MINO 60 mid lumen

ceiling / suspended system

007-93L8517 006-16232G 046-4008018

General

Ceiling , Suspended
black , RAL 9005 [1]
IP20
2860 lm
1220 lm/m

LED

3000 K
CRI ≥ 80
L90 / 50000 h
initial MacAdam ≤ 3 SDCM
MR 0.56
MDER 0.51

Optical

Microprismatic
microprismatic
UGR ≤ 19 , ≥65° <3000 cd/m²

Electrical

non DIM
220-240 V
system 26.6 W
system 108 lm/W[2]
PC1
11 W/m

Physical

trim
length 2344 mm
width 60 mm
height 80 mm
6 kg

[1] RAL code
[2] incl. consideration of optical losses, internal control unit losses & operating device efficiency
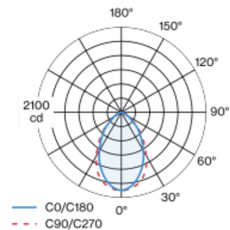
Luminaire housing made of extruded aluminium profile; angular design; for continuous lighting systems; light tight final end caps made of aluminium (available as an accessory); no visible screws; surface black powder coated; for ceiling surface mounting or suspended mounting (1500 mm cable suspension 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 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; UGR ≤ 19; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 3000 cd/m²; 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

— C0/C180
--- C90/C270

Product drawing

Installation instructions

Lighting calculator

['007-93L8517 006-16232G 046-4008018'] 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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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[a]	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF[a]	Luminaire Maintenance Factor	LSF	Lamp Survival Faktor

[a] 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)
microprismatic (UGR<19)*	006-16232G

INSTALLATION CHANNEL

COLOUR	L·W·H (MM)	ARTICLE NUMBER(S)
jet black	2344·60·80	046-4008018

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

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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 mm²	10 pieces	004-90003
5 x 1,5 mm²	10 pieces	004-90005

Electrical accessories

CANOPY / FEEDER CABLE

TYPE	COLOUR	L·W·H (MM)	ARTICLE NUMBER(S)
3 x 1,5 mm²	traffic white	90·90·22	005-2212317
3 x 1,5 mm²	jet black	90·90·22	005-2212318
5 x 1,5 mm²	pure white	90·90·22	005-2212417
5 x 1,5 mm²	jet black	90·90·22	005-2212418