

# MINO 60 high lumen

ceiling / suspended system

007-93M8617 006-16232H 046-400801G



Project / Type

Notes

Count / Date



Luminaire housing made of extruded aluminium profile; angular design; for continuous lighting systems; light tight final end caps made of aluminium (available as an accessory); no visible screws; surface grey powder coated; for ceiling surface mounting or suspended mounting (1500 mm cable suspension as an accessory); with integrated toolless suspension height adjustment on the luminaire; spring clip attachment to the luminaire; freely positionable; luminaire profile for mounting available in advance; remaining lamp components mounted without tools; LED light inset consisting of highly reflective lacquered aluminium for improved thermal management; light colour 4000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 80$ ; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; HPO (High Performance Opal) cover for uniform illumination; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. converter, non dimmable; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



### General

Ceiling , Suspended

grey , RAL 9006 <sup>1</sup>

IP20

6290 lm

2680 lm/m

### LED

4000 K

CRI  $\geq 80$

L90 / 50000 h

initial MacAdam  $\leq 3$  SDCM

MR 0.72

MDER 0.65

### Optical

High Performance Opal

opal (lambertsch)

### Electrical

non DIM

220-240 V

system 45 W

system 140 lm/W<sup>2</sup>

PC1

19 W/m

### Physical

trim

length 2344 mm

width 60 mm

height 80 mm

5.5 kg

<sup>1</sup> RAL code  
<sup>2</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

## Installation instructions



## Lighting calculator



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## Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.96	0.94	0.92	0.9
LSF	1	1	1	1	1
MF	LMF × RSMF × LLMF × LSF		RSMF <sup>a</sup>	Room Surface Maintenance Factor	
MF	Maintenance Factor		LLMF	Lamp Lumens Maintenance Factor	
LMF <sup>a</sup>	Luminaire Maintenance Factor		LSF	Lamp Survival Factor	

<sup>a</sup> According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

## Circuit Breaker Types

Automatic Circuit Breaker Type	Number of Fixtures
B10	15
B13	19
B16	24
B20	30
C10	25
C13	32
C16	40
C20	49

## Components

### LIGHT OPTIC COVER

TYPE	ARTICLE NUMBER(S)
opal high performance	006-16232H

### INSTALLATION CHANNEL

COLOUR	L-W-H (MM)	ARTICLE NUMBER(S)
white aluminium	2344-60-80	046-400801G

## Mounting accessories

### END CAPS

TYPE	COLOUR	L-W-H (MM)	ARTICLE NUMBER(S)
1 pair	traffic white	60-40-4	046-5010017
1 pair	jet black	60-40-4	046-5010018
1 pair	white aluminium	60-40-4	046-501001G
1 pair	special colours	60-40-4	046-501001X

## Mounting accessories

### LINEAR CONNECTOR

TYPE	ARTICLE NUMBER(S)
1 piece	005-40046
10 pieces	005-40046.10

### OPAL COVER LINEAR CONNECTOR

ARTICLE NUMBER(S)
006-14000



[007-93M8617 006-16232H 046-400801G] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.  
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## Mounting accessories

### CEILING CLIP

COLOUR	ARTICLE NUMBER(S)
transparent	034-11636



## Mounting accessories

### CABLE SUSPENSION

ARTICLE NUMBER(S)
005-2122110



### CABLE RAIL

Ø (MM)	ARTICLE NUMBER(S)
1200	005-2491110



## Electrical accessories

### THROUGH WIRE

TYPE	ARTICLE NUMBER(S)
3 x 1,5 mm <sup>2</sup>   10 pieces	004-90003
5 x 1,5 mm <sup>2</sup>   10 pieces	004-90005



## Electrical accessories

### CANOPY / FEEDER CABLE

TYPE	COLOUR	L-W-H (MM)	ARTICLE NUMBER(S)
3 x 1,5 mm <sup>2</sup>	traffic white	90-90-22	005-2212317
3 x 1,5 mm <sup>2</sup>	jet black	90-90-22	005-2212318
5 x 1,5 mm <sup>2</sup>	pure white	90-90-22	005-2212417
5 x 1,5 mm <sup>2</sup>	jet black	90-90-22	005-2212418

