

# LINEA opal / asymmetric

wall

058-6178537AA



Project / Type

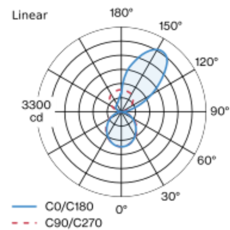
Notes

Count / Date



Light fitting and front cover made of extruded aluminium profile; angular design; no visible screws; surface white powder coated; suitable for wall mounting; homogeneous wall or ceiling illumination through uniform direct/indirect light distribution; direct light component: HPO (High Performance Opal) cover for uniform illumination; indirect light component: with specially computed, asymmetrical lens for homogeneous lighting intensity (installation optionally for floor or ceiling illumination); light colour 3000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 90$ ; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; degree of protection IP20; PC1; 220-240 V; incl. DALI-2 converter; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



## General

Wall , Surface

white , RAL 9010 <sup>1</sup>

IP20

indirect 4190 lm

direct 3520 lm

total 7710 lm

3210 lm/m

## LED

3000 K

CRI  $\geq 90$

L85 / 50000 h

initial MacAdam  $\leq 3$  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 / Asymmetric

asymmetric

P<sub>stLM</sub>  $\leq 1.0^2$  <sup>3</sup>

SVM  $\leq 0.4^2$  <sup>3</sup>

## Electrical

DALI-2

220-240 V

system 71 W

system 109 lm/W<sup>4</sup>

PC1

1 DALI Addr.

29 W/m

## Physical

length 2410 mm

width 40 mm

height 100 mm

5.9 kg

<sup>1</sup> RAL code <sup>2</sup> Linear  
<sup>3</sup> Value of containing product at full load (undimmed)  
<sup>4</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

## Installation instructions



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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              | 0.91                            | 0.89   |
| 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                            | 18                 |
| B13                            | 23                 |
| B16                            | 28                 |
| B20                            | 35                 |
| C10                            | 30                 |
| C13                            | 38                 |
| C16                            | 46                 |
| C20                            | 58                 |

