

# MINO 60 high lumen

ceiling / suspended system

007-93M3137 006-16092G 046-400301G



Project / Type \_\_\_\_\_

Notes \_\_\_\_\_

Count / Date \_\_\_\_\_



## General

Ceiling , Suspended \_\_\_\_\_

grey , RAL 9006 <sup>1</sup> \_\_\_\_\_

IP20 \_\_\_\_\_

1680 lm \_\_\_\_\_

1930 lm/m \_\_\_\_\_

## LED

4000 K \_\_\_\_\_

CRI  $\geq$  90 \_\_\_\_\_

L90 / 50000 h \_\_\_\_\_

initial MacAdam  $\leq$  3 SDCM \_\_\_\_\_

R<sub>g</sub>: 99 , R<sub>r</sub>: 92 , R<sub>t(1-15)</sub>: 90 \_\_\_\_\_

MR 0.81 \_\_\_\_\_

MDER 0.74 \_\_\_\_\_

## Optical

Microprismatic \_\_\_\_\_

microprismatic \_\_\_\_\_

PstLM  $\leq$  1.0 <sup>2</sup> \_\_\_\_\_

SVM  $\leq$  0.4 <sup>2</sup> \_\_\_\_\_

## Electrical

DALI-2 \_\_\_\_\_

220-240 V \_\_\_\_\_

system 17.5 W \_\_\_\_\_

system 96 lm/W<sup>3</sup> \_\_\_\_\_

PC1 \_\_\_\_\_

1 DALI Addr. \_\_\_\_\_

20 W/m \_\_\_\_\_

## Physical

trim \_\_\_\_\_

length 872 mm \_\_\_\_\_

width 60 mm \_\_\_\_\_

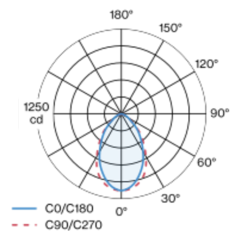
height 80 mm \_\_\_\_\_

2.29 kg \_\_\_\_\_

<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</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 4000 K; binning initial MacAdam  $\leq$  3 SDCM; CRI  $\geq$  90; 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; 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



## 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                            | 18                 |
| B13                            | 23                 |
| B16                            | 28                 |
| B20                            | 35                 |
| C10                            | 30                 |
| C13                            | 38                 |
| C16                            | 46                 |
| C20                            | 58                 |

## Components

### LIGHT OPTIC COVER

|                          |                   |
|--------------------------|-------------------|
| TYPE                     | ARTICLE NUMBER(S) |
| microprismatic (UGR<19)* | 006-16092G        |

### INSTALLATION CHANNEL

|                 |            |                   |
|-----------------|------------|-------------------|
| COLOUR          | L-W-H (MM) | ARTICLE NUMBER(S) |
| white aluminium | 872-60-80  | 046-400301G       |

## 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       |

