

# MINO 60 mid lumen

ceiling / suspended system

007-93L8517 006-16232G 046-400801G

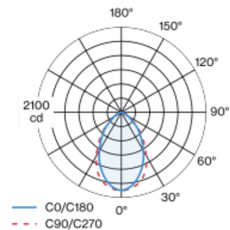


|                |  |
|----------------|--|
| Project / Type |  |
| Notes          |  |
| Count / Date   |  |



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  $\leq 3$  SDCM; CRI  $\geq 80$ ; 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  $\leq 19$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 3000$  cd/m<sup>2</sup>; 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



### General

|                             |
|-----------------------------|
| Ceiling , Suspended         |
| grey , RAL9006 <sup>1</sup> |
| IP20                        |
| 2860 lm                     |
| 1220 lm/m                   |

### LED

|                               |
|-------------------------------|
| 3000 K                        |
| CRI $\geq 80$                 |
| L90 / 50000 h                 |
| initial MacAdam $\leq 3$ SDCM |
| MR 0.56                       |
| MDER 0.51                     |

### Optical

|   |
|---|
| Microprismatic  |
| microprismatic  |
| UGR $< 19$ , $\geq 65^\circ < 3000$ cd/m <sup>2</sup> |

### Electrical

|                              |
|------------------------------|
| non DIM                      |
| 220-240 V                    |
| system 26.6 W                |
| PC1                          |
| system 108 lm/W <sup>2</sup> |
| 11 W/m                       |

### Physical

|                |
|----------------|
| trim           |
| length 2344 mm |
| width 60 mm    |
| height 80 mm   |
| 6 kg           |

<sup>1</sup> RAL code  
<sup>2</sup> incl. optical losses and the efficiency of the operating device (converter)

## 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                            | 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)* | 006-16232G        |

### INSTALLATION CHANNEL

| TYPE    | COLOUR          | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|------------|-------------------|
| 2344 mm | white aluminium | 2344-60-80 | 046-400801G       |



## 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 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        | L-W-H (MM) | ARTICLE NUMBER(S) |
|-------------------------|---------------|------------|-------------------|
| 3 x 1,5 mm <sup>2</sup> | traffic white | 90-90-22   | 005-2212317       |
| 3 x 1,5 mm <sup>2</sup> | jet black     | 90-90-22   | 005-2212318       |
| 5 x 1,5 mm <sup>2</sup> | pure white    | 90-90-22   | 005-2212417       |
| 5 x 1,5 mm <sup>2</sup> | jet black     | 90-90-22   | 005-2212418       |

