

# FRAME 40 reflector

trim

042-7114138B



Project / Type

Notes

Count / Date

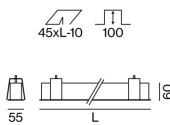


Luminaire housing made of extruded aluminium profile; recessed light with wrap around edge; suitable for ceiling thickness of 8-25 mm; surface black powder coated; luminaire profile can be pre-mounted; remaining lamp components mounted without tools; LED light inset incl. high gloss reflector with faceted design; Reflector dark chrome; 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; UGR  $\leq 19$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 1500$  cd/m<sup>2</sup>; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. DALI-2 converter; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



### General

Ceiling , Recessed

black , RAL9005 <sup>1</sup>

Reflector dark chrome

2430 lm/m

IP20

4840 lm

### LED

4000 K

CRI  $\geq 90$

L90 / 50000 h

initial MacAdam  $\leq 3$  SDCM

R<sub>g</sub>: 99 , R<sub>f</sub>: 92 , R<sub>(1-15)</sub>: 90

MR 0.81

MDER 0.74

### Optical

Reflector

Symmetric

UGR < 19 ,  $\geq 65^\circ$  <1500 cd/m<sup>2</sup>

P<sub>stLM</sub>  $\leq 1.0$  <sup>2</sup>

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

### Electrical

DALI-2

220-240 V

system 47 W

PC1

system 103 lm/W<sup>3</sup>

24 W/m

### Physical

length 2019 mm

width 55 mm

height 60 mm

### Cutout

length 2009 mm

width 45 mm

min. ceiling thickness 8 mm

max. ceiling thickness 25 mm

recessed depth 100 mm

<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</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                            | 13                 |
| B13                            | 17                 |
| B16                            | 21                 |
| B20                            | 27                 |
| C10                            | 21                 |
| C13                            | 28                 |
| C16                            | 35                 |
| C20                            | 45                 |

## Mounting accessories

### CONCRETE INSTALLATION HOUSING

| TYPE    | L·W·H (MM) | ARTICLE NUMBER(S) |
|---------|------------|-------------------|
| 1038 mm | 1038-57-87 | 042-7195210       |
| 2038 mm | 2038-57-87 | 042-7195410       |
| 3038 mm | 3038-57-87 | 042-7195610       |

