

MINO 60 direct / indirect high lumen ceiling /

suspended system

046-502563XH



Project / Type _____

Notes _____

Count / Date _____



General

Ceiling , Suspended _____
 special colours _____
 IP20 _____
 indirect 2400 lm _____
 direct 3930 lm _____
 total 6330 lm _____
 4330 lm/m _____

LED

4000 K _____
 CRI ≥ 80 _____
 L90 / 50000 h _____
 initial MacAdam ≤ 3 SDCM _____
 MR 0.72 _____
 MDER 0.65 _____

Optical

High Performance Opal _____
 opal (lambertsch) _____
 PstLM ≤ 1.0 ¹ _____
 SVM ≤ 0.4 ¹ _____

Electrical

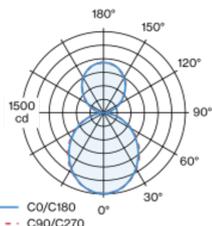
DALI-2 _____
 220-240 V _____
 system 43 W _____
 system 147 lm/W² _____
 PC1 _____
 1 DALI Addr. _____
 29 W/m _____

Physical

length 1464 mm _____
 width 60 mm _____
 height 80 mm _____
 3.8 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 special colours powder coated; for 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; LED light inset consisting of highly reflective lacquered aluminium for improved thermal management; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; HPO (High Performance Opal) cover for uniform illumination; direct/indirect illumination characteristic; indirect light component with integrated PC boards for maximum, homogeneous ceiling illumination; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. DALI-2 converter; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



Product drawing



¹ Value of containing product at full load (undimmed)
² FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: 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 ^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	7
B13	10
B16	12
B20	14
C10	10
C13	20
C16	24
C20	28

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



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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

L-W-H (MM)

90-90-22

90-90-22

90-90-22

90-90-22

ARTICLE NUMBER(S)

005-2212317

005-2212318

005-2212417

005-2212418

