

# LINEA opal / 1 spot

wall

058-6178D48CH



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

Notes \_\_\_\_\_

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



## General

Wall , Surface \_\_\_\_\_

black , RAL9005 <sup>1</sup> \_\_\_\_\_

3350 lm/m \_\_\_\_\_

IP20 \_\_\_\_\_

indirect 4030 lm \_\_\_\_\_

direct 4030 lm \_\_\_\_\_

total 8060 lm \_\_\_\_\_

tilt max 89° \_\_\_\_\_

141 lm \_\_\_\_\_

## LED

3000 K<sup>2</sup>-tunable white<sup>3</sup> \_\_\_\_\_

2700 K - 5000 K \_\_\_\_\_

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>: 99 , R<sub>f</sub>: 90 , R<sub>t(1-15)</sub>: 88 \_\_\_\_\_

MR 0.53 \_\_\_\_\_

MDER 0.48 \_\_\_\_\_

## Optical

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

PstLM ≤ 1.0 <sup>4</sup> \_\_\_\_\_

SVM ≤ 0.4 <sup>4</sup> \_\_\_\_\_

Flood \_\_\_\_\_

beam angle 23° \_\_\_\_\_

## Electrical

DALI-2 / switch (only spotlights) \_\_\_\_\_

2.2<sup>2</sup>-83<sup>3</sup> W \_\_\_\_\_

PC1 220-240V \_\_\_\_\_

64<sup>2</sup>-97<sup>3</sup> lm/W \_\_\_\_\_

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

35 W/m \_\_\_\_\_

## Physical

length 2510 mm \_\_\_\_\_

width 40 mm \_\_\_\_\_

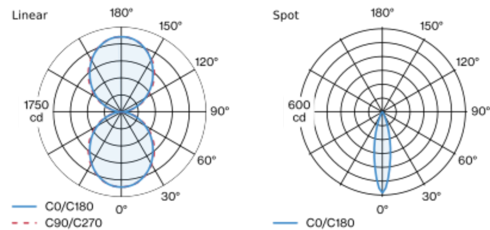
height 100 mm \_\_\_\_\_

right \_\_\_\_\_

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

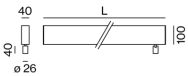
<sup>4</sup> Value of containing product at full load (undimmed)

## Light distribution



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

## Product drawing



## 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		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	80
B13	104
B16	130
B20	162
C10	135
C13	175
C16	220
C20	270

