

INDEX

1	HOW TO CONFIGURE
4	NEBULA POLES
8	NEBULA S TECH SHEET
13	NEBULA L TECH SHEET
18	NEBULA V TECH SHEET
21	NEBULA BOLLARD TECH SHEET
26	CONFIGURATION
27	POLES CONFIGURATION
32	NEBULA S CONFIGURATION
34	NEBULA L CONFIGURATION
36	NEBULA V CONFIGURATION
37	NEBULA BOLLARD CONFIGURATION

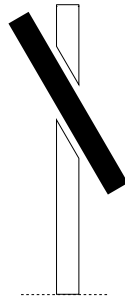
NERI

HOW TO CONFIGURE

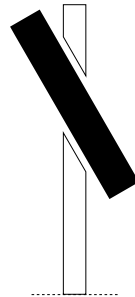
Planning with Nebula modular system is easy. Follow our step by step guide to achieve your desired configuration.

1. Luminaire head types

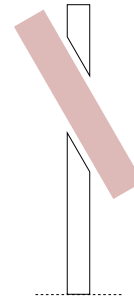
Select luminaire size and decide how many you need for your scheme. Three luminaire head types are available: Nebula Small (S), Nebula Large (L) and Nebula Venezia (V).



Nebula Small
luminaire head
h 900 mm, Ø 105 mm

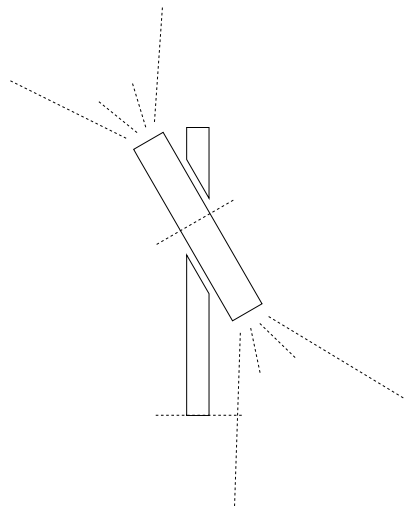


Nebula Large
luminaire head
h 900 mm, Ø 155 mm



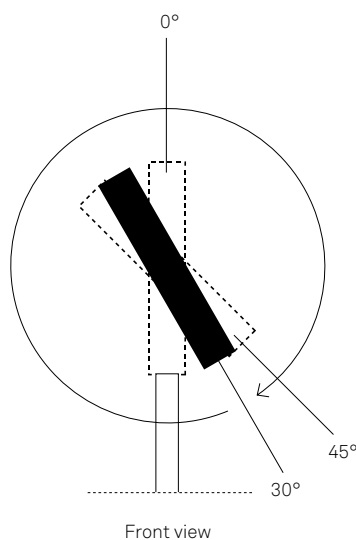
Nebula Venezia
luminaire head decorative,
transparent rose tint
h 916 mm, Ø 150 mm

Nebula luminaire heads are composed of two light sources. They can be controlled together or separately. Symmetric and asymmetric distributions as well as beam angles from very narrow (10°) to wide (80°), color temperatures from 2,700K to 4,000K, including Amber and RGBW, are only some of the options to choose from to configure.

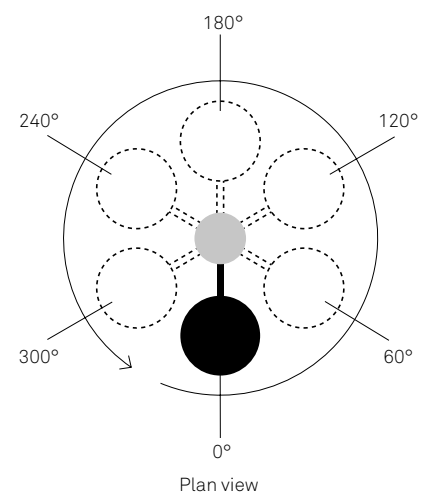


2. Arrangement

Nebula system luminaire heads can tilt (0°, 30°, 45° or any other angle) and revolve (0° - 120°). Select your preferred tilt and revolving angles.



Front view



Plan view

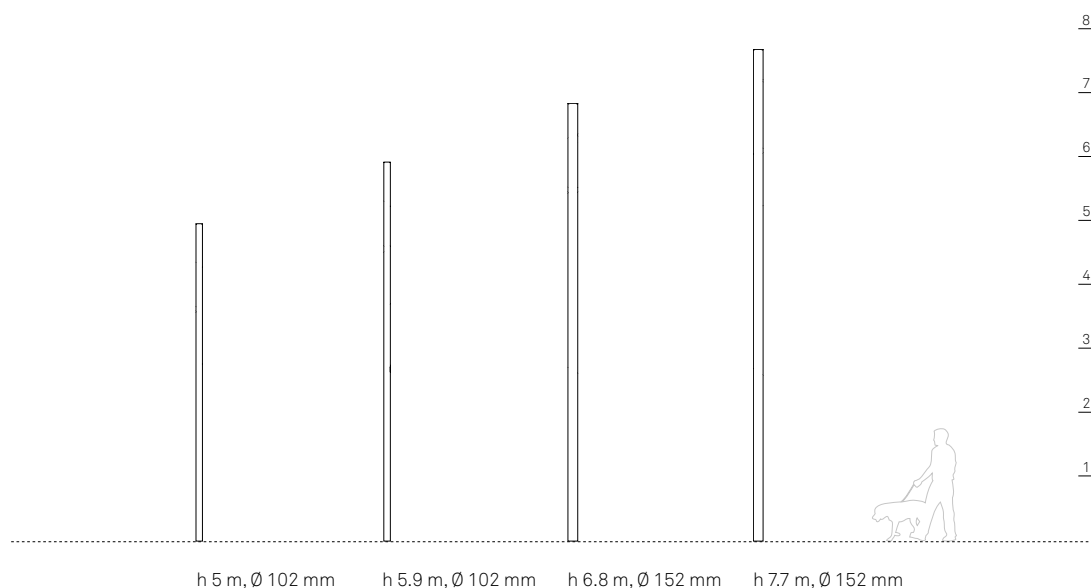
NERI

HOW TO CONFIGURE

Planning with Nebula modular system is easy. Follow our step by step guide to achieve your desired configuration.

3. Pole height and diameter

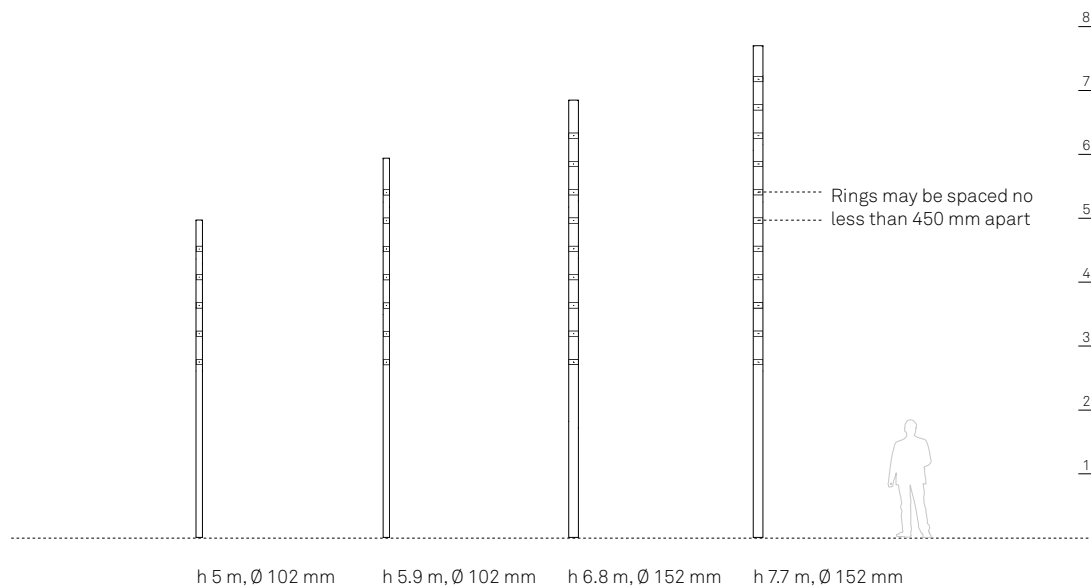
Choose between four standard pole heights and two pole diameters.



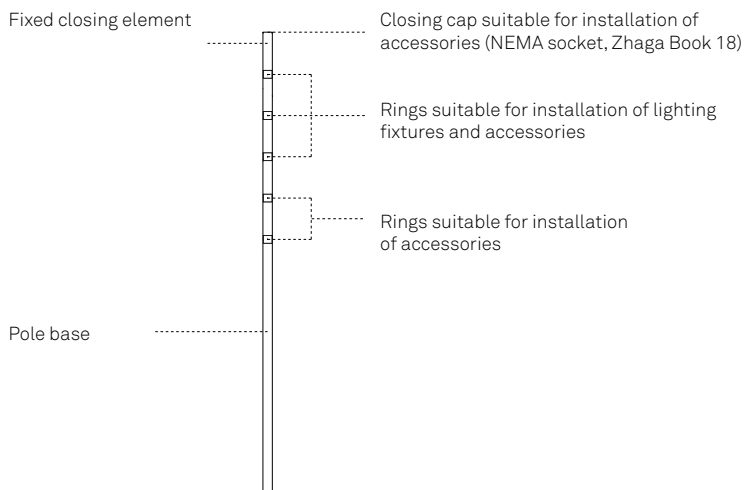
4. Rings

Different heights can accommodate a different number of rings. Rings are the mounting devices designed to hold luminaires or accessories part of the system.

The diagram on the right shows the maximum number of rings per pole. Each ring can accommodate one or two luminaire heads or accessories. Choose the required rings on the specified height and choose type of luminaire head or accessory.



When positioning luminaire heads and accessories on the pole, the lowest 2 rings may be used only for accessories. The rings above these may be used for luminaire heads or accessories.



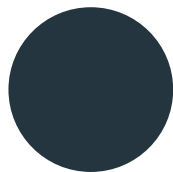
NERI

HOW TO CONFIGURE

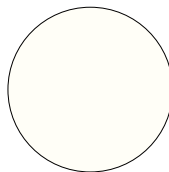
Planning with Nebula modular system is easy. Follow our step by step guide to achieve your desired configuration.

5. Colour

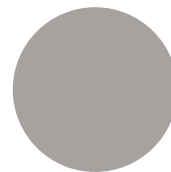
Standard colour for the system is Neri grey. Other colours available are: pure white, white aluminium, grey aluminium, jet black, moss green.



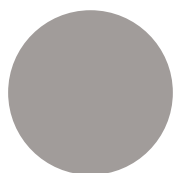
Neri Grey



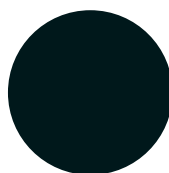
Pure White
RAL 9010



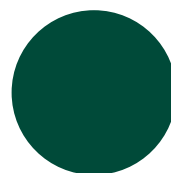
White Aluminium
RAL 9006



Grey Aluminium
RAL 9007

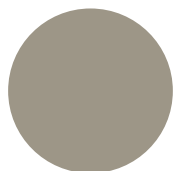


Jet Black
RAL 9005

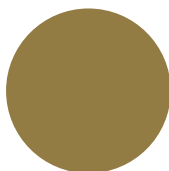


Moss Green
RAL 6005

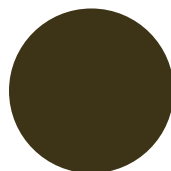
Additional finishes are available for luminaire heads: silver, gold, bronze, brown and black anodising.



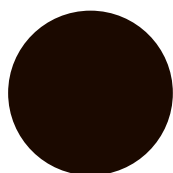
Silver
Anodising



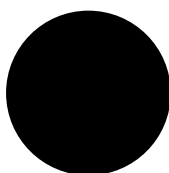
Gold
Anodising



Bronze
Anodising



Brown
Anodising



Black
Anodising

NEBULA POLES 5 m

Conformity

CE certified post, in compliance with UNI EN 40-5.
Basic Wind Speed: 72 m/sec.

Materials

Steel tubes UNI EN 10219-1, hot galvanized as UNI EN ISO 1461 norm.

Structural elements

Pole in hot galvanized steel, composed by three tubes welded together:

- (A) Tube diam. 102 x 2805 mm.
- (B) Tube diam. 60 x 2165 mm.
- (C) Tube diam. 42 x 100 mm.
- (D) Square flange.

Standard equipment

- Slot (E) (300 x 50 mm) for installation of terminal board, with or without fuse.
- Hand hole (F) (360 x 80 mm) to close the slot for terminal board with the Neri logo on it.
- Hole \varnothing 90 mm at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 5070 mm.
- Height useful: 4970 mm.
- Weight max: 58 kg.

Mounting

- Square Flange (D) 266 x 266 mm (thickness 18 mm), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 100 mm below the final pavement level.

Protection of surfaces

Please refer to the specific description of the product painting cycles.

Painting

Powder coating:

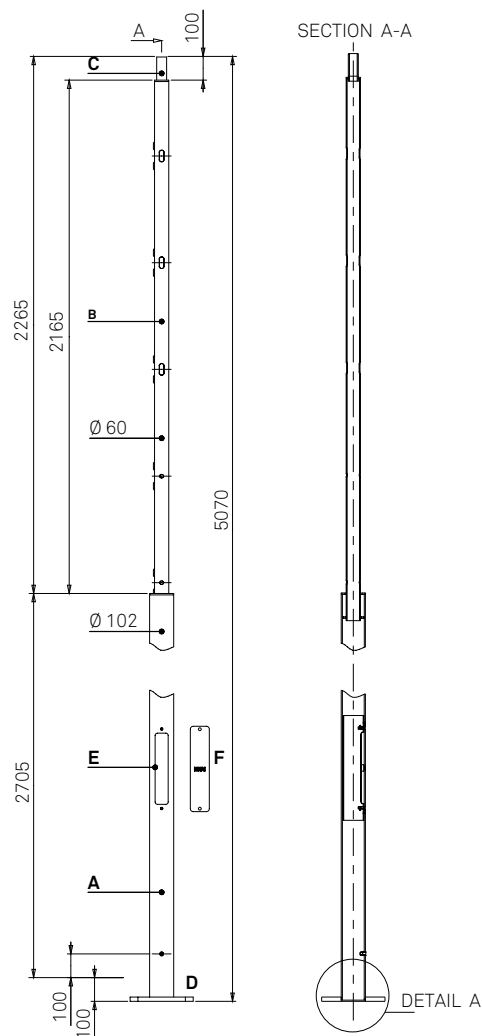
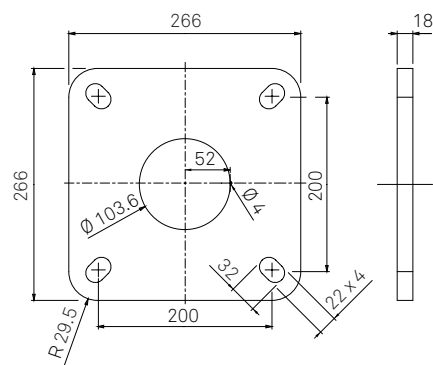
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DRAWINGS

DETAIL A - FLANGE PLAN



NEBULA POLES 5.9 m

Conformity

CE certified post, in compliance with UNI EN 40-5.
Basic Wind Speed: 72 m/sec.

Materials

Steel tubes UNI EN 10219-1, hot galvanized as UNI EN ISO 1461 norm.

Structural elements

Pole in hot galvanized steel, composed by three tubes welded together:

- (A) Tube diam. 102 x 2805 mm.
- (B) Tube diam. 60 x 3065 mm.
- (C) Tube diam. 42 x 100 mm.
- (D) Square flange.

Standard equipment

- Slot (E) (300 x 50 mm) for installation of terminal board, with or without fuse.
- Hand hole (F) (360 x 80 mm) to close the slot for terminal board with the Neri logo on it.
- Hole \varnothing 90 mm at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 5970 mm.
- Height useful: 5870 mm.
- Weight max: 65 kg.

Mounting

- Square Flange (D) 266 x 266 mm (thickness 18 mm), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 100 mm below the final pavement level.

Protection of surfaces

Please refer to the specific description of the product painting cycles.

Painting

Powder coating:

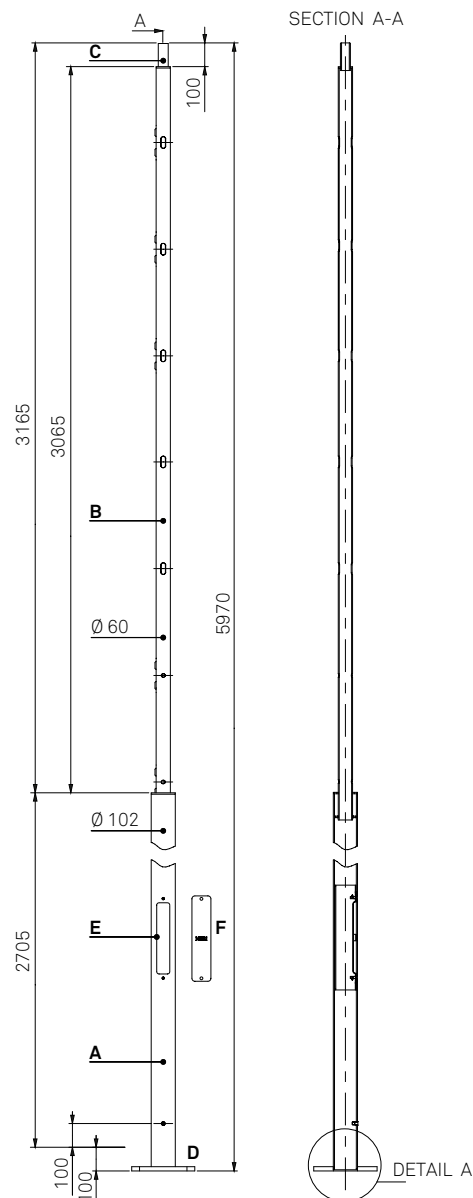
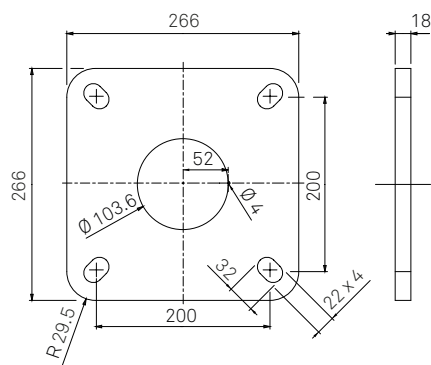
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DRAWINGS

DETAIL A - FLANGE PLAN



NEBULA POLES 6.8 m

Conformity

CE certified post, in compliance with UNI EN 40-5.
Basic Wind Speed: 72 m/sec.

Materials

Steel tubes UNI EN 10219-1, hot galvanized as UNI EN ISO 1461 norm.

Structural elements

Pole in hot galvanized steel, composed by three tubes welded together:

- (A) Tube diam. 152 x 2805 mm.
- (B) Tube diam. 102 x 3965 mm.
- (C) Tube diam. 42 x 100 mm.
- (D) Square flange.

Standard equipment

- Slot (E) (500 x 90 mm) for installation of terminal board, with or without fuse.
- Hand hole (F) (560 x 120 mm) to close the slot for terminal board with the Neri logo on it.
- Hole Ø 140 mm at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 6870 mm.
- Height useful: 6770 mm.
- Weight max: 125 kg.

Mounting

- We recommend mounting with hidden flange, positioned 100 mm below the final pavement level.

Protection of surfaces

Please refer to the specific description of the product painting cycles.

Painting

Powder coating:

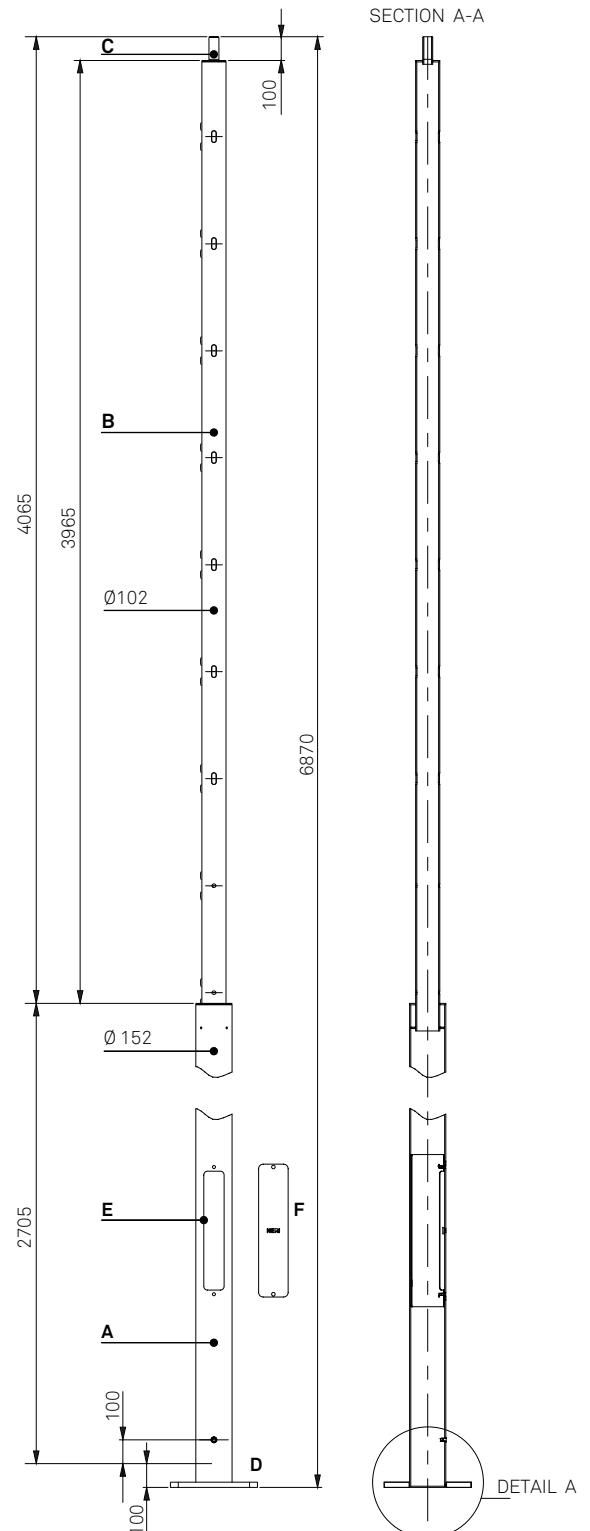
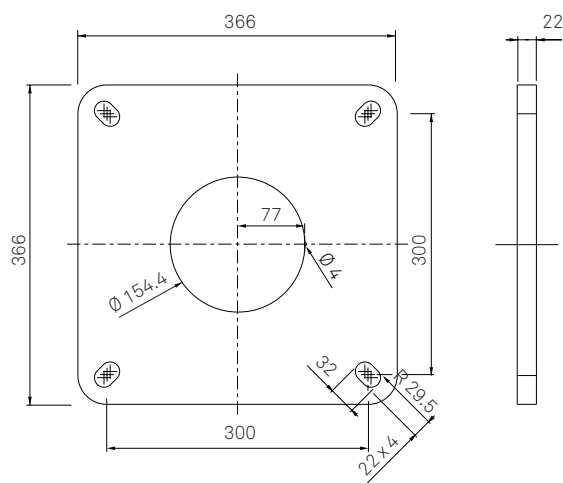
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DRAWINGS

DETAIL A - FLANGE PLAN



NEBULA POLES 7.7 m

Conformity

CE certified post, in compliance with UNI EN 40-5.
Basic Wind Speed: 72 m/sec.

Materials

Steel tubes UNI EN 10219-1, hot galvanized as UNI EN ISO 1461 norm.

Structural elements

Pole in hot galvanized steel, composed by three tubes welded together:

- (A) Tube diam. 152 x 2805 mm.
- (B) Tube diam. 102 x 4865 mm.
- (C) Tube diam. 42 x 100 mm.
- (D) Square flange.

Standard equipment

- Slot (E) (500 x 90 mm) for installation of terminal board, with or without fuse.
- Hand hole (F) (560 x 120 mm) to close the slot for terminal board with the Neri logo on it.
- Hole \varnothing 140 mm at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 7770 mm.
- Height useful: 7670 mm.
- Weight max: 140 kg.

Mounting

- Square Flange (D) 366 x 366 mm (thickness 22 mm), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 100 mm below the final pavement level.

Protection of surfaces

Please refer to the specific description of the product painting cycles.

Painting

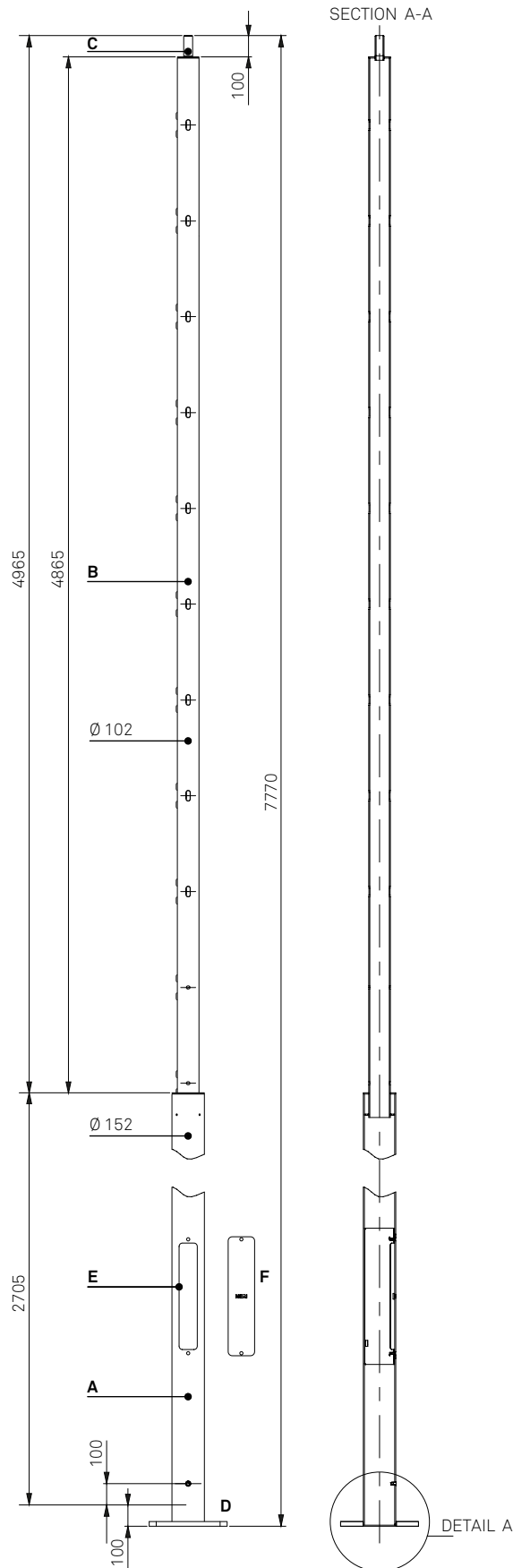
Powder coating:

- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

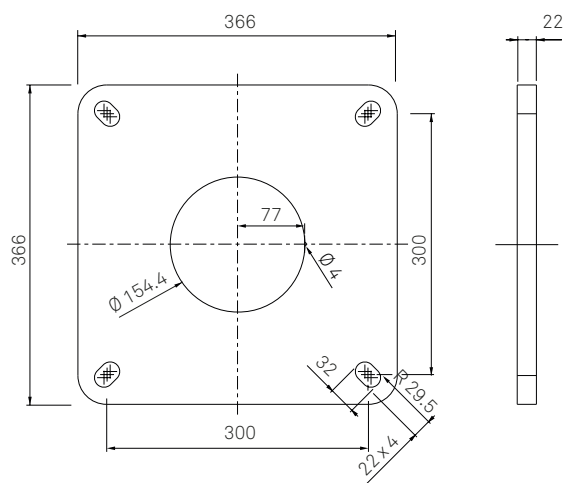
Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DRAWINGS



DETAIL A - FLANGE PLAN



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 ²

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 $\pm 45^\circ$.

Materials

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

Structure – Main components

- External frame in extruded aluminium.
- Shield in extra-clear transparent or prismatic tempered glass with impact resistance IK 08 (EN 62262).
- Integrated heat sink in aluminium.
- Wiring plate in galvanized steel sheet.
- 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 ($\varnothing 6 - 12$ 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:

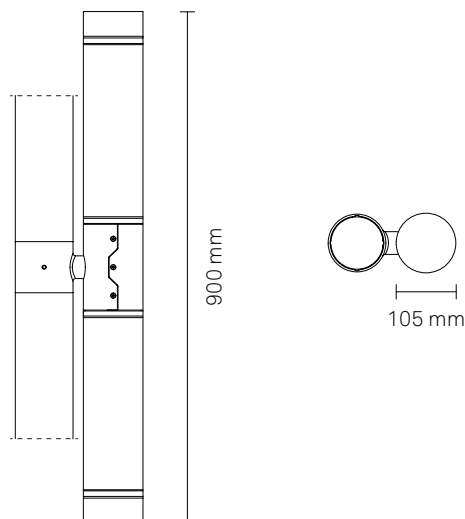
- Neri grey
- Pure white
- White aluminium
- Grey aluminium
- Jet black
- Moss green

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.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			2,700K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
1,000	15.00	67	3	340	11.2

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 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 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: XHP50.2 Cree.
- 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

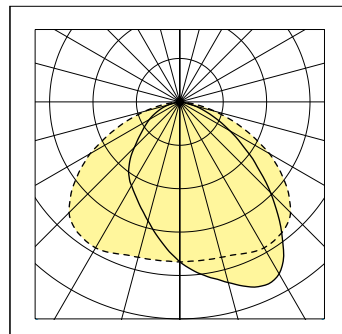
1-10V (Analogic control)

DALI (Digital control)

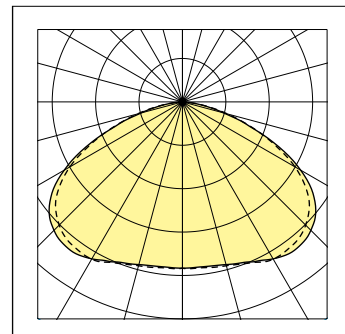
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

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.
- Max installation height: over 15m.

LUMINOUS FLUX

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 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 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 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: C08.
 - 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

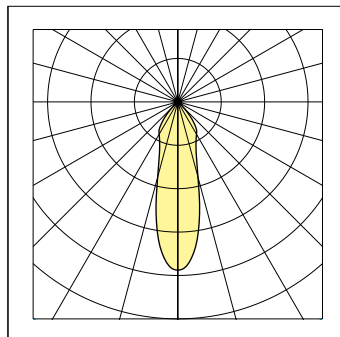
1-10V (Analogic control)

DALI (Digital control)

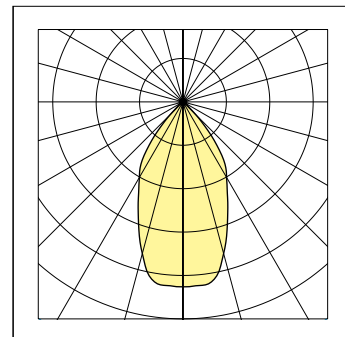
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

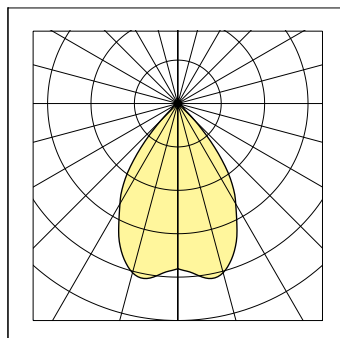
35° Medium narrow spot



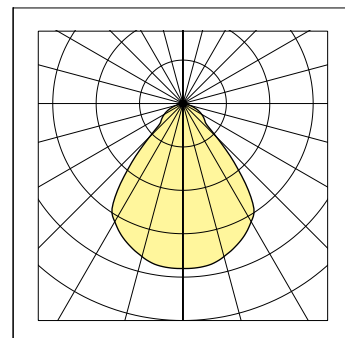
60° Medium flood



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.
- Max installation height: over 15m.

LUMINOUS FLUX

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.

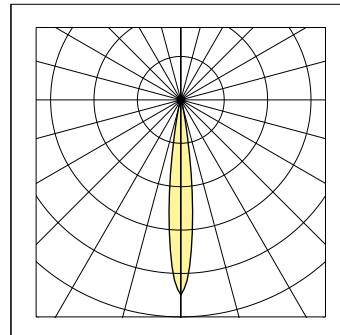
DRIVER FUNCTIONS

DMX

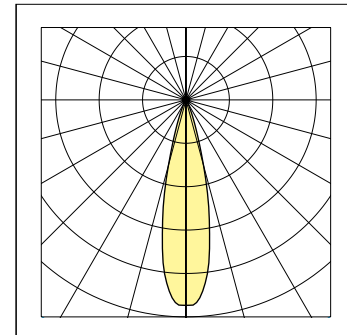
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).

PHOTOMETRIC CURVES

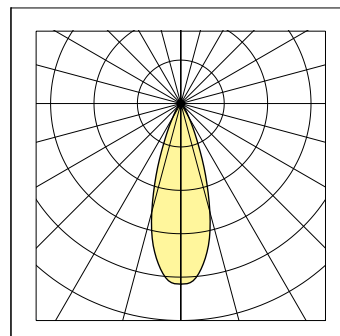
15° Very narrow spot



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.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			Amber		
System*			LED module		
Colour	lm tot	λ (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

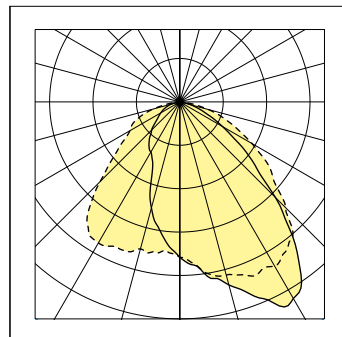
1-10V (Analogic control)

DALI (Digital control)

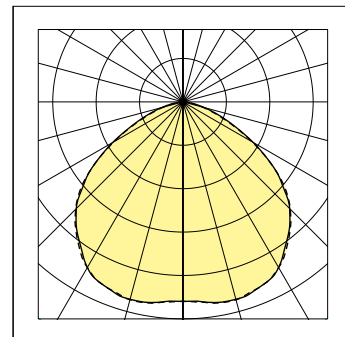
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

Type II



Type V



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	155 mm	12 Kg	66	08	0.14 m ²

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 $\pm 45^\circ$.

Materials

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

Structure – Main components

- External frame in extruded aluminium.
- Shield in extra-clear transparent or prismatic tempered glass with impact resistance IK 08 (EN 62262).
- Integrated heat sink in aluminium.
- Wiring plate in galvanized steel sheet.
- 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 ($\varnothing 6 - 12$ 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:

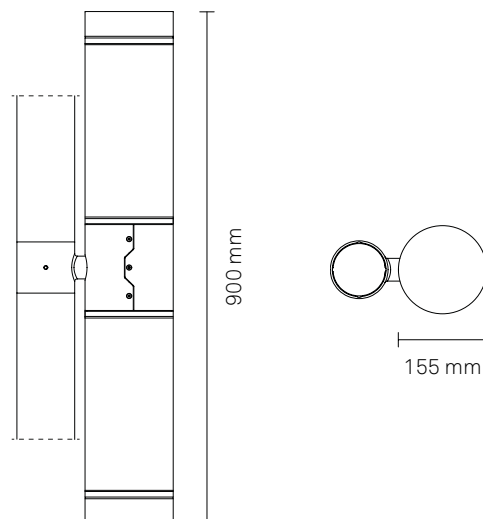
- Neri grey
- Pure white
- White aluminum
- Grey aluminum
- Jet black
- Moss green

Anodising:

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

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

DRAWINGS



NERI

Nebula L

Screen: Prismatic

Version: ST

Technical sheet

Rev. 00 - 2020/03/27

NEBULA L - ST

Prismatic flat glass - COB LED
(Single Lens, Silicone).

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

- LOR: optical efficiency appliance due to the physical shielding.
- Silicone single lens.
- High efficiency reflector in aluminum for flux recovery and glare reduction.
- Minimum installation height: 3m.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature		2,700K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
2,500	25.2	99	1	640	20,7
3,500	36.1	97	1	920	30,3
4,500	47.1	96	1	1250	40,5

Colour Temperature		3,000K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
2,500	24.6	101	1	615	20.2
3,500	35.1	100	1	895	29.5
4,500	45.8	98	1	1175	39.4

Colour Temperature		3,500K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
2,500	24.6	101	1	615	20.2
3,500	35.1	100	1	895	29.5
4,500	45.8	98	1	1175	39.4

Colour Temperature		4,000K			
System*		LED module			
lm tot	W tot	lm/W	n LED	mA	W
2,500	22.8	110	1	580	18.7
3,500	32.4	108	1	830	27.2
4,500	42.7	105	1	1100	36.7

- * 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 2.78m from source.
 - Photobiological risk (EN62471): class RG0.

DRIVER FUNCTIONS

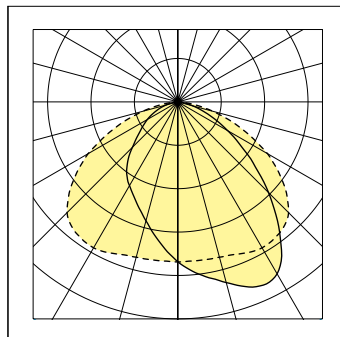
1-10V (Analogic control)

DALI (Digital control)

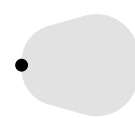
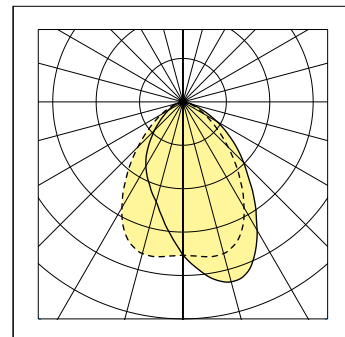
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

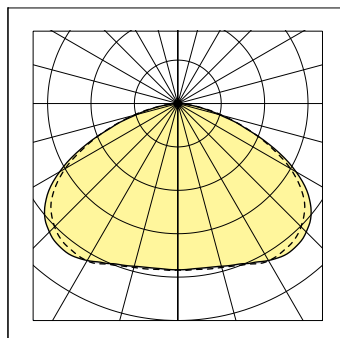
Type II



Type IV



Type V



NEBULA L - PR

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

Lighting distribution	Screen	LOR	IES Class
10° Very narrow spot	Transparent	100%	Full Cutoff
20° Narrow spot	Transparent	100%	Full Cutoff
35° Medium narrow spot	Transparent	100%	Full Cutoff
70° Medium wide flood	Transparent	100%	Full Cutoff

- LOR: optical efficiency appliance due to the physical shielding.
- Reflector in polycarbonate.
- High efficiency reflector in plastic material for flux recovery and glare reduction.
- Minimum installation height: 3m.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			2,700K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
2,500	25.1	100	1	625	20.6
3,500	36.2	97	1	900	30.4
4,500	47.7	94	1	1185	41.0

Colour Temperature			3,000K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
2,500	24.8	101	1	610	20.3
3,500	35.4	99	1	875	29.7
4,500	46.2	97	1	1150	39.7

Colour Temperature			3,500K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
2,500	24.8	101	1	610	20.3
3,500	35.4	99	1	875	29.7
4,500	46.2	97	1	1150	39.7

Colour Temperature			4,000K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
2,500	22.6	111	1	565	18.5
3,500	32.5	108	1	815	27.3
4,500	43.0	105	1	1080	37.0

- * 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 2.7m from source.
 - Photobiological risk (EN62471): class RG0.

DRIVER FUNCTIONS

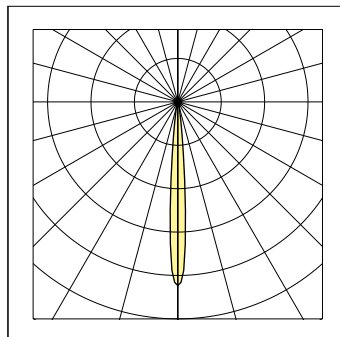
1-10V (Analogic control)

DALI (Digital control)

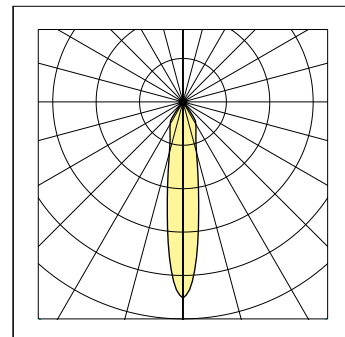
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

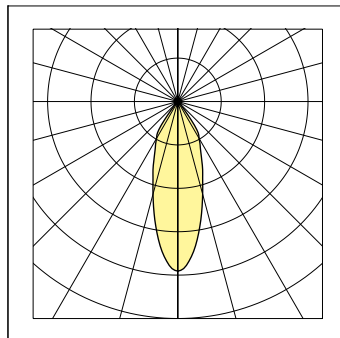
10° Very narrow spot



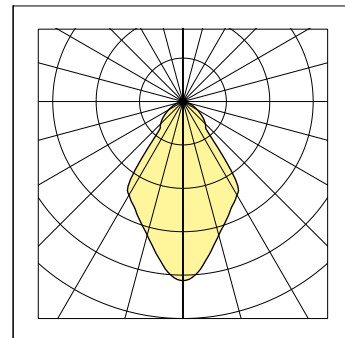
20° Narrow spot



35° Medium narrow spot



70° Medium wide flood



NEBULA L - 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.
- High efficiency reflector in aluminum for flux recovery and glare reduction.
- Minimum installation height: 3m.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			RGBW		
System*			LED module		
Colour	lm tot	λ (nm)	n LED	mA	W
Red	666 (R)	623	6	700	9.0
Green	578 (G)	517	6	700	12
Blu	178 (B)	455	6	700	12
White	1,000 (W)	warm	6	700	12

* 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.

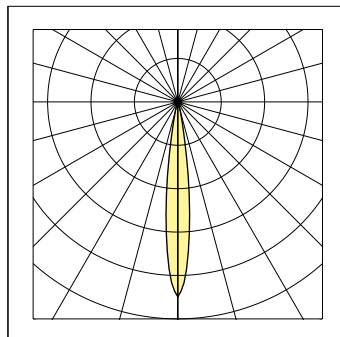
DRIVER FUNCTIONS

DMX

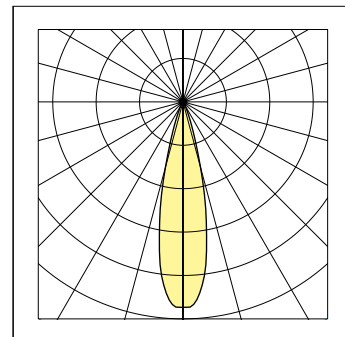
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).

PHOTOMETRIC CURVES

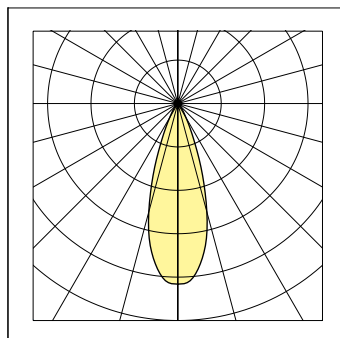
15° Very narrow spot



25° Narrow spot



35° Medium narrow spot



NERI

Nebula L

Screen: Prismatic

Version: A

Technical sheet

Rev. 00 - 2020/03/27

NEBULA L - 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.
- High efficiency reflector in aluminum for flux recovery and glare reduction.
- Minimum installation height: 3m.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			Amber		
System*			LED module		
Colour	lm tot	λ (nm)	n LED	mA	W
Amber	700	598	24	700	35

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

- 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

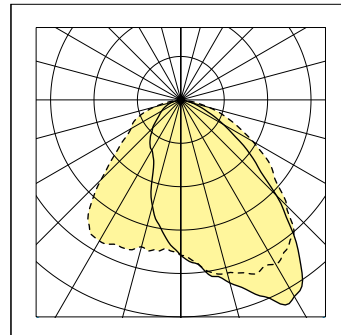
1-10V (Analogic control)

DALI (Digital control)

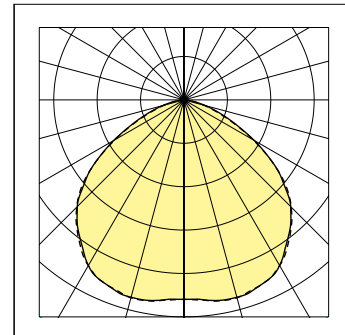
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

Type II



Type V



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)
916 mm	150 mm	150 mm	7 Kg	66	08	0.14 m ²

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 $\pm 45^\circ$.

Materials

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

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.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.
- Dedicated space for surge protection devices or remote control systems.
- Decorative reflector cap in aluminum.

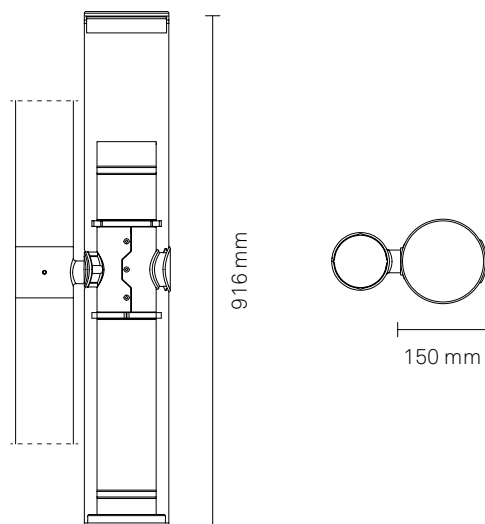
Electrical features

- Electronic power supply with protection against short circuits, overheating and power surges.
- Input power cable with PG13.5 cable gland ($\varnothing 6 - 12$ 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.

DRAWINGS



NEBULA V - 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.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			2,700K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
1,000	15.00	67	3	340	11.2

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 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 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: XHP50.2 Cree.
- 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

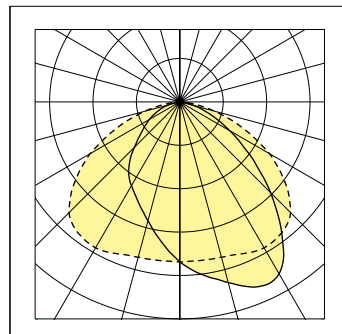
1-10V (Analogic control)

DALI (Digital control)

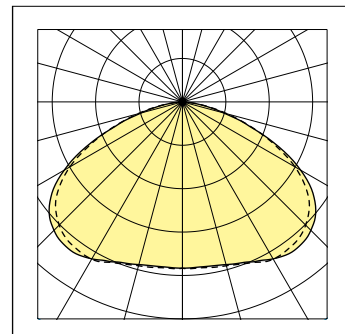
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

Type II



Type V



NEBULA V - 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.
- Max installation height: over 15m.

LUMINOUS FLUX

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 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 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 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: C08.
 - 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

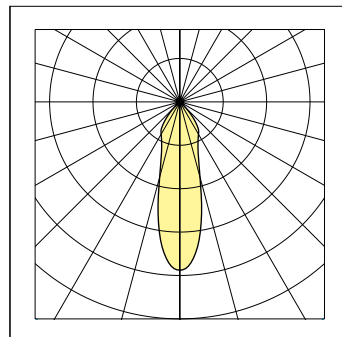
1-10V (Analogic control)

DALI (Digital control)

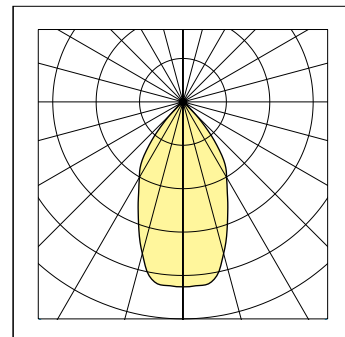
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

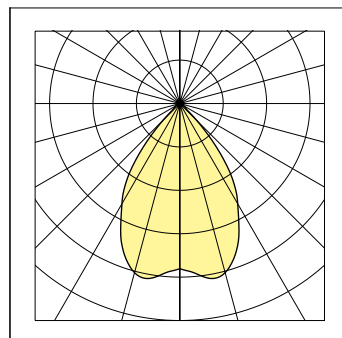
30° Medium narrow spot



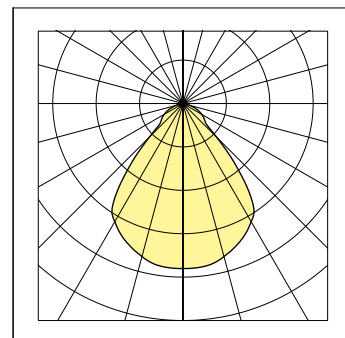
60° Medium flood



70° Medium wide flood



80° Medium wide flood



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)
1061 mm	105 mm	230 mm	13 Kg	66	08	0.15 m ²

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

- Central frame with a tilting system of $\pm 45^\circ$.

Materials

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

Structure – Main components

- External frame and body in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass with impact resistance IK 08 (EN 62262).
- Integrated heat sink in aluminium.
- Wiring plate in galvanized steel sheet.
- 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 exiting H05RN-F cord.
- Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

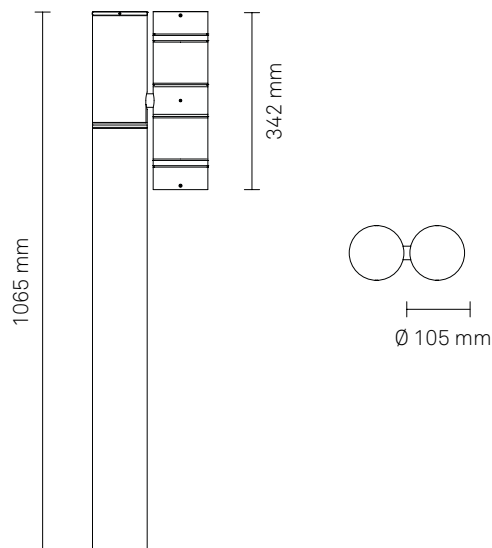
Operations and maintenance

- 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 aluminum
 - Grey aluminum
 - 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 BOLLARD - 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.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			2,700K		
System*			LED module		
lm tot	W tot	lm/W	n LED	mA	W
1,000	15.00	67	3	340	11.2

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 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 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: XHP50.2 Cree.
- 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

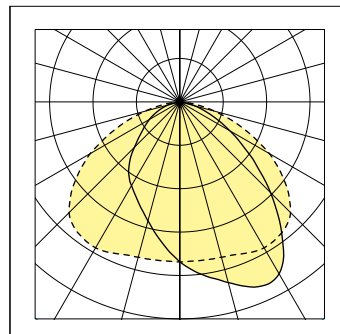
1-10V (Analogic control)

DALI (Digital control)

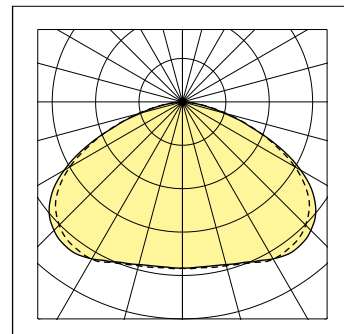
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

Type II



Type V



NEBULA BOLLARD - 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.
- Max installation height: over 15m.

LUMINOUS FLUX

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 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 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 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: C08.
 - 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

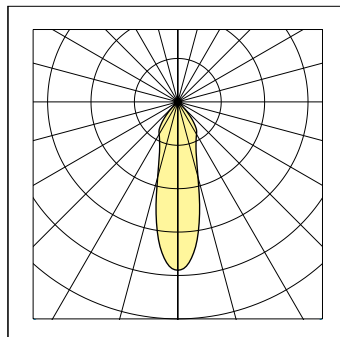
1-10V (Analogic control)

DALI (Digital control)

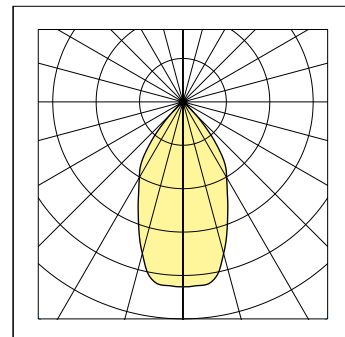
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

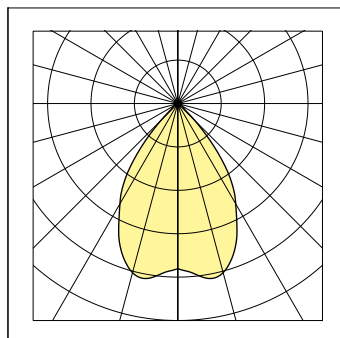
30° Medium narrow spot



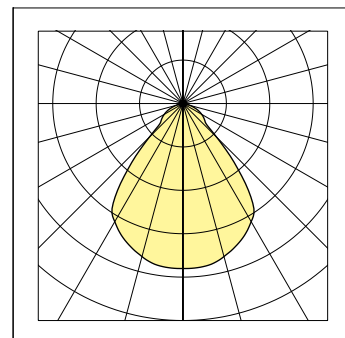
60° Medium flood



70° Medium wide flood



80° Medium wide flood



NEBULA BOLLARD - 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.
- Max installation height: over 15m.

LUMINOUS FLUX

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.

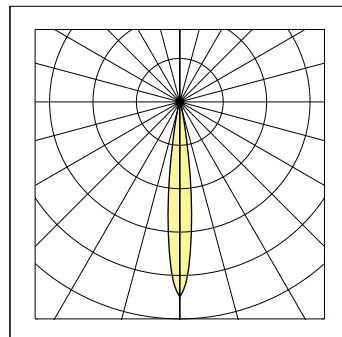
DRIVER FUNCTIONS

DMX

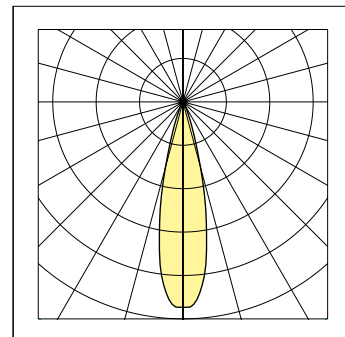
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).

PHOTOMETRIC CURVES

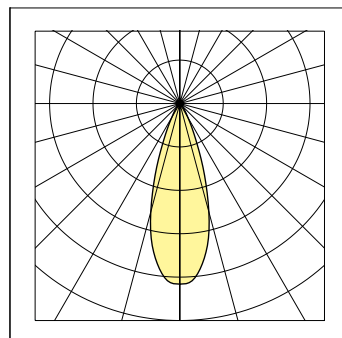
15° Very narrow spot



25° Narrow spot



35° Medium narrow spot



NEBULA BOLLARD - A + W

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 lenses in PMMA.
- Minimum installation height: 3m.
- Max installation height: over 15m.

LUMINOUS FLUX

Colour Temperature			Amber + White		
System*			LED module		
Colour	lm tot	λ (nm)	n LED	mA	W
Amber	180	598	6	700	11
White	800	Warm	6	700	15

* The energy values in the table refer to LED module + driver.
- LED type: XB-D.
- Power LEDs module on printed circuit board with metal core plate.
- Internal heat sink in cast aluminium.
- Estimated life: 50,000 h L80B20.

DRIVER FUNCTIONS

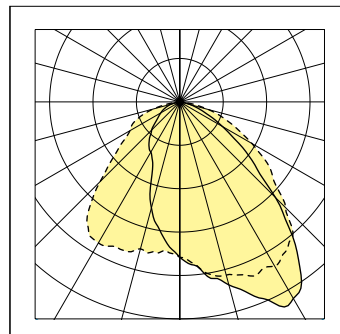
1-10V (Analogic control)

DALI (Digital control)

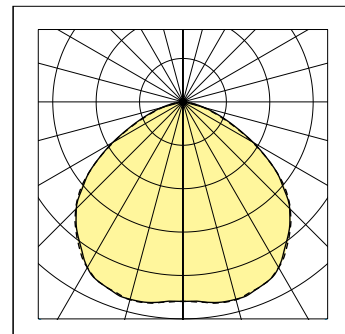
- NFC programmable electronic power supply with self-diagnostic functions.
- SStandard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

PHOTOMETRIC CURVES

Type II



Type IV



NERI

CONFIGURATION FORMS

THE FOLLOWING PAGES ARE FORMS
TO FILL IN TO CONFIGURE NEBULA
SYSTEM AND BOLLARD AND REQUEST
A QUOTE.

NERI

LAMP POST CONFIGURATION EXAMPLE

POLE COLOUR NERI GREY

accessories	luminaire	tilt	revolution	left		right	revolution	tilt	luminaire	accessories
			EMPTY		11		120	30	#15	
	#15	30	60		10		EMPTY			
			EMPTY		9		120	30	#15	
	#15	30	60		8		EMPTY			
			EMPTY		7		120	30	#15	
	#15	30	60		6		EMPTY			
			EMPTY		5		EMPTY			
			EMPTY		4		EMPTY			
			EMPTY		3		120			BN
			EMPTY		2		EMPTY			
PL			60		1		EMPTY			

ACCESSORIES

PLANTER = PT

BANNER HOLDER = BN

TILT

0°

30°

45°

Front view

REVOLUTION

180°

120°

60°

0°

240°

300°

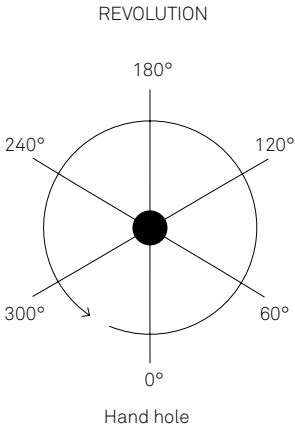
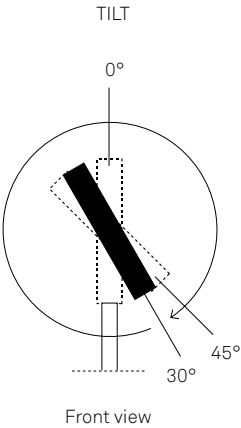
Hand hole

accessories	luminaire	tilt	revolution	left		right	revolution	tilt	luminaire	accessories
_____	_____	_____	_____		5		_____	_____	_____	_____
_____	_____	_____	_____		4		_____	_____	_____	_____
_____	_____	_____	_____		3		_____	_____	_____	_____
_____	_____	_____	_____		2		_____	_____	_____	_____
_____	_____	_____	_____		1		_____	_____	_____	_____

Fill in this form with the required information to create a summary of your Nebula lamp post configuration. Attached to the summary, fill also in the forms configuring the luminaire heads (see pages 12-13, 19-20, 26, 29-30) and number your luminaire configurations (#1, #2, etc.).

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN

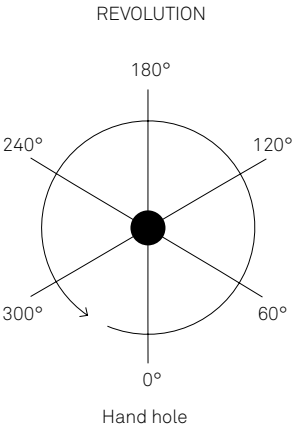
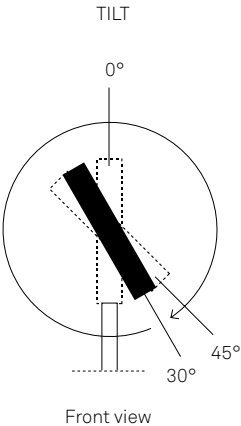


accessories	luminaire	tilt	revolution	left		right	revolution	tilt	luminaire	accessories
					7					
					6					
					5					
					4					
					3					
					2					
					1					

Fill in this form with the required information to create a summary of your Nebula lamp post configuration. Attached to the summary, fill also in the forms configuring the luminaire heads (see pages 12-13, 19-20, 26, 29-30) and number your luminaire configurations (#1, #2, etc.).

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN

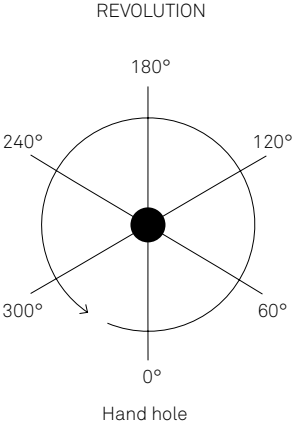
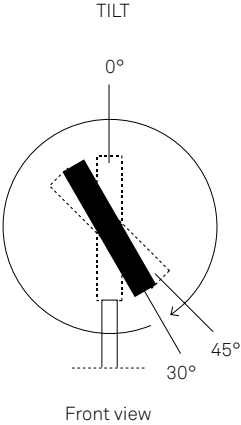


accessories	luminaire	tilt	revolution	left		right	revolution	tilt	luminaire	accessories
_____	_____	_____	_____		9	_____	_____	_____	_____	_____
_____	_____	_____	_____		8	_____	_____	_____	_____	_____
_____	_____	_____	_____		7	_____	_____	_____	_____	_____
_____	_____	_____	_____		6	_____	_____	_____	_____	_____
_____	_____	_____	_____		5	_____	_____	_____	_____	_____
_____	_____	_____	_____		4	_____	_____	_____	_____	_____
_____	_____	_____	_____		3	_____	_____	_____	_____	_____
_____	_____	_____	_____		2	_____	_____	_____	_____	_____
_____	_____	_____	_____		1	_____	_____	_____	_____	_____

Fill in this form with the required information to create a summary of your Nebula lamp post configuration. Attached to the summary, fill also in the forms configurating the luminaire heads (see pages 12-13, 19-20, 26, 29-30) and number your luminaire configurations (#1, #2, etc.).

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN



accessories	luminaire	tilt	revolution	left		right	revolution	tilt	luminaire	accessories
					11					
					10					
					9					
					8					
					7					
					6					
					5					
					4					
					3					
					2					
					1					

TILT

0°
30°
45°

Front view

REVOLUTION

180°
120°
60°
0°
240°
300°

Hand hole

Fill in this form with the required information to create a summary of your Nebula lamp post configuration. Attached to the summary, fill also in the forms configuring the luminaire heads (see pages 12-13, 19-20, 26, 29-30) and number your luminaire configurations (#1, #2, etc.).

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN

NERI

Nebula S

Fixing: Side entry

Luminaire head
configuration form

NEBULA S

Nebula Small luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA S CONFIGURATION # _____ LUMINAIRE HEAD DOWN LIGHT

Luminaire configuration number to be also written in the lamp post configuration page.

☐ NEBULA S - EMPTY

☐ NEBULA S - ST HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V	<input type="checkbox"/> 3,000K		<input type="checkbox"/> DALI	
	<input type="checkbox"/> 3,500K			
	<input type="checkbox"/> 4,000K			

☐ NEBULA S - PR COB LED (REFLECTOR, PC)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 30° Medium narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Medium flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 3,500K			
<input type="checkbox"/> 80° Medium wide flood	<input type="checkbox"/> 4,000K			

☐ NEBULA S - RGBW HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 15 ° Very narrow spot	<input type="checkbox"/> RGBW	<input type="checkbox"/> 333 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		<input type="checkbox"/> 289 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		<input type="checkbox"/> 89 lm (B)		
		<input type="checkbox"/> 500 lm (W)		

☐ NEBULA S - A HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	<input type="checkbox"/> 350 lm (A)	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V			<input type="checkbox"/> DALI	

☐ NEBULA S - GLARE SHIELD

- ☐ glare shield 30°
- ☐ glare shield 45°

☐ NEBULA S - COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	

NEBULA S LUMINAIRE HEAD DOWN LIGHT

ST

PR

RGBW

A

Screen shape

Transparent flat
glass

Prismatic flat
glass

DOWN

NERI

Nebula S

Fixing: Side entry

Luminaire head
configuration form

NEBULA S

Nebula Small luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA S CONFIGURATION # _____ LUMINAIRE HEAD DOWN LIGHT

Luminaire configuration number to be also written in the lamp post configuration page.

UP

☐ NEBULA S - EMPTY

☐ NEBULA S - ST HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V	<input type="checkbox"/> 3,000K		<input type="checkbox"/> DALI	
	<input type="checkbox"/> 3,500K			
	<input type="checkbox"/> 4,000K			

☐ NEBULA S - PR COB LED (REFLECTOR, PC)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 30° Medium narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Medium flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 3,500K			
<input type="checkbox"/> 80° Medium wide flood	<input type="checkbox"/> 4,000K			

☐ NEBULA S - RGBW HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 15 ° Very narrow spot	<input type="checkbox"/> RGBW	<input type="checkbox"/> 333 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		<input type="checkbox"/> 289 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		<input type="checkbox"/> 89 lm (B)		
		<input type="checkbox"/> 500 lm (W)		

☐ NEBULA S - A HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	<input type="checkbox"/> 350 lm (A)	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V			<input type="checkbox"/> DALI	

☐ NEBULA S - GLARE SHIELD

- ☐ glare shield 30°
- ☐ glare shield 45°

☐ NEBULA S - COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	

NEBULA S LUMINAIRE HEAD UP LIGHT

ST

PR

RGBW

A

Screen shape

Transparent flat
Glass

Prismatic flat
Glass

NERI

Nebula L

Fixing: Side entry

Luminaire head
configuration form

NEBULA L

Nebula Large luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA L CONFIGURATION # _____ LUMINAIRE HEAD DOWN LIGHT

Luminaire configuration number to be also written in the lamp post configuration page.

☐ NEBULA L - EMPTY

☐ NEBULA L - ST COB LED (SINGLE LENS, SILICONE)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type IV	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> Type V	<input type="checkbox"/> 3,500K	<input type="checkbox"/> 4,500		
	<input type="checkbox"/> 4,000K			

☐ NEBULA L - PR COB LED (REFLECTOR, PC)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 10° Very narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 20° Narrow spot	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> 35° Medium narrow spot	<input type="checkbox"/> 3,500K	<input type="checkbox"/> 4,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			

☐ NEBULA L - RGBW HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 15 ° Very narrow spot	<input type="checkbox"/> RGBW	<input type="checkbox"/> 666 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		<input type="checkbox"/> 578 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		<input type="checkbox"/> 178 lm (B)		
		<input type="checkbox"/> 1,000 lm (W)		

☐ NEBULA L - A HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	<input type="checkbox"/> 700 lm (A)	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V			<input type="checkbox"/> DALI	

☐ NEBULA L - GLARE SHIELD

- ☐ glare shield 30°
☐ glare shield 45°

☐ NEBULA L - COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	

NEBULA L LUMINAIRE HEAD DOWN LIGHT

ST

PR

RGBW

A

Screen shape

Transparent flat
glass

Prismatic flat
glass

DOWN

NERI

Nebula L

Fixing: Side entry

Luminaire head
configuration form

NEBULA L

Nebula Large luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA L CONFIGURATION # _____ LUMINAIRE HEAD UP LIGHT

Luminaire configuration number to be also written in the lamp post configuration page.

UP

☐ NEBULA L - EMPTY

☐ NEBULA L - ST COB LED (SINGLE LENS, SILICONE)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type IV	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> Type V	<input type="checkbox"/> 3,500K	<input type="checkbox"/> 4,500		
	<input type="checkbox"/> 4,000K			

☐ NEBULA L - PR COB LED (REFLECTOR, PC)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 10° Very narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 20° Narrow spot	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> 35° Medium narrow spot	<input type="checkbox"/> 3,500K	<input type="checkbox"/> 4,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			

☐ NEBULA L - RGBW HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 15 ° Very narrow spot	<input type="checkbox"/> RGBW	<input type="checkbox"/> 666 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		<input type="checkbox"/> 578 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		<input type="checkbox"/> 178 lm (B)		
		<input type="checkbox"/> 1,000 lm (W)		

☐ NEBULA L - A HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	<input type="checkbox"/> 700 lm (A)	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V			<input type="checkbox"/> DALI	

☐ NEBULA L - GLARE SHIELD

- ☐ glare shield 30°
- ☐ glare shield 45°

☐ NEBULA L - COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	

NEBULA L LUMINAIRE HEAD UP LIGHT

ST

PR

RGBW

A

Screen shape

Transparent flat
Glass

Prismatic flat
Glass

NERI

Nebula V

Fixing: Side entry

Luminaire head
configuration form

NEBULA V

Nebula Venice luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA V CONFIGURATION # _____ LUMINAIRE HEAD DOWN LIGHT

Luminaire configuration number to be also written in the lamp post configuration page.

☐ NEBULA V - ST HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V	<input type="checkbox"/> 3,000K		<input type="checkbox"/> DALI	
	<input type="checkbox"/> 3,500K			
	<input type="checkbox"/> 4,000K			

☐ NEBULA V - PR COB LED (REFLECTOR, PC)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 30° Medium narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Medium flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 3,500K			
<input type="checkbox"/> 80° Medium wide flood	<input type="checkbox"/> 4,000K			



DOWN

NEBULA V LUMINAIRE HEAD DOWN LIGHT

ST

PR

Screen shape

Transparent flat
glass

Prismatic flat
Glass

NEBULA BOLLARD

Nebula Bollard luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA BOLLARD CONFIGURATION # _____ LUMINAIRE HEAD DOWN LIGHT

Luminaire configuration number to be also written in the lamp post configuration page.

☐ NEBULA BOLLARD - EMPTY

☐ NEBULA BOLLARD - ST

HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V	<input type="checkbox"/> 3,000K		<input type="checkbox"/> DALI	
	<input type="checkbox"/> 3,500K			
	<input type="checkbox"/> 4,000K			

☐ NEBULA BOLLARD - A + W

HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber +	<input type="checkbox"/> 180 lm (A)	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V	White	<input type="checkbox"/> 800 lm (W)	<input type="checkbox"/> DALI	

☐ NEBULA BOLLARD - LUMINAIRE HEAD

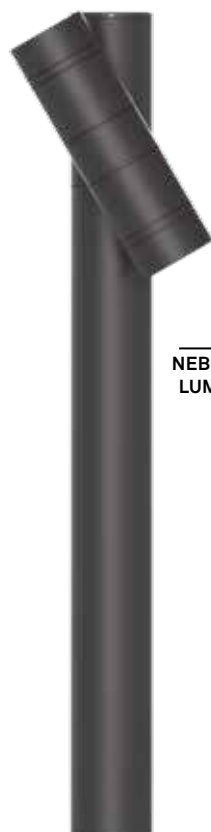
COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	

☐ NEBULA BOLLARD - POLE

COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	



DOWN

NEBULA BOLLARD LUMINAIRE HEAD DOWN LIGHT

ST

A + W

Screen shape

Prismatic flat
glass

NERI

Nebula Bollard

Fixing: Side entry

Luminaire head
configuration form

NEBULA BOLLARD

Nebula Bollard luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA BOLLARD CONFIGURATION # _____ LUMINAIRE HEAD DOWN LIGHT

Luminaire configuration number to be also written in the lamp post configuration page.

☐ NEBULA BOLLARD - EMPTY

☐ NEBULA BOLLARD - PR COB LED (REFLECTOR, PC)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 30° Medium narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Medium flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500	<input type="checkbox"/> DALI	
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 3,500K			
<input type="checkbox"/> 80° Medium wide flood	<input type="checkbox"/> 4,000K			

☐ NEBULA BOLLARD - RGBW HIGH POWER LED (SINGLE LENS, PMMA)

Optic system	CCT	Lumen output	Driver function	Screen shape
<input type="checkbox"/> 15 ° Very narrow spot	<input type="checkbox"/> RGBW	<input type="checkbox"/> 333 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		<input type="checkbox"/> 289 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		<input type="checkbox"/> 89 lm (B)		
		<input type="checkbox"/> 500 lm (W)		

☐ NEBULA BOLLARD - LUMINAIRE HEAD COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	

☐ NEBULA BOLLARD - POLE COLOUR

Powder coating	Anodising
<input type="checkbox"/> Neri grey	<input type="checkbox"/> Silver anodising
<input type="checkbox"/> Pure white	<input type="checkbox"/> Gold anodising
<input type="checkbox"/> White aluminium	<input type="checkbox"/> Bronze anodising
<input type="checkbox"/> Grey aluminium	<input type="checkbox"/> Brown anodising
<input type="checkbox"/> Jet black	<input type="checkbox"/> Black anodising
<input type="checkbox"/> Moss green	

UP

NEBULA BOLLARD LUMINAIRE HEAD UP LIGHT

PR

RGBW

Screen shape

Transparent flat
Glass

Prismatic flat
Glass