

# LENO opal

suspended system

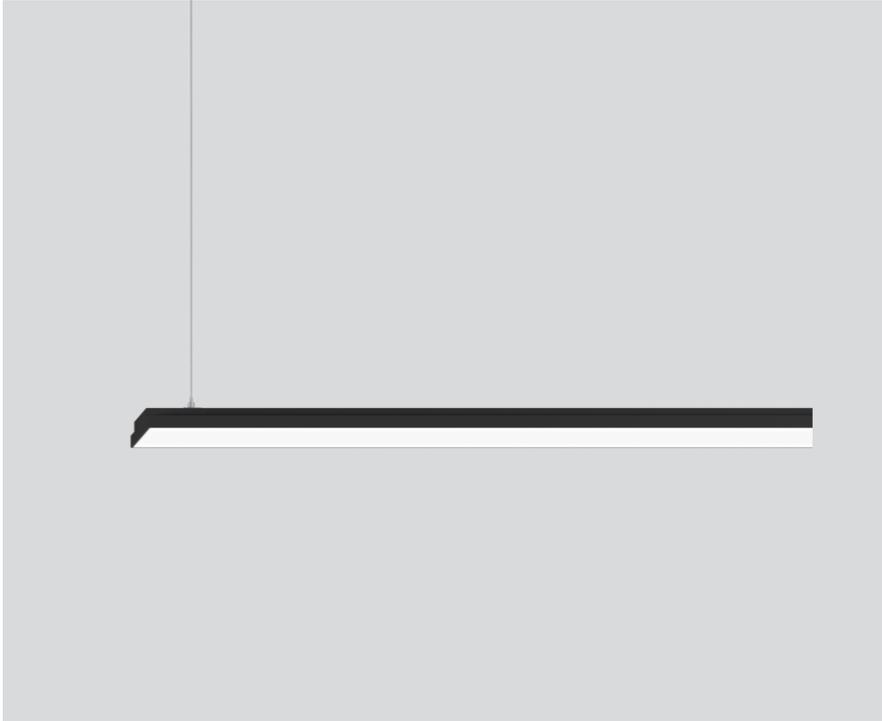
051-8112537H 051-8930068



Project / Type

Notes

Count / Date



## General

Ceiling , Suspended

black , RAL9005 <sup>1</sup>

2000 lm/m

IP20

1220 lm

## LED

3000 K

CRI  $\geq$  80

L90 / 50000 h

photobio. safety RG 0 - no Risk

initial MacAdam  $\leq$  3 SDCM

MR 0.54

MDER 0.49

## Optical

High Performance Opal

PstLM  $\leq$  1.0 <sup>2</sup>

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

## Electrical

DALI-2

10.8 W

PC1 220-240V

113 lm/W

1 DALI Addr.

18 W/m

## Physical

cable 1500 mm

length 613 mm

width 89 mm

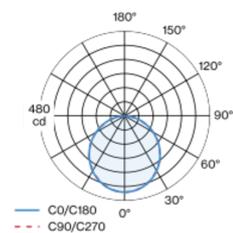
height 28 mm

1.95 kg

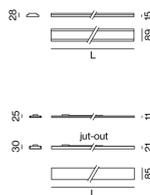
<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)

Low profile suspended luminaire, 28 mm total height; converter integrated into luminaire housing; for suspended mounting (1500 mm cable suspension as an accessory); with integrated tool-less suspension height adjustment; for continuous lighting systems; surface black powder coated; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light directed downward through LGP (LIGHT GUIDING PRISM) body and high efficiency reflector; HPO (High Performance Opal) cover for uniform illumination; flush cover; light colour 3000 K; binning initial MacAdam  $\leq$  3 SDCM; CRI  $\geq$  80; min. 90% 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; internal wiring in light halogen free; incl. DALI-2 converter; accessories are listed separately; light source not replaceable; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



## Installation instructions



## Lighting calculator





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## Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.95	0.93	0.91	0.9
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	24
B16	30
B20	37
C10	31
C13	40
C16	51
C20	62

## Components

### INSTALLATION CHANNEL

TYPE	COLOUR	L-W-H (MM)	ARTICLE NUMBER(S)
613 mm	jet black	613-89-28	051-8930068



### Mounting accessories

#### END CAPS

COLOUR	ARTICLE NUMBER(S)
pure white	051-8992217
jet black	051-8992218



### Mounting accessories

#### LINEAR CONNECTOR

TYPE	ARTICLE NUMBER(S)
1 pair	051-8993110
10 pairs	051-8993110:10



#### CABLE SUSPENSION

ARTICLE NUMBER(S)
005-2122110



### Mounting accessories

#### CANOPY / FEEDER CABLE

TYPE	COLOUR	ARTICLE NUMBER(S)
5 x 1,5 mm <sup>2</sup>	pure white	005-2212417
5 x 1,5 mm <sup>2</sup>	jet black	005-2212418



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## Electrical accessories

### POWER FEEDER CONNECTOR

ARTICLE NUMBER(S)  
051-8992330



## Other accessories

### DISMOUNTING TOOL

TYPE  
vacuum cup

ARTICLE NUMBER(S)  
086-30000

