# Lavinia

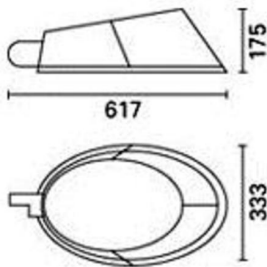**Design Massimiliano & Doriana Fuksas**    **iGuzzini**

Last information update: December 2024

**Product configuration: EH26**
EH26: Pole-mounted system - Warm White - ST1 optic

## Product code
EH26: Pole-mounted system - Warm White - ST1 optic

## Technical description
Outdoor luminaire with direct light street optic for a high level of visual comfort (G4), designed to use LED lamps. The optical assembly and the pole attachment system are made of EN1706AC 46100LF aluminium alloy, subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The painting stage consists of a primer and a liquid acrylic paint, cured at 150 °C, with a high level of weather resistance. Adjustment option, with graduated scale, for angle of ± 15° in relation to the road surface. Diffuser secured with silicone to the 4 mm thick sodium - calcium glass. The glass and frame close the optical assembly at the bottom. The lower frame and cover are fixed together by 4 captive screws. The high IP rating is guaranteed by the 60 Shore grey silicone gasket placed between the two elements. Slots in the frame allow rainwater drainage. Complete with circuit having Neutral White monochrome LEDs, silver aluminium reflectors. LEDs can be substituted in the lab in groups of 12. DALI electronic control gear. Midnight mode (100%-70%) or Bi-energy operation without external programming. Personalised Midnight programmable, fixed dimming, compatibility with flux regulators, via a special programming interface. Selv 220-240V ac 50/60Hz electronic ballast. Replaceable control gear. The optical assembly is fixed to the wall-mounting or pole-top attachment by two fixing screws. Two safety bolts make it easy to fit. The light flow emitted in the upper hemisphere of the Lavinia System in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). All screws used are made of stainless steel.

## Installation
The floodlight can be installed on a pole (even with an arm), with single, double (ø60/76/102/120mm) or triple (ø102/120mm) pole-top attachment, or it can be wall-mounted. Versions with poles for burial and with base-plate. Installation on pole with arms, made of hot galvanised steel coated with acrylic liquid paint, using a flange with ø102/120mm (for all poles).

## Colour
White (01) | Black (04) | Grey (15) | Rust Brown (F5)

## Weight (Kg)
8.1

## Mounting
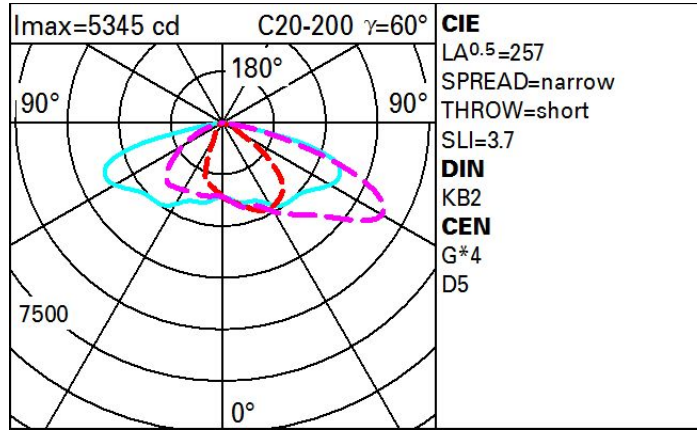wall arm|ground surface|wall surface

## Wiring
The attachment guarantees the completely safe passage of power cables, avoiding piercing. The product is powered by cables from a pre-wiring box with terminal block and a 6.3 A T fuse that guarantees overvoltage protection: 10KV Common Mode and 6KV Differential Mode. The product is kept perfectly watertight at the power cable entry point by means of a PG M24x1.5 mm cable gland made of thermoplastic material with a thrust ring and rubber gasket that together achieve a class II insulation rating.
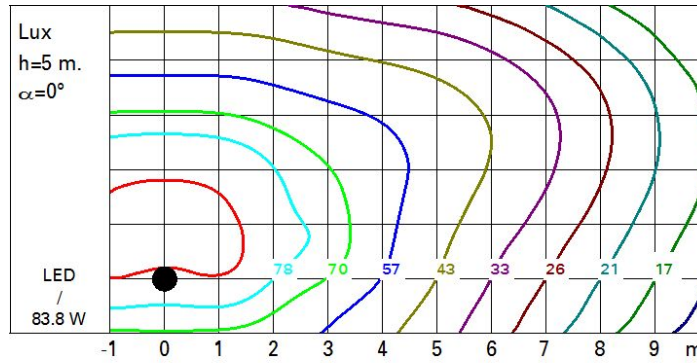
Complies with EN60598-1 and pertinent regulations

IK09  IP66  CE  ⬤  §  EHC  QCERT

## Technical data

| | | | |
|---|---|---|---|
| lm system: | 8900 | Life Time LED 3: | 100,000h - L80 - B10 (Ta 40°C) |
| W system: | 83.8 | Lamp code: | LED |
| lm source: | - | Number of lamps for optical assembly: | 1 |
| W source: | - | | |
| Luminous efficiency (lm/W, real value): | 106.2 | ZVEI Code: | LED |
| lm in emergency mode: | - | Number of optical assemblies: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Intervallo temperatura ambiente: | from -40°C to 50°C. |
| Light Output Ratio (L.O.R.) [%]: | 100 | Power factor: | See installation instructions |
| | | Inrush current: | 102 A / 106 µs |
| CRI (minimum): | 70 | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 7 luminaires |
| Colour temperature [K]: | 3000 | | B16A: 12 luminaires |
| MacAdam Step: | 3 | | C10A: 12 luminaires |
| Life Time LED 1: | 100,000h - L90 - B10 (Ta 25°C) | | C16A: 20 luminaires |
| Life Time LED 2: | 49,000h - L90 - B10 (Ta 40°C) | Minimum dimming %: | 10 |
| | | Overvoltage protection: | 10kV Common mode & 6kV Differential mode |
| | | Control: | DALI-2 |

**Polar**

Imax=5345 cd    C20-200 γ=60°

180°

90°                    90°

7500

0°

**CIE**
LA$^{0.5}$=257
SPREAD=narrow
THROW=short
SLI=3.7
**DIN**
KB2
**CEN**
G*4
D5

**Isolux**

Lux
h=5 m.
α=0°

LED
/
83.8 W

78  70  57  43  33  26  21  17

-1  0  1  2  3  4  5  6  7  8  9  m

**Utilisation factors**

RS ——————    KS - - - - - - -

η
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

L/H    1    2    3    4