

MINO 60 direct / indirect high lumen ceiling /

suspended system

046-502551GZ



Project / Type _____

Notes _____

Count / Date _____



General

Ceiling , Suspended _____
 grey , RAL9006 ¹ _____
 3500 lm/m _____
 IP20 _____
 indirect 2110 lm _____
 direct 3000 lm _____
 total 5110 lm _____

LED

3000 K _____
 CRI ≥ 80 _____
 L90 / 50000 h _____
 photobio. safety RG 0 - no Risk _____
 initial MacAdam ≤ 3 SDCM _____
 MR 0.56 _____
 MDER 0.51 _____

Optical

Microprismatic _____
 UGR < 19 _____
 PstLM ≤ 1.0 ² _____

Electrical

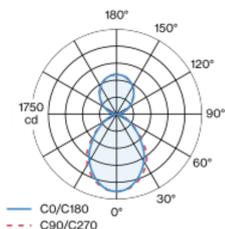
non DIM _____
 44 W _____
 PC1 220-240V _____
 116 lm/W _____
 30 W/m _____

Physical

trim _____
 length 1464 mm _____
 width 60 mm _____
 height 80 mm _____
 5.8 kg _____

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 suspended mounting (1500 mm cable suspension as an accessory); with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; 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; direct/indirect illumination characteristic; indirect light component with integrated PC boards for maximum, homogeneous ceiling illumination; degree of protection IP20; PC1 220-240V; photobiological safety according to IEC 62471 risk group RG 0 - no Risk; 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



¹ RAL code ² Value of containing product at full load (undimmed)

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 ^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

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

Mounting accessories

CABLE SUSPENSION

ARTICLE NUMBER(S)
005-2122110



CABLE RAIL

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



[046-502551GZ] 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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Electrical accessories

THROUGH WIRE

TYPE

3 x 1,5 mm² | 10 pieces

5 x 1,5 mm² | 10 pieces

ARTICLE NUMBER(S)

004-90003

004-90005



Electrical accessories

CANOPY / FEEDER CABLE

TYPE

3 x 1,5 mm²

3 x 1,5 mm²

5 x 1,5 mm²

5 x 1,5 mm²

COLOUR

traffic white

jet black

pure white

jet black

ARTICLE NUMBER(S)

005-2212317

005-2212318

005-2212417

005-2212418

