

# MINO 60 mid lumen

ceiling / suspended system

007-93L9517 006-16302G 046-400901G



Project / Type

Notes

Count / Date



### General

Ceiling | Suspended

grey | RAL 9006 <sup>1</sup>

IP20

3690 lm

1230 lm/m

### LED

3000 K

CRI ≥ 80

L90 / 50000 h

initial MacAdam ≤ 3 SDCM

MR 0.56 | MDER 0.51

### Optical

Microprismatic | microprismatic

UGR ≤ 19 | ≥65° <3000 cd/m²

### Electrical

non DIM

PC1 | 220-240 V

system 33 W

system 112 lm/W <sup>2</sup>

11 W/m

### Physical

trim

length 3000 mm | width 60 mm | height 80 mm

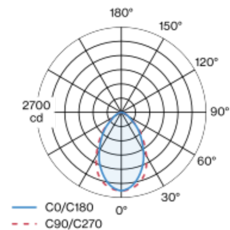
7.4 kg

<sup>1</sup> RAL code

<sup>2</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

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 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; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; UGR ≤ 19; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 3000 cd/m²; 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



### 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 Factor                          |        |        |

<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                            | 15                 |
| B13                            | 19                 |
| B16                            | 24                 |
| B20                            | 30                 |
| C10                            | 25                 |
| C13                            | 32                 |
| C16                            | 40                 |
| C20                            | 49                 |

## Components

### LIGHT OPTIC COVER

|                          |                   |
|--------------------------|-------------------|
| TYPE                     | ARTICLE NUMBER(S) |
| microprismatic (UGR<19)* | 006-16302G        |

### INSTALLATION CHANNEL

|                 |            |                   |
|-----------------|------------|-------------------|
| COLOUR          | L-W-H (MM) | ARTICLE NUMBER(S) |
| white aluminium | 3000-60-80 | 046-400901G       |

## 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 surface

| 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) |
|-----------|-------------------|
| 10 pieces | 004-90003         |
| 10 pieces | 004-90005         |



## Electrical accessories

### CANOPY / FEEDER CABLE

| COLOUR        | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------------|------------|-------------------|
| traffic white | 90-90-22   | 005-2212317       |
| jet black     | 90-90-22   | 005-2212318       |
| pure white    | 90-90-22   | 005-2212417       |
| jet black     | 90-90-22   | 005-2212418       |

