

DESCRIPTION

Product benefits

- Wide range of optical lighting distributions (on request)
- Separate compartments between wiring and lighting source
- Photobiological Risk (EN 62471): RG1 Unlimited
- Visual Comfort
- Main body in die-cast aluminum
- Superdurable painting cycle

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	Lenght	Weight	IP	IK	Area exposed to wind
123-250mm	280 mm	566 mm	9,2 Kg	66	09	0,066 m ²

Electrical characteristics

Voltage	Frequency	Cos ϕ	Insulation class	Operative Temp.
220-240V	50-60Hz	>0.9	CL II $\square$ - CLI $\oplus$	-40°C / +50°C

Connection

- Side or post top mounting on tubes from $\varnothing$ 60mm.
- Bracket with a tilting system of 20° (5° step).
- Adjustable from 0° to +20° with post top configuration and from -5° to +15° with outreach configuration.
- Fixing by two grub screws M8 lock nuts with stainless steel.

Materials

- Die-cast aluminium (UNI EN 1706)
- Extra-clear transparent flat glass.
- Stainless steel screws.
- Polycarbonate (PC).

Structure - Main components

- Upper swinging frame in aluminium to access the auxiliaries compartment.
- Shield in flat tempered glass with impact resistance IK09 (EN 62262) fixed by angle brackets.
- Integrated heat sink in cast aluminium in continuity with the external frame.
- Polycarbonate reflector.
- Osmotic valve to balance internal/external pressure.
- Dedicated space for any surge protection devices or remote control systems.

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 2.5mm².
- Input power cable with PG16 cable gland ($\varnothing$ 10-14mm).
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II).

Operations and maintenance

- Opening-closing by means of two screws on the upper hinged cover.
- During maintenance operations no screw or component is separated from the structure.
- 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.

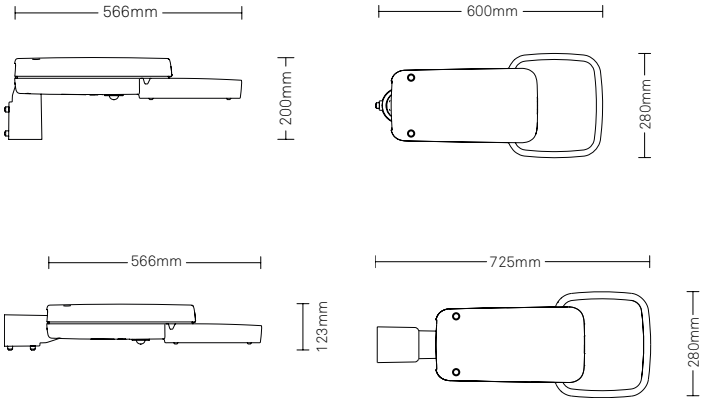
Painting

- Powder coating.
- Monochrome version: light grey metallic matt Superdurable textured RAL 9006 colour.

Accessories

- Side and post top mounting accessory with diameter $\varnothing$ 60mm (tubes from $\varnothing$ 46mm to $\varnothing$ 60mm, external diameter $\varnothing$ 76mm).
- Extra-clear transparent silk screened flat glass.
- Automatic disconnector when opening.
- PIR presence detector.
- Infrared programmer for presence detector (code 7019.030.002).
- Surge protection for differential/common mode 10kV/10kV (CL I, CL II).
- Zhaga connector.
- NEMA Socket (3 or 7 pole).

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).
- Internal reflector for luminous flux recovery and glare reduction.
- Minimum height installation: 3.00m.

Luminous Flux - 3000K

System**		LED Module				
lm	W	lm/W	n.LED	mA*	W	lm/W
2500	16.8	149	16	2 x 159	13.7	182
3500	23.3	150	16	2 x 227	19.8	176
4500	30.1	150	16	2 x 297	26.4	171
6000	38.9	154	24	2 x 262	34.6	173
7500	49.5	152	24	2 x 334	44.7	168
9000	57.7	156	32	2 x 297	52.8	171
10500	68.8	153	32	2 x 352	63.1	166
12000	81.3	148	32	2 x 409	73.8	163
13500	92.8	146	32	2 x 466	85.1	159

Luminous Flux - 4000K

System**		LED Module				
lm	W	lm/W	n.LED	mA*	W	lm/W
2500	16.1	155	16	2 x 152	13.1	191
3500	22.3	157	16	2 x 217	18.9	185
4500	28.8	156	16	2 x 284	25.1	179
6000	37.1	162	24	2 x 250	33.0	182
7500	47.3	159	24	2 x 318	42.5	176
9000	55.1	163	32	2 x 284	50.2	179
10500	65.4	160	32	2 x 336	60.0	175
12000	77.6	155	32	2 x 389	70.2	171
13500	88.4	153	32	2 x 444	80.8	167

** 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: ≥ 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)

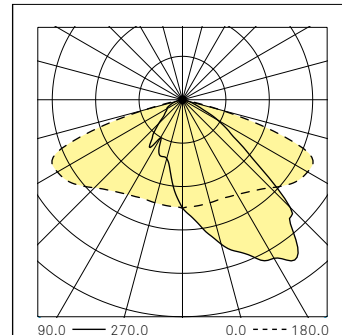
PIR Presence detector + SR

Zhaga connector + SR

POLAR DIAGRAMS

Type II - D

Light intensity class G*4

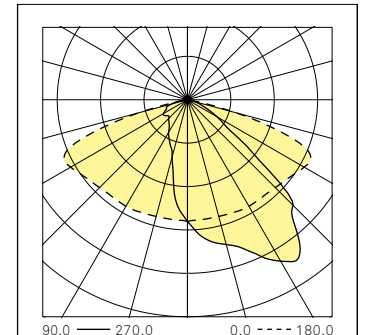


CIE Flux code				
N.1	N.2	N.3	N.4	N.5
39	76	97	100	100



Type III - B

Light intensity class G*4

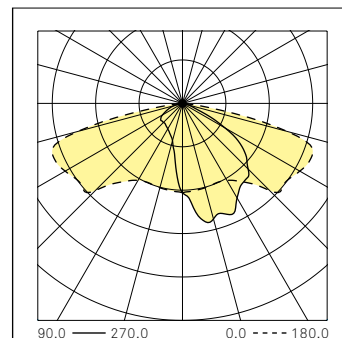


CIE Flux code				
N.1	N.2	N.3	N.4	N.5
40	76	97	100	100



Type III - C

Light intensity class G*2

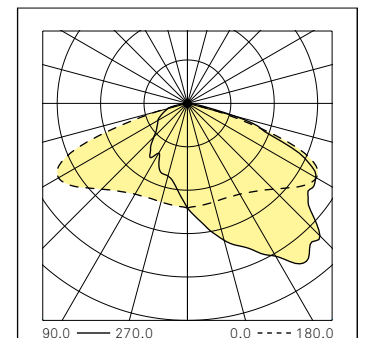


CIE Flux code				
N.1	N.2	N.3	N.4	N.5
34	69	95	100	100



Type III - H

Light intensity class G*4



CIE Flux code				
N.1	N.2	N.3	N.4	N.5
33	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).
- Internal reflector for luminous flux recovery and glare reduction.
- Minimum height installation: 3.00m.

Luminous Flux - 3000K

System**		LED Module				
lm	W	lm/W	n.LED	mA*	W	lm/W
2500	16.8	149	16	2 x 159	13.7	182
3500	23.3	150	16	2 x 227	19.8	176
4500	30.1	150	16	2 x 297	26.4	171
6000	38.9	154	24	2 x 262	34.6	173
7500	49.5	152	24	2 x 334	44.7	168
9000	57.7	156	32	2 x 297	52.8	171
10500	68.8	153	32	2 x 352	63.1	166
12000	81.3	148	32	2 x 409	73.8	163
13500	92.8	146	32	2 x 466	85.1	159

Luminous Flux - 4000K

System**		LED Module				
lm	W	lm/W	n.LED	mA*	W	lm/W
2500	16.1	155	16	2 x 152	13.1	191
3500	22.3	157	16	2 x 217	18.9	185
4500	28.8	156	16	2 x 284	25.1	179
6000	37.1	162	24	2 x 250	33.0	182
7500	47.3	159	24	2 x 318	42.5	176
9000	55.1	163	32	2 x 284	50.2	179
10500	65.4	160	32	2 x 336	60.0	175
12000	77.6	155	32	2 x 389	70.2	171
13500	88.4	153	32	2 x 444	80.8	167

** 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: ≥ 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)

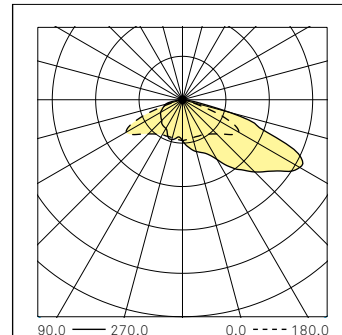
PIR Presence detector + SR

Zhaga connector + SR

POLAR DIAGRAMS

Type IV - A

Light intensity class G*3

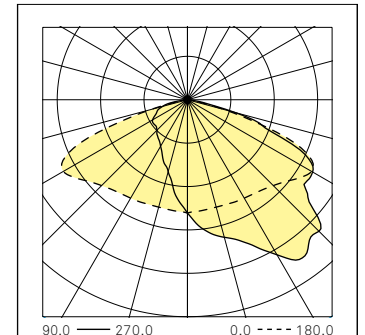


CIE Flux code				
N.1	N.2	N.3	N.4	N.5
26	62	95	100	100



Type IV - C

Light intensity class G*6

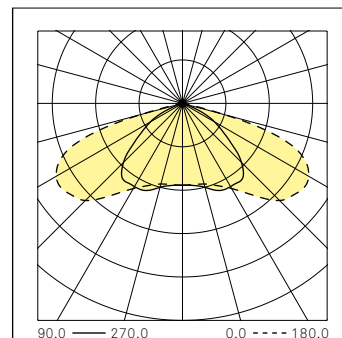


CIE Flux code				
N.1	N.2	N.3	N.4	N.5
33	69	96	100	100



Type I - A

Light intensity class G*6

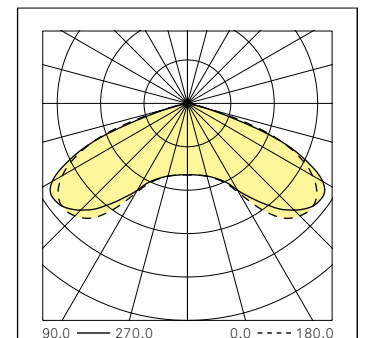


CIE Flux code				
N.1	N.2	N.3	N.4	N.5
38	79	98	100	100



Type V - A

Light intensity class G*6



CIE Flux code				
N.1	N.2	N.3	N.4	N.5
25	67	97	100	100

