

## DESCRIPTION

## Compliance

- ENEC safety mark.
- 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.



## Mechanical information

Height	Width	Length	Weight	IP	IK	Area exposed to wind
500 mm	420 mm	420 mm	7.5 Kg	66	09	0,08 m <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50/60 Hz	> 0.95	CL II	-40°C / +50°C

- Classe I of insulation (on request).

## Fixing

- Post top mounting on tubes  $\varnothing$  60mm, flush on  $\varnothing$  76mm.

## Materials

- Die-cast aluminum (UNI EN 1706).
- Sheet steel.
- Extra-clear and prismatic tempered flat glass.
- Stainless steel fasteners.

## Structure – Main components

- Upper shell opening through screws with predisposition for auxiliary devices in compliant with Zhaga Book 18.
- Lower skirt frame in die-cast aluminum.
- White internal reflector.
- Shield in flat tempered and prismatic glass with impact resistance IK09 (EN 62262).
- Gasket in silicone between the upper frame and screen.

## Electrical auxiliaries

- Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Terminal block for wires with max. section of 2.5mm<sup>2</sup>.
- Power cable with customizable length.
- 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).

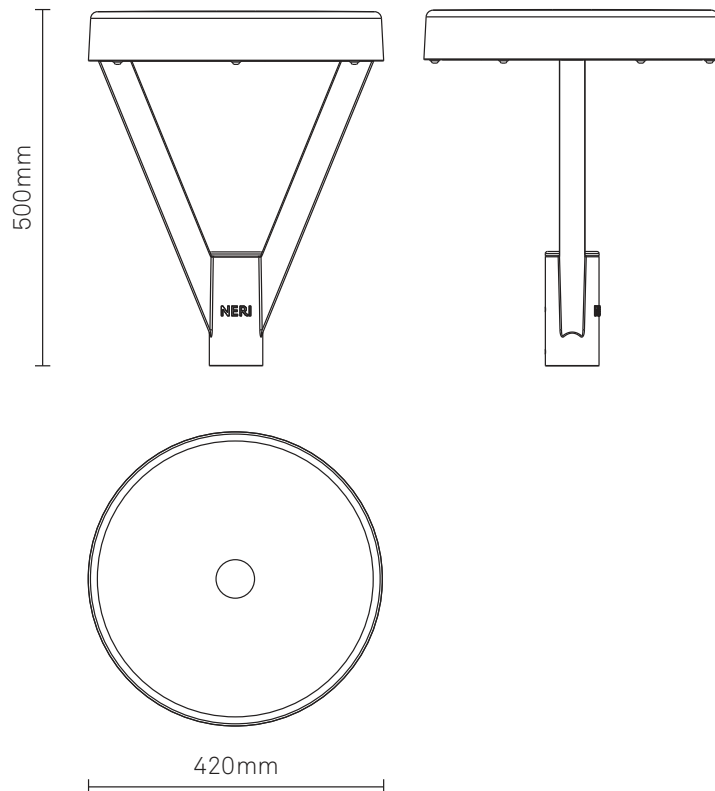
## Operations and maintenance

- 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

- Standard color: Neri Gray.
- Information about paint steps used on this product in specific technical sheet.

## DRAWINGS



## DESCRIPTION

## Optic configuration - Transparent screen

Lighting distribution	Distribution type	LOR*	ULOR
Type II - D	Asymmetric	100%	0%
Type III - B	Asymmetric	100%	0%
Type III - C	Asymmetric	100%	0%
Type III - H	Asymmetric	100%	0%
Type IV - A	Forward throw	100%	0%
Type V - A	Rotosymmetric	100%	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).  
 - Internal reflector for luminous flux recovery and glare reduction.  
 - Minimum height installation: 2.90m.

## Luminous Flux - 3000K

System**			LED Module			
lm	W	lm/W	n.LED	mA*	W	lm/W
1500	12.5	120	16	2 x 109	9.3	161
2500	19.9	126	16	2 x 186	16.1	155
3500	27.2	129	16	2 x 266	23.4	149
4500	35.1	128	16	2 x 350	31.3	144
6000	46.7	129	24	2 x 307	41.0	146
7500	59.2	127	24	2 x 393	53.2	141

## Luminous Flux - 4000K

System**			LED Module			
lm	W	lm/W	n.LED	mA*	W	lm/W
1500	12.0	125	16	2 x 105	8.9	168
2500	19.1	131	16	2 x 177	15.4	163
3500	26.1	134	16	2 x 254	22.3	157
4500	33.6	134	16	2 x 334	29.8	151
6000	44.6	134	24	2 x 293	39.0	154
7500	56.5	133	24	2 x 375	50.5	148

- \*\* The energetic values in the table are referred to the LED + Power supply.  
 \* LED module current with two parallel circuits  
 - CCT 2200K and 2700K on demand.  
 - LED type: Lumileds Luxeon 5050  
 Source efficiency LED: 164 lm/W @ Tj=25°C, 800 mA, 3000K  
 Source efficiency LED: 169 lm/W @ Tj=25°C, 800 mA, 4000K  
 - Life time specification for gradual light output degradation (EN 62722-2-1, LM80 data) 100,000h L90B10 (Tq = 25°C)  
 - Colour Rendering Index:  $\geq 70$   
 - Angular color uniformity  $\Delta u'v' \leq 0.003$   
 - Photobiological risk: (EN 62471): RG1 Unlimited

## Driver

## Driver functions

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

DALI + NCL (Digital control + Neri Constant Lumen)

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

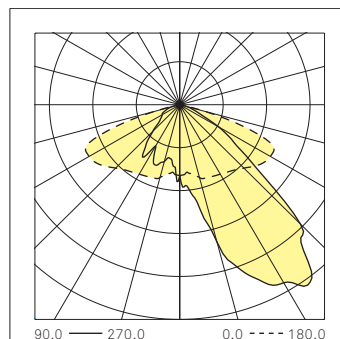
AmpDim + NCL (Flux regulator + Neri Constant Lumen)

Zhaga connector+ SR

## POLAR DIAGRAMS

## Type II - D

Luminous intensity class G\*4

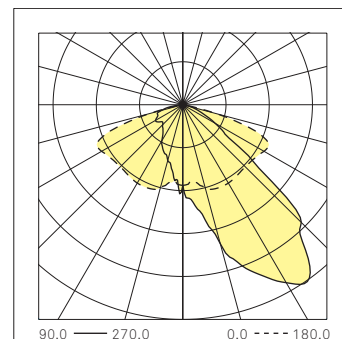


CIE flux code				
N.1	N.2	N.3	N.4	N.5
38	76	97	100	100



## Type III - B

Luminous intensity class G\*4

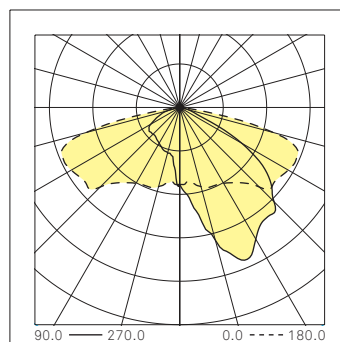


CIE flux code				
N.1	N.2	N.3	N.4	N.5
39	76	97	100	100



## Type III - C

Luminous intensity class G\*2

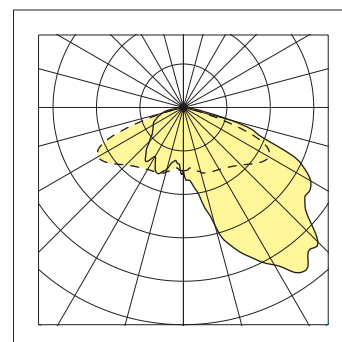


CIE flux code				
N.1	N.2	N.3	N.4	N.5
32	68	95	100	100



## Type III - H

Luminous intensity class G\*4

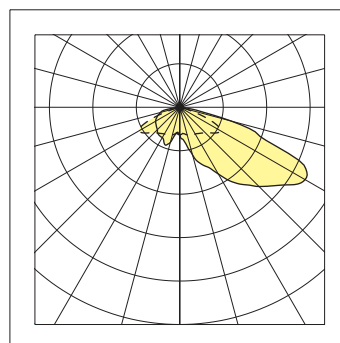


CIE flux code				
N.1	N.2	N.3	N.4	N.5
31	68	96	100	100



## Type IV - A

Luminous intensity class G\*2

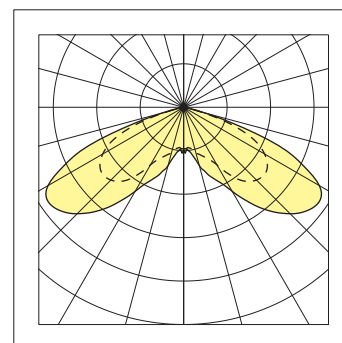


CIE flux code				
N.1	N.2	N.3	N.4	N.5
24	60	94	100	100



## Type V - A

Luminous intensity class G\*6



CIE flux code				
N.1	N.2	N.3	N.4	N.5
23	65	96	100	100



## DESCRIPTION

## Optic configuration - Prismatic screen

Lighting distribution	Distribution type	LOR*	ULOR
Type II - D	Asymmetric	100%	0%
Type III - B	Asymmetric	100%	0%
Type III - C	Asymmetric	100%	0%
Type III - H	Asymmetric	100%	0%
Type IV - A	Forward throw	100%	0%
Type V - A	Rotosymmetric	100%	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).  
 - Internal reflector for luminous flux recovery and glare reduction.  
 - Minimum height installation: 2.90m.

## Luminous Flux - 3000K

System**		LED Module				
lm	W	lm/W	n.LED	mA*	W	lm/W
1500	13.1	114	16	2 x 115	9.8	152
2500	20.8	120	16	2 x 196	17.1	147
3500	28.6	122	16	2 x 281	24.9	141
4500	35.1	128	24	2 x 238	31.3	144
6000	49.2	122	24	2 x 325	43.5	138
7500	59.9	125	32	2 x 303	53.8	139

## Luminous Flux - 4000K

System**		LED Module				
lm	W	lm/W	n.LED	mA*	W	lm/W
1500	12.6	119	16	2 x 110	9.4	159
2500	20.0	125	16	2 x 187	16.3	154
3500	27.4	128	16	2 x 268	23.7	148
4500	33.6	134	24	2 x 227	29.9	151
6000	47.1	127	24	2 x 310	41.4	145
7500	57.2	131	32	2 x 289	51.2	146

- \*\* The energetic values in the table are referred to the LED + Power supply.  
 \* LED module current with two parallel circuits  
 - CCT 2200K and 2700K on demand.  
 - LED type: Lumileds Luxeon 5050  
 Source efficiency LED: 164 lm/W @ Tj=25°C, 800 mA, 3000K  
 Source efficiency LED: 169 lm/W @ Tj=25°C, 800 mA, 4000K  
 - Life time specification for gradual light output degradation (EN 62722-2-1, LM80 data) 100,000h L90B10 (Tq = 25°C)  
 - Colour Rendering Index:  $\geq 70$   
 - Angular color uniformity  $\Delta u'v' \leq 0.003$   
 - Photobiological risk: (EN 62471): RG1 Unlimited

## Driver

## Driver functions

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

DALI + NCL (Digital control + Neri Constant Lumen)

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

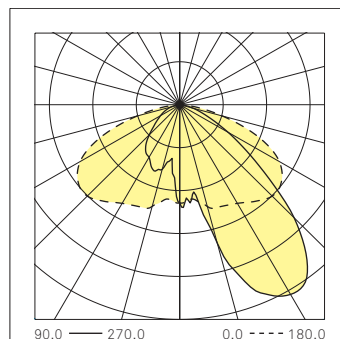
AmpDim + NCL (Flux regulator + Neri Constant Lumen)

Zhaga connector+ SR

## POLAR DIAGRAMS

## Type II - D

Luminous intensity class G\*6

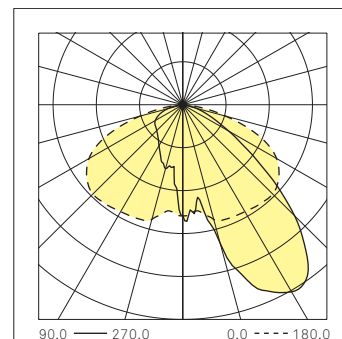


CIE flux code				
N.1	N.2	N.3	N.4	N.5
41	78	96	100	100



## Type III - B

Luminous intensity class G\*6

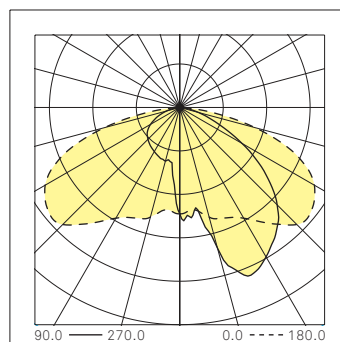


CIE flux code				
N.1	N.2	N.3	N.4	N.5
41	77	96	100	100



## Type III - C

Luminous intensity class G\*2

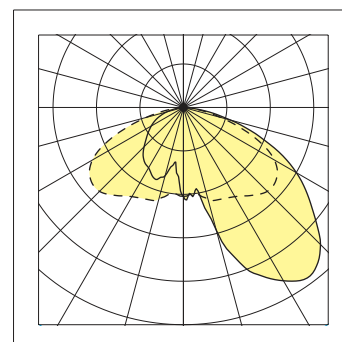


CIE flux code				
N.1	N.2	N.3	N.4	N.5
36	73	95	100	100



## Type III - H

Luminous intensity class G\*6

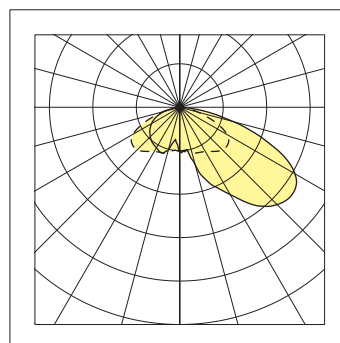


CIE flux code				
N.1	N.2	N.3	N.4	N.5
35	73	95	100	100



## Type IV - A

Luminous intensity class G\*2

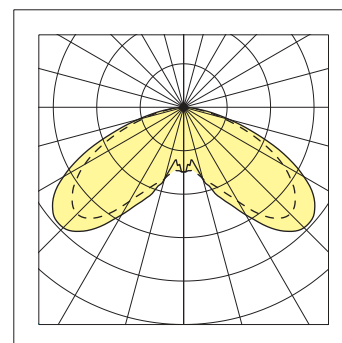


CIE flux code				
N.1	N.2	N.3	N.4	N.5
29	67	94	100	100



## Type V - A

Luminous intensity class G\*6



CIE flux code				
N.1	N.2	N.3	N.4	N.5
27	69	95	100	100

