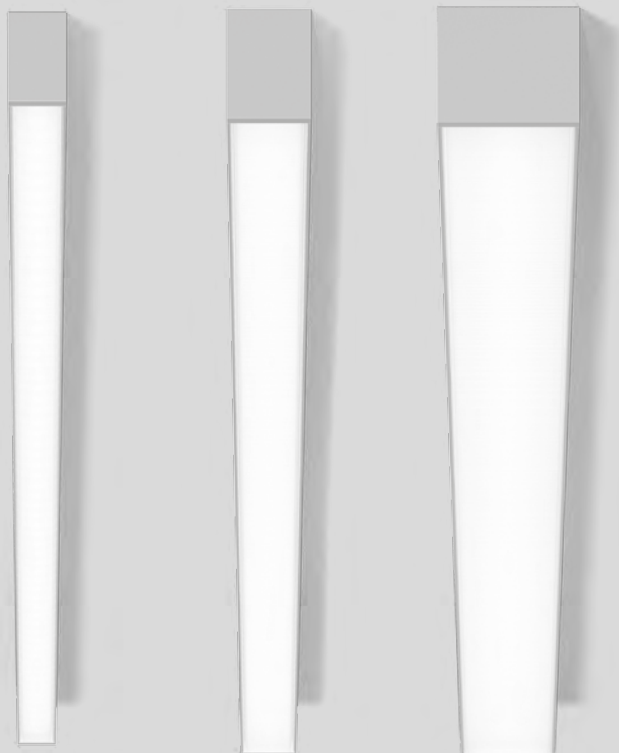


# MINO

## 40 / 60 / 100

### SURFACE

[xal.com/mino-surface](http://xal.com/mino-surface)



#### Quickinfo

##### GENERAL

surface mounted  
IP20

##### LED

Mid-power LED  
up to 116lm/W  
3000 K, 4000 K  
CRI > 80 (CRI > 90 on request)  
Binning < 3-Step MacAdam

##### ESTIMATED LED LIFETIME

L90 / 50.000h

##### OPTICAL

direct illumination  
PMMA cover opal  
microprismatic (UGR < 19)

##### ELECTRICAL

non DIM, DIM DALI

##### PHYSICAL

aluminium  
anodised  
powder-coated  
halogen-free cable

##### MINO 40 / 60 / 100 SYSTEM

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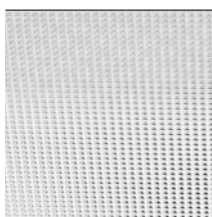


#### Description

**DE** Leuchtenkörper aus Aluminiumstrangpressprofil in 3 unterschiedlichen Breiten, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED 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 zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90% des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

**EN** Luminaire housing made of extruded aluminium profile in 3 different widths, angular design; no visible screws; surface white or black powder coated or natural anodised aluminium; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED 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 cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000K and 4000K; CRI > 80; min. 90% of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

#### Features



MINO 100 microprismatic (UGR < 19)

**Order options**

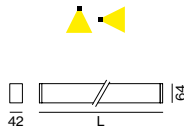
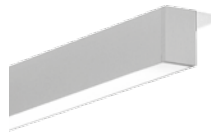
<b>COLOUR TEMPERATURE</b>	☐☐
3000K	5
4000K	6

<b>CONTROL</b>	⬆️⬆️
non DIM	1
DIM DALI	3

<b>MATERIAL COLOUR</b>	☑️
anodised aluminium	6
white	7
black	8



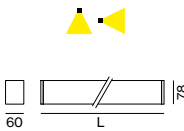
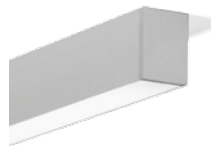
<b>LIGHT OPTIC COVER</b>	☑️
opal high performance	H
microprismatic	P



**MINO 40 SURFACE**



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e²	3000 K	1250 lm	588	0 5 6 - 9 1 3 2 : : ☐☐☐☐
	4000 K	1300 lm		
20 W e²	3000 K	1900 lm	888	0 5 6 - 9 1 3 3 : : ☐☐☐☐
	4000 K	2000 lm		
18 W e	3000 K	1700 lm	1188	0 5 6 - 9 1 2 4 : : 1 ☐☐☐☐
	4000 K	1800 lm		
27 W e²	3000 K	2500 lm	1188	0 5 6 - 9 1 3 4 : : ☐☐☐☐
	4000 K	2600 lm		
23 W e	3000 K	2100 lm	1488	0 5 6 - 9 1 2 5 : : 1 ☐☐☐☐
	4000 K	2200 lm		
34 W e²	3000 K	3100 lm	1488	0 5 6 - 9 1 3 5 : : ☐☐☐☐
	4000 K	3300 lm		
36 W e	3000 K	3400 lm	2360	0 5 6 - 9 1 2 8 : : 1 ☐☐☐☐
	4000 K	3600 lm		
54 W e²	3000 K	5000 lm	2360	0 5 6 - 9 1 3 8 : : ☐☐☐☐
	4000 K	5200 lm		

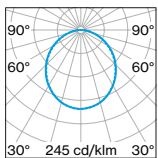


**MINO 60 SURFACE**

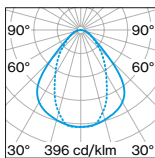


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e²	3000 K	1350 lm	588	0 5 6 - 3 1 3 2 : : ☐☐☐☐
	4000 K	1400 lm		
20 W e²	3000 K	2000 lm	888	0 5 6 - 3 1 3 3 : : ☐☐☐☐
	4000 K	2100 lm		
18 W e	3000 K	1800 lm	1188	0 5 6 - 3 1 2 4 : : 1 ☐☐☐☐
	4000 K	1900 lm		
27 W e²	3000 K	2700 lm	1188	0 5 6 - 3 1 3 4 : : ☐☐☐☐
	4000 K	2900 lm		
23 W e	3000 K	2300 lm	1488	0 5 6 - 3 1 2 5 : : 1 ☐☐☐☐
	4000 K	2400 lm		
34 W e²	3000 K	3400 lm	1488	0 5 6 - 3 1 3 5 : : ☐☐☐☐
	4000 K	3600 lm		
37 W e	3000 K	3700 lm	2360	0 5 6 - 3 1 2 8 : : 1 ☐☐☐☐
	4000 K	3900 lm		
54 W e²	3000 K	5500 lm	2360	0 5 6 - 3 1 3 8 : : ☐☐☐☐
	4000 K	5700 lm		

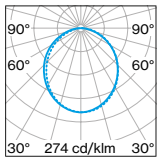
**Light distribution**



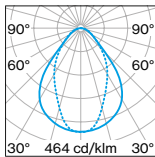
**40 opal**  
direct  
LOR 66%



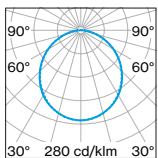
**40 microprism.**  
direct  
LOR 64%



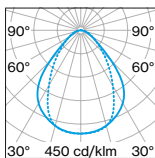
**60 opal**  
direct  
LOR 71%



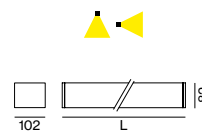
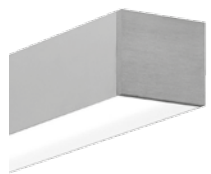
**60 microprism.**  
direct  
LOR 69%



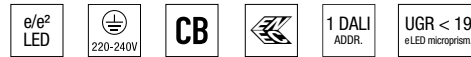
**100 opal**  
direct  
LOR 77%



**100 microprism.**  
direct  
LOR 77%



**MINO 100 SURFACE**



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
14 W e²	3000 K	1500 lm	588	0 5 6 - 4 1 3 2 : : ☐☐☐☐
	4000 K	1600 lm		
20 W e²	3000 K	2200 lm	888	0 5 6 - 4 1 3 3 : : ☐☐☐☐
	4000 K	2300 lm		
18 W e	3000 K	2000 lm	1188	0 5 6 - 4 1 2 4 : : 1 ☐☐☐☐
	4000 K	2100 lm		
27 W e²	3000 K	3000 lm	1188	0 5 6 - 4 1 3 4 : : ☐☐☐☐
	4000 K	3100 lm		
23 W e	3000 K	2500 lm	1488	0 5 6 - 4 1 2 5 : : 1 ☐☐☐☐
	4000 K	2600 lm		
34 W e²	3000 K	3700 lm	1488	0 5 6 - 4 1 3 5 : : ☐☐☐☐
	4000 K	3900 lm		
37 W e	3000 K	4000 lm	2360	0 5 6 - 4 1 2 8 : : 1 ☐☐☐☐
	4000 K	4200 lm		
54 W e²	3000 K	5900 lm	2360	0 5 6 - 4 1 3 8 : : ☐☐☐☐
	4000 K	6200 lm		

## Inspiration

Praxis am Bahnhof  
Bremgarten, Switzerland

**SOLUTION**  
MINO 60 SURFACE

**ARCHITECT**  
Outlog Architektur+Planung AG  
Lenzburg, Switzerland

**LIGHTING DESIGN**  
Outlog Architektur+Planung AG  
Lenzburg, Switzerland



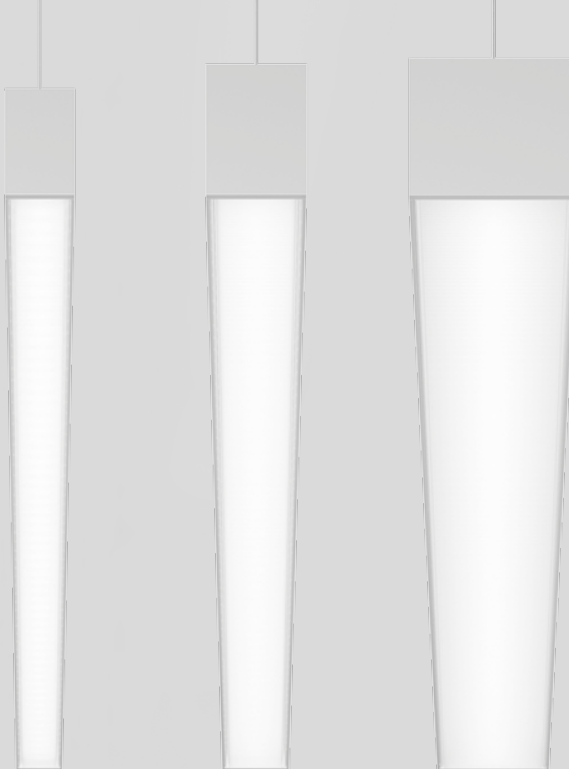


# MINO

## 40 / 60 / 100

### SUSPENDED

[xal.com/mino-suspended](http://xal.com/mino-suspended)



#### Quickinfo

##### GENERAL

suspended  
IP20

##### LED

Mid-power LED  
up to 116lm/W  
3000 K, 4000 K  
CRI > 80 (CRI > 90 on request)  
Binning < 3-Step MacAdam

##### ESTIMATED LED LIFETIME

L90 / 50.000h

##### OPTICAL

direct illumination  
PMMA cover opal  
microprismatic (UGR < 19)

##### ELECTRICAL

non DIM, DIM DALI  
transparent feeder cable

##### PHYSICAL

aluminium  
anodised  
powder-coated  
halogen-free cable

#### MINO 40 / 60 / 100 SYSTEM

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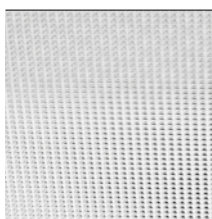


#### Description

**DE** Leuchtenkörper aus Aluminiumstrangpressprofil in 3 unterschiedlichen Breiten, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche weiß oder schwarz pulverbeschichtet bzw. Aluminium Natur eloxiert; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; LED Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; Pendelleuchte mit 2000 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 zur Reduktion der Leuchtdichte; energieeffiziente LEDs mit hoher Farbwiedergabe; Binning < 3-Step MacAdam; lieferbar in den Lichtfarben 3000 K und 4000 K; CRI > 80; min. 90 % des Lichtstromes nach 50.000 h Lebensdauer; Schutzart IP20; SK I; optional DALI-dimmbar

**EN** Luminaire housing made of extruded aluminium profile in 3 different widths, angular design; no visible screws; surface white or black powder coated or natural anodised aluminium; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; LED lighting insert consisting of highly reflective coated extruded profile for improved thermal management; Suspended luminaire with 2000 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; microprismatic PMMA cover for reducing luminance; energy-efficient LEDs with high colour rendering; binning <3 step MacAdam; available in the light colours 3000 K and 4000 K; CRI > 80; min. 90 % of the luminous flux after 50,000 hours; protection class IP20; PC I; optional DALI dimmable

#### Features



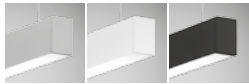
MINO 100 microprismatic (UGR < 19)

**Order options**

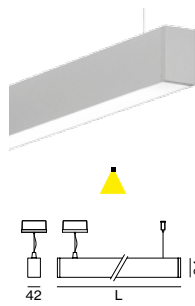
<b>COLOUR TEMPERATURE</b>	☐☐
3000K	5
4000K	6

<b>CONTROL</b>	⬆️⬆️
non DIM	1
DIM DALI	3

<b>MATERIAL COLOUR</b>	☑️
anodised aluminium	6
white	7
black	8



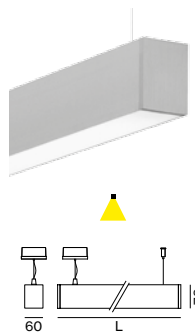
<b>LIGHT OPTIC COVER</b>	☑️
opal high performance	H
microprismatic	P



**MINO 40 SUSPENDED**



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20W e²	3000K	1900lm	888	0 5 6 - 9 2 3 3 :: ⬆️⬆️ ☑️ ☑️
	4000K	2000lm		
18W e	3000K	1700lm	1188	0 5 6 - 9 2 2 4 :: 1 ☑️ ☑️
	4000K	1800lm		
27W e²	3000K	2500lm	1188	0 5 6 - 9 2 3 4 :: ⬆️⬆️ ☑️ ☑️
	4000K	2600lm		
23W e	3000K	2100lm	1488	0 5 6 - 9 2 2 5 :: 1 ☑️ ☑️
	4000K	2200lm		
34W e²	3000K	3100lm	1488	0 5 6 - 9 2 3 5 :: ⬆️⬆️ ☑️ ☑️
	4000K	3300lm		
36W e	3000K	3400lm	2360	0 5 6 - 9 2 2 8 :: 1 ☑️ ☑️
	4000K	3600lm		
54W e²	3000K	5000lm	2360	0 5 6 - 9 2 3 8 :: ⬆️⬆️ ☑️ ☑️
	4000K	5200lm		

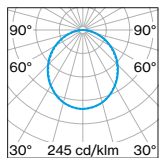


**MINO 60 SUSPENDED**

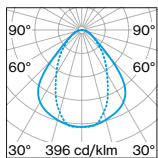


SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20W e²	3000K	2000lm	888	0 5 6 - 3 2 3 3 :: ⬆️⬆️ ☑️ ☑️
	4000K	2100lm		
18W e	3000K	1800lm	1188	0 5 6 - 3 2 2 4 :: 1 ☑️ ☑️
	4000K	1900lm		
27W e²	3000K	2700lm	1188	0 5 6 - 3 2 3 4 :: ⬆️⬆️ ☑️ ☑️
	4000K	2900lm		
23W e	3000K	2300lm	1488	0 5 6 - 3 2 2 5 :: 1 ☑️ ☑️
	4000K	2400lm		
34W e²	3000K	3400lm	1488	0 5 6 - 3 2 3 5 :: ⬆️⬆️ ☑️ ☑️
	4000K	3600lm		
37W e	3000K	3700lm	2360	0 5 6 - 3 2 2 8 :: 1 ☑️ ☑️
	4000K	3900lm		
54W e²	3000K	5500lm	2360	0 5 6 - 3 2 3 8 :: ⬆️⬆️ ☑️ ☑️
	4000K	5700lm		

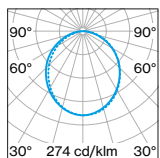
**Light distribution**



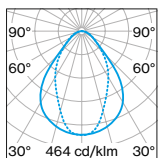
**40 opal**  
direct  
LOR 66%



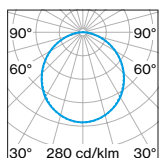
**40 microprism.**  
direct  
LOR 64%



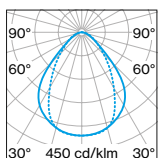
**60 opal**  
direct  
LOR 71%



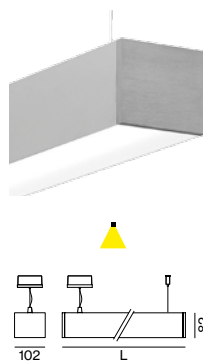
**60 microprism.**  
direct  
LOR 69%



**100 opal**  
direct  
LOR 77%



**100 microprism.**  
direct  
LOR 77%



**MINO 100 SUSPENDED**



SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20W e²	3000K	2200lm	888	0 5 6 - 4 2 3 3 :: ⬆️⬆️ ☑️ ☑️
	4000K	2300lm		
18W e	3000K	2000lm	1188	0 5 6 - 4 2 2 4 :: 1 ☑️ ☑️
	4000K	2100lm		
27W e²	3000K	3000lm	1188	0 5 6 - 4 2 3 4 :: ⬆️⬆️ ☑️ ☑️
	4000K	3100lm		
23W e	3000K	2500lm	1488	0 5 6 - 4 2 2 5 :: 1 ☑️ ☑️
	4000K	2600lm		
34W e²	3000K	3700lm	1488	0 5 6 - 4 2 3 5 :: ⬆️⬆️ ☑️ ☑️
	4000K	3900lm		
37W e	3000K	4000lm	2360	0 5 6 - 4 2 2 8 :: 1 ☑️ ☑️
	4000K	4200lm		
54W e²	3000K	5900lm	2360	0 5 6 - 4 2 3 8 :: ⬆️⬆️ ☑️ ☑️
	4000K	6200lm		

## Inspiration

Office Los Campos  
Gijón, Spain

### ARCHITECT

Ballina y Canal Arquitectos  
Gijón, Spain

### LIGHTING DESIGN

Lux Gijón  
Gijón, Spain

### SOLUTION

MINO 60 SUSPENDED



