

# LENO opal

semi-recessed / surface system

051-8214637H 051-8920127



Project / Type

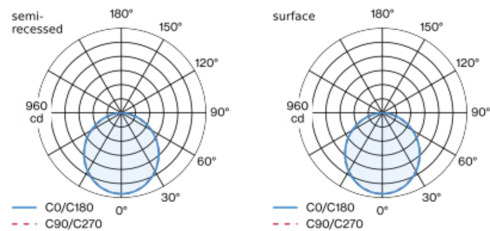
Notes

Count / Date

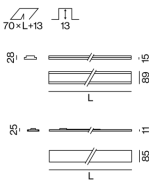


Low profile recessed mounted luminaire, 15 mm visible height or low profile surface mounted luminaire, 28 mm total height; converter integrated into luminaire housing; suitable for wall or ceiling mounting; suitable for installation in primed or exposed concrete, in plasterboard constructions and in plastered walls or ceilings; for continuous lighting systems; surface white 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 4000 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; PC1; 220-240 V; 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



220-240 V

IP20

IP40

X-PERT

## General

Ceiling / Wall | Surface<sup>1</sup>-Semi-Recessed<sup>2</sup>

white | RAL 9010<sup>3</sup>

traffic white

front IP20<sup>1</sup>-IP40<sup>2</sup> | back IP20

2590 lm

2130 lm/m

## LED

4000 K

CRI  $\geq 80$

L90 / 50000 h

initial MacAdam  $\leq 3$  SDCM

MR 0.72 | MDER 0.66

## Optical

High Performance Opal | opal (lambertsch)

PstLM  $\leq 1.0$ <sup>1 2 4</sup> | SVM  $\leq 0.4$ <sup>1 2 4</sup>

## Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 19.1 W

system 136 lm/W<sup>5</sup>

16 W/m

## Physical

length 1221 mm | width 89 mm | height 28 mm

2.6 kg

## Cutout

length 1234 mm | width 70 mm

min. ceiling thickness 12.5 mm

recessed depth 13 mm

<sup>1</sup> surface <sup>2</sup> semi-recessed <sup>3</sup> RAL code  
<sup>4</sup> Value of containing product at full load (undimmed)  
<sup>5</sup> 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	0.98	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 Factor		

<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 semi-recessed / surface

COLOUR	L-W-H (MM)	ARTICLE NUMBER(S)
traffic white	1221-89-28	051-8920127



Mounting accessories

END CAPS MOUNTING HOUSING

TYPE	ARTICLE NUMBER(S)
1 pair	051-8996210



END CAPS semi-recessed

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



Mounting accessories

LINEAR CONNECTOR semi-recessed / surface

TYPE	ARTICLE NUMBER(S)
1 pair	051-8992110
10 pairs	051-8992110.10



POWER FEEDER CONNECTOR

TYPE	ARTICLE NUMBER(S)
220-240 V   13A	051-8992330





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Mounting accessories

CONCRETE MOUNTING HOUSING

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
end	616-67-28	051-8960060
start/end	1224-67-28	051-8960120
middle	1221-67-28	051-8961120
start/end	1833-67-28	051-8960180
middle	1830-67-28	051-8961180
start/end	2441-67-28	051-8960240
middle	2438-67-28	051-8961240



Other accessories

DISMOUNTING TOOL

TYPE	ARTICLE NUMBER(S)
vacuum cup	086-30000

