

# FRAME 60 high lumen

trim system

007-93M9037 006-16302H 035-03037



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

Notes \_\_\_\_\_

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



## General

Ceiling , Recessed \_\_\_\_\_

white , RAL 9016 <sup>1</sup> \_\_\_\_\_

IP20 \_\_\_\_\_

6140 lm \_\_\_\_\_

2050 lm/m \_\_\_\_\_

## LED

3000 K \_\_\_\_\_

CRI ≥ 90 \_\_\_\_\_

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

initial MacAdam ≤ 3 SDCM \_\_\_\_\_

R<sub>g</sub>: 99 , R<sub>r</sub>: 91 , R<sub>t(1-15)</sub>: 89 \_\_\_\_\_

MR 0.61 \_\_\_\_\_

MDER 0.55 \_\_\_\_\_

## Optical

High Performance Opal \_\_\_\_\_

opal (lambertsch) \_\_\_\_\_

PstLM ≤ 1.0 <sup>2</sup> \_\_\_\_\_

SVM ≤ 0.4 <sup>2</sup> \_\_\_\_\_

## Electrical

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

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

system 58 W \_\_\_\_\_

system 106 lm/W<sup>3</sup> \_\_\_\_\_

PC1 \_\_\_\_\_

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

19 W/m \_\_\_\_\_

## Physical

trim \_\_\_\_\_

length 3000 mm \_\_\_\_\_

width 77 mm \_\_\_\_\_

height 78 mm \_\_\_\_\_

6.8 kg \_\_\_\_\_

## Cutout

length 3016 mm \_\_\_\_\_

width 66 mm \_\_\_\_\_

min. ceiling thickness 8 mm \_\_\_\_\_

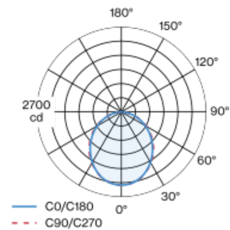
max. ceiling thickness 25 mm \_\_\_\_\_

recessed depth 108 mm \_\_\_\_\_

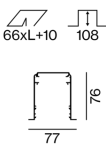
<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: incl. consideration of optical losses, internal control unit losses & operating device efficiency.

Luminaire housing made of extruded aluminium profile; recessed light with wrap around edge; for continuous lighting systems; suitable for ceiling thickness of 8-25 mm; surface white powder coated; 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; 220-240 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 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                            | 7                  |
| B13                            | 10                 |
| B16                            | 12                 |
| B20                            | 14                 |
| C10                            | 10                 |
| C13                            | 20                 |
| C16                            | 24                 |
| C20                            | 28                 |

## Components

### LIGHT OPTIC COVER

|                       |                   |
|-----------------------|-------------------|
| TYPE                  | ARTICLE NUMBER(S) |
| opal high performance | 006-16302H        |

### INSTALLATION CHANNEL

|               |            |                   |
|---------------|------------|-------------------|
| COLOUR        | L-W-H (MM) | ARTICLE NUMBER(S) |
| traffic white | 3000-77-76 | 035-03037         |

## Mounting accessories

### END CAPS

|        |                 |                   |
|--------|-----------------|-------------------|
| TYPE   | COLOUR          | ARTICLE NUMBER(S) |
| 1 pair | traffic white   | 035-13137         |
| 1 pair | white aluminium | 035-1313G         |

## 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 BRACKET

| TYPE      | ARTICLE NUMBER(S) |
|-----------|-------------------|
| 1 piece   | 035-10200         |
| 25 pieces | 035-10200.25      |



## 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         |

