

MINO 60 mid lumen

ceiling / suspended system

007-93L8017 006-16232H 046-400801X



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



General

| | |
|---------------------|--|
| Ceiling , Suspended | |
| special colours | |
| 1210 lm/m | |
| IP20 | |
| 2840 lm | |

LED

| | |
|--|--|
| 3000 K | |
| CRI ≥ 90 | |
| L90 / 50000 h | |
| photobio. safety RG 0 - no Risk | |
| initial MacAdam ≤ 3 SDCM | |
| R _g : 99 , R _f : 91 , R ₍₁₋₁₅₎ : 89 | |
| MR 0.61 | |
| MDER 0.55 | |

Optical

| | |
|--------------------------|--|
| High Performance Opal | |
| PstLM ≤ 1.0 ¹ | |

Electrical

| | |
|--------------|--|
| non DIM | |
| 26.6 W | |
| PC1 220-240V | |
| 107 lm/W | |
| 11 W/m | |

Physical

| | |
|----------------|--|
| trim | |
| length 2344 mm | |
| width 60 mm | |
| height 80 mm | |
| 5.5 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 ceiling surface mounting or suspended mounting (1500 mm cable suspension as an accessory); with integrated tool-less suspension height adjustment; 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 ≥ 90; 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 220-240V; 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 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

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 |



[007-93L8017 006-16232H 046-400801X] The technical data represent rated values for an ambient temperature of 25°C. 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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22.07.2024

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THROUGH WIRE

| TYPE | ARTICLE NUMBER(S) |
|-------------------------------------|-------------------|
| 3 x 1,5 mm ² 10 pieces | 004-90003 |
| 5 x 1,5 mm ² 10 pieces | 004-90005 |



Electrical accessories

CANOPY / FEEDER CABLE

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

