

# LINEA opal / 2 spots

wall

058-6178647DH



Project / Type

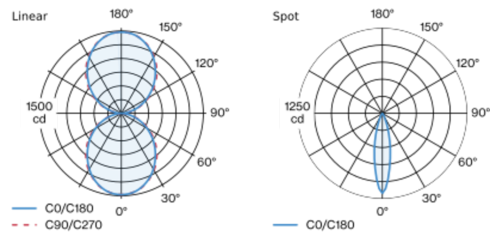
Notes

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 and indirect light component: HPO (High Performance Opal) cover for uniform illumination; light colour 4000 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; 2x JUST 26 spotlight module 2,2 W / 141 lm / 3000 K (1x left, 1x right), incl. switch; incl. DALI-2 converter; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

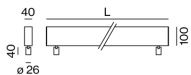
## Light distribution



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



## General

Wall , Surface
white , RAL 9010 <sup>1</sup>
IP20
indirect 3850 lm
direct 3850 lm
total 7700 lm
3200 lm/m
tilt max 89°
282 lm

## LED

3000 K <sup>2</sup> -4000 K <sup>3</sup>
CRI $\geq 90$
L80 / 50000 h <sup>2</sup> -L85 / 50000 h <sup>3</sup>
initial MacAdam $\leq 3$ SDCM
R <sub>g</sub> : 100 <sup>2</sup> -98 <sup>3</sup> , R <sub>f</sub> : 91 <sup>2</sup> -90 <sup>3</sup> , R <sub>f(1-15)</sub> : 88
MR 0.59 <sup>2</sup> -0.76 <sup>3</sup>
MDER 0.53 <sup>2</sup> -0.69 <sup>3</sup>

## Optical

High Performance Opal
flood <sup>2</sup> -opal (lambertsch) <sup>3</sup>
PstLM $\leq 1.0$ <sup>3 2 4</sup>
SVM $\leq 0.4$ <sup>3 2 4</sup>
beam angle 23°

## Electrical

DALI-2 / switch (only spotlights)
220-240 V
system 4.5 <sup>2</sup> -70 <sup>3</sup> W
system 63 <sup>2</sup> -110 <sup>3</sup> lm/W <sup>5</sup>
PC1
1 DALI Addr.
29 W/m

## Physical

length 2610 mm
width 40 mm
height 100 mm

<sup>1</sup> RAL code <sup>2</sup> Spot <sup>3</sup> Linear

<sup>4</sup> Value of containing product at full load (undimmed)

<sup>5</sup> FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: 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	0.96	0.92	0.88	0.85	0.81
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	80
B13	104
B16	130
B20	162
C10	135
C13	175
C16	220
C20	270

