

# NERI

Light 806  
Cod. **LU80600**



Connection:  
Post-top

Technical sheet  
Rev. 00 - 2022/04/19

## DESCRIPTION

### Product benefits

- LED Current < 400 mA
- Tool-less opening
- Standard surge protection for differential/common mode 10kV/10kV
- Wide range of optical lighting distributions (on request)
- Main body in die-cast aluminum
- Automatic disconnection switch on opening.
- Shield in extra-clear and prismatic tempered glass
- House side shield

### 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.



### Dimensions - Area - Weight

Height	Width	Length	Weight	IP	IK	Area exposed to wind
530 mm	393 mm	393 mm	8.9 kg	66	09	0.07 m <sup>2</sup>

### Electrical characteristics

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50-60Hz	>0.9	CL II	-25°C / Ta*

\* Ta +50°C | 1.500lm-4.500lm, CCT 3000K/4000K  
Ta +25°C | 6.000lm-7.500lm, CCT 3000K/4000K

- 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).
- Extra clear transparent and prismatic tempered flat glass.
- Polycarbonate.
- Stainless steel fasteners.

### Structure - Main components

- Tilting upper square frame made in die-cast aluminum.
- Bottom frame made in die-cast aluminum with four curved bracket with flange and a hole ( $\varnothing$  28 mm) for attachment to the support.
- Shield in flat tempered glass with impact resistance (EN 62262) IK09 (transparent glass) and IK07 (prismatic glass).
- White internal reflector.
- Silicone gasket between the upper and lower frames.
- Dedicated space for any surge protection devices or remote control systems.

### 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 mm<sup>2</sup> cross-section.
- Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

### Operations - Maintenance

- Tool-less opening.
- 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.

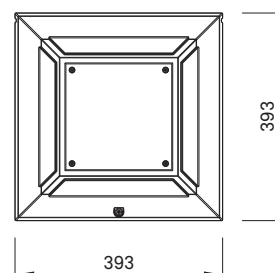
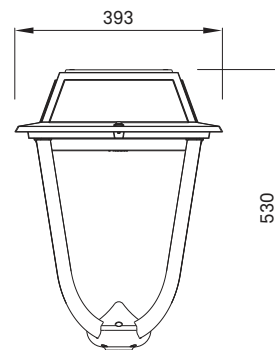
### Painting

- Standard colors: Neri grey, pure white (RAL9010), jet black (RAL9005), moss green (RAL6005), white aluminium (RAL9006), grey aluminium (RAL9007).
- Painting cycles (see specific sheet).

### Accessories

- Zhaga connector.
- NEMA Socket (3 or 7 pin).
- Power cable with quick connector.

## 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%

\* 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).

## Luminous Flux - 3000K, Tq=25°C

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	13.3	112	16	2 x 117	10.0	149
2500	21.2	118	16	2 x 200	17.4	144
3500	27.9	125	24	2 x 186	24.2	145
4500	35.8	126	24	2 x 243	32.0	141
6000	48.4	124	32	2 x 243	42.7	141
7500	61.1	123	32	2 x 309	55.0	136

## Luminous Flux - 4000K, Tq=25°C

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	12.7	118	16	2 x 111	9.5	158
2500	20.2	124	16	2 x 190	16.5	152
3500	26.7	131	24	2 x 176	22.9	153
4500	34.0	132	24	2 x 230	30.2	149
6000	46.0	130	32	2 x 230	40.3	149
7500	57.9	130	32	2 x 293	51.9	145

\*\* The energetic values in the table are referred to the LED + Power supply.  
- CCT 2200K and 2700K on request.  
- 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:  $\geq 80$  (70 on request)  
- Angular color uniformity  $\Delta u'v' \leq 0.003$   
- Photobiological risk: (IEC/TR 62778): RG1 Unlimited

## Driver

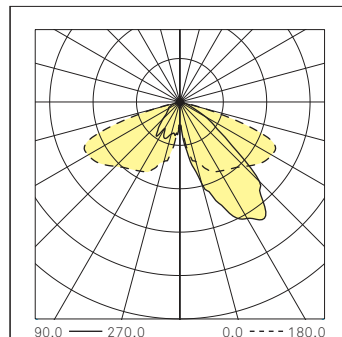
## Driver functions

**ON-OFF + NCL** (On-Off + Neri Constant Lumen)**1-10V + NCL** (Analogic control + Neri Constant Lumen)**AmpDim + NCL** (Flux regulator + Neri Constant Lumen)**DALI + NCL** (Digital control + Neri Constant Lumen)**NVL6H + NCL** (Autodimming -30% x 6h + Neri Constant Lumen)**Zhaga connector-D4i**

## POLAR DIAGRAMS

## Type II - D

Luminous intensity class G\*3



## CIE flux code

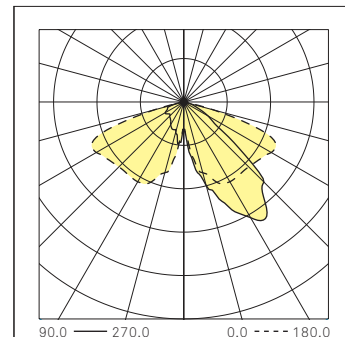
N.1 N.2 N.3 N.4 N.5

37 75 98 100 100



## Type III - B

Luminous intensity class G\*4



## CIE flux code

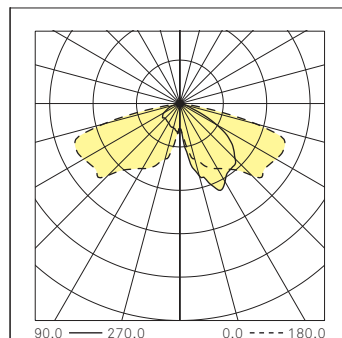
N.1 N.2 N.3 N.4 N.5

38 75 97 100 100



## Type III - C

Luminous intensity class G\*2



## CIE flux code

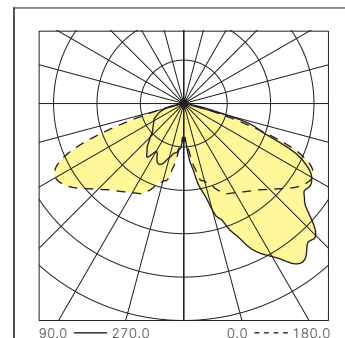
N.1 N.2 N.3 N.4 N.5

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 69 96 100 100



## DESCRIPTION

## Optic configuration - Transparent screen

Lighting distribution	Distribution type	LOR*	ULOR
Type IV - A	Forward throw	100%	0%
Type IV - C	Forward throw	100%	0%
Type I - A	Center road	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).

Luminous Flux - 3000K, T<sub>q</sub>=25°C

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	13.3	112	16	2 x 117	10.0	149
2500	21.2	118	16	2 x 200	17.4	144
3500	27.9	125	24	2 x 186	24.2	145
4500	35.8	126	24	2 x 243	32.0	141
6000	48.4	124	32	2 x 243	42.7	141
7500	61.1	123	32	2 x 309	55.0	136

Luminous Flux - 4000K, T<sub>q</sub>=25°C

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	12.7	118	16	2 x 111	9.5	158
2500	20.2	124	16	2 x 190	16.5	152
3500	26.7	131	24	2 x 176	22.9	153
4500	34.0	132	24	2 x 230	30.2	149
6000	46.0	130	32	2 x 230	40.3	149
7500	57.9	130	32	2 x 293	51.9	145

\*\* The energetic values in the table are referred to the LED + Power supply.  
- CCT 2200K and 2700K on request.  
- LED type: Lumileds Luxeon 5050  
Source efficiency LED: 164 lm/W @ T<sub>j</sub>=25°C, 800 mA, 3000K  
Source efficiency LED: 169 lm/W @ T<sub>j</sub>=25°C, 800 mA, 4000K  
- Life time specification for gradual light output degradation (EN 62722-2-1, LM80 data) 100,000h L90B10 (T<sub>q</sub> = 25°C)  
- Colour Rendering Index:  $\geq 70$  (80 on request)  
- Angular color uniformity  $\Delta u'v' \leq 0.003$   
- Photobiological risk: (IEC/TR 62778): RG1 Unlimited

## Driver

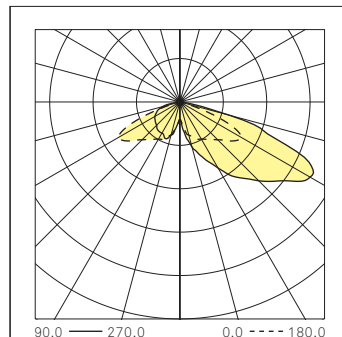
## Driver functions

**ON-OFF + NCL** (On-Off + Neri Constant Lumen)**1-10V + NCL** (Analogic control + Neri Constant Lumen)**AmpDim + NCL** (Flux regulator + Neri Constant Lumen)**DALI + NCL** (Digital control + Neri Constant Lumen)**NVL6H + NCL** (Autodimming -30% x 6h + Neri Constant Lumen)**Zhaga connector-D4i**

## POLAR DIAGRAMS

## Type IV - A

Luminous intensity class G\*3



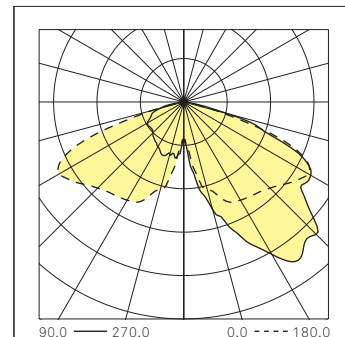
## CIE flux code

N.1	N.2	N.3	N.4	N.5
25	62	95	100	100



## Type IV - C

Luminous intensity class G\*4



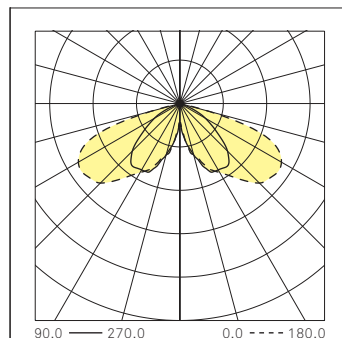
## CIE flux code

N.1	N.2	N.3	N.4	N.5
32	69	96	100	100



## Type I - A

Luminous intensity class G\*6



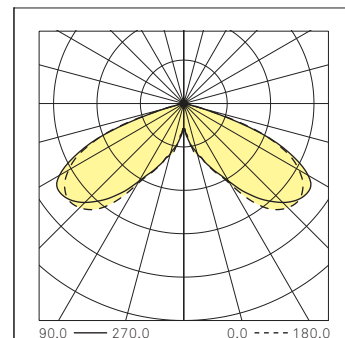
## CIE flux code

N.1	N.2	N.3	N.4	N.5
36	79	99	100	100



## Type V - A

Luminous intensity class G\*6



## CIE flux code

N.1	N.2	N.3	N.4	N.5
24	67	97	100	100



## DESCRIPTION

## Optic configuration - Transparent prismatic

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%

\* 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).

## Luminous Flux - 3000K, Tq=25°C

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	14.0	107	16	2 x 124	10.6	141
2500	22.2	112	16	2 x 212	18.5	135
3500	30.7	114	16	2 x 304	27.0	130
4500	37.9	119	24	2 x 257	34.0	132
6000	53.1	113	24	2 x 352	47.3	127
7500	64.7	116	32	2 x 328	58.5	128

## Luminous Flux - 4000K, Tq=25°C

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	13.4	112	16	2 x 118	10.1	149
2500	21.2	118	16	2 x 200	17.5	143
3500	28.0	125	24	2 x 186	24.3	144
4500	35.9	125	24	2 x 243	32.1	140
6000	48.5	124	32	2 x 243	42.8	140
7500	61.2	122	32	2 x 310	55.1	136

\*\* The energetic values in the table are referred to the LED + Power supply.  
- CCT 2200K and 2700K on request.  
- 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:  $\geq 80$  (70 on request)  
- Angular color uniformity  $\Delta u'v' \leq 0.003$   
- Photobiological risk: (IEC/TR 62778): RG1 Unlimited

## Driver

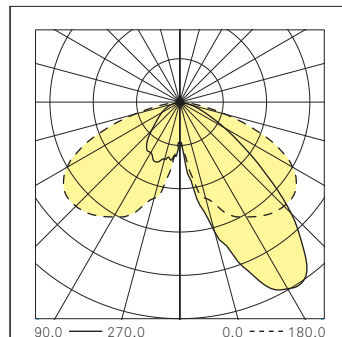
## Driver functions

**ON-OFF + NCL** (On-Off + Neri Constant Lumen)**1-10V + NCL** (Analogic control + Neri Constant Lumen)**AmpDim + NCL** (Flux regulator + Neri Constant Lumen)**DALI + NCL** (Digital control + Neri Constant Lumen)**NVL6H + NCL** (Autodimming -30% x 6h + Neri Constant Lumen)**Zhaga connector-D4i**

## POLAR DIAGRAMS

## Type II - D

Luminous intensity class G\*3



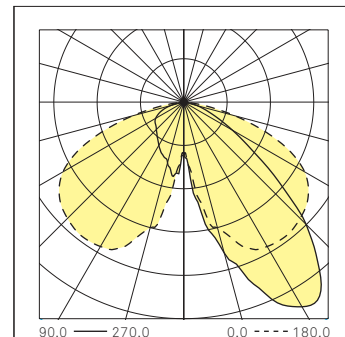
## CIE flux code

N.1	N.2	N.3	N.4	N.5
37	75	98	100	100



## Type III - B

Luminous intensity class G\*4



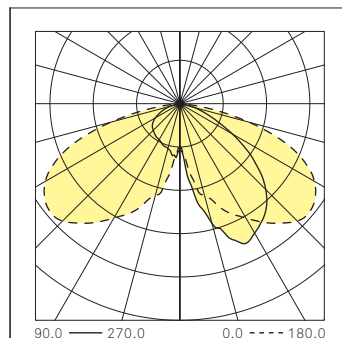
## CIE flux code

N.1	N.2	N.3	N.4	N.5
38	75	97	100	100



## Type III - C

Luminous intensity class G\*2



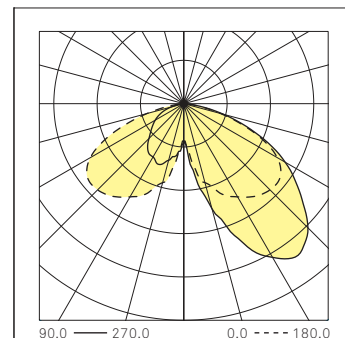
## CIE flux code

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	69	96	100	100



## DESCRIPTION

## Optic configuration - Transparent prismatic

Lighting distribution	Distribution type	LOR*	ULOR
Type IV - A	Forward throw	100%	0%
Type IV - C	Forward throw	100%	0%
Type I - A	Center road	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).

Luminous Flux - 3000K, T<sub>q</sub>=25°C

System**			LED Module			
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1500	14.0	107	16	2 x 124	10.6	141
2500	22.2	112	16	2 x 212	18.5	135
3500	30.7	114	16	2 x 304	27.0	130
4500	37.9	119	24	2 x 257	34.0	132
6000	53.1	113	24	2 x 352	47.3	127
7500	64.7	116	32	2 x 328	58.5	128

Luminous Flux - 4000K, T<sub>q</sub>=25°C

System**			LED Module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	13.4	112	16	2 x 118	10.1	149
2500	21.2	118	16	2 x 200	17.5	143
3500	28.0	125	24	2 x 186	24.3	144
4500	35.9	125	24	2 x 243	32.1	140
6000	48.5	124	32	2 x 243	42.8	140
7500	61.2	122	32	2 x 310	55.1	136

\*\* The energetic values in the table are referred to the LED + Power supply.  
- CCT 2200K and 2700K on request.  
- LED type: Lumileds Luxeon 5050  
Source efficiency LED: 164 lm/W @ T<sub>j</sub>=25°C, 800 mA, 3000K  
Source efficiency LED: 169 lm/W @ T<sub>j</sub>=25°C, 800 mA, 4000K  
- Life time specification for gradual light output degradation (EN 62722-2-1, LM80 data) 100,000h L90B10 (T<sub>q</sub> = 25°C)  
- Colour Rendering Index:  $\geq 70$  (80 on request)  
- Angular color uniformity  $\Delta u'v' \leq 0.003$   
- Photobiological risk: (IEC/TR 62778): RG1 Unlimited

## Driver

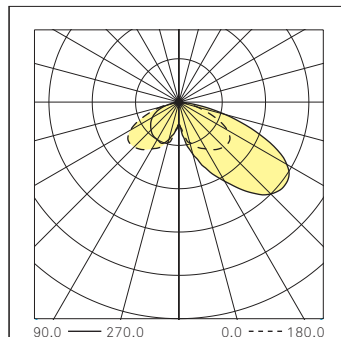
## Driver functions

**ON-OFF + NCL** (On-Off + Neri Constant Lumen)**1-10V + NCL** (Analogic control + Neri Constant Lumen)**AmpDim + NCL** (Flux regulator + Neri Constant Lumen)**DALI + NCL** (Digital control + Neri Constant Lumen)**NVL6H + NCL** (Autodimming -30% x 6h + Neri Constant Lumen)**Zhaga connector-D4i**

## POLAR DIAGRAMS

## Type IV - A

Luminous intensity class G\*3



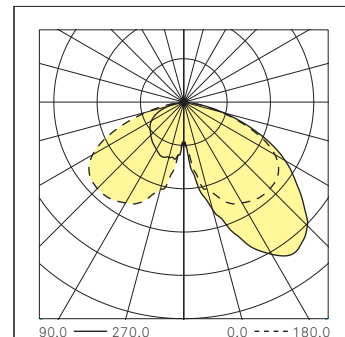
## CIE flux code

N.1	N.2	N.3	N.4	N.5
25	62	95	100	100



## Type IV - C

Luminous intensity class G\*4



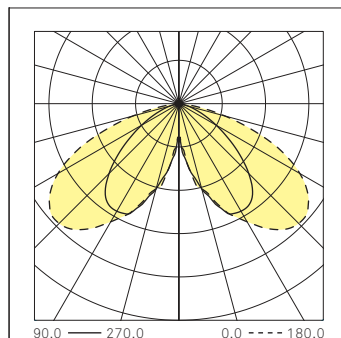
## CIE flux code

N.1	N.2	N.3	N.4	N.5
32	69	96	100	100



## Type I - A

Luminous intensity class G\*6



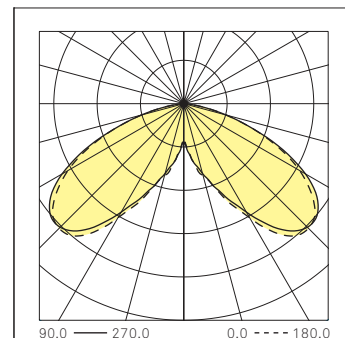
## CIE flux code

N.1	N.2	N.3	N.4	N.5
36	79	99	100	100



## Type V - A

Luminous intensity class G\*6



## CIE flux code

N.1	N.2	N.3	N.4	N.5
24	67	97	100	100

