

# LENO opal

trimless system

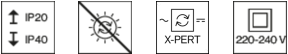
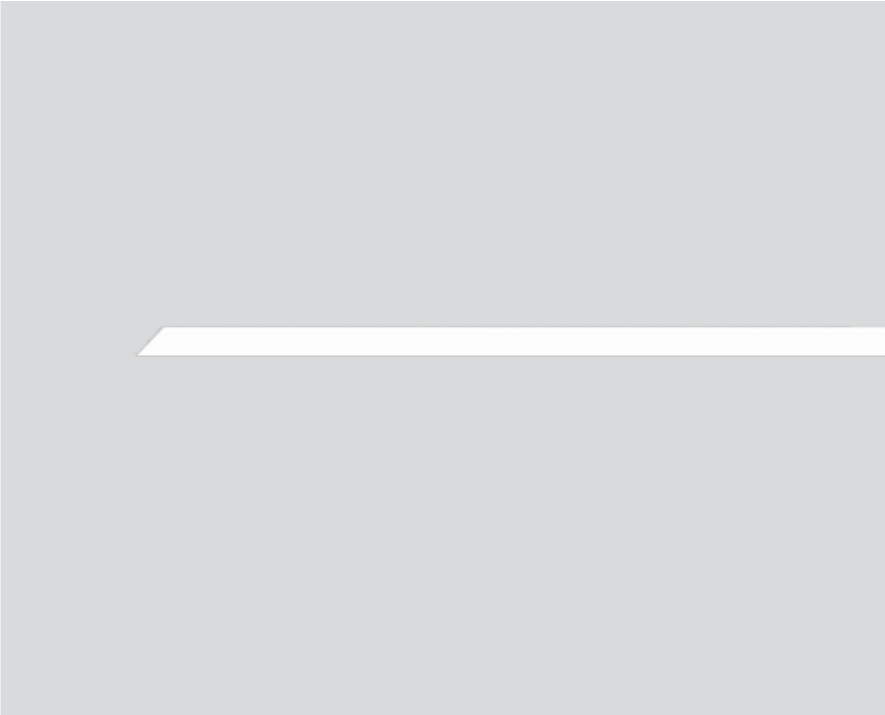
051-8012537H 051-8900067



Project / Type

Notes

Count / Date



### General

Ceiling / Wall | Recessed

traffic white | RAL 9016

front IP40 | back IP20

1220 lm

2000 lm/m

### LED

3000 K

CRI ≥ 80

L90 / 50000 h

initial MacAdam ≤ 3 SDCM

MR 0.54 | MDER 0.49

### Optical

High Performance Opal | opal (lambertsch)

PstLM ≤ 1.0 <sup>1</sup> | SVM ≤ 0.4 <sup>1</sup>

### Electrical

DALI-2 | 1 DALI Addr.

PC2 | 220-240 V

system 10.8 W

system 113 lm/W <sup>2</sup>

18 W/m

### Physical

trimless

length 613 mm | width 92 mm | height 13 mm

1.9 kg

### Cutout

length 619 mm | width 95 mm

min. ceiling thickness 12.5 mm | max. ceiling thickness 25 mm

recessed depth 58 mm

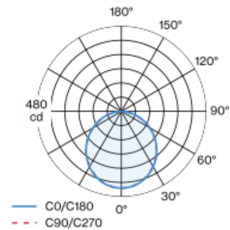
recessed depth: 12.5 mm (ceiling) + 45 mm (converter)

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

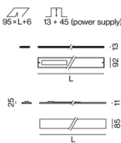
<sup>2</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

Low profile recessed channel, height 13 mm; suitable for rimless installation in 12.5mm plasterboard ceilings; specially designed trim with grooves for better adhesion of smoothing compound; suitable for wall or ceiling mounting; for continuous lighting systems; surface traffic white powder coated; easy mounting without need to cut the substructure; 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 ≤ 3 SDCM; CRI ≥ 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; degree of protection from below IP40 (from above IP20); PC2; 220-240 V; internal wiring in light halogen free; incl. external converter for ceiling insertion; DALI-2 control; accessories are listed separately; light source not replaceable; control gear replaceable by an authorized professional;

### Light distribution



### Product drawing



### Installation instructions



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## Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.98   | 0.95   | 0.93   | 0.91   | 0.9    |
| 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 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                            | 22                 |
| B13                            | 30                 |
| B16                            | 36                 |
| B20                            | 46                 |
| C10                            | 36                 |
| C13                            | 50                 |
| C16                            | 60                 |
| C20                            | 76                 |

## Components

### INSTALLATION CHANNEL trimless

|            |                   |
|------------|-------------------|
| L·W·H (MM) | ARTICLE NUMBER(S) |
| 613·92·13  | 051-8900067       |



## Mounting accessories

### END CAPS trimless

|        |                   |
|--------|-------------------|
| TYPE   | ARTICLE NUMBER(S) |
| 1 pair | 051-8990217       |



## Mounting accessories

### LINEAR CONNECTOR recessed

|          |                   |
|----------|-------------------|
| TYPE     | ARTICLE NUMBER(S) |
| 1 pair   | 051-8990110       |
| 10 pairs | 051-8990110.10    |



## Other accessories

### DISMOUNTING TOOL

|            |                   |
|------------|-------------------|
| TYPE       | ARTICLE NUMBER(S) |
| vacuum cup | 086-30000         |

