

# MINO 60 direct / indirect high lumen ceiling /

suspended system  
046-502863XH



Project / Type

Notes

Count / Date



General

Ceiling , Suspended

special colours

4690 lm/m

IP20

indirect 5960 lm

direct 5040 lm

total 11000 lm

LED

4000 K

CRI ≥ 80

L90 / 50000 h

photobio. safety RG 0 - no Risk

initial MacAdam ≤ 3 SDCM

MR 0.72

MDER 0.65

Optical

High Performance Opal

PstLM ≤ 1.0 <sup>1</sup>

SVM ≤ 0.4 <sup>1</sup>

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 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 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 220-240V; photobiological safety according to IEC 62471 risk group RG 0 - no Risk; 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;

Electrical

DALI-2

74 W

PC1 220-240V

149 lm/W

1 DALI Addr.

31 W/m

Physical

trim

length 2344 mm

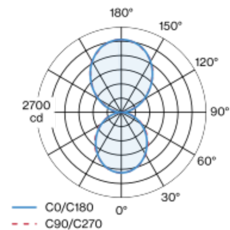
width 60 mm

height 80 mm

5.5 kg

<sup>1</sup> Value of containing product at full load (undimmed)

Light distribution



Product drawing



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 Faktor            |        |

<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                            | 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                                | 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        | ARTICLE NUMBER(S) |
|-------------------------|---------------|-------------------|
| 3 x 1,5 mm <sup>2</sup> | traffic white | 005-2212317       |
| 3 x 1,5 mm <sup>2</sup> | jet black     | 005-2212318       |
| 5 x 1,5 mm <sup>2</sup> | pure white    | 005-2212417       |
| 5 x 1,5 mm <sup>2</sup> | jet black     | 005-2212418       |

