NERI

Light 803
Cod. **SN803**

Connection:
Suspended

Technical sheet
Rev. 04 - 2020/05/12

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	Lenght	Weight	IP	IK	Area exposed to wind
815 mm	445 mm	445 mm	8 kg	66*	09	0,225 m^2

*Module

Electrical characteristics

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

- Classe I of insulation (on request).

Connection
- Suspended: G3/4" male threaded connection.

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
- Aluminium upper tilting frame for access to the auxiliary compartment.
- Optical compartment with IP66 degree of protection.
- Polycarbonate platform.
- Protective screen in tempered glass extra clear transparent top with impact resistance IK09 (EN 62262).
- 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.

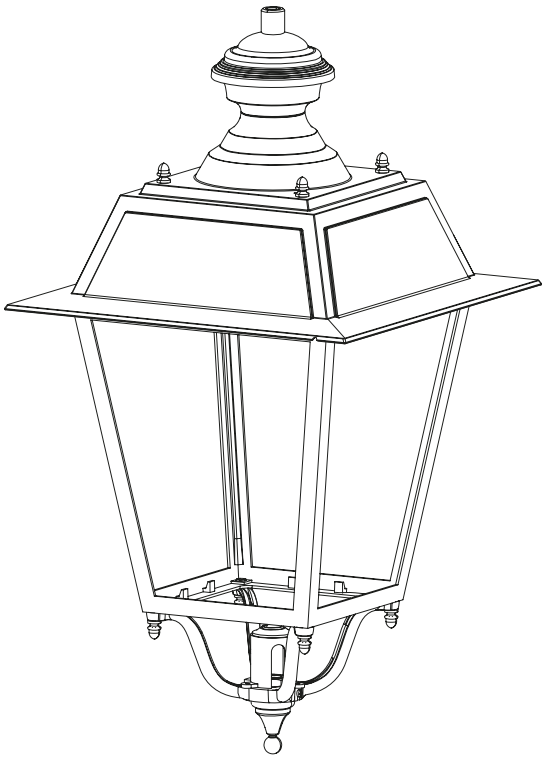
Electrical Auxiliaries
- Electronic power supply with short-circuit, overtemperature and overvoltage protection with estimated life time B10 at 100,000 h.
- Automatic disconnection switch on opening.
- Terminal block for cables with max. 2.5 mm2 cross-section.
- Standard DM and CM 6kV/10kV (CL I, CL II) differential mode overvoltage protection and 10kV/10kV (CL I, CL II) additional protection (on request).

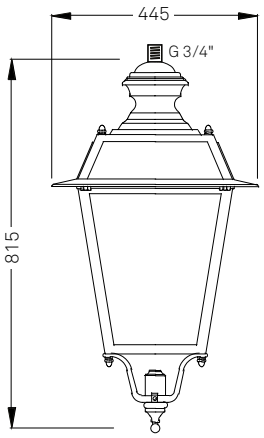
Operations - Maintenance
- During maintenance no screws or components are separated from the structure.
- Periodic maintenance for external cleaning of the structure and the screen from dust and smog and for checking the tightening of the product.
- Refer to the product installation and maintenance manual.
- It is the responsibility of the installer to ensure correct installation and electrical connection in accordance with applicable regulations.

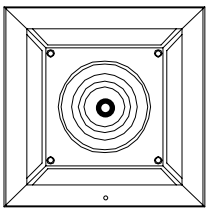
Painting
- Standard colour: Black Grey.
- Painting cycles (see specific sheet).

Accessories
- PIR presence sensor (driver function code 09).
- Infrared programmer for presence sensor (cod. 7019.030.002).
- Polycarbonate screen with IK10 shock resistance on request (cod. 7060.041.107D).

DRAWINGS







NERI

Light 803
Cod. **PN803T**
Cod. **SN803T**

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

Technical sheet
Rev. 04 - 2020/05/12

DESCRIPTION

Optic

Cod. XX	Lighting distribution	Distribution type	LOR*	ULOR
20	Type II - A	Asymmetric	0,86	9%
21	Type III - A	Asymmetric	0,86	9%
24	Type IV- A	Strong asymmetric	0,82	9%
28	Type I - A	Center road	0,88	9%
30	Type V - A	Rotosymmetric	0,86	10%

* optical efficiency of the device due to physical shielding.
- Modular (2 X 2) refractive lens in PMMA.
- Maximum luminous intensity class $\gamma \geq 90°$: < 0.49 cd/klm.
- Wide range of optical lighting distributions (on request).
- Minimum height installation: 2.5m.

Luminous flux

3000K		System*		LED module			
Cod. YYY	**lm**	**W**	**lm/W**	**n.LED**	**mA**	**W**	**lm/W**
1IA	1500	11,7	129	16	219	9,6	157
1I0	2500	20,1	125	16	376	16,9	148
1I1	3500	29,1	120	16	549	25,1	140
1I2	4500	36,4	124	24	460	31,3	144
1I3	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**
3IA	1500	11,3	133	16	209	9,1	165
3I0	2500	19,3	130	16	358	16,0	156
3I1	3500	27,9	125	16	521	23,7	147
3I2	4500	34,5	130	24	438	29,7	152
3I3	6000	48,1	125	24	609	41,8	143
3I4	7500	62,1	121	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.

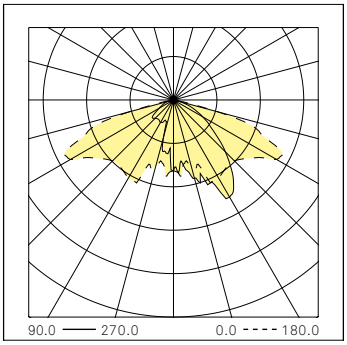
Driver

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

PHOTOMETRIC CURVES

Type II – A

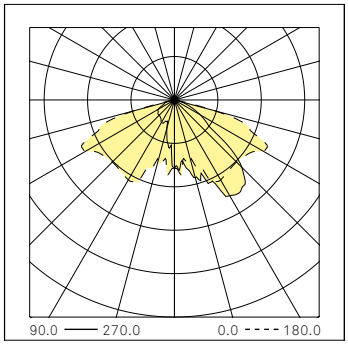
Luminous intensity class G*4



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
38	73	96	100	86

Type III - A

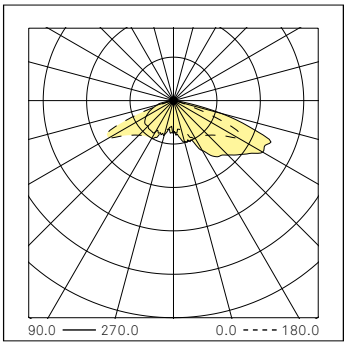
Luminous intensity class G*4



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
38	73	97	100	86

Type IV - A

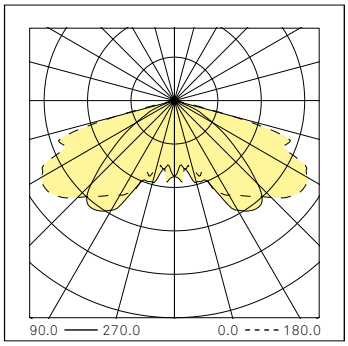
Luminous intensity class G*4



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
25	59	94	100	82

Type I - A

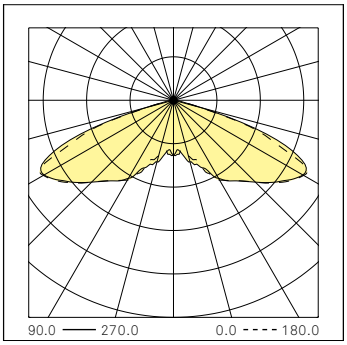
Luminous intensity class G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
36	77	98	100	88

Type V - A

Luminous intensity class G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
22	59	95	100	86

NERI

Light 803
Cod. **PN803P**
Cod. **SN803P**

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

Technical sheet
Rev. 04 - 2020/05/12

DESCRIPTION

Optic - Prismatic glass

Cod. XX	Lighting distribution	Distribution type	LOR*	ULOR
20	Type II - A	Asymmetric	0,91	9%
21	Type III - A	Asymmetric	0,91	9%
24	Type IV- A	Strong asymmetric	0,81	9%
28	Type I - A	Center road	0,89	9%
30	Type V - A	Rotosymmetric	0,84	10%

* optical efficiency of the device due to physical shielding.
- Modular (2 X 2) refractive lens in PMMA.
- Maximum luminous intensity class $\gamma \geq 90°$: < 0.49 cd/klm.
- Wide range of optical lighting distributions (on request).
- Minimum height installation: 2.5m.

Luminous flux

3000K		System*		LED module			
Cod. YYY	**lm**	**W**	**lm/W**	**n.LED**	**mA**	**W**	**lm/W**
1IA	1500	12,6	119	16	235	10,3	145
1I0	2500	21,5	116	16	406	18,3	137
1I1	3500	31,4	111	16	597	27,3	128
1I2	4500	38,7	116	24	499	34,0	132
1I3	6000	54,9	109	24	699	48,3	124

Luminous flux

4000K		System*		LED module			
Cod. YYY	**lm**	**W**	**lm/W**	**n.LED**	**mA**	**W**	**lm/W**
3IA	1500	12,0	125	16	225	9,8	152
3I0	2500	20,4	122	16	387	17,4	144
3I1	3500	29,7	118	16	566	25,9	135
3I2	4500	36,6	123	24	474	32,2	140
3I3	6000	51,9	116	24	662	45,7	131

* 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.

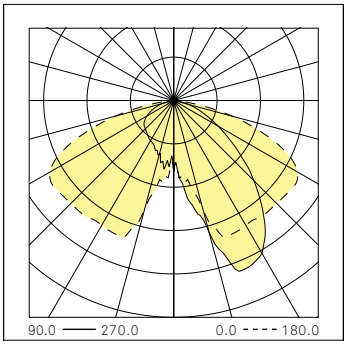
Driver

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

PHOTOMETRIC CURVES

Type II – A

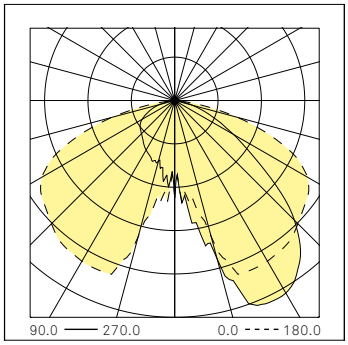
Luminous intensity class G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
38	73	96	100	86

Type III - A

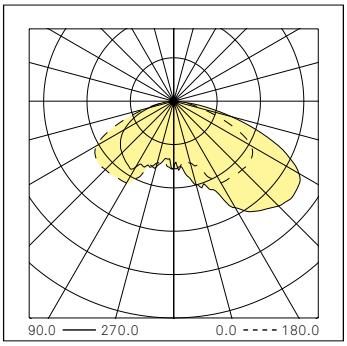
Luminous intensity class G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
38	73	97	100	86

Type IV - A

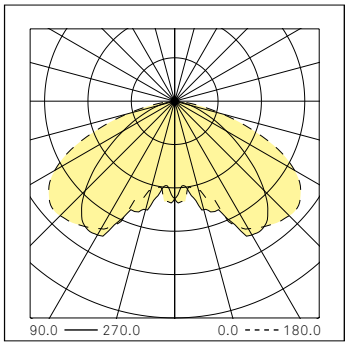
Luminous intensity class G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
25	59	94	100	82

Type I - A

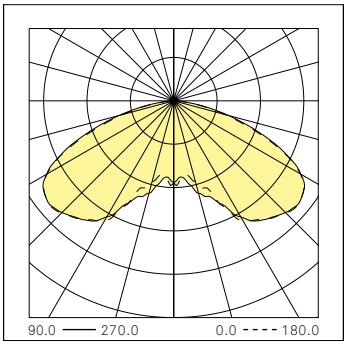
Luminous intensity class G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
36	77	98	100	88

Type V - A

Luminous intensity class G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
22	59	95	100	86

NERI

Light 803
Cod. **PN803O**
Cod. **SN803O**

Optics: I - II - III - IV - V
Screen: Opal-white

Technical sheet
Rev. 04 - 2020/05/12

DESCRIPTION

Optic - Opal-white glass

Cod. XX	Lighting distribution	Distribution type	LOR*	ULOR
30	Type V - A	Rotosymmetric	0,87	0%

* optical efficiency of the device due to physical shielding.
- Maximum luminous intensity class $\gamma \geq 90°$: < 0.49 cd/klm.
- Minimum height installation: 2.5m.

Luminous flux

3000K		System*		LED module			
Cod. YYY	**lm**	**W**	**lm/W**	**n.LED**	**mA**	**W**	**lm/W**
1IA	1500	19,2	78	16	356	15,9	94
1I0	2500	33,6	74	16	636	29,2	86
1I1	3500	46,8	75	24	587	40,2	87
1I2	4500	62,5	72	24	792	55,0	82

Luminous flux

4000K		System*		LED module			
Cod. YYY	**lm**	**W**	**lm/W**	**n.LED**	**mA**	**W**	**lm/W**
3IA	1500	18,3	82	16	339	15,2	99
3I0	2500	31,8	79	16	603	27,6	90
3I1	3500	44,3	79	24	557	38,1	92
3I2	4500	59,0	76	24	750	52,0	87

* 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.

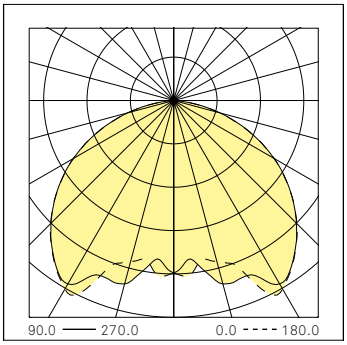
Driver

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

PHOTOMETRIC CURVES

Type V - A

Luminous intensity class	G*6



Flux code CIE				
N.1	N.2	N.3	N.4	N.5
44	78	95	96	100