

# LINEA opal / 1 spot

wall

058-6178648BH



Project / Type

Notes

Count / Date



### General

Wall , Surface

tilt max 89°

black , RAL9005 <sup>1</sup>

IP20

141 lm

### LED

3000 K<sup>2</sup>-4000 K<sup>3</sup>

CRI ≥ 90

L80 / 50000 h<sup>2</sup>-L85 / 50000 h<sup>3</sup>

photobio. safety RG 0 - no Risk

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 98 , R<sub>f</sub>: 90 , R<sub>(1-15)</sub>: 88

MR 0.76

MDER 0.69

### Optical

Flood

beam angle 23°

PstLM ≤ 1.0 <sup>4</sup>

SVM ≤ 0.4 <sup>4</sup>

High Performance Opal

### Electrical

DALI-2 / switch (only spotlights)

2.2<sup>2</sup>-70<sup>3</sup> W

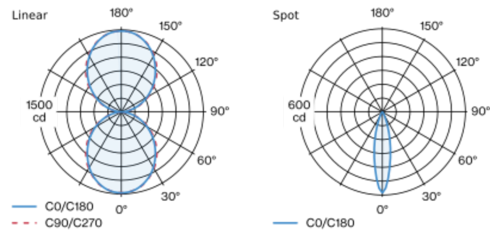
PC1 220-240V

64<sup>2</sup>-110<sup>3</sup> lm/W

1 DALI Addr.

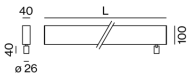
Light fitting and front cover made of extruded aluminium profile; angular design; no visible screws; surface black powder coated; suitable for wall mounting; homogeneous wall or ceiling illumination through uniform direct/ indirect light distribution; direct and indirect light component: HPO (High Performance Opal) cover for uniform illumination; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; degree of protection IP20; PC1 220-240V; photobiological safety according to IEC 62471 risk group RG 0 - no Risk; JUST 26 spotlight module 2,2 W / 141 lm / 3000 K left, incl. switch; incl. DALI-2 converter; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

### Light distribution



| flood 23° |          | Spot  |
|-----------|----------|-------|
| h (m)     | E0° (lx) | ø (m) |
| 1         | 584      | 0.41  |
| 2         | 146      | 0.83  |
| 3         | 65       | 1.24  |
| 4         | 37       | 1.65  |
| 5         | 23       | 2.07  |

### Product drawing



### Physical

length 2510 mm

width 40 mm

height 100 mm

left

<sup>1</sup> RAL code <sup>2</sup> Spot <sup>3</sup> Linear  
<sup>4</sup> Value of containing product at full load (undimmed)

### 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

MF

Maintenance Factor

LMF<sup>a</sup>

Luminaire Maintenance Factor

RSMF<sup>a</sup>

Room Surface Maintenance Factor

LLMF

Lamp Lumens 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                            | 9                  |
| B13                            | 12                 |
| B16                            | 15                 |
| B20                            | 19                 |
| C10                            | 15                 |
| C13                            | 20                 |
| C16                            | 25                 |
| C20                            | 31                 |

