NERI

Lyra
Cod. **LULYR**

Fixing:
Post-top

Technical sheet
Rev. 05 - 2024/06/06

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^2

Electrical characteristics

Voltage	Frequency	Cos ϕ	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 Ø 60mm, flush on Ø 76mm.

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

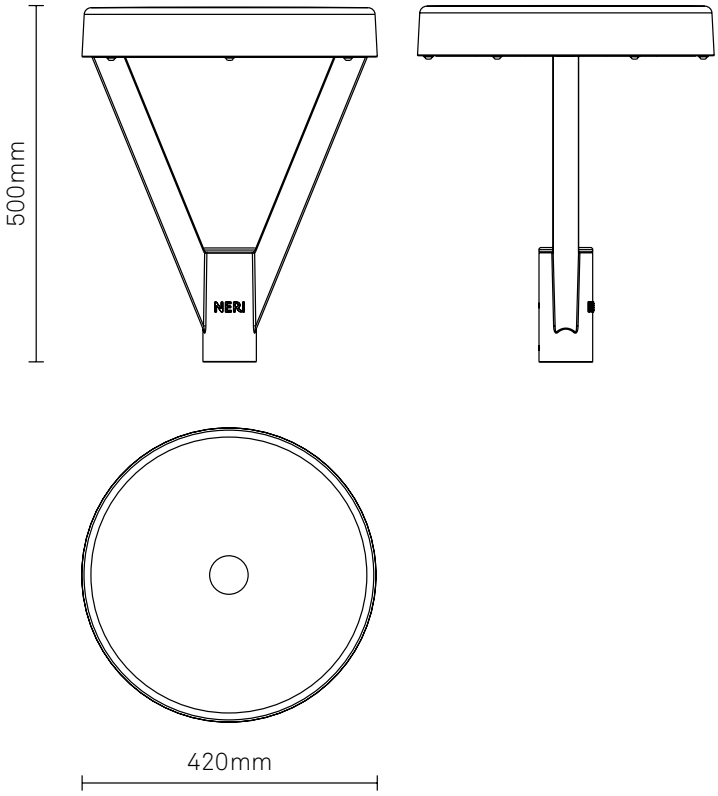
Structure – Main components
- Upper shell opening through screws with predisposition for auxiliary devices in compliant with Zhaga Book 18.
- Lower skirt frame in die-cast aluminum.
- White internal reflector.
- Shield in flat tempered glass with impact resistance (EN 62262) IK09 (trasnparent glass) and IK08 (prismatic glass).
- 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^2.
- Power cable with customizable lenght.
- 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



NERI

Lyra
Cod. **LULYR**

Optics: Type II - III - IV - V
Screen: Transparent

Technical sheet
Rev. 05 - 2024/06/06

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 γ ≥ 90°: < 0.49 cd/klm.
- Wide range of optical lighting distributions (on request).
- Internal reflector for luminous flux recovery and glare reduction.

Luminous Flux - 3000K

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
10500	83,0	126	32	2 x 415	75,1	140
9000	69,1	130	32	2 x 350	62,6	144
7500	59,2	127	24	2 x 393	53,2	141
6000	46,7	129	24	2 x 307	41,0	146
4500	35,1	128	16	2 x 350	31,3	144
3500	27,2	129	16	2 x 266	23,4	149
2500	19,9	126	16	2 x 186	16,1	155
1500	12,5	120	16	2 x 109	9,3	161

Luminous Flux - 4000K

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
10500	79,2	133	32	2 x 396	71,4	147
9000	65,9	137	32	2 x 334	59,6	151
7500	56,5	133	24	2 x 375	50,5	148
6000	44,6	134	24	2 x 293	39,0	154
4500	33,6	134	16	2 x 334	29,8	151
3500	26,1	134	16	2 x 254	22,3	157
2500	19,1	131	16	2 x 177	15,4	163
1500	12,0	125	16	2 x 105	8,9	168

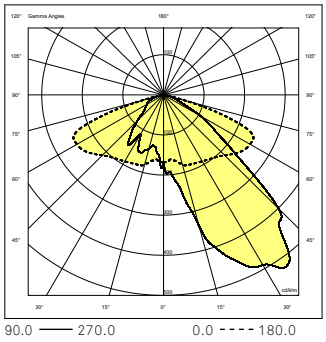
**The energetic values in the table are referred to the LED + Power supply.
- CCT 2200K and 2700K on demand.
- LED type: Lumileds Luxeon 5050
  Source efficiency LED: 164 lm/W @ Tj=25°C, 800 mA, 3000K
  Source efficiency LED: 169 lm/W @ Tj=25°C, 800 mA, 4000K
- Life time specification for gradual light output degradation
  (EN 62722-2-1, LM80 data) 100,000h L90B10 (Tq = 25°C)
- Colour Rendering Index: ≥ 70
- Angular color uniformity Δu'v' ≤ 0.003
- Photobiological risk: (IEC/TR 62778): 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 regolator + Neri Constant Lumen)
Zhaga connector+ SR

POLAR DIAGRAMS

Type II – D

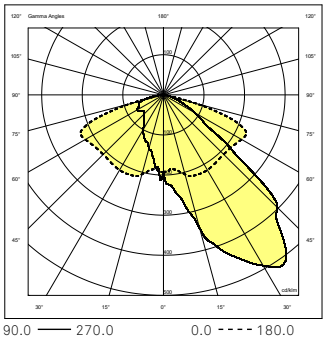
Luminous intensity class G*4



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

Type III - B

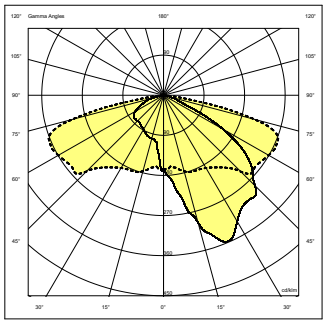
Luminous intensity class G*4



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

Type III - C

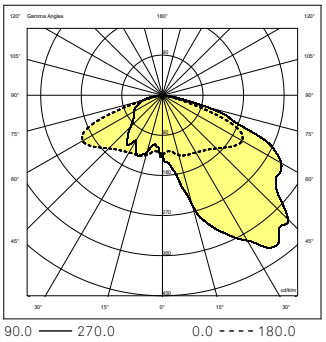
Luminous intensity class G*2



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

Type III - H

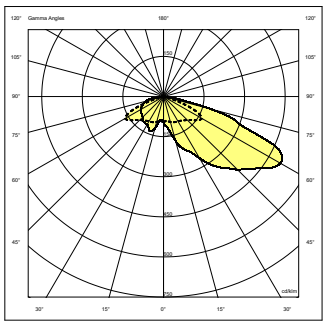
Luminous intensity class G*4



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

Type IV - A

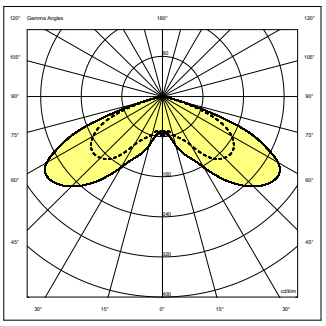
Luminous intensity class G*2



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

NERI

Lyra
Cod. **LULYR**

Optics: Type II - III - IV - V
Screen: Prismatic

Technical sheet
Rev. 05 - 2024/06/06

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 **γ ≥** 90°: < 0.49 cd/klm.
- Wide range of optical lighting distributions (on request).
- Internal reflector for luminous flux recovery and glare reduction.

Luminous Flux - 3000K

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
9000	74,2	121	32	2 x 370	66,5	135
7500	59,9	125	32	2 x 303	53,8	139
6000	49,2	122	24	2 x 325	43,5	138
4500	35,1	128	24	2 x 238	31,3	144
3500	28,6	122	16	2 x 281	24,9	141
2500	20,8	120	16	2 x 196	17,1	147
1500	13,1	114	16	2 x 115	9,8	152

Luminous Flux - 4000K

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
9000	70,8	127	32	2 x 353	63,3	142
7500	57,2	131	32	2 x 289	51,2	146
6000	47,1	127	24	2 x 310	41,4	145
4500	33,6	134	24	2 x 227	29,9	151
3500	27,4	128	16	2 x 268	23,7	148
2500	20,0	125	16	2 x 187	16,3	154
1500	12,6	119	16	2 x 110	9,4	159

**The energetic values in the table are referred to the LED + Power supply.
- 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: ≥ 70
- Angular color uniformity Δu'v' ≤ 0.003
- Photobiological risk: (IEC/TR 62778): 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)

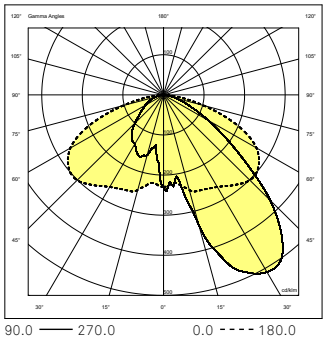
AmpDim + NCL (Flux regolator + Neri Constant Lumen)

Zhaga connector+ SR

POLAR DIAGRAMS

Type II – D

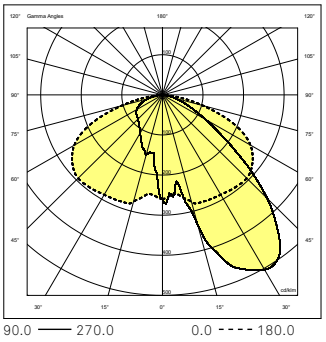
Luminous intensity class G*6



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

Type III - B

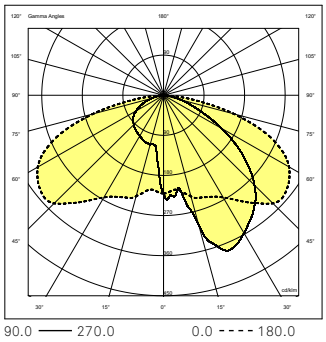
Luminous intensity class G*6



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

Type III - C

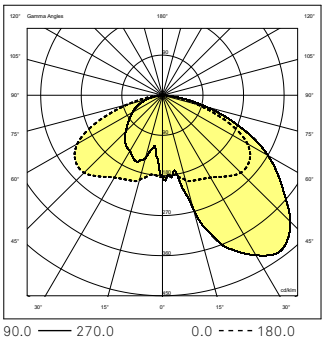
Luminous intensity class G*2



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

Type III - H

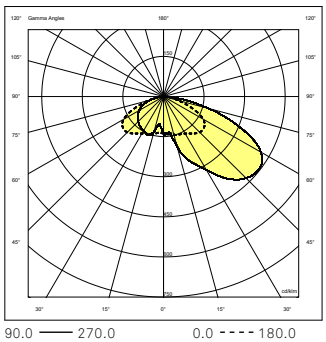
Luminous intensity class G*6



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

Type IV - A

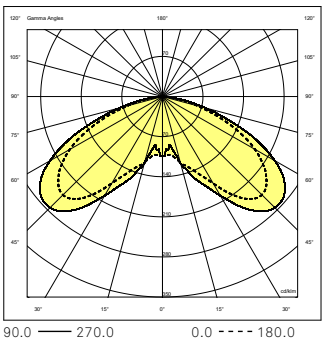
Luminous intensity class G*2



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