

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
770 mm	445 mm	445 mm	9.2 kg	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

- Suitable for suspended mounting.
- Thread tube 3/4" G (

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

- Upper frame with square shaped plant, hinged to the lower frame, equipped of a threaded tube G 3/4" for suspended mounting.
- Tilting bottom frame composed of a square element, four arms in extruded aluminum and a flange in die-cast aluminum with a cover and decorative element.
- 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).

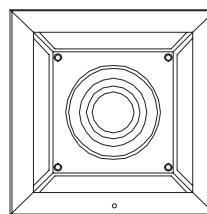
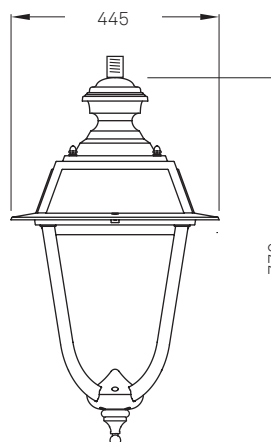
Operations - Maintenance

- 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

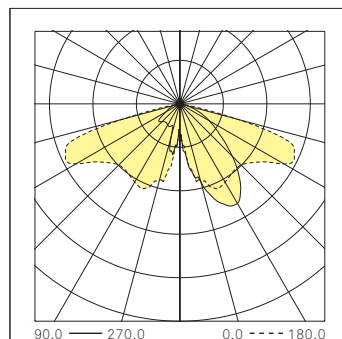
NVL6H + NCL (Autodimming -30% x 6h + Neri Constant Lumen)

Manual Dimming

POLAR DIAGRAMS

Type II - A

Luminous intensity class G*3

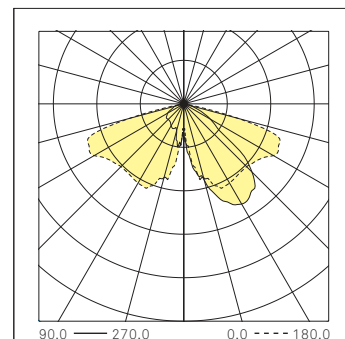


Flux code CIE				
N.1	N.2	N.3	N.4	N.5
38	72	96	100	90



Type III - A

Luminous intensity class G*3

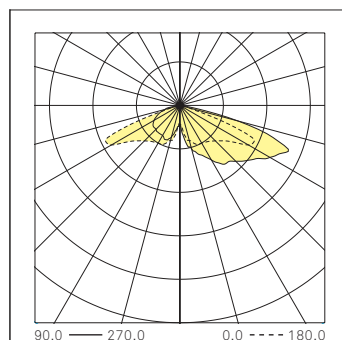


Flux code CIE				
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38	72	96	100	91



Type IV - A

Luminous intensity class G*3

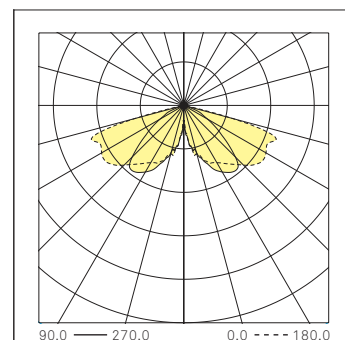


Flux code CIE				
N.1	N.2	N.3	N.4	N.5
26	59	94	100	87



Type I - A

Luminous intensity class G*4

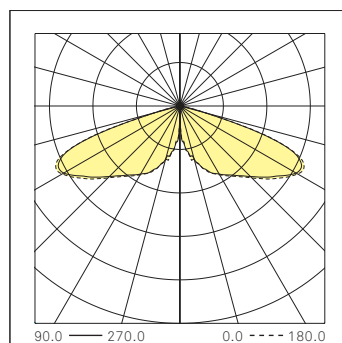


Flux code CIE				
N.1	N.2	N.3	N.4	N.5
36	76	98	100	93



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

