

## DESCRIPTION

### Compliance



- ENEC safety mark (pending).
- n 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

Height	Width	Length	Weight	IP	IK	Area (S)
900 mm	105 mm	105 mm	8 Kg	66	08	0.09 m <sup>2</sup>

### Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
220-240V	50/60Hz	> 0.9	CL II	-35°C/+25°C

- Insulation Class I on demand.

### Fixing

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of ± 45°.

### Materials

- Extruded aluminium.
- Galvanized steel.
- Extra clear transparent or prismatic tempered flat glass.
- Stainless or burnished steel fasteners.
- Silicone gaskets.

### Structure – Main components

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass with impact resistance IK 08 (EN 62262).
- Integrated heat sink in aluminium.
- Central cover in aluminium sheet to access the tilting adjustment dedicated compartment.
- Osmotic valve to balance internal/external pressure.
- Dedicated space for surge protection devices or remote control systems.

### Electrical features

- Electronic power supply with protection against short circuits, overheating and power surges.
- Input power cable with PG13.5 cable gland (Ø 6 - 12 mm).
- Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

### Operations and maintenance

- Please refer to the installation and maintenance manual of the product.
- It is responsibility of the installer the correct installation and electric connection in accordance with applicable regulations.

### Finish

- Powder coating or anodising.

#### Powder coating:

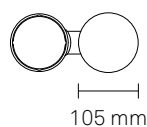
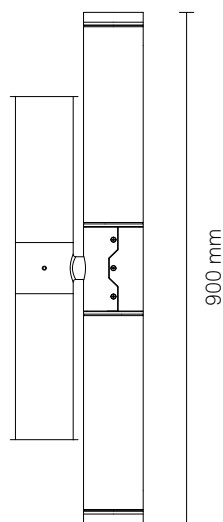
- Neri grey
- Pure white
- White aluminium
- Grey aluminium
- Jet black
- Moss green

#### Anodising:

- Silver anodising
- Gold anodising
- Bronze anodising
- Brown anodising
- Black anodising

- Information about paint steps used on this product in specific technical sheet.

## DRAWINGS



### NEBULA S - ST

Prismatic flat glass - High Power LED  
(Single Lens, PMMA).

Lighting distribution	Screen	LOR	IES Class
Type II	Prismatic	100%	Full Cutoff
Type V	Prismatic	100%	Full Cutoff

- LOR: optical efficiency appliance due to the physical shielding.  
- Refractive lens in PMMA.  
- Minimum installation height: 3m.

### LUMINOUS FLUX

Colour and Colour Temperature			2,700K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
1,000	15.0	67	3	340	11.2

Colour and Colour Temperature			3,000K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
1,000	14.5	69	3	300	10.4

Colour and Colour Temperature			3,500K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
1,000	14.5	69	3	300	10.4

Colour and Colour Temperature			4,000K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
1,000	14.0	71	3	270	9.8

\* The energy values in the table refer to LED module + driver.  
- LED type: NVSLE21A Nichia.  
- Power LEDs module on printed circuit board with metal core plate.  
- Internal heat sink in cast aluminium.  
- Estimated life: 100,000 h L90B10.  
- Colour Rendering Index: CRI > 80 within the 5 ellipses of Mac Adam.  
- Photobiological risk (IEC/TR 62778): class RG1 to class RG2 at 1.5m from source.  
- Photobiological risk (EN62471): class RG0 at 2 m from source.

### DRIVER FUNCTIONS

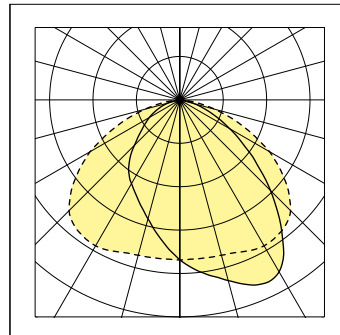
**1-10V** (Analogic control)

**DALI** (Digital control)

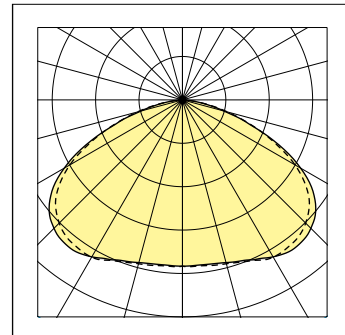
- NFC programmable electronic power supply with self-diagnostic functions.  
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).  
- Estimated Duration B10 to 100,000 h.

### PHOTOMETRIC CURVES

#### Type II



#### Type V



## NEBULA S - PR

Trasparent flat glass - COB LED  
(Reflector, Silicone).

Lighting distribution	Screen	LOR	IES Class
35° Medium narrow spot	Transparent	100%	Full Cutoff
60° Medium flood	Transparent	100%	Full Cutoff
70° Medium wide flood	Transparent	100%	Full Cutoff
80° Medium wide flood	Transparent	100%	Full Cutoff

- LOR: optical efficiency appliance due to the physical shielding.
- Polycarbonate reflector.
- Minimum installation height: 3m.

## LUMINOUS FLUX

Colour and Colour Temperature		2,700K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
1,500	14.1	106	1	365	11.7
2,500	24.2	103	1	625	20.6

Colour and Colour Temperature		3,000K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
1,500	14.0	107	1	360	11.6
2,500	23.9	105	1	610	20.3

Colour and Colour Temperature		3,500K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
1,500	14.0	107	1	360	11.6
2,500	23.9	105	1	610	20.3

Colour and Colour Temperature		4,000K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
1,500	12.7	119	1	330	10.5
2,500	21.8	115	1	565	18.5

- \* The energy values in the table refer to LED module + driver.
- LED type: COB.
  - Internal heat sink in cast aluminium.
  - Estimated life: 80,000 h L80B10.
  - Colour Rendering Index: CRI > 80 within the 5 ellipses of Mac Adam.
  - Photobiological risk (IEC/TR 62778): class RG1 to class RG2 at 3m from source.
  - Photobiological risk (EN62471): class RG0 at 4 m.

## DRIVER FUNCTIONS

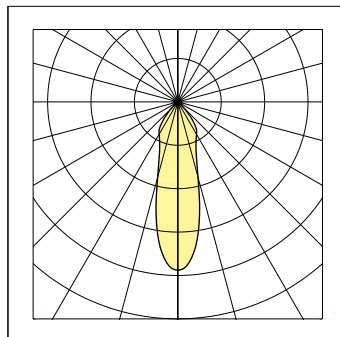
**1-10V** (Analogic control)

**DALI** (Digital control)

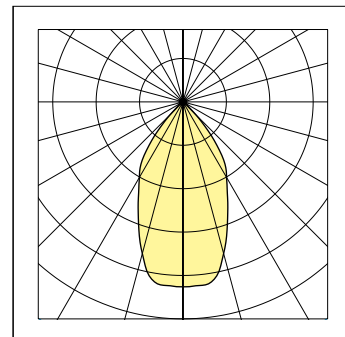
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

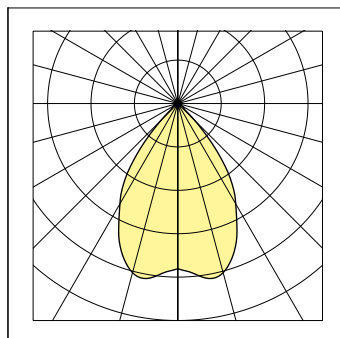
### 35° Medium narrow spot



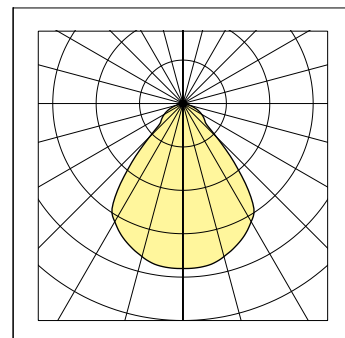
### 60° Medium flood



### 70° Medium wide flood



### 80° Medium wide flood



## NEBULA S - RGBW

Trasparent flat glass - High Power LED  
(Single Lens, PMMA).

Lighting distribution	Screen	LOR	IES Class
15° Very narrow spot	Transparent	100%	Full Cutoff
25° Narrow spot	Transparent	100%	Full Cutoff
35° Medium narrow spot	Transparent	100%	Full Cutoff

- LOR: optical efficiency appliance due to the physical shielding.
- Refractive lens in PMMA.
- Minimum installation height: 3m.

## LUMINOUS FLUX

Colour and Colour Temperature			RGBW		
System*			LED module		
Colour	lm tot	λ (nm)	n LED	mA	W
Red	333 (R)	623	3	700	4.5
Green	289 (G)	517	3	700	6.0
Blu	89 (B)	455	3	700	6.0
White	500 (W)	warm	3	700	6.0

\* The energy values in the table refer to LED module.

- LED type: XM-L Color.
- Power LEDs module on printed circuit board with metal core plate.
- Internal heat sink in cast aluminium.
- Estimated life: 80,000 h L80B10.

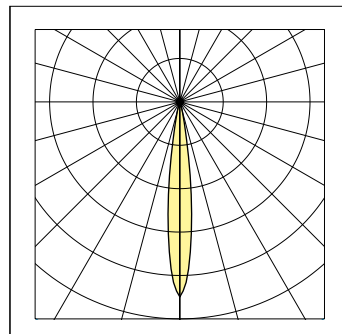
## DRIVER FUNCTIONS

### DMX

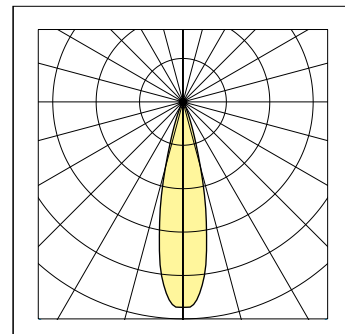
- Programmable electronic power supply.
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).

## PHOTOMETRIC CURVES

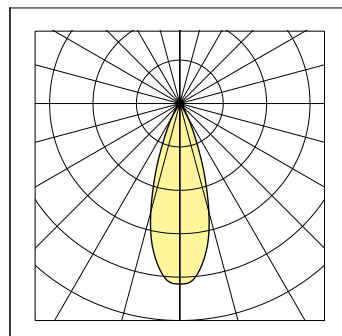
### 15° Very narrow spot



### 25° Narrow spot



### 35° Medium narrow spot



## NEBULA S - A

Prismatic flat glass - High Power LED  
(Single Lens, PMMA).

Lighting distribution	Screen	LOR	IES Class
Type II	Prismatic	100%	Full Cutoff
Type V	Prismatic	100%	Full Cutoff

- LOR: optical efficiency appliance due to the physical shielding.  
- Refractive lens in PMMA.  
- Minimum installation height: 3m.

## LUMINOUS FLUX

Colour and Colour Temperature			Amber		
System*			LED module		
Colour	lm tot	$\lambda$ (nm)	n LED	mA	W
Amber	350	598	12	700	18

- \* The energy values in the table refer to LED module + driver.  
- LED type: XB-D Color.  
- Power LEDs module on printed circuit board with metal core plate.  
- Internal heat sink in cast aluminium.  
- Estimated life: 50,000 h L80B50.

## DRIVER FUNCTIONS

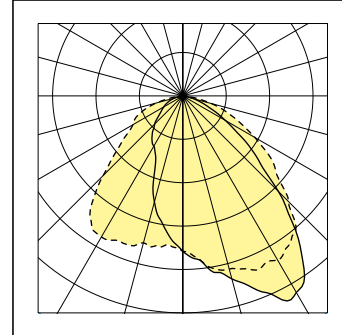
**1-10V** (Analogic control)

**DALI** (Digital control)

- NFC programmable electronic power supply with self-diagnostic functions.  
- 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).  
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

### Type II



### Type V

