

# LENO opal

semi-recessed / surface system

051-8112537H 051-8920068



Project / Type

Notes

Count / Date



## General

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

black | RAL 9005<sup>3</sup>

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

1220 lm

2000 lm/m

jet black

## 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 2 4</sup> | SVM ≤ 0.4<sup>1 2 4</sup>

## Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 10.8 W

system 113 lm/W<sup>5</sup>

18 W/m

## Physical

length 613 mm | width 89 mm | height 28 mm

1.8 kg

## Cutout

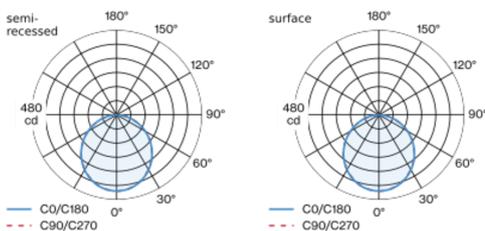
length 626 mm | width 70 mm

min. ceiling thickness 12.5 mm

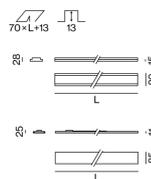
recessed depth 13 mm

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 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 ≤ 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); 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



<sup>1</sup> semi-recessed <sup>2</sup> surface <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) |
|-----------|------------|-------------------|
| jet black | 613-89-28  | 051-8920068       |



## 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       |



[051-8112537H 051-8920068] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.

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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         |

