

# LINEA opal / 2 spots

wall

058-6178527DH



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

Notes \_\_\_\_\_

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



## General

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

white , RAL9010 <sup>1</sup> \_\_\_\_\_

2900 lm/m \_\_\_\_\_

IP20 \_\_\_\_\_

indirect 3490 lm \_\_\_\_\_

direct 3490 lm \_\_\_\_\_

total 6980 lm \_\_\_\_\_

tilt max 89° \_\_\_\_\_

344 lm \_\_\_\_\_

## LED

3000 K \_\_\_\_\_

CRI ≥ 97<sup>2</sup>-90<sup>3</sup> \_\_\_\_\_

L95 / 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>: 92<sup>2</sup>-99<sup>3</sup> , R<sub>f</sub>: 86<sup>2</sup>-91<sup>3</sup> , R<sub>f(1-15)</sub>: 94<sup>2</sup>-89<sup>3</sup> \_\_\_\_\_

MR 0.53<sup>2</sup>-0.61<sup>3</sup> \_\_\_\_\_

MDER 0.48<sup>2</sup>-0.55<sup>3</sup> \_\_\_\_\_

## Optical

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

PstLM ≤ 1.0 <sup>4</sup> \_\_\_\_\_

SVM ≤ 0.4 <sup>4</sup> \_\_\_\_\_

Flood \_\_\_\_\_

beam angle 30° \_\_\_\_\_

## Electrical

non DIM / switch (only spotlights) \_\_\_\_\_

5.4<sup>2</sup>-70<sup>3</sup> W \_\_\_\_\_

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

64<sup>2</sup>-100<sup>3</sup> lm/W \_\_\_\_\_

29 W/m \_\_\_\_\_

## Physical

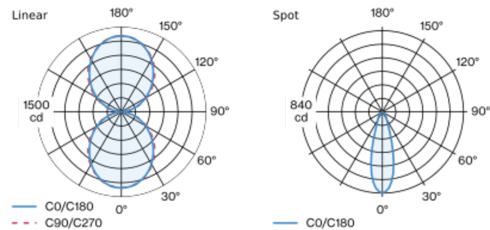
length 2610 mm \_\_\_\_\_

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

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

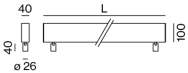
<sup>1</sup> RAL code <sup>2</sup> Spot <sup>3</sup> Linear  
<sup>4</sup> Value of containing product at full load (undimmed)

## Light distribution



flood 30°		Spot
h (m)	E0° (lx)	ø (m)
1	419	0.54
2	105	1.09
3	47	1.63
4	26	2.17
5	17	2.72

## Product drawing



## Installation instructions



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## Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.99	0.99	0.99	0.99	0.99
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	31
B13	40
B16	50
B20	62
B25	78
C10	52
C13	67
C16	85
C20	104
C25	130

