

DESCRIPTION

Compliance

- ENEC safety mark (N. 02123).
- 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	Length	Weight	IP	IK	Area exposed to wind
760 mm	445 mm	445 mm	9.5 kg	66*	09	0,225 m ²

*LED Module

Electrical characteristics

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

- Classe I of insulation (on request).

Connection

- Post top: flange with center hole \varnothing 28mm for fastening to the support.

Materials

- Die-cast aluminium (UNI EN 1706).
- Galvanized steel sheet.
- Frosted PMMA screen.
- Polycarbonate.
- Brass and stainless steel fasteners.

Structure - Main components

- Aluminium upper tilting frame for access to the auxiliary compartment.
- Optical compartment with IP66 degree of protection.
- Polycarbonate platform.
- Osmotic valve for internal/external pressure balancing.
- 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 protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Automatic disconnector when opening.
- Terminal block for wires with max. section of 2.5mm².
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).

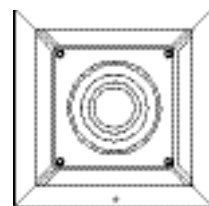
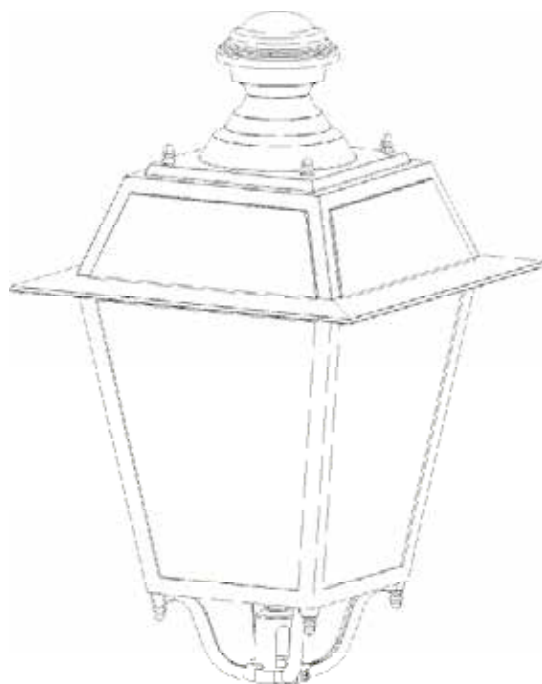
Operations and maintenance

- During maintenance operations no screw or component is separated from the structure.
- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support.
- Refer to the product's installation and maintenance manual
- It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

Painting

- Powder coating.
- Paint cycles (see the relative sheet).

DRAWINGS



DESCRIPTION

Optic

Cod. XX	Lighting distribution	Distribution type	LOR*	ULOR
20	Type II - A	Asymmetric	0,80	9%
21	Type III - A	Asymmetric	0,81	9%
24	Type IV - A	Strong asymmetric	0,77	9%
28	Type I - A	Center road	0,83	9%
30	Type V - A	Rotosymmetric	0,80	10%

* optical efficiency of the device due to physical shielding.
- Modular (2 X 2) refractive lens in PMMA.
- Wide range of optical lighting distributions (on request).
- Minimum height installation: 3m.

Luminous flux

3000K	System*		LED module				
Cod. YYY	lm	W	lm/W	n.LED	mA	W	lm/W
11A	1500	11.7	129	16	219	9.6	157
110	2500	20.1	125	16	376	16.9	148
111	3500	29.1	120	16	549	25.1	140
112	4500	36.4	124	24	460	31.3	144
113	6000	50.8	118	24	642	44.2	136

Luminous flux

4000K	System*		LED module				
Cod. YYY	lm	W	lm/W	n.LED	mA	W	lm/W
31A	1500	11.3	133	16	209	9.1	165
310	2500	19.3	130	16	358	16	156
311	3500	27.9	125	16	521	23.7	147
312	4500	34.5	130	24	438	29.7	152
313	6000	48.1	125	24	609	41.8	143
314	7500	62.1	120.7	24	796	55.3	136

* 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 ≥ 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 2.1 m from the source.

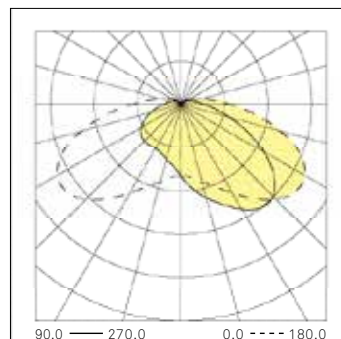
Driver

Cod. ZZ	Driver functions
02	1-10V + NCL (Analogic control + Neri costant lumen)
04	AmpDim + NCL (Luminous flux regulator + Neri Constant Lumen)
09	Presence detector
10	Zhaga connector + SR
14	NVL6H + NCL (autodimming -30% x 6h + Neri costant lumen)

PHOTOMETRIC CURVES

Type II - A

Luminous intensity class -

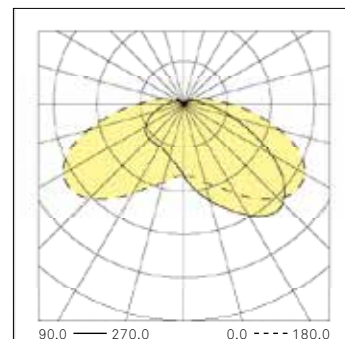


Flux code CIE				
N.1	N.2	N.3	N.4	N.5
28	60	85	88	80



Type III - A

Luminous intensity class -

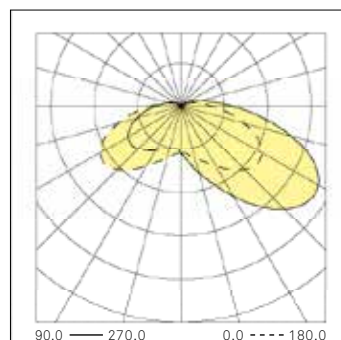


Flux code CIE				
N.1	N.2	N.3	N.4	N.5
28	60	85	89	81



Type IV - A

Luminous intensity class -

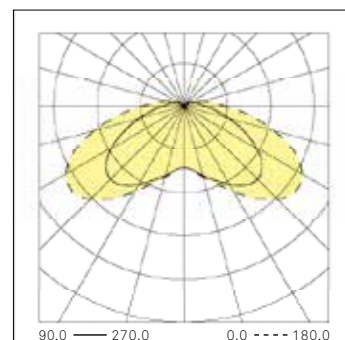


Flux code CIE				
N.1	N.2	N.3	N.4	N.5
23	55	82	88	77

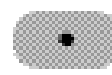


Type I - A

Luminous intensity class -

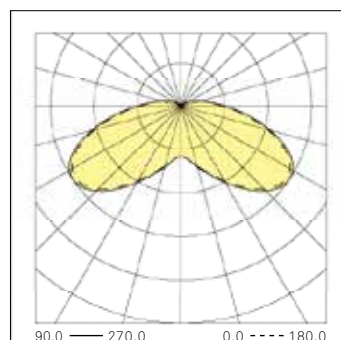


Flux code CIE				
N.1	N.2	N.3	N.4	N.5
27	60	86	89	83



Type V - A

Luminous intensity class -



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
22	54	82	87	80

