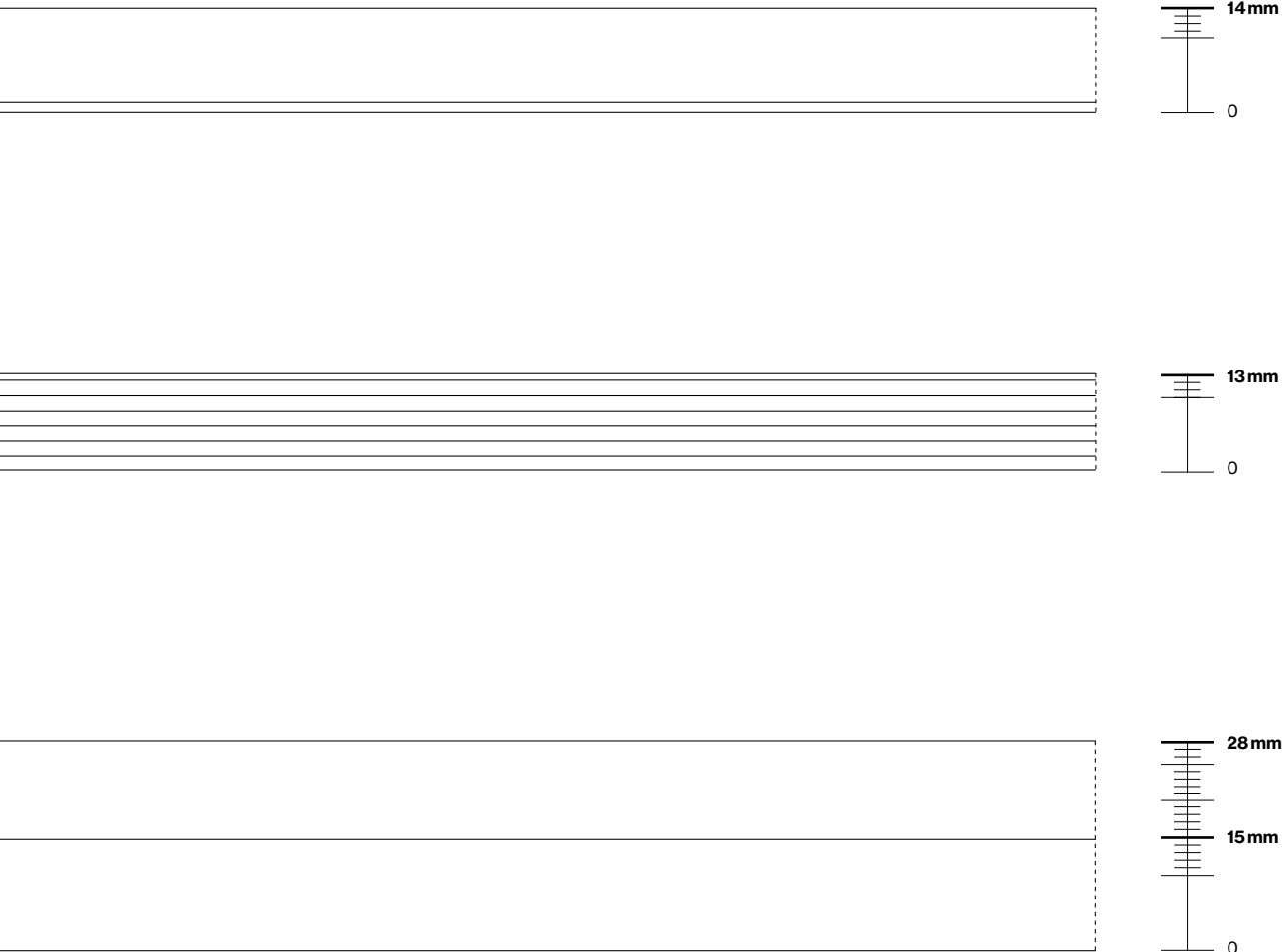


Channel
LENO trimless
M 1:1



Channel
LENO semi-recessed / surface / suspended
M 1:1





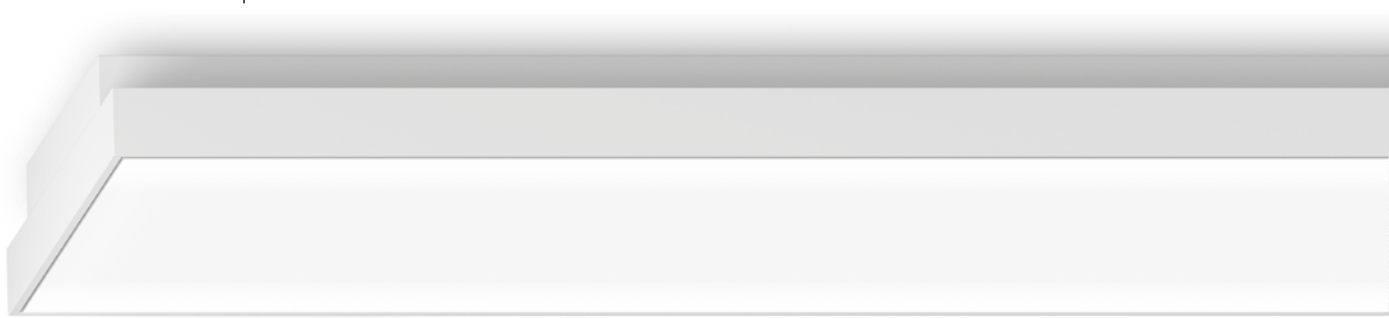
Sophisticated unit

Unparalleled lighting unit

EN LENO combines an ultra-flat design with the latest LED technology. The flat unit was made possible with a combination of side-lit LED sources and an innovative, magnetic mounting system. This combination makes the profile luminaire ideal for installation in plasterboard ceilings and for all other mounting options.

DE LENO vereint ultraflaches Design mit neuester LED-Technologie. Die flache Einheit wird durch die seitliche LED-Einspeisung und das innovative, magnetische Befestigungssystem realisiert. Diese Kombination macht die Profileuchte sowohl für den Einbau in Gipskartondecken als auch für alle anderen Montagevarianten attraktiv.

LENO surface
Cover high performance opal



Flexibility in application

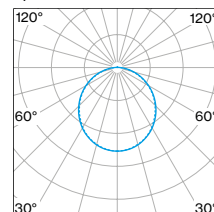
Flexible configuration and optimal glare suppression

EN Depending on the desired area of application, LENO is available in various designs and LED output classes (e and e²). The cover is offered in a high-performance opal version for uniform illumination or a microprismatic version (only available with e LED) for glare-free work light. In order to facilitate flexible configuration and optimal combinations, the luminaires are available in four different lengths.

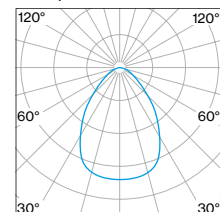
DE LENO ist je nach Anwendungsgebiet in verschiedenen Ausführungen und LED-Leistungsklassen (e und e²) erhältlich. Bei der Abdeckung kann zwischen der High Performance Opal-Variante für eine homogene Ausleuchtung oder der mikroprismatischen Variante (ausschließlich mit e LED) für ein blendfreies Arbeitslicht gewählt werden. Für die flexible Gestaltung und optimale Kombination sind die Leuchten in vier verschiedenen Längen verfügbar.

LIGHT DISTRIBUTION

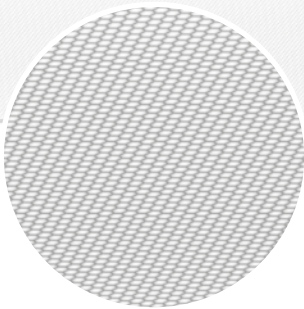
opal / e LED



microprismatic / e LED

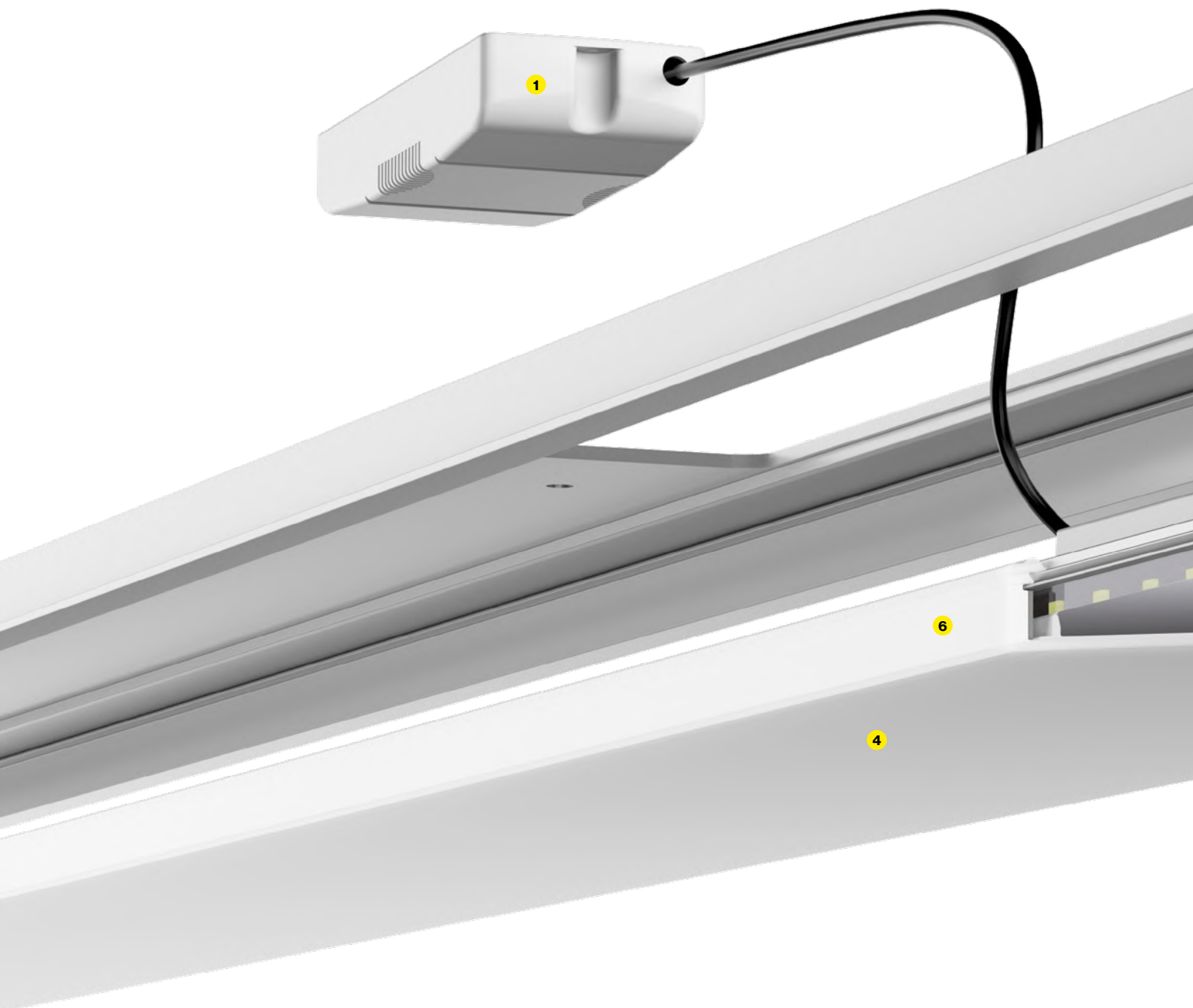


LENO surface
Cover microprismatic



Glare-free
UGR < 19

SYSTEM POWER	CHANNEL LENGTH (mm)	COVER HIGH PERFORMANCE OPAL	COVER MICROPRISMATIC
e	613	•	•
	1221	•	•
	1830	•	•
	2438	•	•
e ²	613	•	
	1221	•	
	1830	•	
	2438	•	



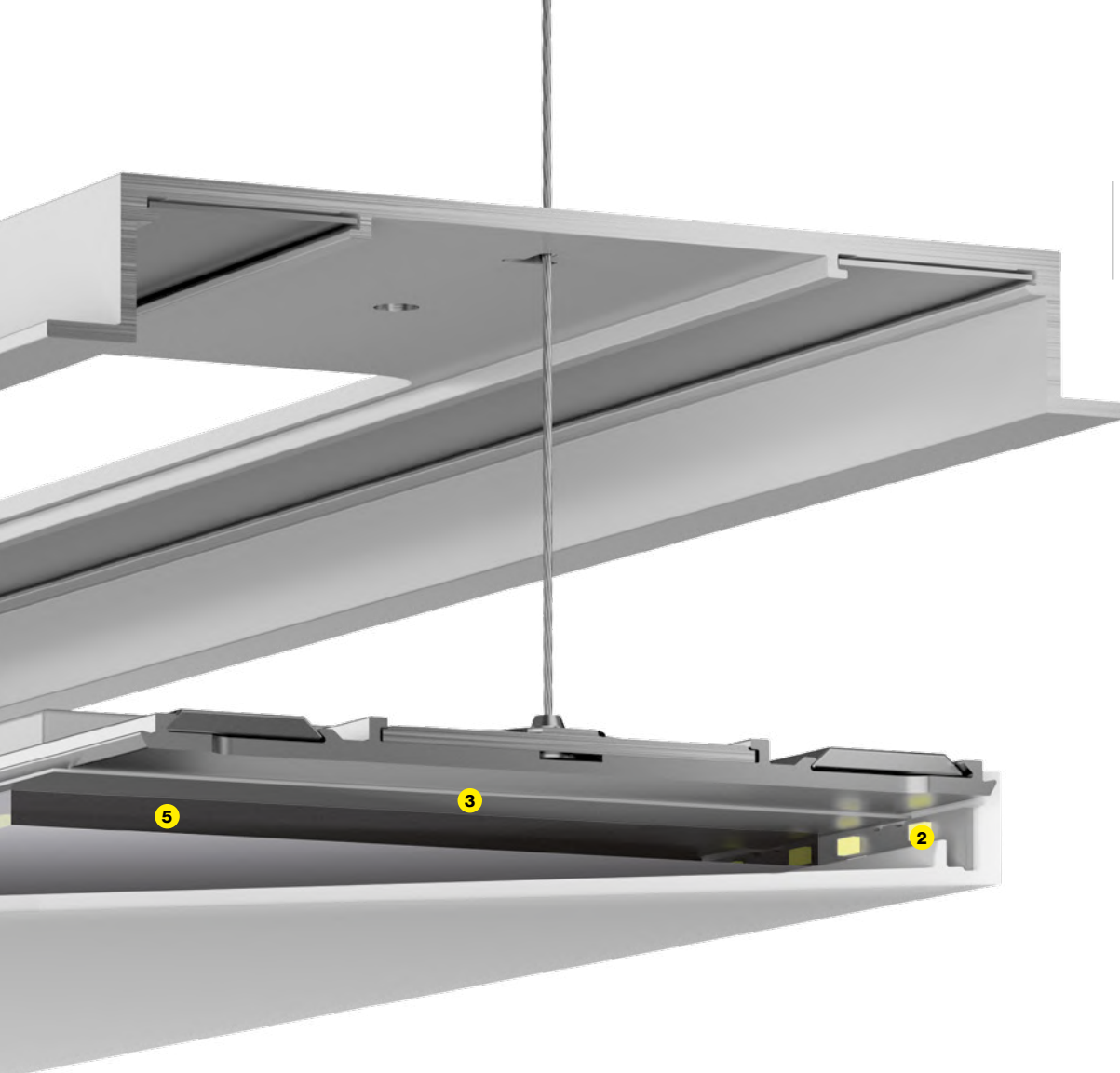
Refined technology

Innovative LED technology with a flat design

EN LENO conceals innovative lighting technology between the flat frame. Highly efficient LEDs achieve a high lumen output. The prismatic lens optimally redirects the laterally directed light evenly throughout the surface.

DE Zwischen dem schlanken Rahmenprofil verbirgt LENO innovative Lichttechnik. Hocheffiziente LEDs erzielen einen hohen Lumenoutput. Das Light Guiding Prism lenkt seitlich eingekoppeltes Licht optimal nach unten.

LENO trim

**1 DRIVER**

EN The recessed luminaire features an external converter that is inserted directly into the ceiling. For the surface-mounted and suspended luminaires, the converter is integrated into the top of the lamp in a central position.

DE Bei der Einbauleuchte kommt ein externer Konverter zum Einsatz, der direkt in die Decke eingelegt wird. Bei der Aufbau- und Pendelleuchte ist der Konverter zentral an der Oberseite der Leuchte integriert.

2 LED

EN By using highly efficient LEDs with a Colour Rendering Index (CRI) > 80 and colour temperatures in either 3000 K or 4000 K, a luminous efficacy of up to 129 lm/W is achieved.

DE Durch die Verwendung von hocheffizienten LEDs mit einem Farbwiedergabewert von CRI > 80 und Farbtemperaturen von wahlweise 3000 K und 4000 K, wird eine Lichtausbeute bis zu 129 lm/W erreicht.

3 REFLECTOR

EN The white reflector foil provides 96 % reflectivity.

DE Die weiße Reflektorfolie sorgt für einen Reflexionsgrad von 96 %.

4 HPO-COVER

EN The high-performance opal cover ensures a significantly higher degree of transmission compared with standard opal covers, providing a 15 % increase in luminous efficacy. Alternatively, LENO is also available in a micro-prismatic version, which achieves a Unified Glare Rating (UGR) < 19.

DE Das High Performance Opal Cover sorgt, im Vergleich zu opalen Standardabdeckungen, für einen wesentlich höheren Transmissionsgrad mit einer um 15 % erhöhten Lichtausbeute. Alternativ ist LENO auch als mikroprismatische Version erhältlich, welche Entblendungswerte von UGR < 19 einhält.

5 LGP-BODY

EN The light guiding prism (LGP) body is the heart of LENO. It receives the laterally coupled light and directs it downward through a laser-cut structure.

DE Das Herzstück der LENO ist der LGP (Light Guiding Prism) Body. Er nimmt das seitlich eingekoppelte Licht in sich auf und lenkt es durch gelaserte Strukturen nach unten.

6 LUMINAIRE INSERT

EN The luminaire insert consists of a plastic carrier profile with an aluminium cover. Thanks to its flat lamp enclosure with a height of just 11 mm, LENO IN FRAME is perfect for recessed ceiling installation.

DE Der Leuchteneinsatz wurde als Kunststoffträgerprofil mit Aluminiumabdeckung konstruiert. Durch den flachen Leuchtenkörper von nur 11 mm ist LENO IN FRAME für den Deckeneinbau perfektioniert.

Pro Medico
Graz, Austria

ARCHITECT
Innocad Architektur ZT GmbH
Graz, Austria

PRODUCT
LENO trim
LENO system trim





michael pachleitner group
Graz, Austria

ARCHITECT
GSarchitects
Graz, Austria

PRODUCT
LENO trimless





Maunulan työväenopisto
Helsinki, Finland

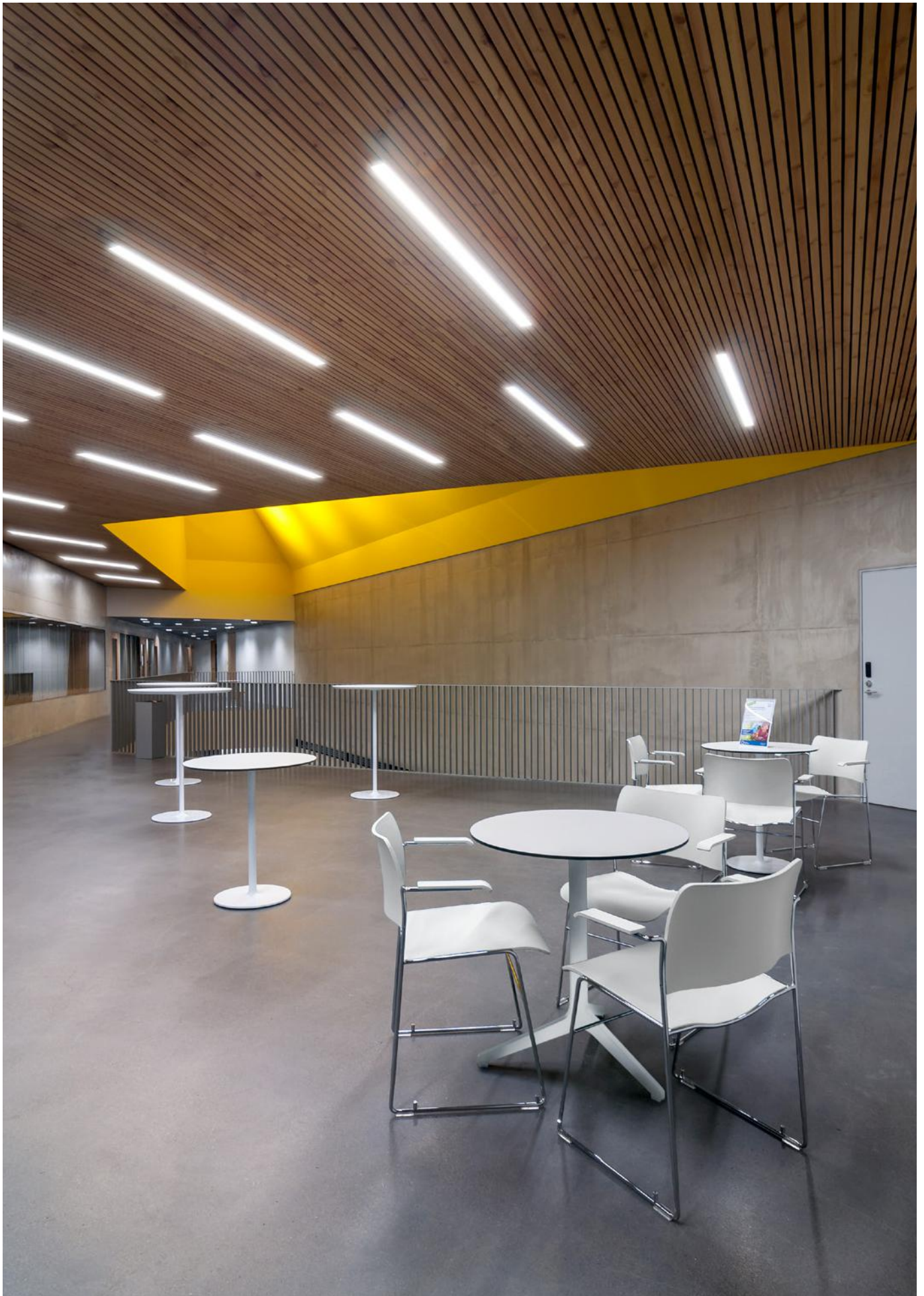
ARCHITECT

KS2 Architects
Helsinki, Finland

PRODUCT

LENO semi-recessed



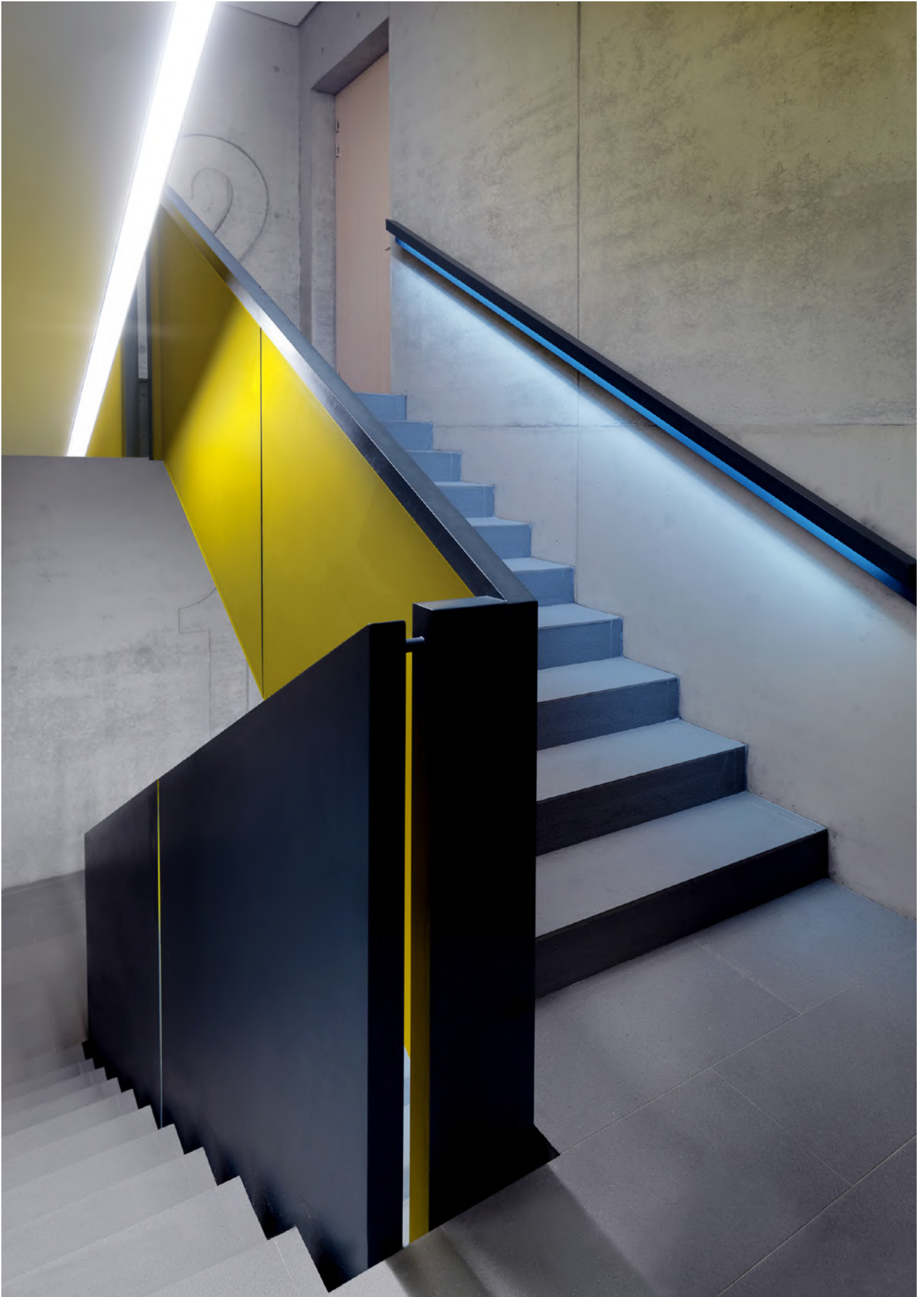


Ericpol
Lodz, Poland

ARCHITECT
HORIZONE Studio
Kraków, Poland

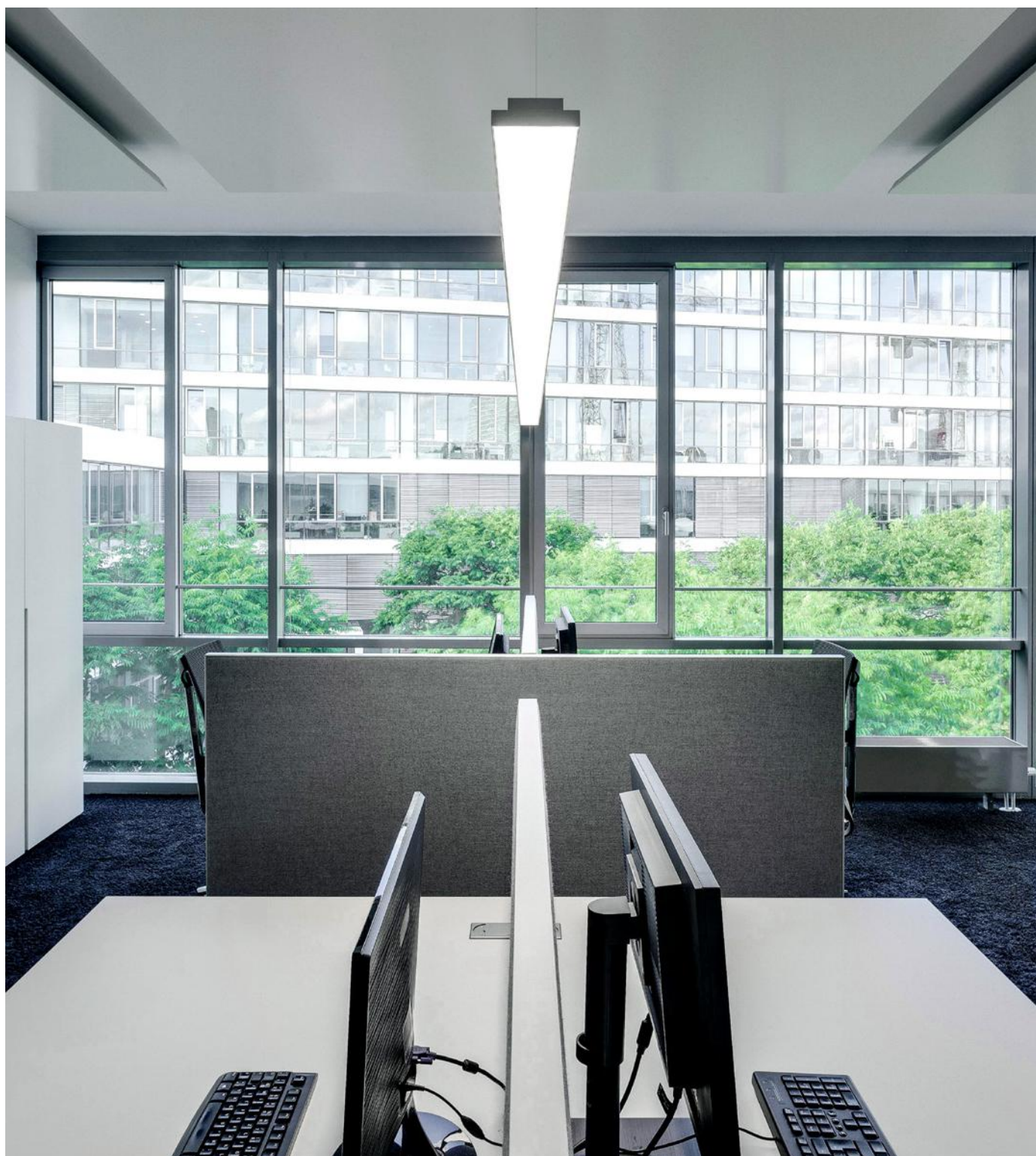
PRODUCT
LENO trimless system



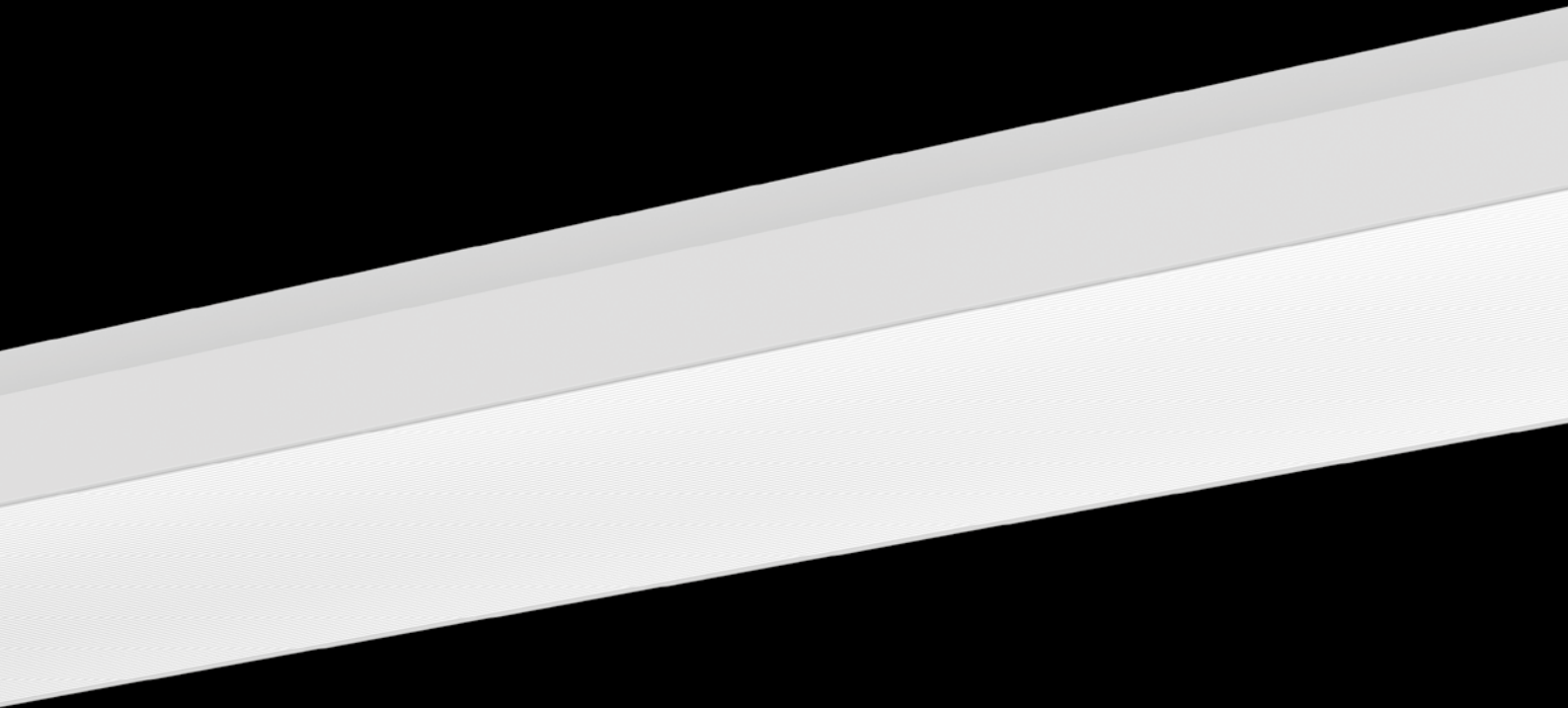


Office
Munich, Germany

PRODUCT
LENO suspended system









Get the profile

Product details

- 32** LENO trim
- 34** LENO trim system
- 36** LENO trimless
- 38** LENO trimless system
- 40** LENO semi-recessed
- 42** LENO semi-recessed system
- 44** LENO surface
- 46** LENO surface system
- 48** LENO suspended
- 50** LENO suspended system

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 2590 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50 000 h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)
jut-out PMMA cover
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

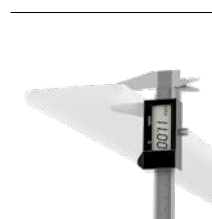
aluminium
powder-coated

Description

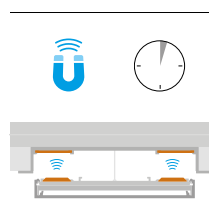
EN Low profile recessed channel, height 14 mm; suitable for installation in 12.5 mm ceilings, with trim; suitable for wall or ceiling mounting; surface white powder coated; easy mounting without need to cut the substructure; fall-safe light insert made of extruded aluminium profile, can be inserted in 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 (flush or jut-out) or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); optional with asymmetric light distribution; 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 50 000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

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; 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 (bündig oder herausragend) oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); optional mit asymmetrischer Lichtverteilung; 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

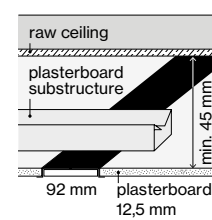
Features



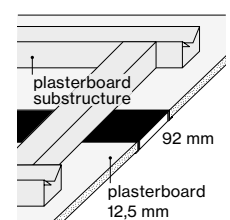
flat inset (11 mm)
UGR < 19



magnetic holders for
tool-free mounting



plasterboard
installation



alternative installation

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
DIM DALI 3

MATERIAL COLOUR
white



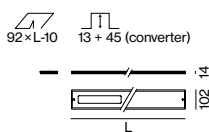
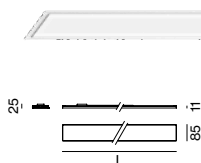
LIGHT OPTIC COVER 
opal high performance H

Extended configuration

COLOUR TEMPERATURE 
4000K 6

CONTROL 
non DIM 1

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J
asymmetric



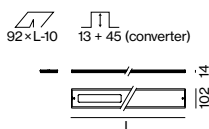
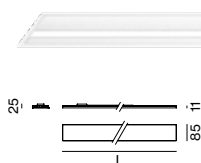
LENO trim

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  A
	4000K	1220lm		
19W	3000K	2300lm	1237	0 5 1 - 8 4 1 4  7  A
	4000K	2440lm		
29W	3000K	3450lm	1846	0 5 1 - 8 4 1 6  7  A
	4000K	3670lm		
39W	3000K	4600lm	2454	0 5 1 - 8 4 1 8  7  A
	4000K	4890lm		

luminous flux opal high performance, -5% microprismatic, -5% jut-out



LENO trim, asymmetric

INSET + CHANNEL TRIMLESS



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
16W	3000K	1490lm	629	0 5 1 - 8 4 1 2  7 A
	4000K	1580lm		
32W	3000K	2970lm	1237	0 5 1 - 8 4 1 4  7 A
	4000K	3160lm		
47W	3000K	4460lm	1846	0 5 1 - 8 4 1 6  7 A
	4000K	4740lm		
63W	3000K	5950lm	2454	0 5 1 - 8 4 1 8  7 A
	4000K	6320lm		

Accessories

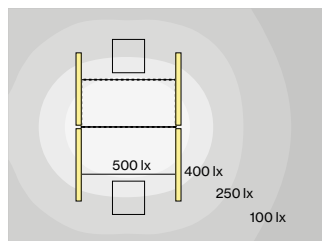
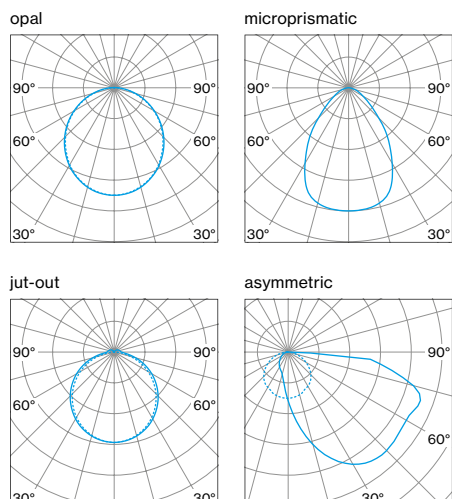


DISMOUNTING TOOL

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

Technical data

LIGHT DISTRIBUTION



LENO trim, 19W, 4000K

ROOM VALUES

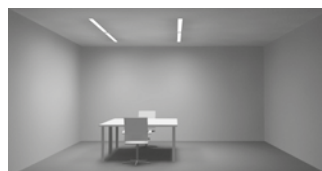
Room dimensions	5.4 × 4 × 2.8m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

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



LENO

trim system

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 2590 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50 000 h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)
jut-out PMMA cover
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI
through wire included

PHYSICAL

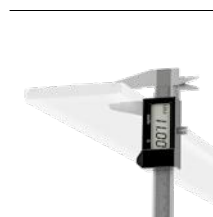
aluminium
powder-coated
613–2438 mm
halogen-free cable

Description

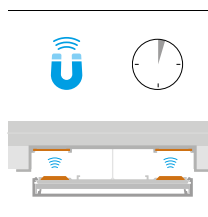
EN Low profile recessed channel, height 14 mm; suitable for installation in 12.5 mm ceilings, with trim; suitable for wall or ceiling mounting; designed for continuous lighting systems; easy mounting without need to cut the substructure; surface white powder coated; fall-safe light insert made of extruded 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 (flush or jut-out) or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); optional with asymmetric light distribution; 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 50 000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

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, satinierte (bündig oder herausragend) oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); optional mit asymmetrischer Lichtverteilung; 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

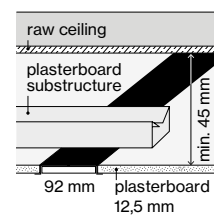
Features



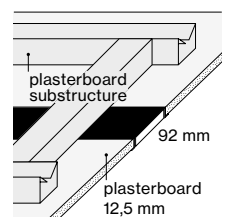
flat inset (11 mm)



magnetic holders for tool-free mounting



plasterboard installation



alternative installation

Standard configuration

COLOUR TEMPERATURE 
3000 K 5

CONTROL 
DIM DALI 3

MATERIAL COLOUR

white



LIGHT OPTIC COVER 
opal high performance H

Extended configuration

COLOUR TEMPERATURE 
4000 K 6

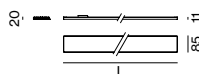
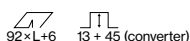
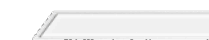
CONTROL 
non DIM 1

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J
asymmetric A

Options on request

EMERGENCY LIGHT

1h accupack
3h accupack



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



SYS. POWER (OPAL, MP, JUT-OUT / ASYM.)	L (mm)	ORDER CODE
11W/16W	612	0 5 1 - 8 0 1 2 : : : 7 □
19W/32W	1220	0 5 1 - 8 0 1 4 : : : 7 □
29W/47W	1828	0 5 1 - 8 0 1 6 : : : 7 □
39W/63W	2436	0 5 1 - 8 0 1 8 : : : 7 □

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000 K	18 W/m	1880 lm/m	104 lm/W
performance	4000 K		2000 lm/m	111 lm/W
microprismatic	3000 K	18 W/m	1780 lm/m	99 lm/W
UGR < 19	4000 K		1890 lm/m	105 lm/W
jut-out	3000 K	18 W/m	1800 lm/m	100 lm/W
	4000 K		1910 lm/m	106 lm/W
asymmetric	3000 K	26 W/m	2440 lm/m	94 lm/W
	4000 K		2590 lm/m	100 lm/W

Accessories



END CAPS

TYPE	ORDER CODE
end caps (pair)	0 5 1 - 8 9 9 1 2 1 7



LINEAR CONNECTOR

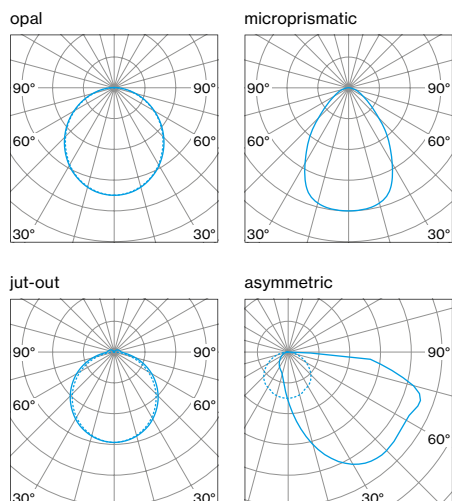
TYPE	ORDER CODE
linear connector (pair)	0 5 1 - 8 9 9 0 1 1 0
linear connector (10 pairs)	0 5 1 - 8 9 9 0 1 1 0 . 1 0



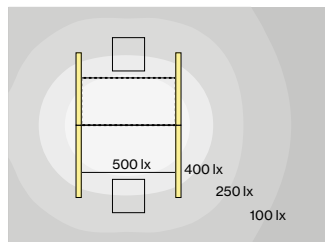
DISMOUNTING TOOL

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

LIGHT DISTRIBUTION



Technical data



LENO trim, microprismatic,
19 W, 4000 K

ROOM VALUES

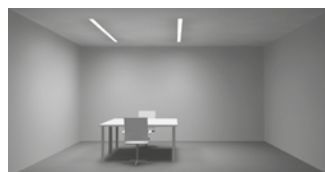
Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

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/m²	



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 2590 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50 000 h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)
jut-out PMMA cover
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI

PHYSICAL

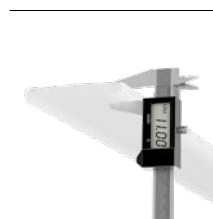
aluminium
powder-coated

Description

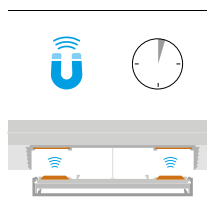
EN Low profile recessed channel, height 13 mm; suitable for rimless installation in 12.5 mm plasterboard ceilings; suitable for wall or ceiling mounting; surface white powder coated; special edge design with grooves for better adhesion of filler; easy mounting without need to cut the substructure; fall-safe 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 (flush or jut-out) or microprismatic PMMA cover; workplace light suitable for VDUs according to DIN EN 12464-1 (UGR < 19); optional with asymmetric light distribution; 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 50 000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

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; 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 (bündig oder herausragend) oder mikroprismatische Abdeckung aus PMMA; bildschirmtaugliche Arbeitsplatzleuchte nach DIN EN 12464-1 (UGR < 19); optional mit asymmetrischer Lichtverteilung; 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

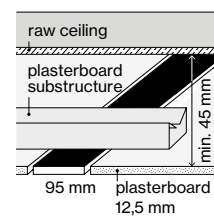
Features



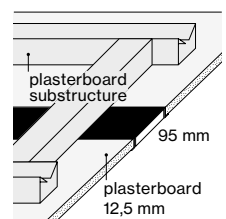
flat inset (11 mm)
UGR < 19



magnetic holders for
tool-free mounting



plasterboard
installation



alternative installation

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL 
DIM DALI 3

MATERIAL COLOUR
white



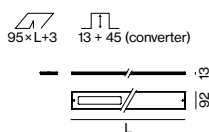
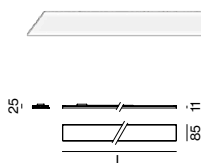
LIGHT OPTIC COVER 
opal high performance H

Extended configuration

COLOUR TEMPERATURE 
4000K 6

CONTROL 
non DIM 1

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J
asymmetric



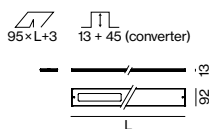
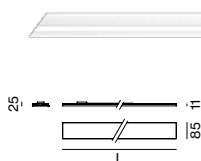
LEN0 trimless

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  A
	4000K	1220lm		
19W	3000K	2300lm	1224	0 5 1 - 8 3 1 4  7  A
	4000K	2440lm		
29W	3000K	3450lm	1833	0 5 1 - 8 3 1 6  7  A
	4000K	3670lm		
39W	3000K	4600lm	2441	0 5 1 - 8 3 1 8  7  A
	4000K	4890lm		

luminous flux opal high performance, -5% microprismatic, -5% jut-out



LEN0 trimless, asymmetric

INSET + CHANNEL TRIMLESS



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
16W	3000K	1490lm	616	0 5 1 - 8 3 1 2  7 A
	4000K	1580lm		
32W	3000K	2970lm	1224	0 5 1 - 8 3 1 4  7 A
	4000K	3160lm		
47W	3000K	4460lm	1833	0 5 1 - 8 3 1 6  7 A
	4000K	4740lm		
63W	3000K	5950lm	2441	0 5 1 - 8 3 1 8  7 A
	4000K	6320lm		

Accessories

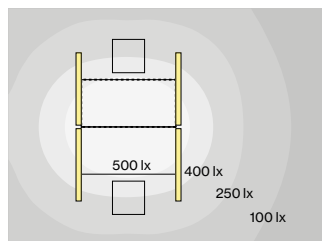
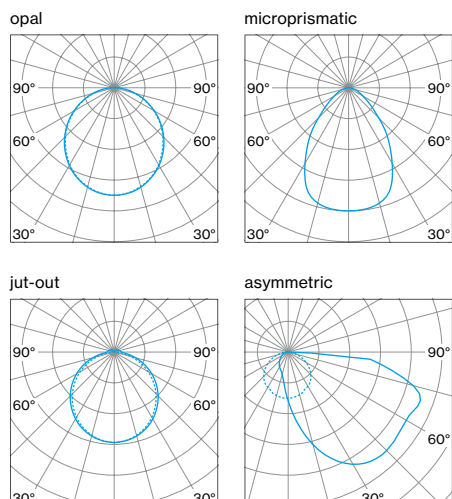


DISMOUNTING TOOL

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

Technical data

LIGHT DISTRIBUTION



LEN0 trimless, 19W, 4000K

ROOM VALUES

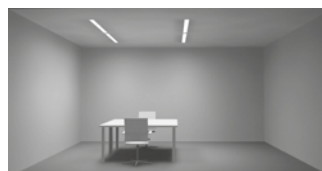
Room dimensions	5.4 × 4 × 2.8m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

CALCULATION SURFACE

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



LENO

trimless system

xal.com/leno



Quickinfo

GENERAL

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

LED

Mid-power LED
up to 2590 lm/m
up to 126 lm/W
3000 K, 4000 K
CRI ≥ 80
Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50 000 h

OPTICAL

direct light 100 %
HPO PMMA cover opal
microprismatic (UGR < 19)
jut-out PMMA cover
asymmetric illumination

ELECTRICAL

non DIM, DIM DALI
through wire included

PHYSICAL

aluminium
powder-coated
613–2438 mm
halogen-free cable

Description

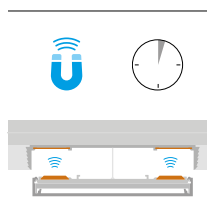
EN Low profile recessed channel, height 13 mm; suitable for rimless installation in 12.5 mm plasterboard ceilings; suitable for wall or ceiling mounting; special edge design with grooves for better adhesion of filler; designed for continuous lighting systems; easy mounting without need to cut the substructure; 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 50 000 hours; protection class from below IP 40 (from above IP 20); PC II; incl. external converter for ceiling insertion; optional non-dimmable

DE Extrem flacher Einbaukanal mit 13 mm Höhe; geeignet für den randlosen Einbau in 12,5 mm 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; 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SK II; inkl. externem Konverter für Deckeneinwurf; optional nicht dimmbar

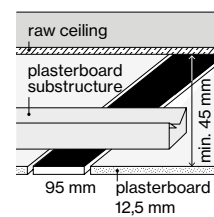
Features



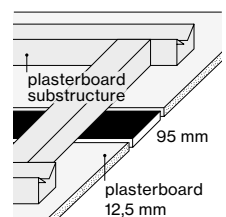
flat inset (11 mm)



magnetic holders for tool-free mounting



plasterboard installation



alternative installation

Standard configuration

COLOUR TEMPERATURE 
3000 K 5

CONTROL 
DIM DALI 3

MATERIAL COLOUR

white



LIGHT OPTIC COVER 
opal high performance H

Extended configuration

COLOUR TEMPERATURE 
4000 K 6

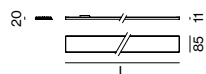
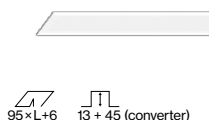
CONTROL 
non DIM 1

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J
asymmetric A

Options on request

EMERGENCY LIGHT

1h accupack
3h accupack



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



SYS. POWER (OPAL, MP, JUT-OUT / ASYM.)	L (mm)	ORDER CODE
11W/16W	612	0 5 1 - 8 0 1 2 : 7 
19W/32W	1220	0 5 1 - 8 0 1 4 : 7 
29W/47W	1828	0 5 1 - 8 0 1 6 : 7 
39W/63W	2436	0 5 1 - 8 0 1 8 : 7 

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000 K	18 W/m	1880 lm/m	104 lm/W
performance	4000 K		2000 lm/m	111 lm/W
microprismatic	3000 K	18 W/m	1780 lm/m	99 lm/W
UGR < 19	4000 K		1890 lm/m	105 lm/W
jut-out	3000 K	18 W/m	1800 lm/m	100 lm/W
	4000 K		1910 lm/m	106 lm/W
asymmetric	3000 K	26 W/m	2440 lm/m	94 lm/W
	4000 K		2590 lm/m	100 lm/W

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 5 1 - 8 9 9 0 2 1 7

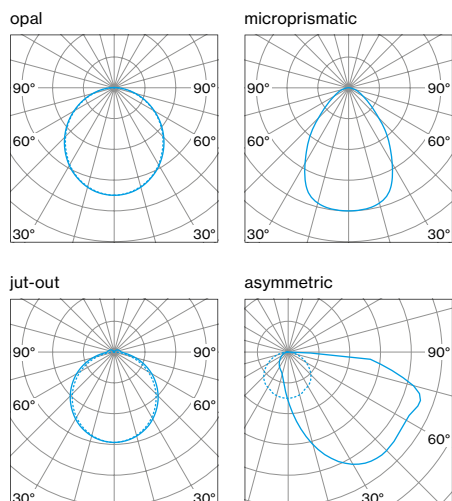
LINEAR CONNECTOR

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

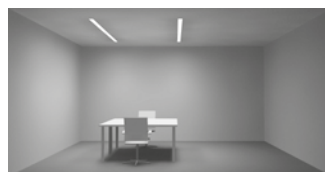
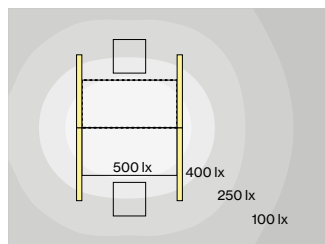
DISMOUNTING TOOL

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

LIGHT DISTRIBUTION



Technical data



LENO trimless, microprismatic,
19 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

CALCULATION SURFACE

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

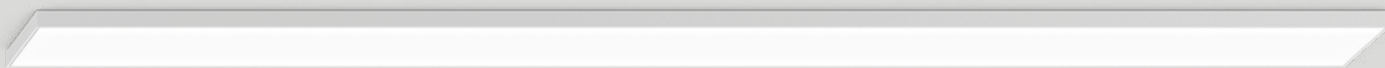
GLARE EVALUATION

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

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

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50 000 h

OPTICAL

direct light 100 %

HPO PMMA cover opal

microprismatic (UGR < 19)

jut-out PMMA cover

ELECTRICAL

DIM DALI

PHYSICAL

aluminium

powder-coated

Description

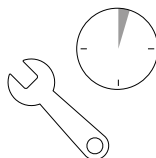
EN Low profile recessed mounted luminaire, 15 mm visible height; suitable for wall or ceiling mounting; suitable for installation in primed or exposed concrete, in plasterboard constructions and in plastered walls or ceilings; surface powder coated in white, grey or black; fall-safe light insert made 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 (flush or jut-out) 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 50 000 hours; protection class from below IP 40 (from above IP 20); PC I; DALI dimmable

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; 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 (bündig oder herausragend) 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SKI; DALI-dimmbar

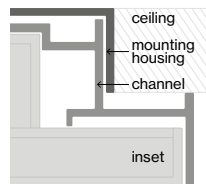
Features



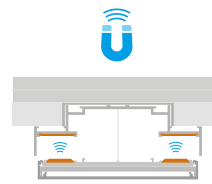
flat inset (11 mm)
UGR < 19



quick installation



mounting



magnetic holders for
tool-free mounting

Standard configuration

COLOUR TEMPERATURE ⬢
3000K 5

CONTROL
DIM DALI

MATERIAL COLOUR ▣
white 7

7

LIGHT OPTIC COVER ⬢
opal high performance H

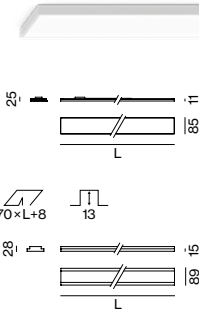
Extended configuration

COLOUR TEMPERATURE ⬢
4000K 6

MATERIAL COLOUR ▣
grey G
black 8

G 8
+5% surcharges

LIGHT OPTIC COVER ⬢
microprismatic (UGR < 19) G
jut-out J



LENO semi-recessed

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 ⬢ ▣
	4000K	1220lm		
19W	3000K	2300lm	1226	0 5 1 - 8 5 1 4 ⬢ ▣
	4000K	2440lm		
29W	3000K	3450lm	1835	0 5 1 - 8 5 1 6 ⬢ ▣
	4000K	3670lm		
39W	3000K	4600lm	2443	0 5 1 - 8 5 1 8 ⬢ ▣
	4000K	4890lm		

luminous flux opal high performance, -5% microprismatic, -5% jut-out

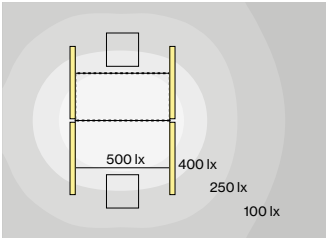
Accessories



DISMOUNTING TOOL

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

Technical data



LENO semi-recessed, 19W, 4000K

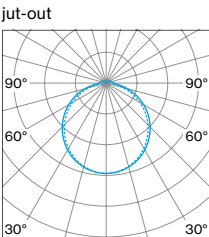
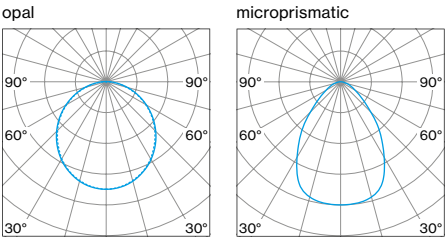
ROOM VALUES	
Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

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/m²	



LIGHT DISTRIBUTION



LENO

semi-recessed system

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

L80/50 000 h

OPTICAL

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

ELECTRICAL

DIM DALI
 through wire included

PHYSICAL

aluminium
 powder-coated
 613–2438 mm
 halogen-free cable

Description

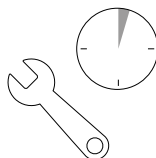
EN Low profile recessed mounted luminaire, 15 mm visible height; suitable for wall or ceiling mounting; suitable for installation in primed or exposed concrete, in plasterboard constructions and in plastered walls or ceilings; designed for continuous lighting systems; surface powder coated in white, 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 (flush or jut-out) 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 50 000 hours; protection class from below IP 40 (from above IP 20); PCI; DALI dimmable

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; 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 (bündig oder herausragend) 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SKI; DALI-dimmbar

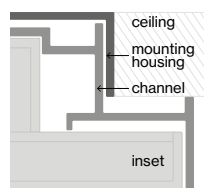
Features



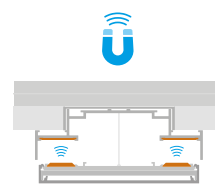
flat design (15 mm)



quick installation



mounting



magnetic holders for tool-free mounting

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL
DIM DALI

MATERIAL COLOUR 
white 7

LIGHT OPTIC COVER 
opal high performance H

Extended configuration

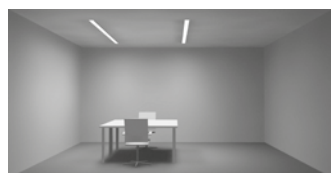
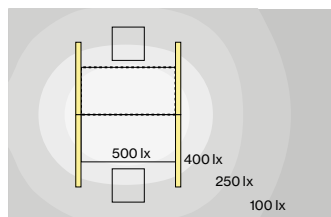
COLOUR TEMPERATURE 
4000K 6

MATERIAL COLOUR 
grey G
black 8

+5% surcharges

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J

Technical data

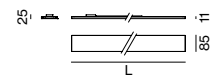
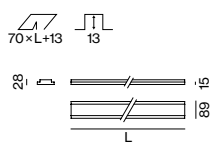
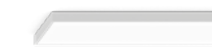


LENO semi-recessed,
microprismatic, 19W, 4000K

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 (U_0) > 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 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

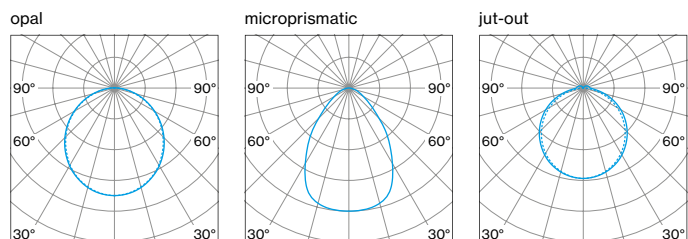


SYSTEM POWER	L (mm)	ORDER CODE
11W	612*	0 5 1 - 8 1 1 2 : 3 7 
19W	1220	0 5 1 - 8 2 1 4 : 3 7 
29W	1828	0 5 1 - 8 2 1 6 : 3 7 
39W	2436	0 5 1 - 8 2 1 8 : 3 7 

*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	18 W/m	1880 lm/m	104 lm/W
performance	4000K		2000 lm/m	111 lm/W
microprismatic	3000K	18 W/m	1780 lm/m	99 lm/W
UGR < 19	4000K		1890 lm/m	105 lm/W
jut-out	3000K	18 W/m	1800 lm/m	100 lm/W
	4000K		1910 lm/m	106 lm/W

LIGHT DISTRIBUTION



Accessories

END CAPS

TYPE	ORDER CODE
end caps mounting housing (pair)	0 5 1 - 8 9 9 6 2 1 0
end caps semi-recessed	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 220-240 V | 13A

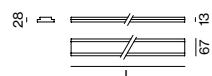
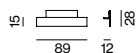
TYPE	ORDER CODE
power feeder connector	0 5 1 - 8 9 9 2 3 3 0

CONCRETE MOUNTING HOUSING

L (mm)	UNIT	ORDER CODE
616	end	0 5 1 - 8 9 6 0 0 6 0
1224	start/end	0 5 1 - 8 9 6 0 1 2 0
1221	middle	0 5 1 - 8 9 6 1 1 2 0
1833	start/end	0 5 1 - 8 9 6 0 1 8 0
1830	middle	0 5 1 - 8 9 6 1 1 8 0
2441	start/end	0 5 1 - 8 9 6 0 2 4 0
2438	middle	0 5 1 - 8 9 6 1 2 4 0

DISMOUNTING TOOL

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



LENO

surface

xal.com/leno



Quickinfo

GENERAL

surface mounted
 ⚡ 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

L80/50 000 h

OPTICAL

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

ELECTRICAL

DIM DALI

PHYSICAL

aluminium
 powder-coated
 halogen-free cable

Description

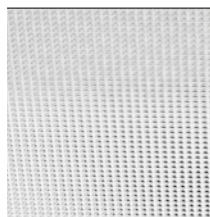
EN Low profile surface mounted luminaire, 28 mm total height; suitable for wall or ceiling mounting; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) 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 50 000 hours; protection class from below IP 40 (from above IP 20); PCI; DALI dimmable

DE Extrem flache Aufbauleuchte mit 28 mm Gesamthöhe; geeignet für die Wand- oder Deckenmontage; Oberfläche weiß, grau oder schwarz pulverbeschichtet; absturzsicherter 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 (bündig oder herausragend) 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SKI; DALI-dimmbar

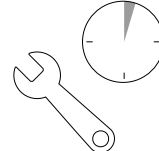
Features



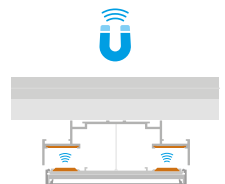
flat design (28 mm)



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

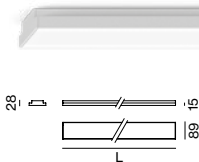
COLOUR TEMPERATURE 
4000K 6

MATERIAL COLOUR 
grey G
black 8



+5% surcharges

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J



LENO surface

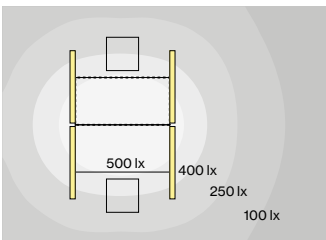
INSET + CHANNEL SURFACE



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1150lm	618	0 5 1 - 9 1 1 2 : 3 
	4000K	1220lm		
19W	3000K	2300lm	1226	0 5 1 - 9 1 1 4 : 3 
	4000K	2440lm		
29W	3000K	3450lm	1835	0 5 1 - 9 1 1 6 : 3 
	4000K	3670lm		
39W	3000K	4600lm	2443	0 5 1 - 9 1 1 8 : 3 
	4000K	4890lm		

luminous flux opal high performance, -5% microprismatic, -5% jut-out

Technical data



LENO surface, microprismatic,
19 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

CALCULATION SURFACE

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

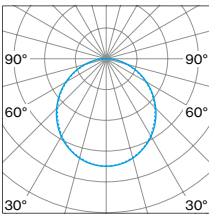
GLARE EVALUATION

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

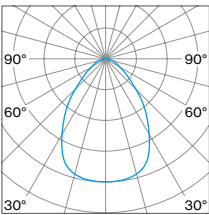


LIGHT DISTRIBUTION

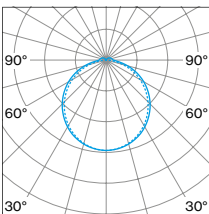
opal



microprismatic



jut-out



LENO

surface system

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

3000 K, 4000 K

CRI ≥ 80

Binning initial ≤ 3 MacAdam

ESTIMATED LED LIFETIME

L80/50 000 h

OPTICAL

direct light 100 %

HPO PMMA cover opal

microprismatic (UGR < 19)

jut-out PMMA cover

ELECTRICAL

DIM DALI

through wire included

PHYSICAL

aluminium

powder-coated

613–2438 mm

halogen-free cable

Description

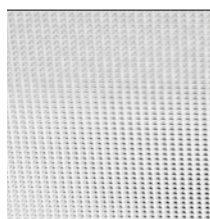
EN Low profile surface mounted luminaire, 28 mm total height; suitable for wall or ceiling mounting; designed for continuous lighting systems; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) 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 50 000 hours; protection class from below IP 40 (from above IP 20); PCI; DALI dimmable

DE Extrem flache Aufbauleuchte mit 28 mm Gesamthöhe; geeignet für die Wand- oder Deckenmontage; 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 (bündig oder herausragend) 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 50 000 h Lebensdauer; Schutzart IP 40 unten (oben IP 20); SKI; DALI-dimmbar

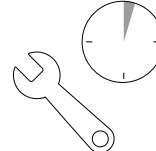
Features



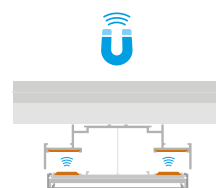
flat design (28 mm)



microprismatic (UGR < 19)



quick installation



magnetic holders for tool-free mounting

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL
DIM DALI

MATERIAL COLOUR 
white 7

LIGHT OPTIC COVER 
opal high performance H

Extended configuration

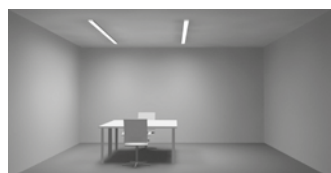
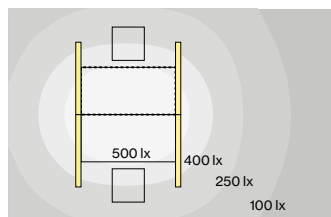
COLOUR TEMPERATURE 
4000K 6

MATERIAL COLOUR 
grey G
black 8

+5% surcharges

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J

Technical data

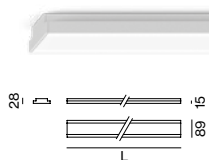


LENO surface, microprismatic,
19 W, 4000K

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/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

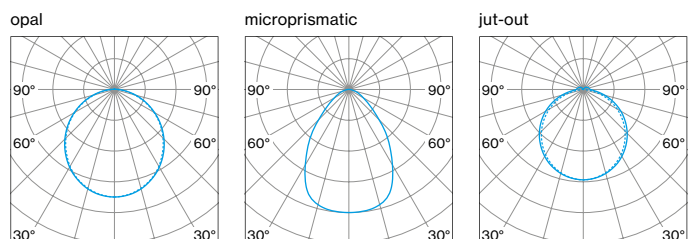


SYSTEM POWER	L (mm)	ORDER CODE
11W	612*	0 5 1 - 8 1 1 2 : 3 7 
19W	1220	0 5 1 - 8 2 1 4 : 3 7 
29W	1828	0 5 1 - 8 2 1 6 : 3 7 
39W	2436	0 5 1 - 8 2 1 8 : 3 7 

*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	18 W/m	1880 lm/m	104 lm/W
performance	4000K		2000 lm/m	111 lm/W
microprismatic	3000K	18 W/m	1780 lm/m	99 lm/W
UGR < 19	4000K		1890 lm/m	105 lm/W
jut-out	3000K	18 W/m	1800 lm/m	100 lm/W
	4000K		1910 lm/m	106 lm/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 220-240 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



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

L80/50 000 h

OPTICAL

direct light 100 %

HPO PMMA cover opal

microprismatic (UGR < 19)

jut-out PMMA cover

ELECTRICAL

DIM DALI

PHYSICAL

aluminium

powder-coated

halogen-free cable (internal wiring)

Description

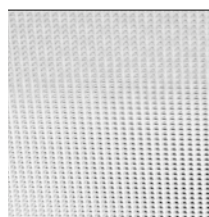
EN Low profile suspended luminaire, 28 mm total height; luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; surface powder coated in white, grey or black; fall-safe light insert made of extruded aluminium profile, can be inserted in 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 (flush or jut-out) 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 50 000 hours; protection class IP 20; PC I; DALI dimmable

DE Extrem flache Pendelleuchte mit 28 mm Gesamthöhe; Leuchte mit 1500 mm Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; inkl. transparenter Einspeiseleitung; 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 (bündig oder herausragend) 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 50 000 h Lebensdauer; Schutzart IP 20; SK I; DALI-dimmbar

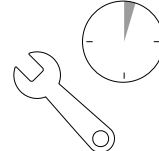
Features



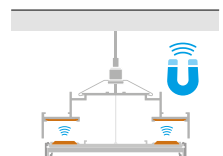
flat design (28 mm)



microprismatic (UGR < 19)



quick installation



magnetic holders for tool-free mounting

Standard configuration

COLOUR TEMPERATURE ■ ■
3000K 5

CONTROL
DIM DALI

MATERIAL COLOUR ■
white 7

7

LIGHT OPTIC COVER ■
opal high performance H

Extended configuration

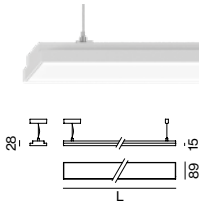
COLOUR TEMPERATURE ■ ■
4000K 6

MATERIAL COLOUR ■
grey G
black 8

G 8

+5% surcharges

LIGHT OPTIC COVER ■
microprismatic (UGR < 19) G
jut-out J



LENO suspended

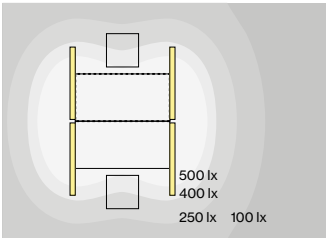
INSET + CHANNEL SUSPENDED



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11W	3000K	1150lm	618	0 5 1 - 9 2 1 2 ■ ■ ■ ■
	4000K	1220lm		
19W	3000K	2300lm	1226	0 5 1 - 9 2 1 4 ■ ■ ■ ■
	4000K	2440lm		
29W	3000K	3450lm	1835	0 5 1 - 9 2 1 6 ■ ■ ■ ■
	4000K	3670lm		
39W	3000K	4600lm	2443	0 5 1 - 9 2 1 8 ■ ■ ■ ■
	4000K	4890lm		

luminous flux opal high performance, -5% microprismatic, -5% jut-out

Technical data



LENO suspended, microprismatic, 19 W, 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

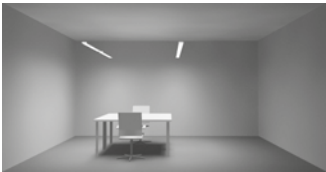
CALCULATION SURFACE

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

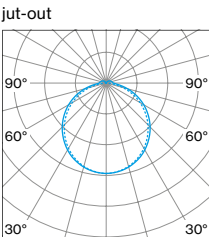
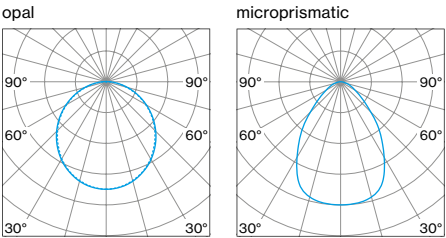
GLARE EVALUATION

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

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



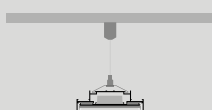
LIGHT DISTRIBUTION



LENO

suspended system

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

L80/50 000 h

OPTICAL

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

ELECTRICAL

DIM DALI
through wire included

PHYSICAL

aluminium
powder-coated
613–2438 mm
halogen-free cable (internal wiring)

Description

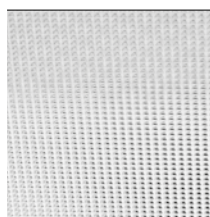
EN Low profile suspended luminaire, 28 mm total height; luminaire with 1500 mm cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; designed for continuous lighting systems; surface powder coated in white, grey or black; fall-safe light insert made of extruded 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 (flush or jut-out) 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 50 000 hours; protection class IP 20; PC I; DALI dimmable

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 (bündig oder herausragend) 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 50 000 h Lebensdauer; Schutzart IP 20; SK I; DALI-dimmbar

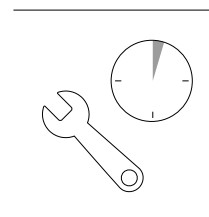
Features



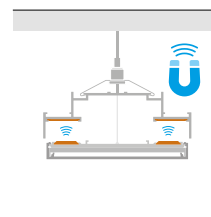
flat design (28 mm)



microprismatic (UGR < 19)



quick installation



magnetic holders for tool-free mounting

Standard configuration

COLOUR TEMPERATURE 
3000K 5

CONTROL
DIM DALI

MATERIAL COLOUR 
white 7

LIGHT OPTIC COVER 
opal high performance H

Extended configuration

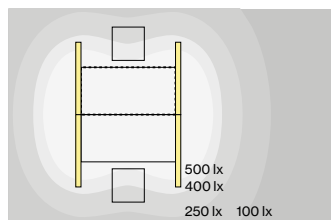
COLOUR TEMPERATURE 
4000K 6

MATERIAL COLOUR 
grey G
black 8

+5% surcharges

LIGHT OPTIC COVER 
microprismatic (UGR < 19) G
jut-out J

Technical data



LENO suspended, microprismatic,
19 W, 4000K

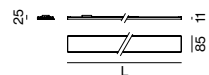
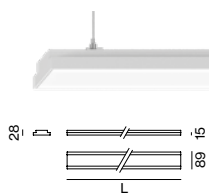
ROOM VALUES
Room dimensions 5.4 × 4 × 2.8 m
Reflection factor 0.7 | 0.5 | 0.2
Maintenance factor 0.8
Mounting height 2.25 m

CALCULATION SURFACE

Surface dimensions 1.6 × 0.8
Surface height 0.75
Average illuminance (E_m) > 500 lx
Uniformity (U_0) > 0.6

GLARE EVALUATION

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



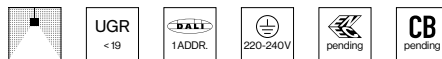
LENO suspended

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

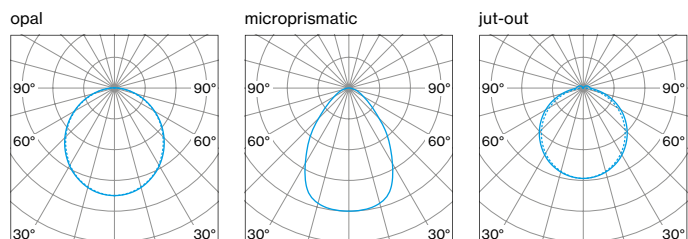


SYSTEM POWER	L (mm)	ORDER CODE
11W	612*	0 5 1 - 8 1 1 2 
19W	1220	0 5 1 - 8 2 1 4 
29W	1828	0 5 1 - 8 2 1 6 
39W	2436	0 5 1 - 8 2 1 8 

*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000K	18 W/m	1880 lm/m	104 lm/W
performance	4000K		2000 lm/m	111 lm/W
microprismatic	3000K	18 W/m	1780 lm/m	99 lm/W
UGR < 19	4000K		1890 lm/m	105 lm/W
jut-out	3000K	18 W/m	1800 lm/m	100 lm/W
	4000K		1910 lm/m	106 lm/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



MORE SERVICES

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EN Our online catalogues provide anytime access to our full product range, whether at your customers' offices or during project meetings. Order print catalogues at www.xal.com/catalogues. The online search function gives you quick and location-independent access to all of the product data you need. www.xal.com/products

DE Ob bei Ihren Kunden oder direkt in Projektbesprechungen – unsere Kataloge bieten Ihnen jederzeit Zugriff auf die umfassende Produktpalette. Bestellen Sie die Printausgaben auf www.xal.com/kataloge. Mit Hilfe der Online-Suchfunktion haben Sie die gewünschten Produktdaten schnell und ortsunabhängig zur Hand. www.xal.com/produkte



XAL SMART SERVICES

EN XAL is there for you even after your order is filled. We offer professional advice for installation and for grid analysis measurement. Reach the XAL SMART SERVICES team by phone Monday through Friday from 7:00 am to 8:00 pm at [+43.316.3170.9400](tel:+4331631709400) or any time at service@xal.com.

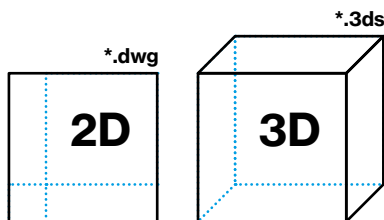
DE XAL ist auch nach erfolgter Bestellung für Sie da. Wir bieten Ihnen fachkompetente Beratung bei der Installation der Leuchten oder im Bereich der Netzanalyse-Messung. „Get in touch“ mit dem XAL SMART SERVICES Team: Montag bis Freitag telefonisch von 7:00 bis 20:00 Uhr unter [+43.316.3170.9400](tel:+4331631709400) oder jederzeit via service@xal.com.



Autodesk Revit

EN This comprehensive software solution provides efficient support for all Building Information Modeling (BIM) stages of a construction project, from planning to construction. Team members can work on the same project simultaneously, model data is generated with high accuracy, and changes are updated automatically throughout the model.

DE Die umfassende Softwarelösung bietet effiziente Unterstützung für alle BIM-Arbeitsphasen des Bauprojekts, von der Planung bis zur Bauausführung. Teammitglieder können gleichzeitig am selben Projekt arbeiten, die Modelldaten werden mit einer hohen Genauigkeit erstellt und Änderungen werden automatisch im gesamten Modell aktualisiert.



2D / 3D / photometric

EN To make planning your lighting project even easier, we make 2D and 3D data for our products available for use with your CAD programs. Downloads are available at www.xal.com/services.

DE Um Ihre Lichtplanung noch einfacher zu machen, finden Sie die 2D- und 3D-Daten unserer Produkte zur Verwendung in Ihren CAD-Programmen auf www.xal.com/services zum Download.

RELUX & DIALux

EN We offer photometric data in LDT and IES format for use in RELUX and DIALux lighting programs. Downloads are available at www.xal.com/relux_dialux.

DE Wir bieten Ihnen die photometrischen Daten aller XAL-Produkte für die Verwendung in den Lichtplanungsprogrammen RELUX oder DIALux im LDT- bzw. IES-Format als Download auf www.xal.com/relux_dialux.



Showrooms

EN Experience our luminaires up close. Let yourself be inspired, take advantage of the expert advice of our staff, and find the right solution that meets all of your needs. Whether in Vienna, New York, Amsterdam, Paris, Berlin, Zurich, London, or Graz, or by visiting one of our many partners located worldwide.

DE Erleben Sie unsere Leuchten hautnah. Lassen Sie sich inspirieren, nutzen Sie die Beratungs- kompetenz unserer Mitarbeiter und finden Sie genau die Lichtlösung, die all Ihren Ansprüchen gerecht wird. Egal ob in Wien, New York, Amsterdam, Paris, Berlin, Zürich, London, Graz oder bei zahlreichen Partnern weltweit.

ISO certification

EN XAL luminaires are manufactured to meet the highest standards. State-of-the-art production and testing processes as well as sustainable technologies ensure a long product life. Our product locations in Austria and Slovenia have been certified in accordance with the [ISO 9001 quality standard](#) and the [ISO 14001 environmental standard](#) since 2016.

DE XAL-Leuchten werden gefertigt, um höchste Ansprüche zu erfüllen. Modernste Produktions- und Testprozesse sowie nachhaltige Technologien garantieren eine lange Produktlebensdauer. Seit 2016 sind unsere Produktionsstandorte in Österreich und Slowenien nach dem [Qualitätsstandard ISO 9001](#) und nach dem [Umweltstandard ISO 14001](#) zertifiziert.



Light-Magazine

EN Would you like to learn more about our innovative lighting solutions and our company? Our XAL Light customer magazine showcases our most beautiful projects and includes valuable tips and information about international trends in lighting, architecture and interior design. Dive into the XAL design world.

DE Möchten Sie mehr über unsere innovativen Lichtlösungen und das Unternehmen erfahren? Im Kundenmagazin XAL Light finden Sie unsere schönsten Projekte, ergänzt durch wertvolle Tipps und internationale Trends zu Licht, Architektur und Interieur. Tauchen Sie ein in die Designwelt von XAL.



TECHNICAL INFORMATION

Notes on technical information

LUMINOUS FLUX

EN The information in this catalogue refers to the typical luminous flux at the specified temperature of the LEDs and under the specified electrical conditions.

DE Die Angaben zum Lichtstrom in diesem Katalog betreffen den typischen Leuchtenlichtstrom bei der angegebenen Temperatur der LEDs und unter den angegebenen elektrischen Bedingungen.

POWER CONSUMPTION

EN Information in this catalogue regarding the power consumption of the LEDs includes the power consumption of the driver electronics and the controller.

DE Die Angaben zu Leistungsaufnahmen der LEDs beinhalten die Leistungsaufnahme der Treiberelektronik und des Betriebsgeräts.

DIMMING

EN Minimal differences in light density can occur at the light-emitting surface in the 0–10 % dimming range.

DE Es kann zu geringfügigen Leuchtdichteunterschieden an der Lichtaustrittsfläche im Dimmbereich zwischen 0–10 % kommen.

BINNING

EN At the time of delivery, the colour location of an LED is within a three-step MacAdam ellipse around the specified colour location.

DE Zum Zeitpunkt der Auslieferung befindet sich der Farbort einer LED innerhalb einer 3-Step-MacAdam-Ellipse um den angegebenen Farbort.

LIFESPAN

EN Information about lifespan is based on an ambient temperature of 25 °C.

DE Angaben zur Lebensdauer beziehen sich auf eine Umgebungstemperatur von 25 °C.

MATERIAL COLOUR

7 white
RAL 9010 | pure white

G grey
RAL 9006 | white aluminium

8 black
RAL 9005 | jet black

Additional RAL colours on request.

TECHNICAL DATA

EN For the current value of the luminous flux and electrical power, please use the product search on our website www.xal.com/en/products.

DE Den aktuellen Wert des Lichtstroms und der elektrischen Leistung entnehmen Sie bitte der Produktsuche auf unserer Website www.xal.com/produkte.

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PHOTOGRAPHY

Paul Ott, p. 20–21
Gerald Liebming, p. 22–23
Kim Forssén, p. 24–25
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Dominik München, p. 28–29

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