

MINO 60 mid lumen

ceiling / suspended system

007-93L3517 006-16092H 046-4003017



| | |
|----------------|--|
| Project / Type | |
| Notes | |
| Count / Date | |



General

| |
|-------------------------------|
| Ceiling , Suspended |
| white , RAL 9010 ¹ |
| IP20 |
| 1230 lm |
| 1410 lm/m |

LED

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

Optical

| |
|--------------------------|
| High Performance Opal |
| opal (lambertsch) |
| PstLM ≤ 1.0 ² |
| SVM ≤ 0.4 ² |

Electrical

| |
|------------------------------|
| non DIM |
| 220-240 V |
| system 10.3 W |
| system 119 lm/W ³ |
| PC1 |
| 12 W/m |

Physical

| |
|---------------|
| trim |
| length 872 mm |
| width 60 mm |
| height 80 mm |
| 2.13 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 white 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; 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



¹ RAL code ² Value of containing product at full load (undimmed)
³ 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 Factor |

^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 | 9 |
| B13 | 13 |
| B16 | 15 |
| B20 | 18 |
| C10 | 18 |
| C13 | 26 |
| C16 | 30 |
| C20 | 36 |

Components

LIGHT OPTIC COVER

| | |
|-----------------------|-------------------|
| TYPE | ARTICLE NUMBER(S) |
| opal high performance | 006-16092H |

INSTALLATION CHANNEL

| | | |
|------------|------------|-------------------|
| COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
| pure white | 872-60-80 | 046-4003017 |

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 |

