

DESCRIPTION

Compliance

- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.



Dimensions - Area - Weight

| Height | Width | Lenght | Weight | IP | IK | Area exposed to wind |
|--------|--------|--------|--------|----|----|----------------------|
| 710 mm | 445 mm | 445 mm | 9.2kg | 66 | 09 | 0,102 m ² |

Electrical characteristics

| Voltage | Frequency | Cos ϕ | Isolation class | Operative Temp. |
|----------|-----------|------------|-----------------|-----------------|
| 220-240V | 50-60Hz | >0.9 | CL II | -35°C / +40°C |

- Classe I of insulation (on request).

Connection

- Flange with a hole diam. 28 mm, on bottom frame for fixing to support.
- Suitable for head post or bracket.

Materials

- Die-cast aluminium (UNI EN 1706).
- Galvanized steel sheet.
- Extra clear transparent tempered flat glass.
- Polycarbonate.
- Brass and stainless steel fasteners.

Structure - Main components

- Tilting upper square frame made in die-cast aluminum, for access to the auxiliary and optical compartment.
- Bottom frame made in die-cast aluminum with four-armed bracket with flange and a hole (diam. 28 mm) for attachment to the support.
- Silicone gasket between the upper and lower frames.
- Dedicated compartment to house any additional voltage arresters or remote control systems.
- Upper frame with possibility of predisposition for auxiliary devices conforming to Zhaga Book 18.
- Predisposition for NEMA Socket.

Electrical Auxiliaries

- Electronic power supply with short-circuit, overtemperature and overvoltage protection with estimated life time B10 at 100,000 h.
- Automatic disconnection switch on opening.
- Terminal block for cables with max. 2.5 mm² cross-section.
- Standard DM and CM 6kV/10kV (CL I, CL II) differential mode overvoltage protection and 10kV/10kV (CL I, CL II) additional protection (on request).

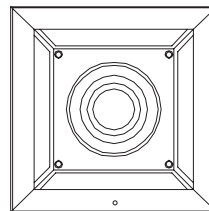
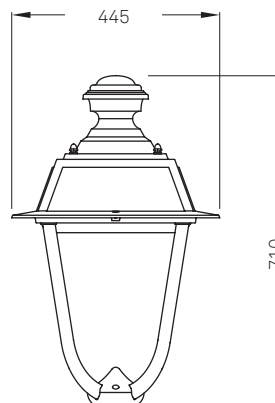
Operations - Maintenance

- During maintenance no screws or components are separated from the structure.
- Periodic maintenance for external cleaning of the structure and the screen from dust and smog and for checking the tightening of the product.
- Refer to the product installation and maintenance manual.
- It is the responsibility of the installer to ensure correct installation and electrical connection in accordance with applicable regulations.

Painting

- Standard colour: Black Grey.
- Painting cycles (see specific sheet).

DRAWINGS



DESCRIPTION

Optic

| Lighting distribution | Distribution type | LOR* | ULOR |
|-----------------------|-------------------|------|------|
| Type II - A | Asymmetric | 0,90 | 0% |
| Type III - A | Asymmetric | 0,91 | 0% |
| Type IV - A | Strong asymmetric | 0,87 | 0% |
| Type I - A | Center road | 0,93 | 0% |
| Type V - A | Rotosymmetric | 0,91 | 0% |

* optical efficiency of the device due to physical shielding.
- Modular (2 X 2) refractive lens in PMMA.
- Maximum luminous intensity class $\gamma \geq 90^\circ$: < 0.49 cd/klm.
- Wide range of optical lighting distributions (on request).
- Minimum height installation: 2.5m.

Luminous flux - 3000K

| System* | | | LED module | | | |
|---------|------|------|------------|-----|------|------|
| lm | W | lm/W | n.LED | mA | W | lm/W |
| 1500 | 11,7 | 129 | 16 | 219 | 9,6 | 157 |
| 2500 | 20,1 | 125 | 16 | 376 | 16,9 | 148 |
| 3500 | 29,1 | 120 | 16 | 549 | 25,1 | 140 |
| 4500 | 36,4 | 124 | 24 | 460 | 31,3 | 144 |
| 6000 | 50,8 | 118 | 24 | 642 | 44,2 | 136 |
| 7500 | 61,2 | 123 | 32 | 595 | 54,5 | 138 |

Luminous flux - 4000K

| System* | | | LED module | | | |
|---------|------|------|------------|-----|------|------|
| lm | W | lm/W | n.LED | mA | W | lm/W |
| 1500 | 11,3 | 133 | 16 | 209 | 9,1 | 165 |
| 2500 | 19,3 | 130 | 16 | 358 | 16,0 | 156 |
| 3500 | 27,9 | 125 | 16 | 521 | 23,7 | 147 |
| 4500 | 34,5 | 130 | 24 | 438 | 29,7 | 152 |
| 6000 | 45,5 | 132 | 32 | 438 | 39,5 | 152 |
| 7500 | 58,0 | 129 | 32 | 565 | 51,6 | 145 |

* The energetic values in the table are referred to the LED + Power supply. The values of luminous flux and system efficiency are obtained by multiplying the values in the table by the coefficients of efficiency (LOR) indicated in the optical configuration.
- CCT 2200K and 2700K on demand.
- LED type: Nichia NVSW219
Source efficiency LED: 165 lm/W @ Tj=25°C, 700 mA, 4000K
Source efficiency LED: 157 lm/W @ Tj=25°C, 700 mA, 3000K
- Life time specification for gradual light output degradation (EN 62722-2-1, LM80 data) 120,000h L90B10 (Tq = 25°C)
- Colour Rendering Index: Ra \geq 70
- Angular color uniformity $\Delta u'v' \leq 0.003$
- Photobiological risk: (EN 62471): RG0 (Exempt Risk)
- Photobiological risk (IEC/TR 62778): Threshold distance between class RG1 and class RG2 at 1.5 m from the source.

Driver

Driver functions

1-10V + NCL (Analogic control + Neri Constant Lumen)

AmpDim + NCL (Luminous flux regulator + Neri Constant Lumen)

DALI + NCL (Digital control + Neri Constant Lumen)

Zhaga connector + SR

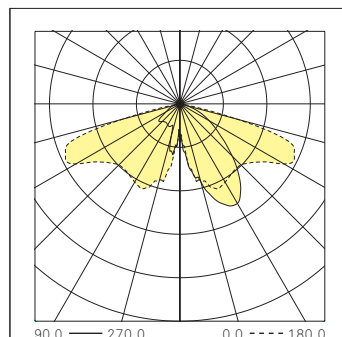
NVL6H + NCL (Autodimming -30% x 6h + Neri Constant Lumen)

Manual Dimming

POLAR DIAGRAMS

Type II - A

Luminous intensity class G*3

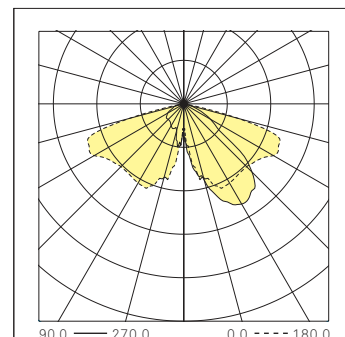


| Flux code CIE | | | | |
|---------------|-----|-----|-----|-----|
| N.1 | N.2 | N.3 | N.4 | N.5 |
| 38 | 72 | 96 | 100 | 90 |



Type III - A

Luminous intensity class G*3

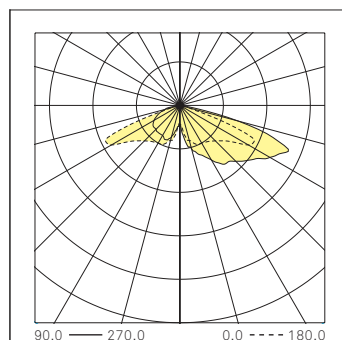


| Flux code CIE | | | | |
|---------------|-----|-----|-----|-----|
| N.1 | N.2 | N.3 | N.4 | N.5 |
| 38 | 72 | 96 | 100 | 91 |



Type IV - A

Luminous intensity class G*3

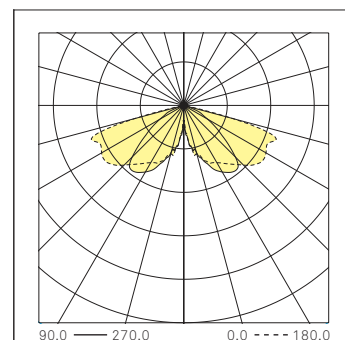


| Flux code CIE | | | | |
|---------------|-----|-----|-----|-----|
| N.1 | N.2 | N.3 | N.4 | N.5 |
| 26 | 59 | 94 | 100 | 87 |



Type I - A

Luminous intensity class G*4

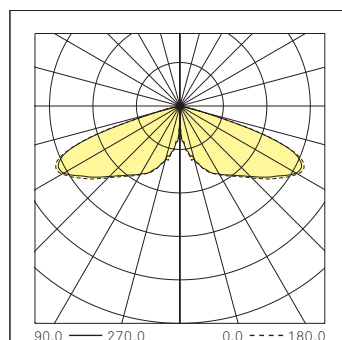


| Flux code CIE | | | | |
|---------------|-----|-----|-----|-----|
| N.1 | N.2 | N.3 | N.4 | N.5 |
| 36 | 76 | 98 | 100 | 93 |



Type V - A

Luminous intensity class G*6



| Flux code CIE | | | | |
|---------------|-----|-----|-----|-----|
| N.1 | N.2 | N.3 | N.4 | N.5 |
| 22 | 57 | 95 | 100 | 91 |

