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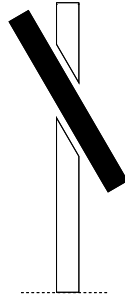
# NERI

## HOW TO CONFIGURE

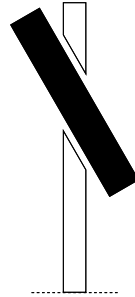
Planning with Nebula modular system is easy. Follow our step by step guide to achieve your desired configuration.

### 1. Luminaire head types

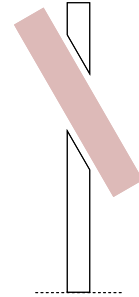
Select luminaire size and decide how many you need for your scheme. Three luminaire head types are available: Nebula Small (S), Nebula Large (L) and Nebula Venezia (V).



Nebula Small luminaire head  
h 900 mm, Ø 105 mm

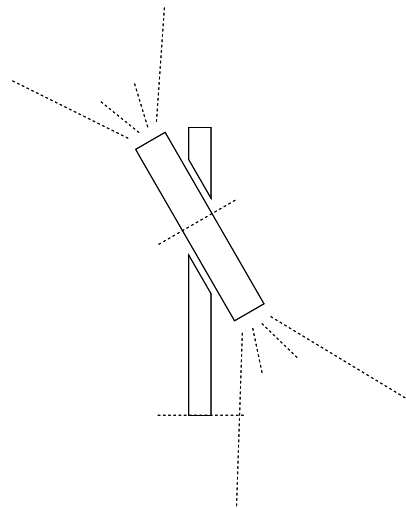


Nebula Large luminaire head  
h 900 mm, Ø 155 mm



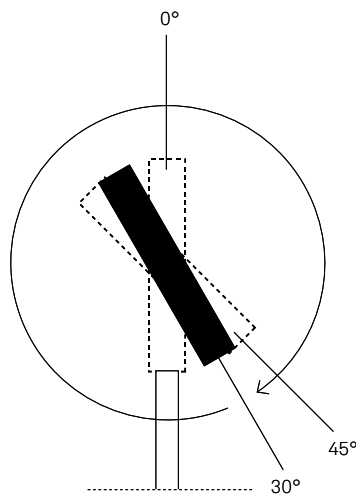
Nebula Venezia luminaire head  
h 900 mm, Ø 150 mm

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.

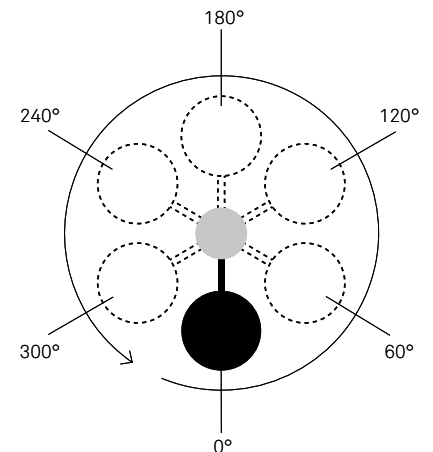


### 2. Arrangement

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

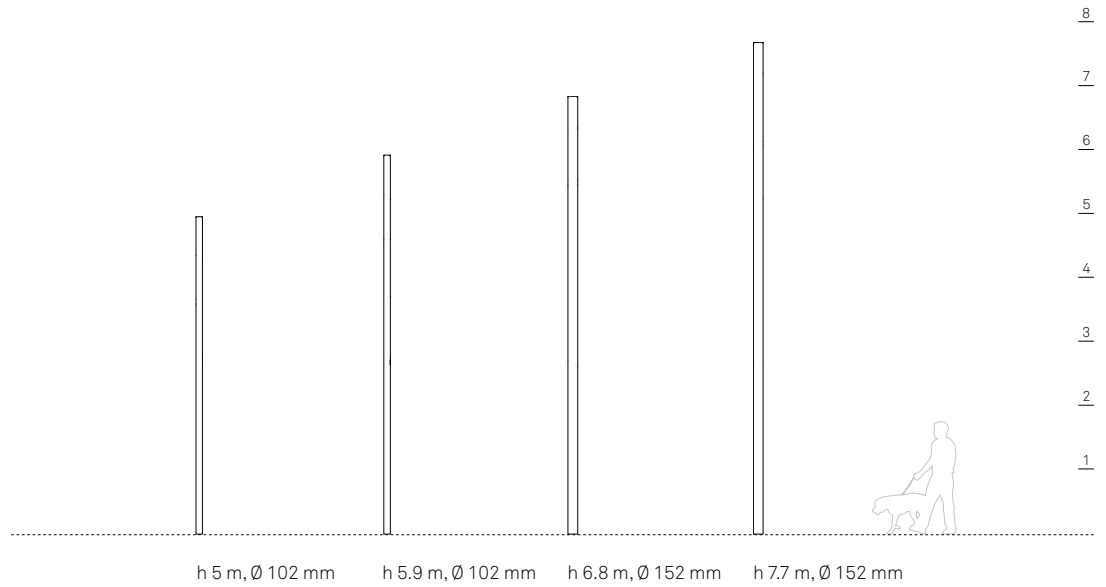
# NERI

## 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

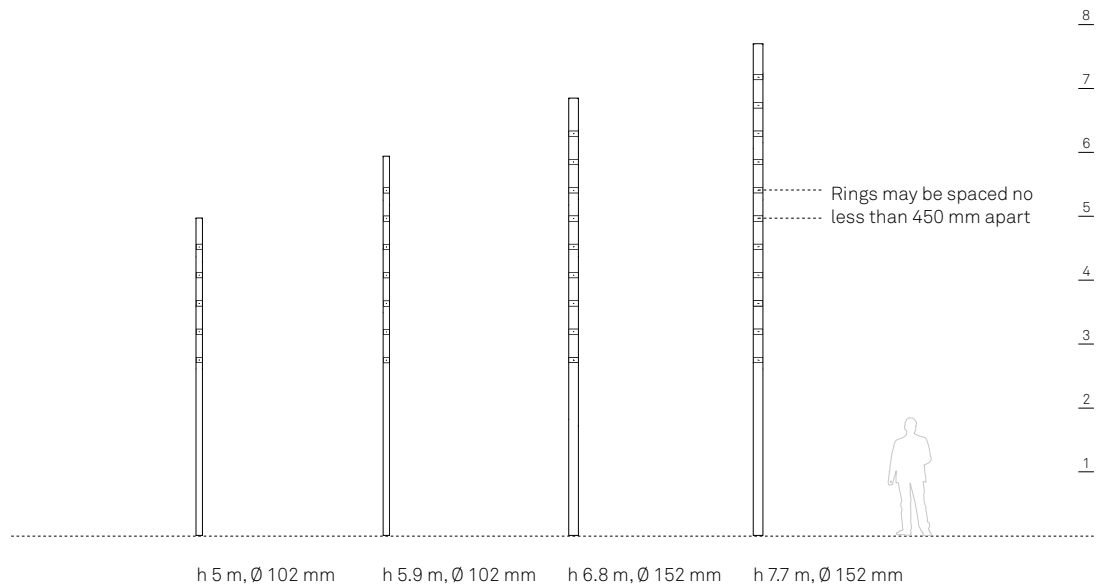
Choose between four standard pole heights and two pole diameters.



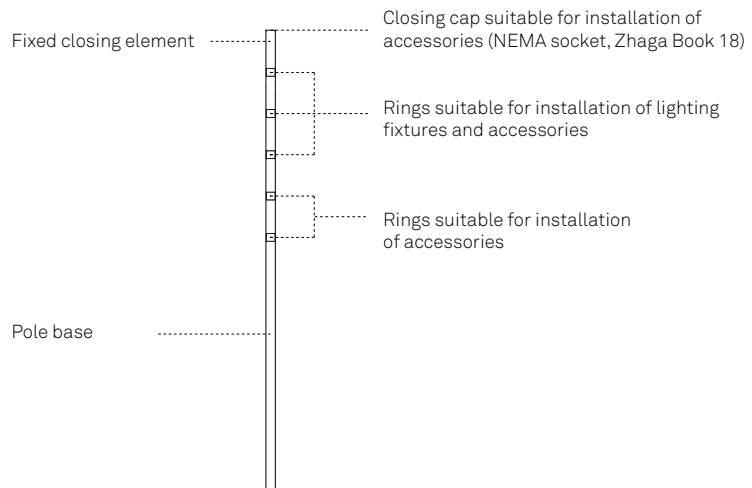
### 4. Rings

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.



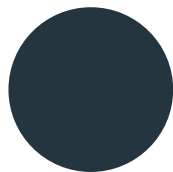
# NERI

## HOW TO CONFIGURE

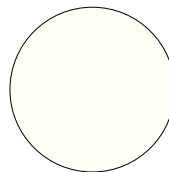
Planning with Nebula modular system is easy. Follow our step by step guide to achieve your desired configuration.

### 5. Colour

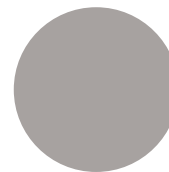
Standard colour for the system is Neri grey. Other colours available are: pure white, white aluminium, grey aluminium, jet black, moss green.



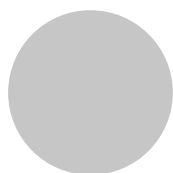
Neri Grey



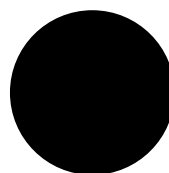
Pure White  
RAL 9010



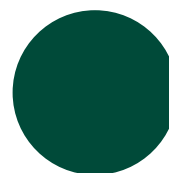
White Aluminium  
RAL 9006



Grey Aluminium  
RAL 9007



Jet Black  
RAL 9005

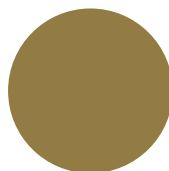


Moss Green  
RAL 6005

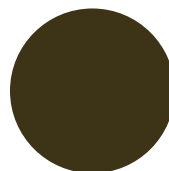
Additional finishes are available for luminaire heads: silver, gold, bronze, brown and black anodising.



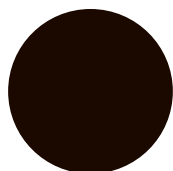
Silver  
Anodising



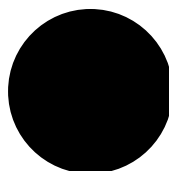
Gold  
Anodising



Bronze  
Anodising



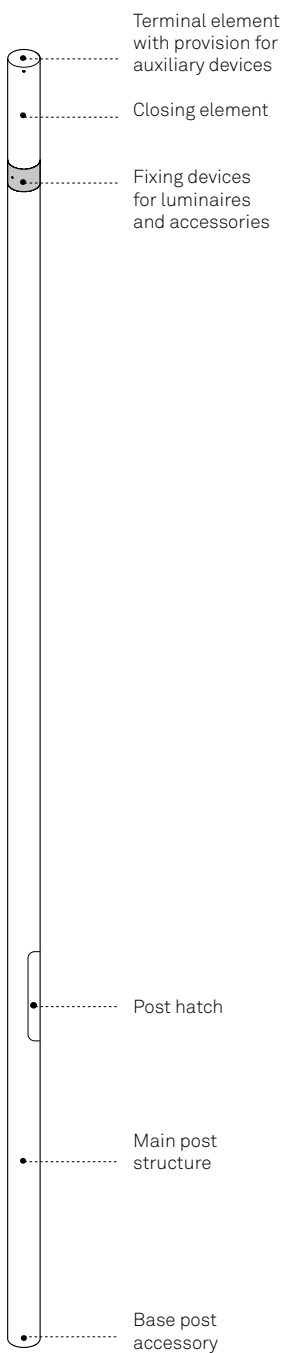
Brown  
Anodising



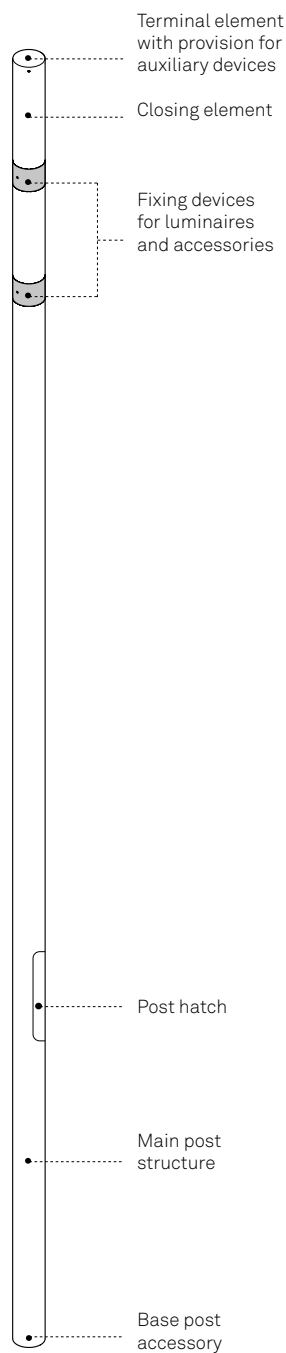
Black  
Anodising

## NEBULA POLE SYSTEM H 5 m

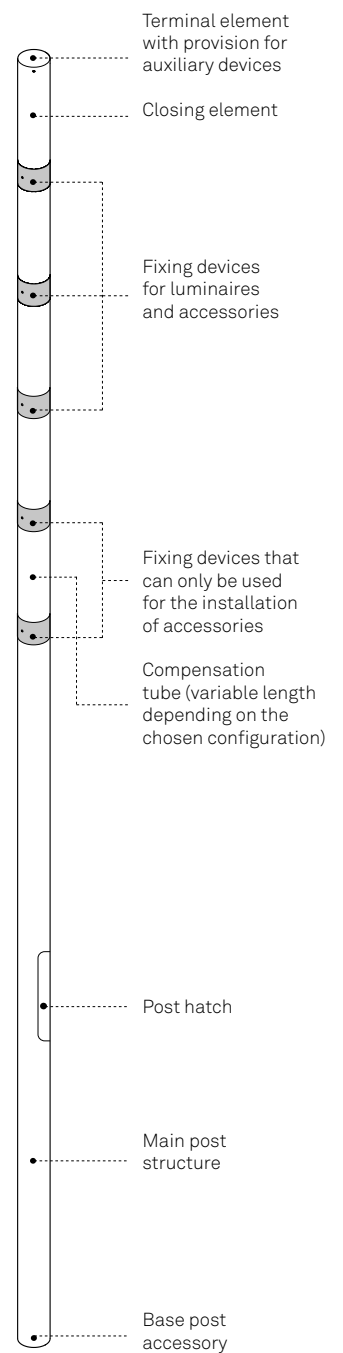
The Nebula system allows numerous configurations. The number of fixing devices for luminaires and accessories varies according to the main structure of the chosen post.



COD.ANEB.501.001



COD.ANEB.501.002

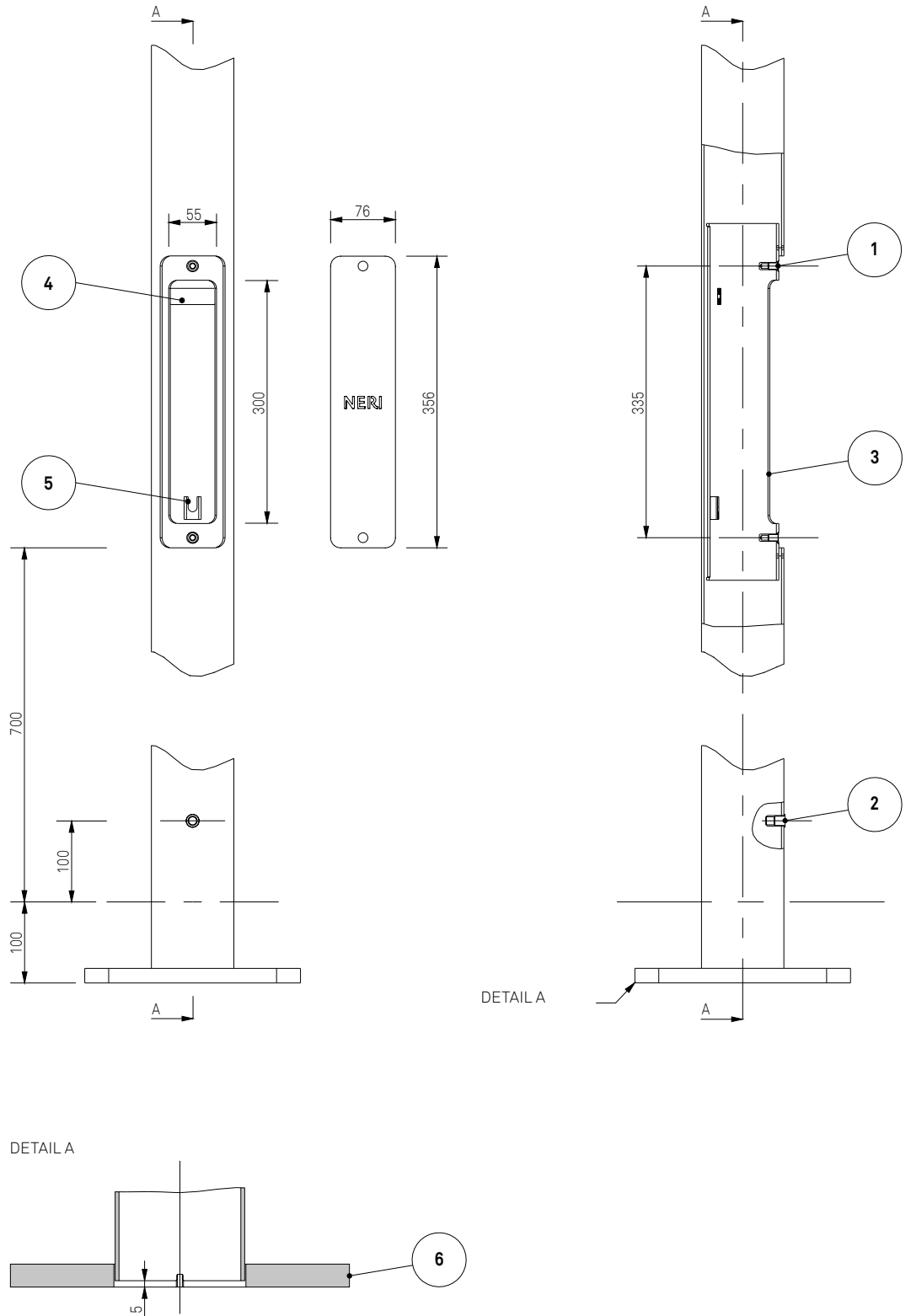


COD.ANEB.501.005

## POST HATCH

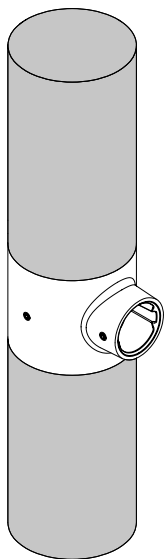
### Legend

- 1 - M6 threaded insert for door closing
- 2 - M10 threaded insert for grounding
- 3 - Hatch Stop
- 4 - Terminal block fixing
- 5 - Post grounding fixing pocket
- 6 - Flange



**FIXING DEVICES:**

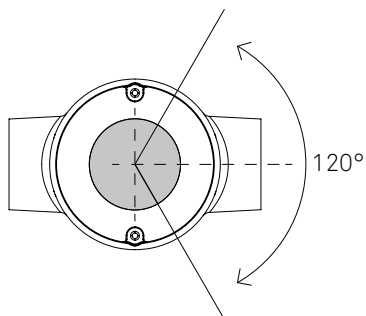
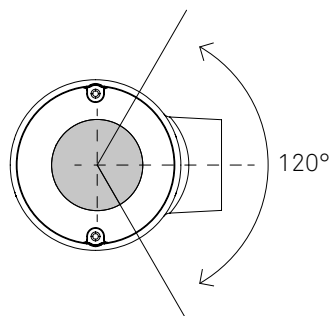
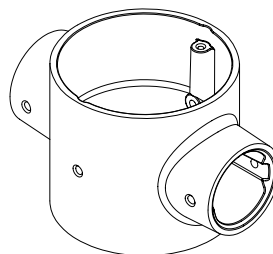
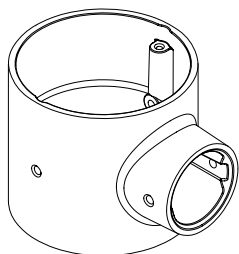
The fixing devices, in single or double version, allow the installation of accessories and luminaires to the type of post chosen.



The permissible rotation of the fixing device for the luminaires is 120°.

The accessories can be installed in 90° steps.

Using the double element the accessories / luminaires are placed at 180°.



**COMPENSATION TUBE:**

The compensation tubes are made of steel and hot-dip galvanized. The number and length of modular elements are determined by the final configuration of the chosen system.

Compensation pipe codes for post models\_ ANEB.501.001, ANEB.501.002, ANEB.501.005

Cod. 9525\_388\_041  
- H Tot. 450 mm

Cod. 9525\_388\_042  
- H Tot. 900 mm

Cod. 9525\_388\_043  
- H Tot. 1350 mm

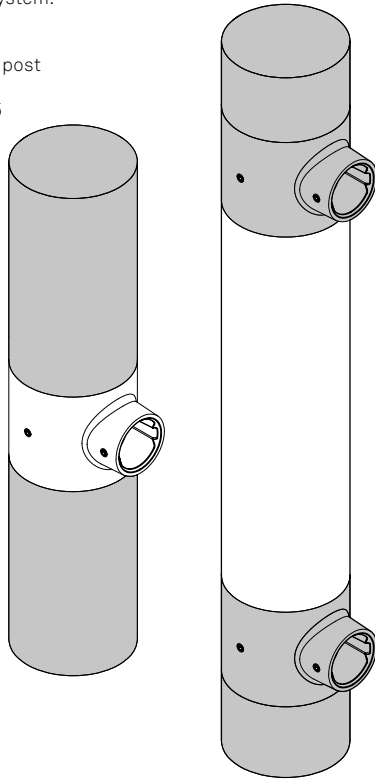
Cod. 9525\_388\_044  
- H Tot. 1800 mm

Cod. 9525\_388\_047  
- H Tot. 360 mm

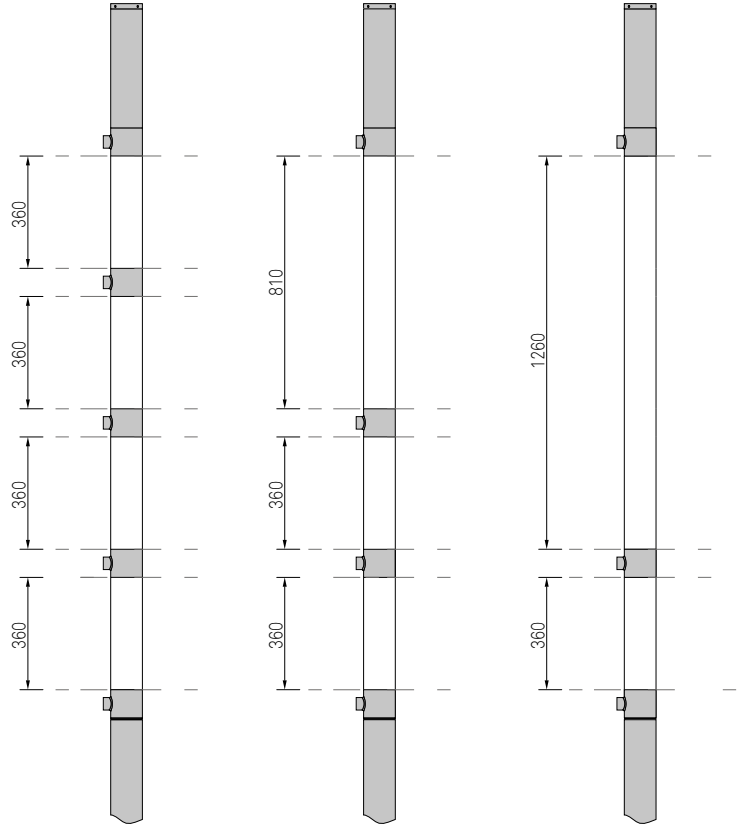
Cod. 9525\_388\_048  
- H Tot. 810 mm

Cod. 9525\_388\_049  
- H Tot. 1260 mm

Cod. 9525\_388\_050  
- H Tot. 1710 mm



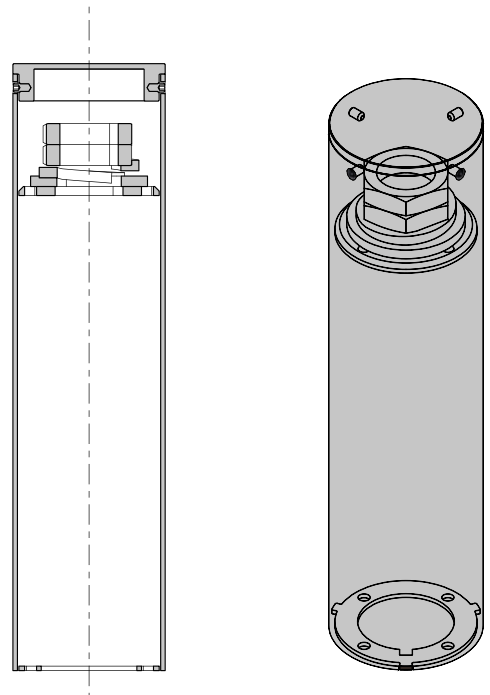
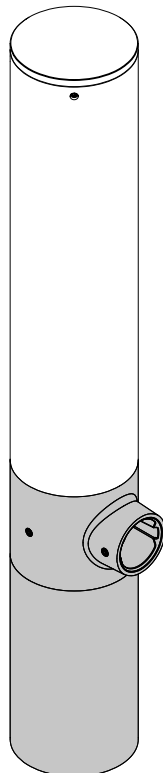
Example of compensation tubes with configuration cod. ANEB.501.005



**LOCKING ELEMENT:**

The closing tube enables the fixing of the components to the post core. The assembly is completed by a cover placed at the top end and fixed with four screws.

Cod. 9525\_388\_019  
- H Tot. 398 mm



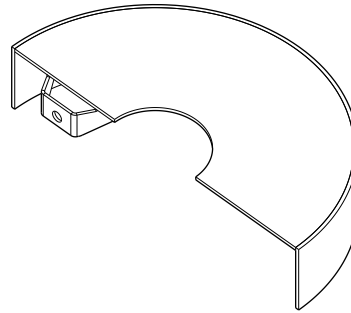
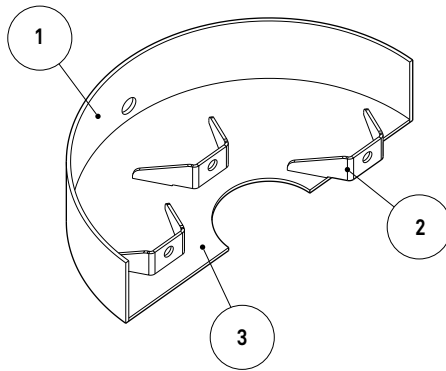
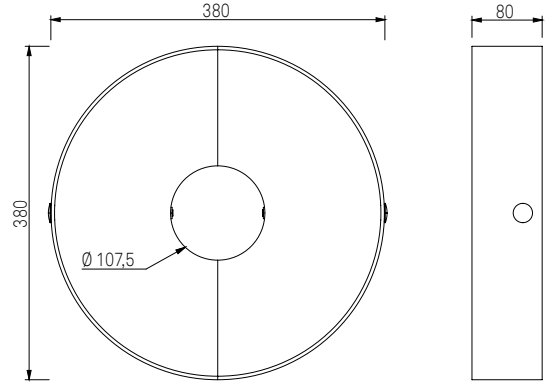
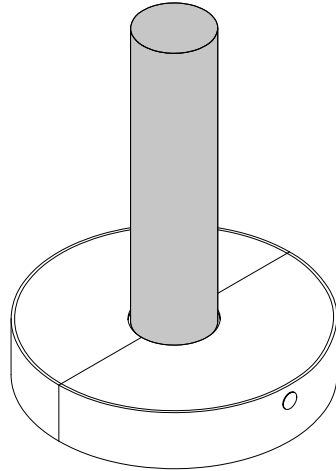


**POST BASE ACCESSORY:**

Steel flange cover and hot-dip galvanized, consisting of two separate elements. The separation of the component allows the use of the accessory also in phases after the installation of the post.

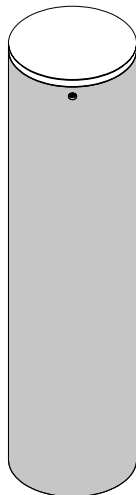
**Legend**

- 1 - Upper sheet metal
- 2 - Collar
- 3 - Lower sheet metal



**TERMINAL ELEMENT:**

Ready for auxiliary devices:  
- Zhaga Connector (Book18)  
- NEMA Connector (3 PIN, 7 PIN)



## MAIN STRUCTURE POLES H 5m

### Conformity

CE certified post, in compliance with UNI EN 40-5.

### 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 4505 mm.
- (B) Tube diam. 60 x 365 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: 48,5 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:

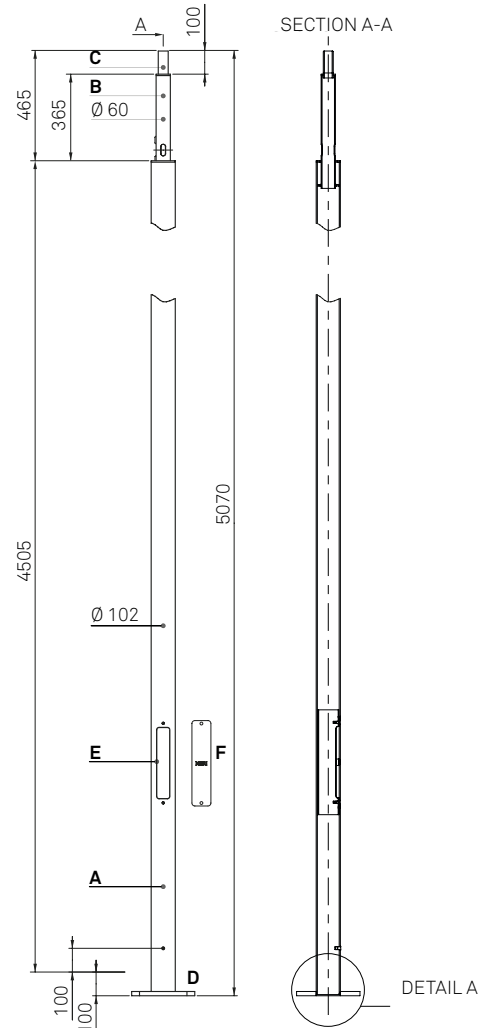
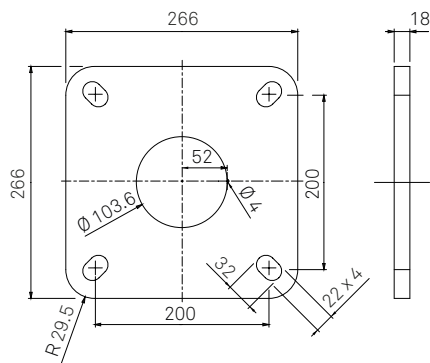
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS

DETAIL A - FLANGE PLAN



## MAIN STRUCTURE POLES H 5m

### Conformity

CE certified post, in compliance with UNI EN 40-5.

### 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 4005 mm.
- (B) Tube diam. 60 x 815 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: 47,5 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:

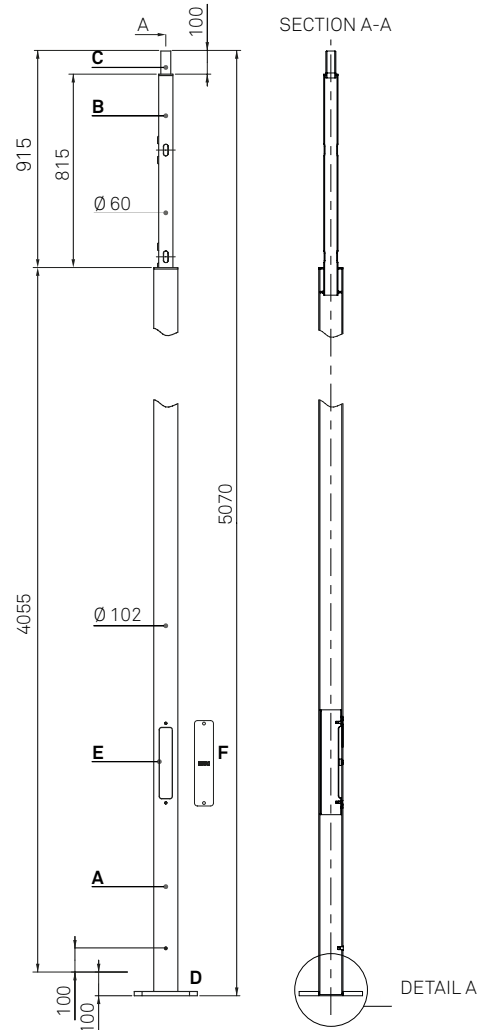
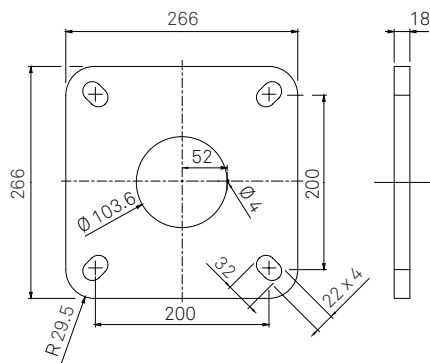
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS

DETAIL A - FLANGE PLAN



## MAIN STRUCTURE POLES H 5m

### Conformity

CE certified post, in compliance with UNI EN 40-5.

### 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: 59 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:

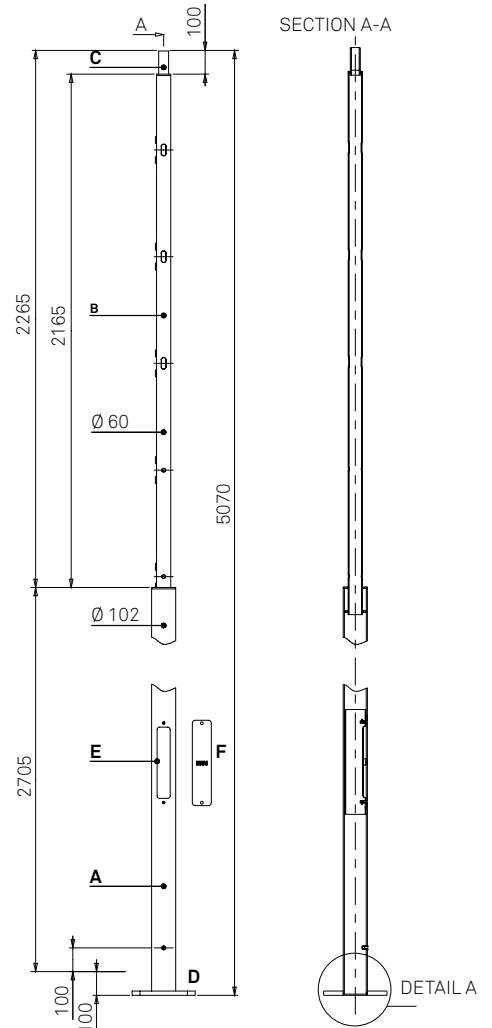
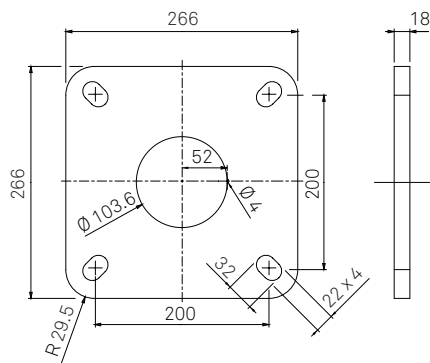
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

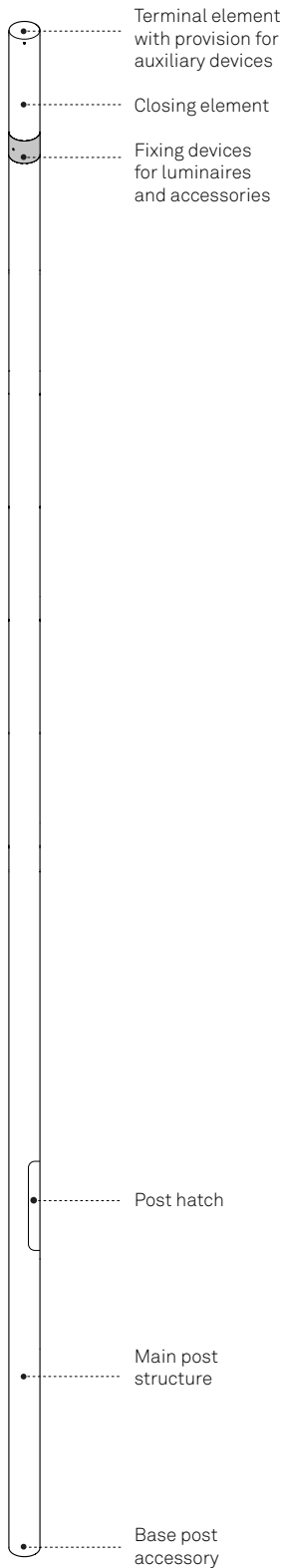
## DRAWINGS

DETAIL A - FLANGE PLAN

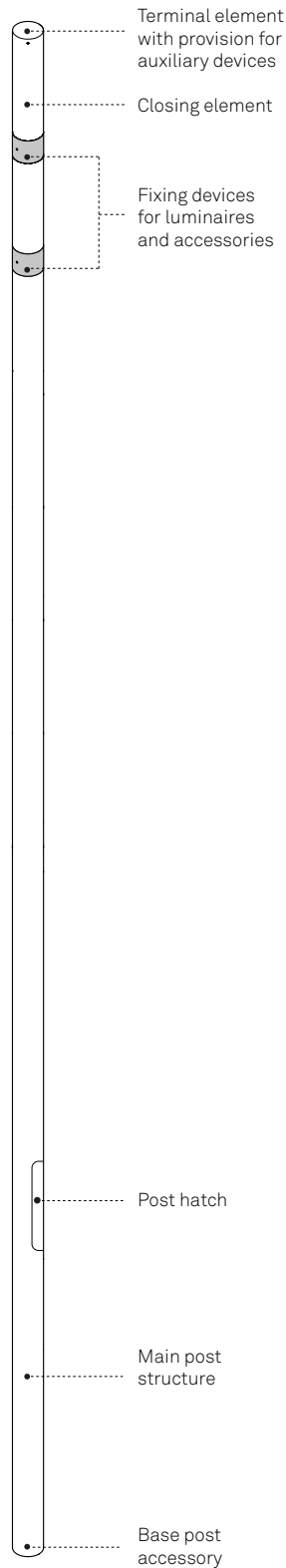


## NEBULA POLE SYSTEM H 5,9 m

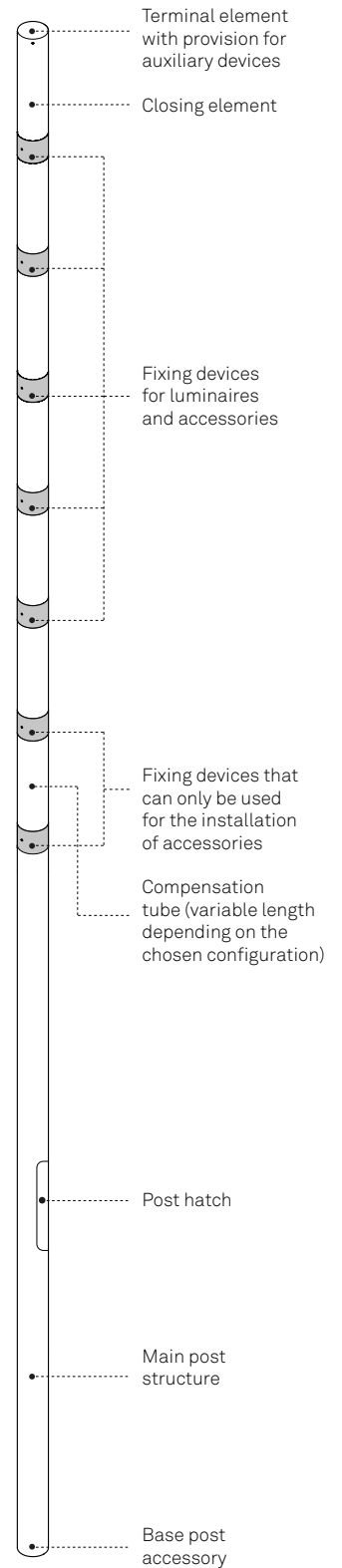
The Nebula system allows numerous configurations. The number of fixing devices for luminaires and accessories varies according to the main structure of the chosen post.



COD.ANEB.601.001



COD.ANEB.601.002

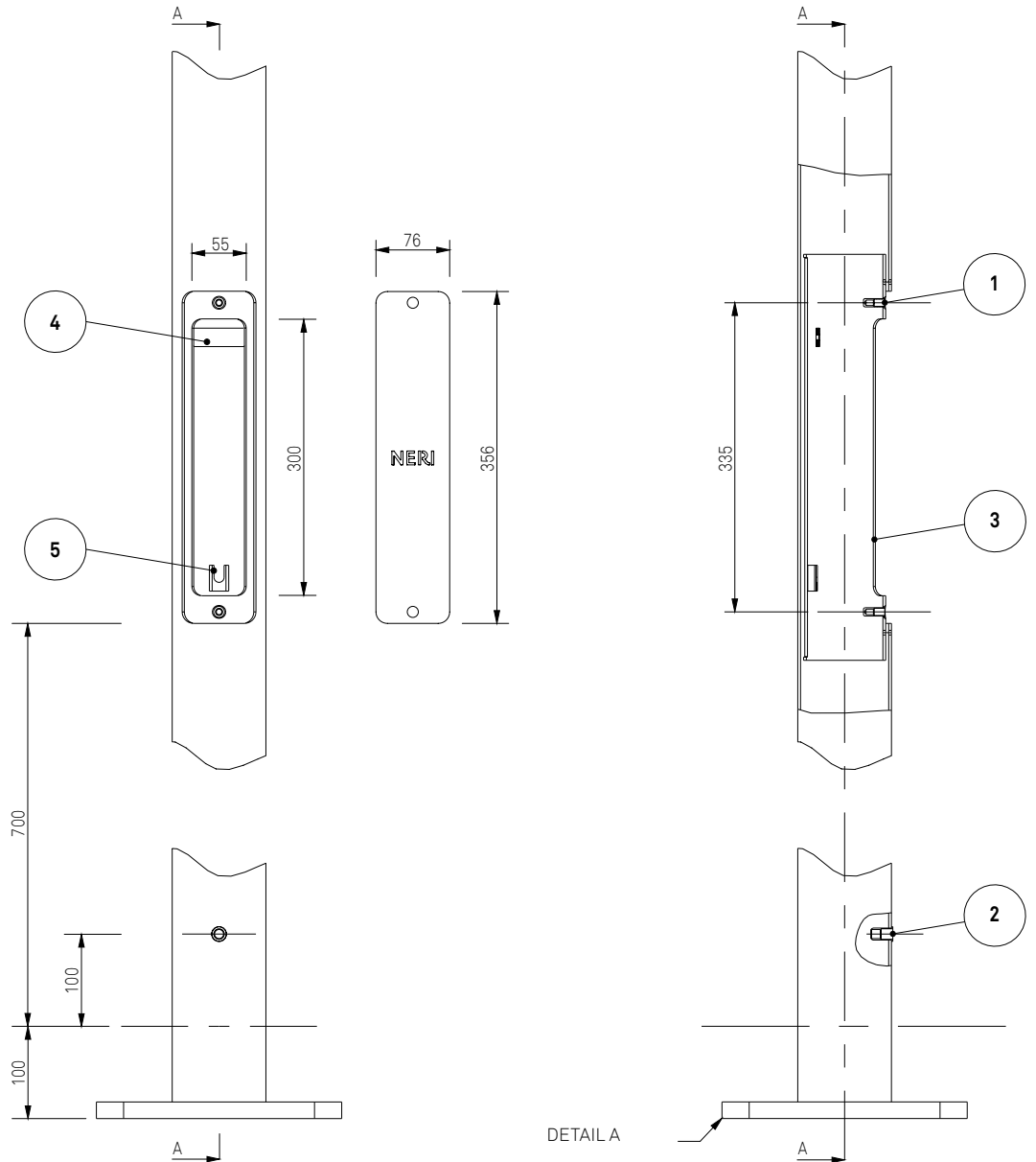


COD.ANEB.601.007

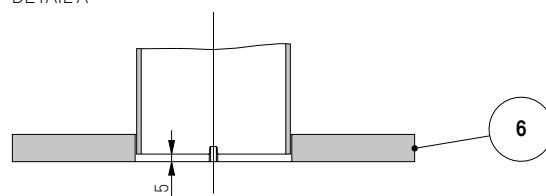
## POST HATCH

### Legend

- 1 - M6 threaded insert for door closing
- 2 - M10 threaded insert for grounding
- 3 - Hatch Stop
- 4 - Terminal block fixing
- 5 - Post grounding fixing pocket
- 6 - Flange

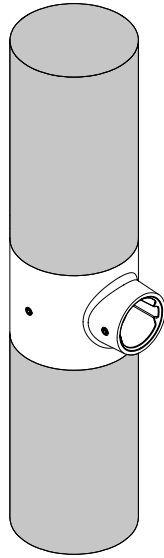


DETAIL A



**FIXING DEVICES:**

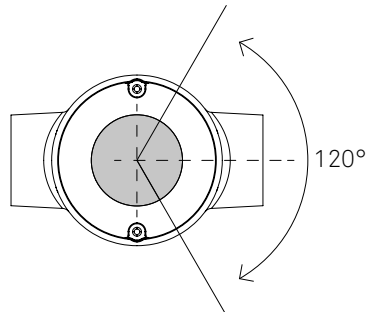
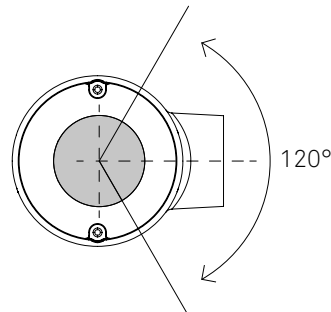
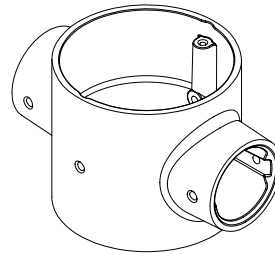
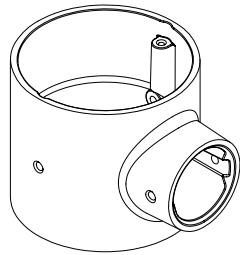
The fixing devices, in single or double version, allow the installation of accessories and luminaires to the type of post chosen.



The permissible rotation of the fixing device for the luminaires is 120°.

The accessories can be installed in 90° steps.

Using the double element the accessories / luminaires are placed at 180°.



**COMPENSATION TUBE:**

The compensation tubes are made of steel and hot-dip galvanized. The number and length of modular elements are determined by the final configuration of the chosen system.

Compensation pipe codes for post models\_ ANEB.601.001, ANEB.601.002, ANEB.601.007

Cod. 9525\_388\_041  
- H Tot. 450 mm

Cod. 9525\_388\_042  
- H Tot. 900 mm

Cod. 9525\_388\_043  
- H Tot. 1350 mm

Cod. 9525\_388\_044  
- H Tot. 1800 mm

Cod. 9525\_388\_045  
- H Tot. 2250 mm

Cod. 9525\_388\_046  
- H Tot. 2700 mm

Cod. 9525\_388\_047  
- H Tot. 360 mm

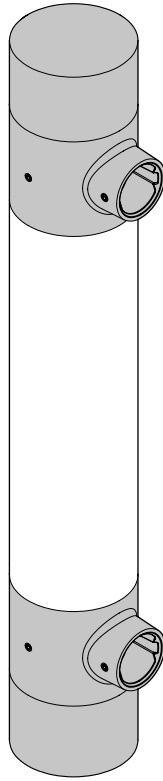
Cod. 9525\_388\_048  
- H Tot. 810 mm

Cod. 9525\_388\_049  
- H Tot. 1260 mm

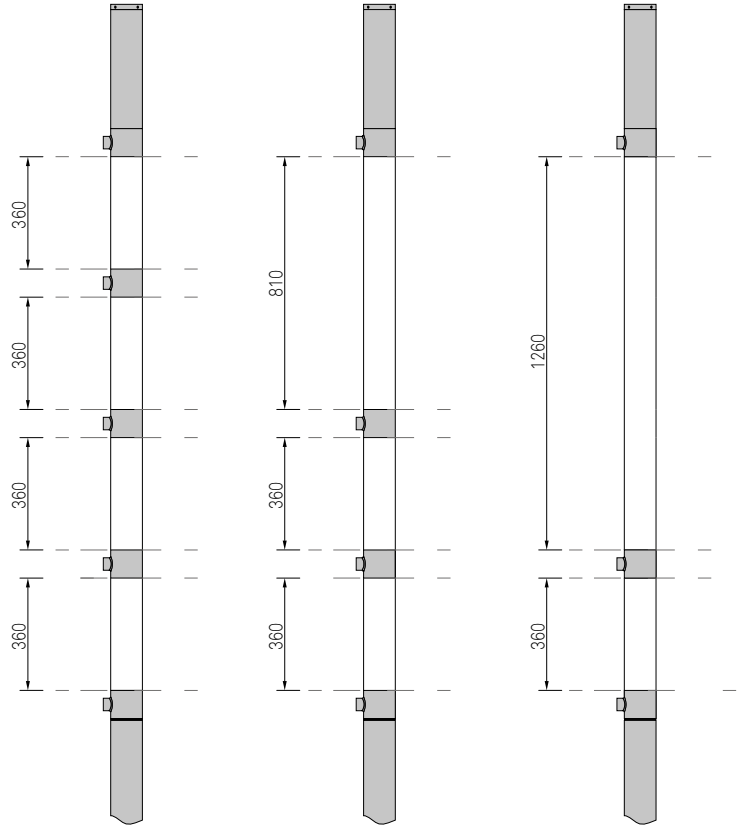
Cod. 9525\_388\_050  
- H Tot. 1710 mm

Cod. 9525\_388\_017  
- H Tot. 2160 mm

Cod. 9525\_388\_018  
- H Tot. 2610 mm



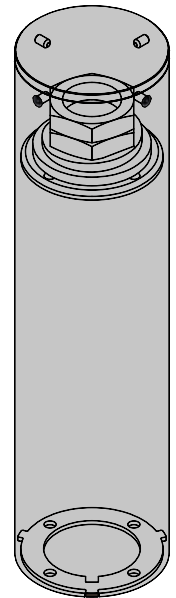
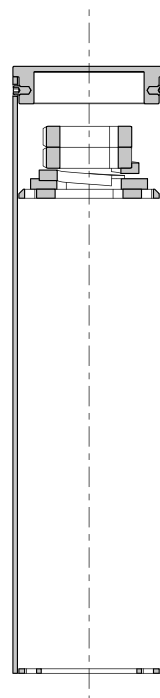
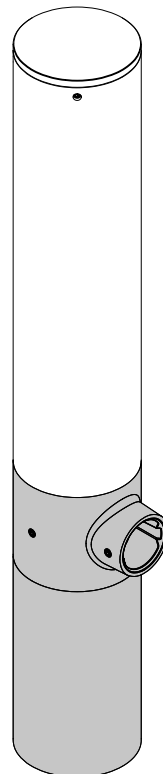
Example of compensation tubes with configuration cod. ANEB.501.005



**LOCKING ELEMENT:**

The closing tube enables the fixing of the components to the post core. The assembly is completed by a cover placed at the top end and fixed with four screws.

Cod. 9525\_388\_019  
- H Tot. 398 mm



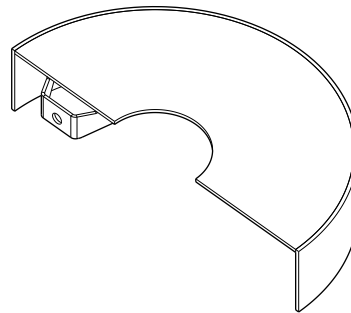
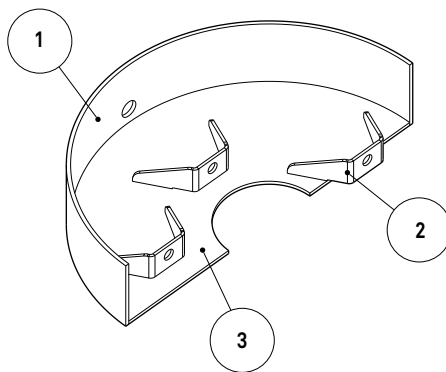
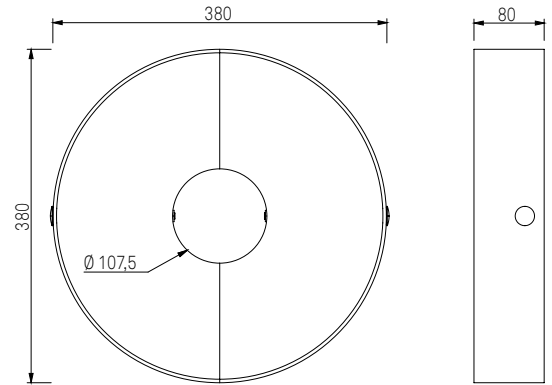
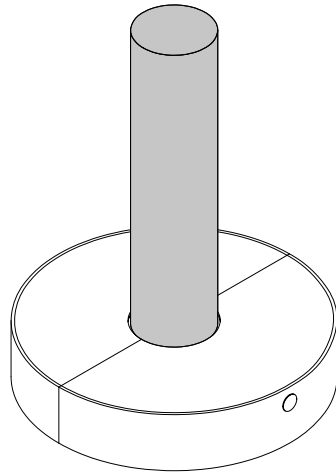


**POST BASE ACCESSORY:**

Steel flange cover and hot-dip galvanized, consisting of two separate elements. The separation of the component allows the use of the accessory also in phases after the installation of the post.

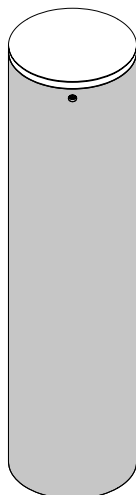
**Legend**

- 1 - Upper sheet metal
- 2 - Collar
- 3 - Lower sheet metal



**TERMINAL ELEMENT:**

Ready for auxiliary devices:  
- Zhaga Connector (Book18)  
- NEMA Connector (3 PIN, 7 PIN)



## MAIN STRUCTURE POLES H 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 5505 mm.  
- (B) Tube diam. 60 x 365 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: 82 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:

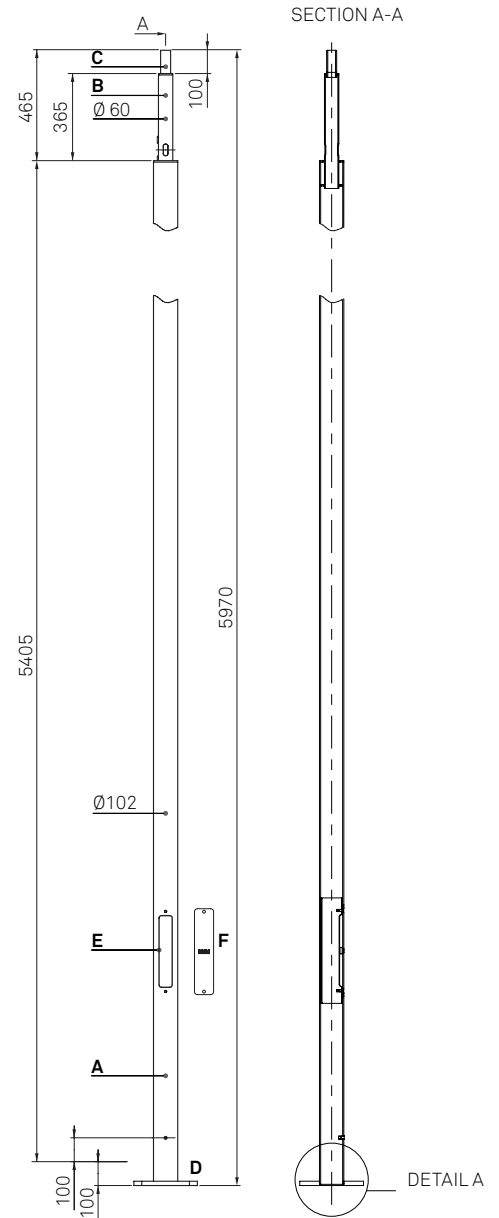
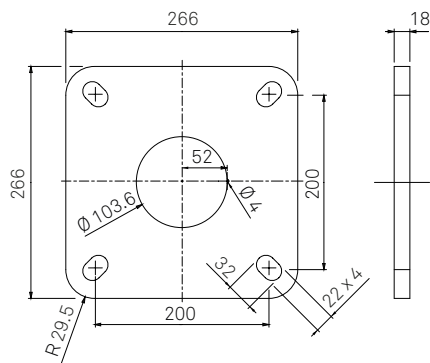
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS

DETAIL A - FLANGE PLAN



## MAIN STRUCTURE POLES H 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 5055 mm.  
- (B) Tube diam. 60 x 815 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: 78 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:

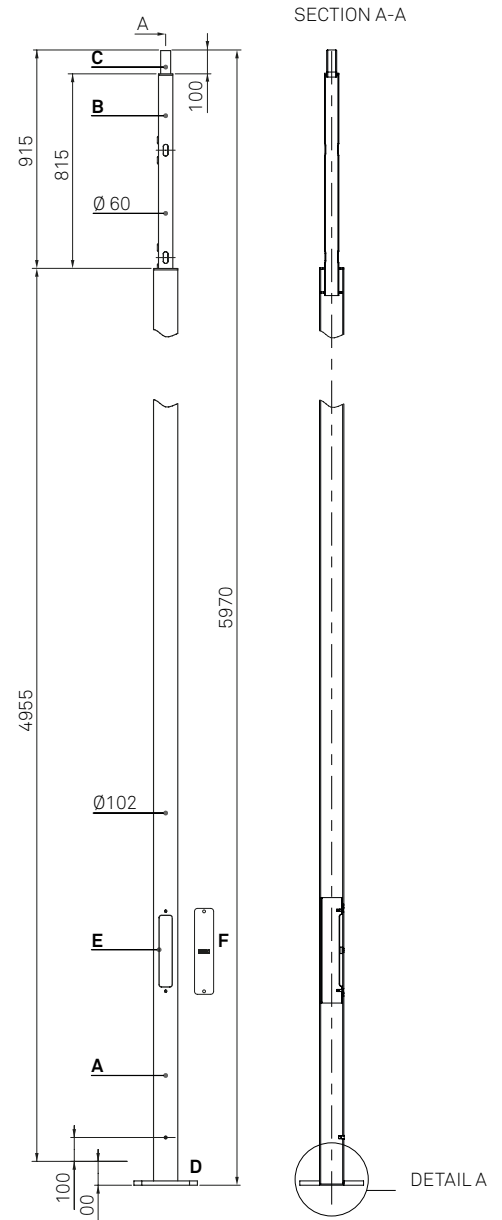
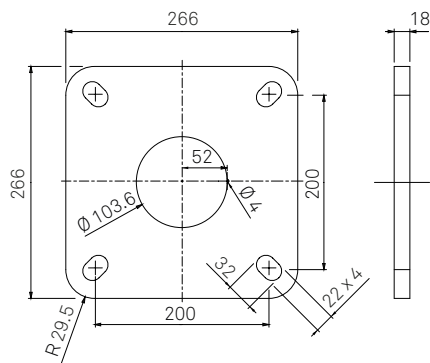
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS

DETAIL A - FLANGE PLAN



## MAIN STRUCTURE POLES H 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: 64 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:

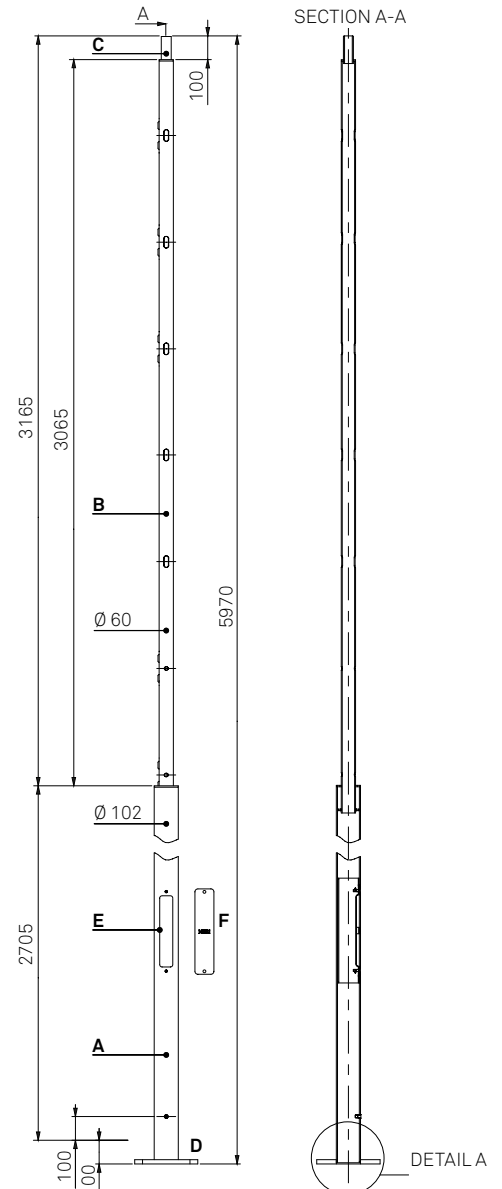
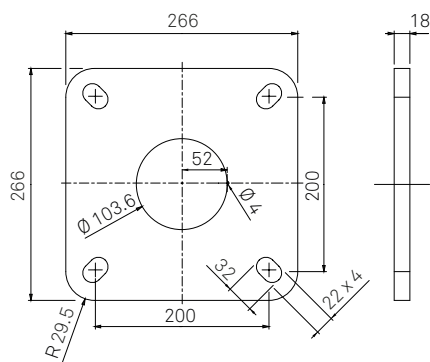
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

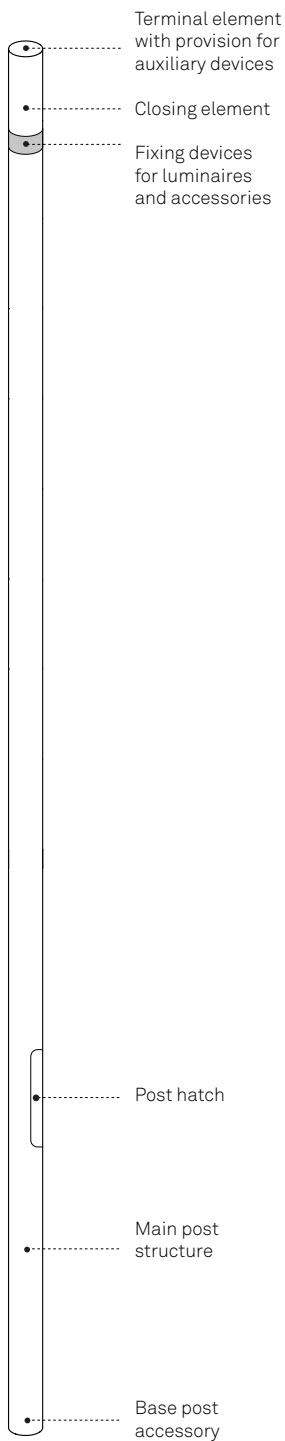
## DRAWINGS

DETAIL A - FLANGE PLAN

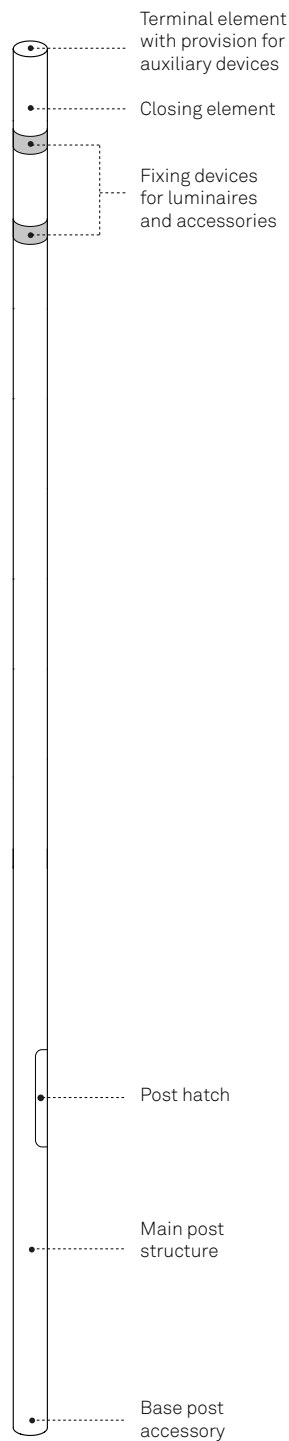


## NEBULA POLE SYSTEM H 6,8 m

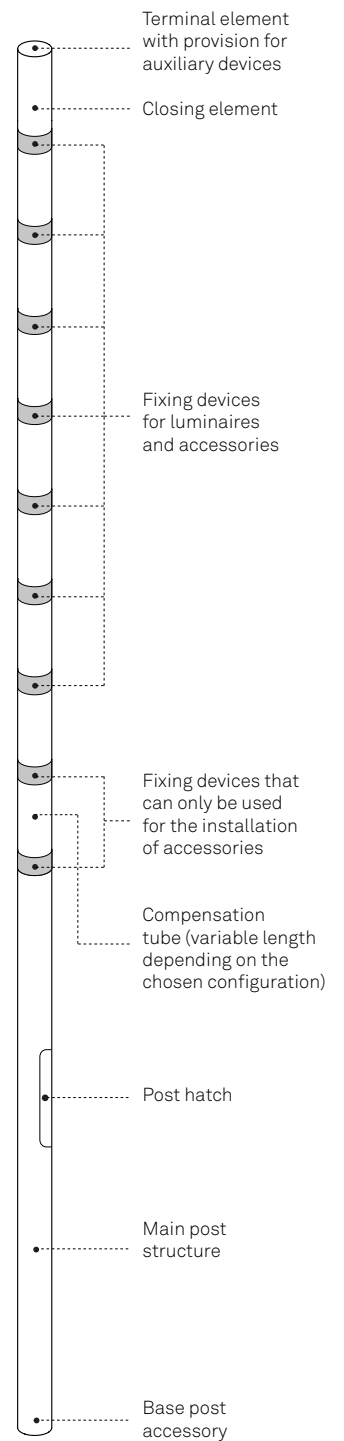
The Nebula system allows numerous configurations. The number of fixing devices for luminaires and accessories varies according to the main structure of the chosen post.



COD.ANEB.701.001



COD.ANEB.701.002

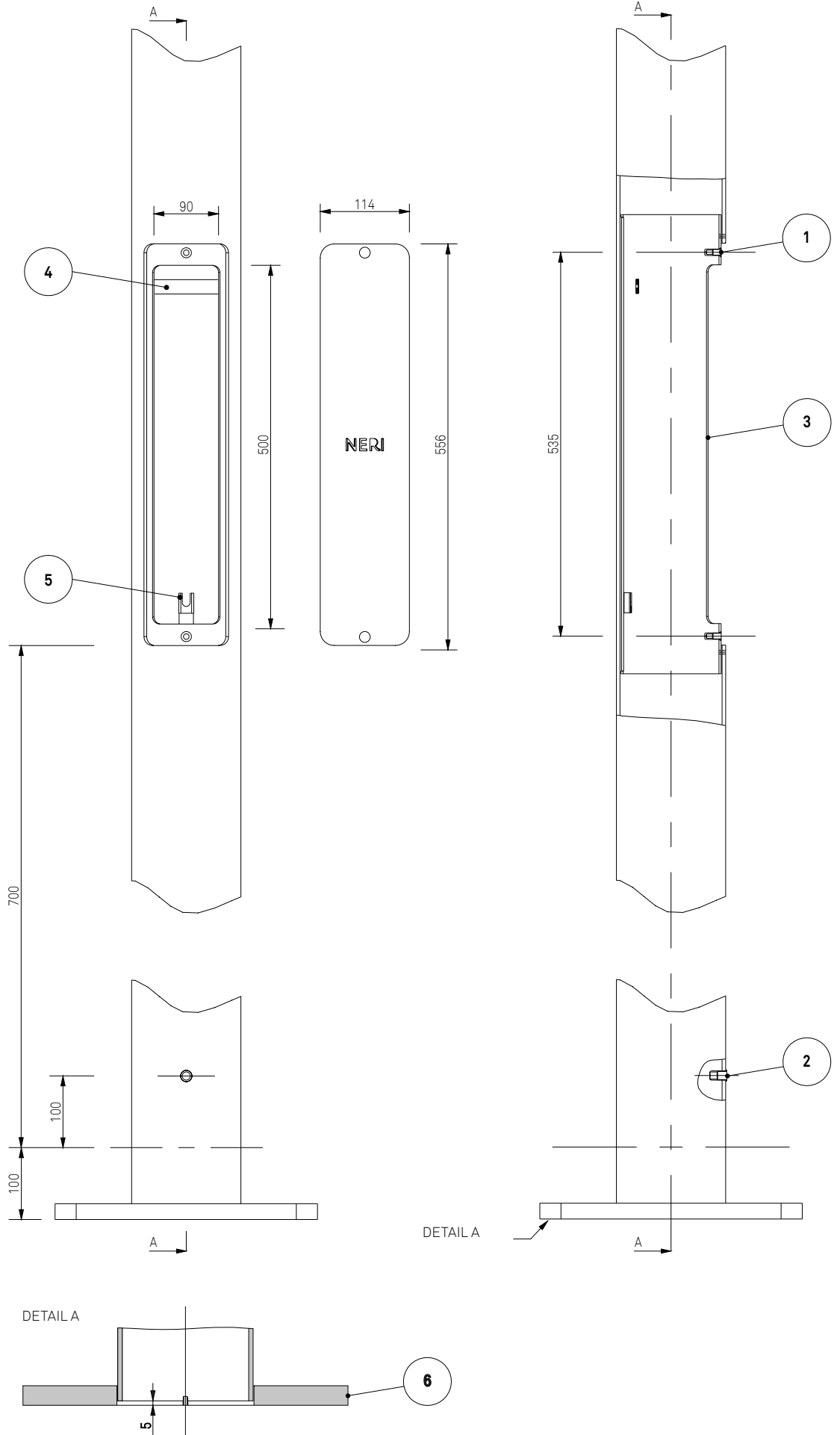


COD.ANEB.701.009

**POST HATCH**

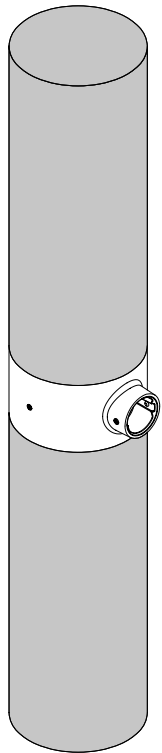
**Legend**

- 1 - M6 threaded insert for door closing
- 2 - M10 threaded insert for grounding
- 3 - Hatch Stop
- 4 - Terminal block fixing
- 5 - Post grounding fixing pocket
- 6 - Flange



**FIXING DEVICES:**

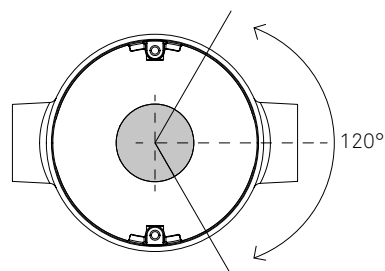
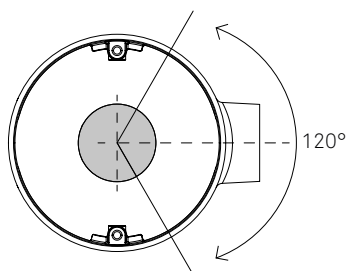
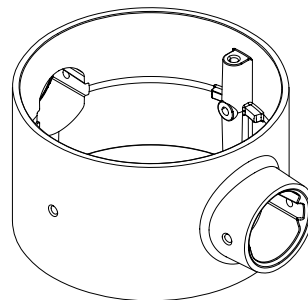
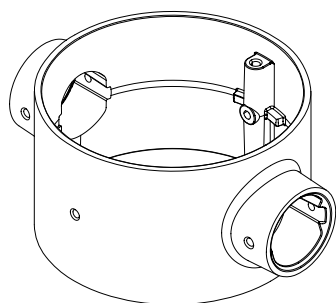
The fixing devices, in single or double version, allow the installation of accessories and luminaires to the type of post chosen.



The permissible rotation of the fixing device for the luminaires is 120°.

The accessories can be installed in 90° steps.

Using the double element the accessories / luminaires are placed at 180°.



**COMPENSATION TUBE:**

The compensation tubes are made of steel and hot-dip galvanized. The number and length of modular elements are determined by the final configuration of the chosen system.

Compensation pipe codes for post models\_ ANEB.701.001, ANEB.701.002, ANEB.701.009

Cod. 9525\_388\_020  
- H Tot. 450 mm

Cod. 9525\_388\_021  
- H Tot. 900 mm

Cod. 9525\_388\_022  
- H Tot. 1350 mm

Cod. 9525\_388\_023  
- H Tot. 1800 mm

Cod. 9525\_388\_024  
- H Tot. 2250 mm

Cod. 9525\_388\_025  
- H Tot. 2700 mm

Cod. 9525\_388\_026  
- H Tot. 3150 mm

Cod. 9525\_388\_027  
- H Tot. 3600 mm

Cod. 9525\_388\_030  
- H Tot. 360 mm

Cod. 9525\_388\_031  
- H Tot. 810 mm

Cod. 9525\_388\_032  
- H Tot. 1260 mm

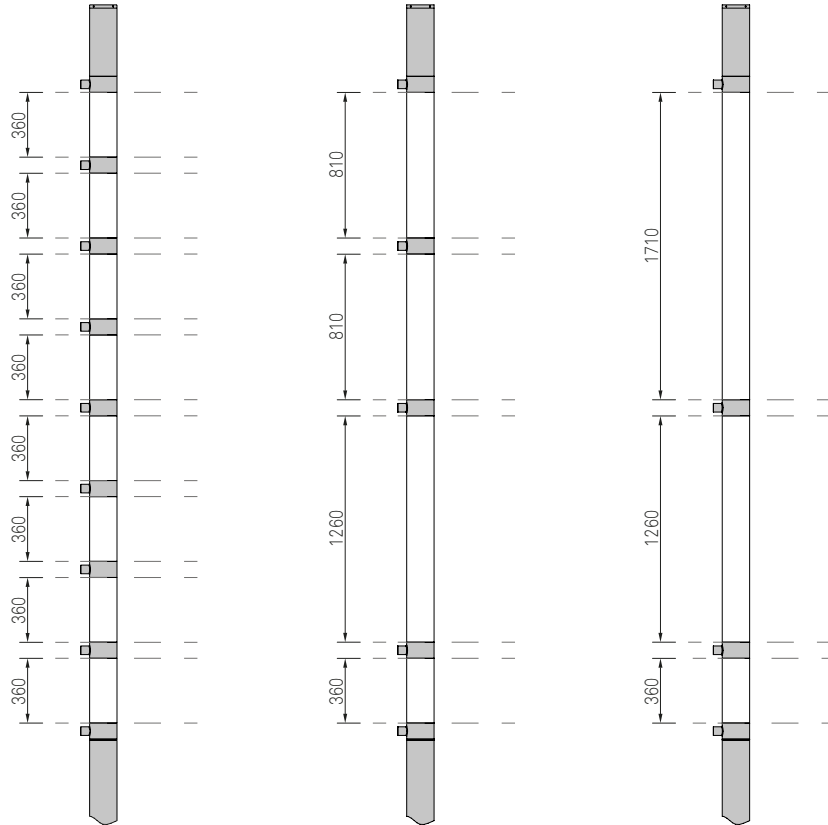
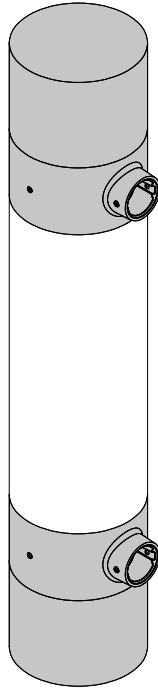
Cod. 9525\_388\_033  
- H Tot. 1710 mm

Cod. 9525\_388\_034  
- H Tot. 2160 mm

Cod. 9525\_388\_035  
- H Tot. 2610 mm

Cod. 9525\_388\_036  
- H Tot. 3060 mm

Cod. 9525\_388\_037  
- H Tot. 3510 mm



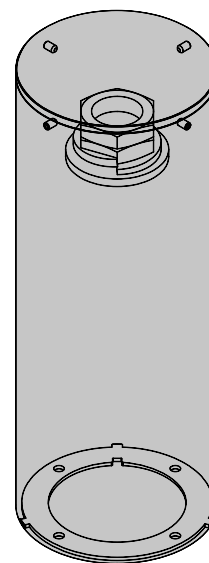
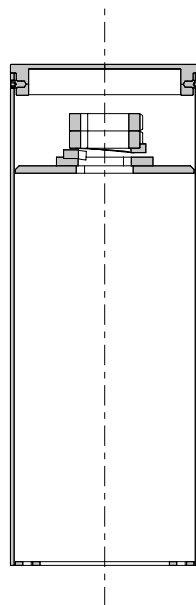
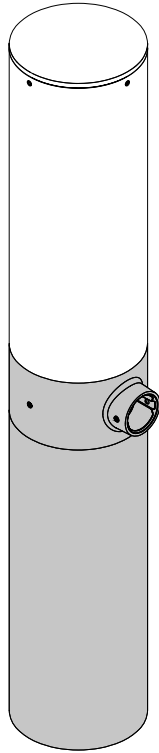
Example of compensation tubes with configuration cod. ANEB.701.009



**LOCKING ELEMENT:**

The closing tube enables the fixing of the components to the post core. The assembly is completed by a cover placed at the top end and fixed with four screws.

Cod. 9525\_388\_040  
- H Tot. 398 mm

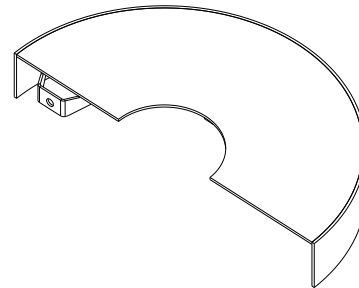
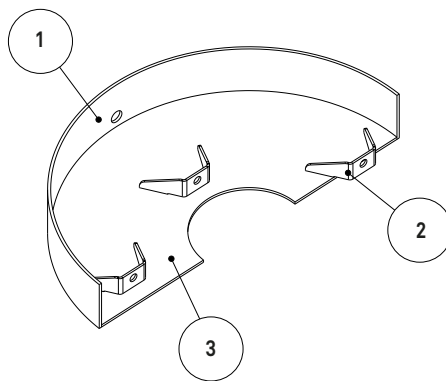
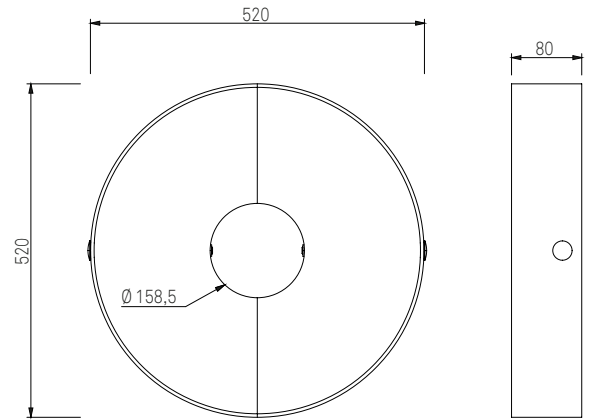
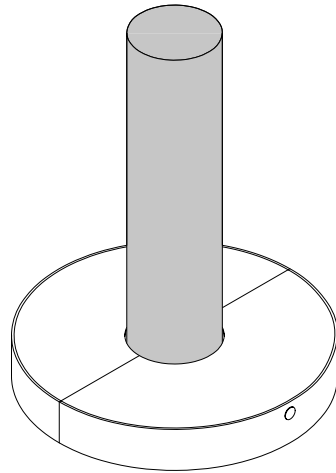


### POST BASE ACCESSORY:

Steel flange cover and hot-dip galvanized, consisting of two separate elements. The separation of the component allows the use of the accessory also in phases after the installation of the post.

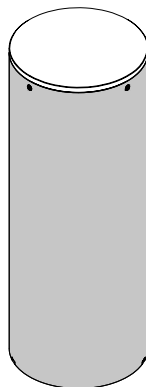
### Legend

- 1 - Upper sheet metal
- 2 - Collar
- 3 - Lower sheet metal



### TERMINAL ELEMENT:

Ready for auxiliary devices:  
- Zhaga Connector (Book18)  
- NEMA Connector (3 PIN, 7 PIN)



## MAIN STRUCTURE POLES H 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 6305 mm.  
- (B) Tube diam. 102 x 365 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: 6870 mm.  
- Height useful: 6770 mm.  
- Weight max: 152,5 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

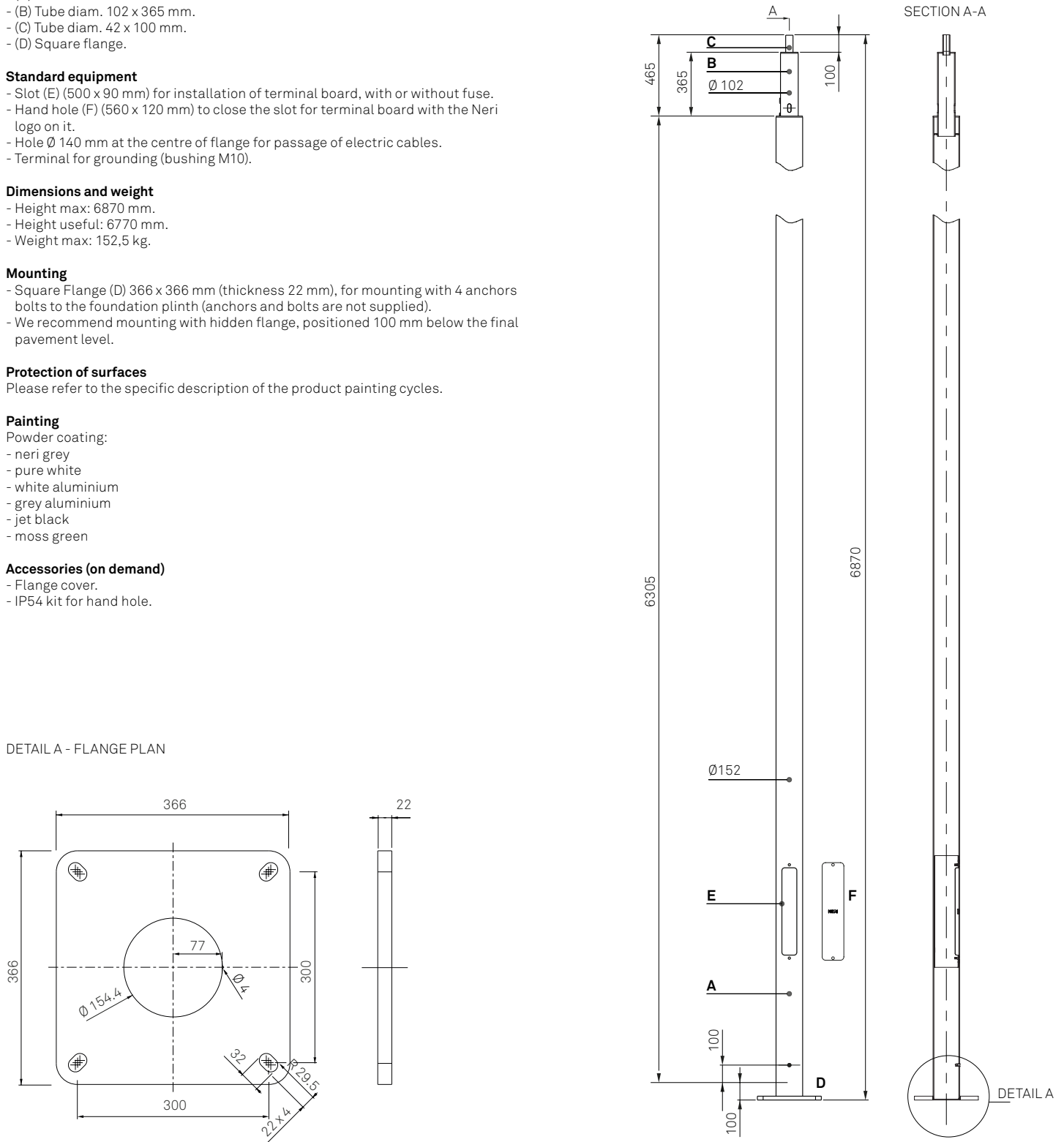
Powder coating:

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

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS



## MAIN STRUCTURE POLES H 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 5855 mm.  
- (B) Tube diam. 102 x 815 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: 6870 mm.  
- Height useful: 6770 mm.  
- Weight max: 149 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:

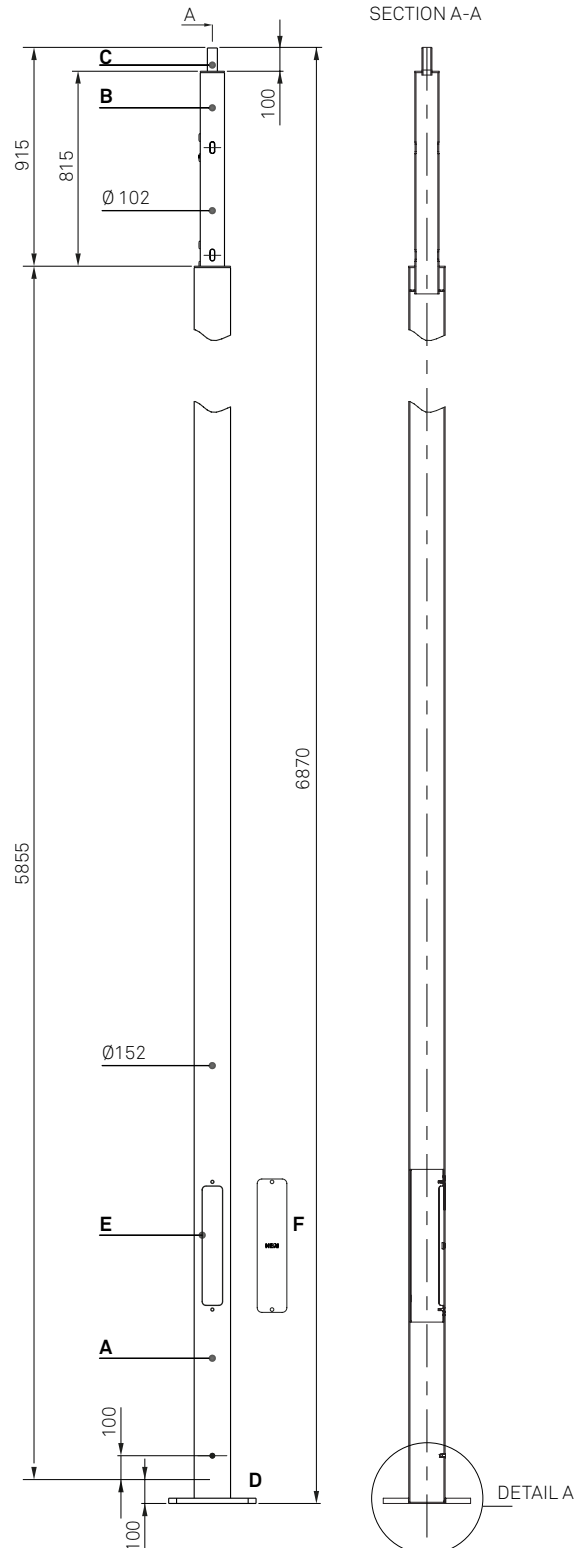
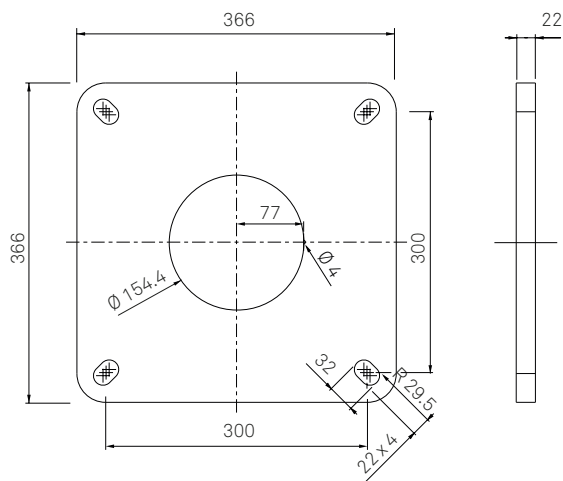
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS

DETAIL A - FLANGE PLAN



## MAIN STRUCTURE POLES H 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  $\varnothing$  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: 128 kg.

### Mounting

- Square Flange (D) 366 x 366 mm (thickness 22 mm), for mounting with 4 anchors and 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:

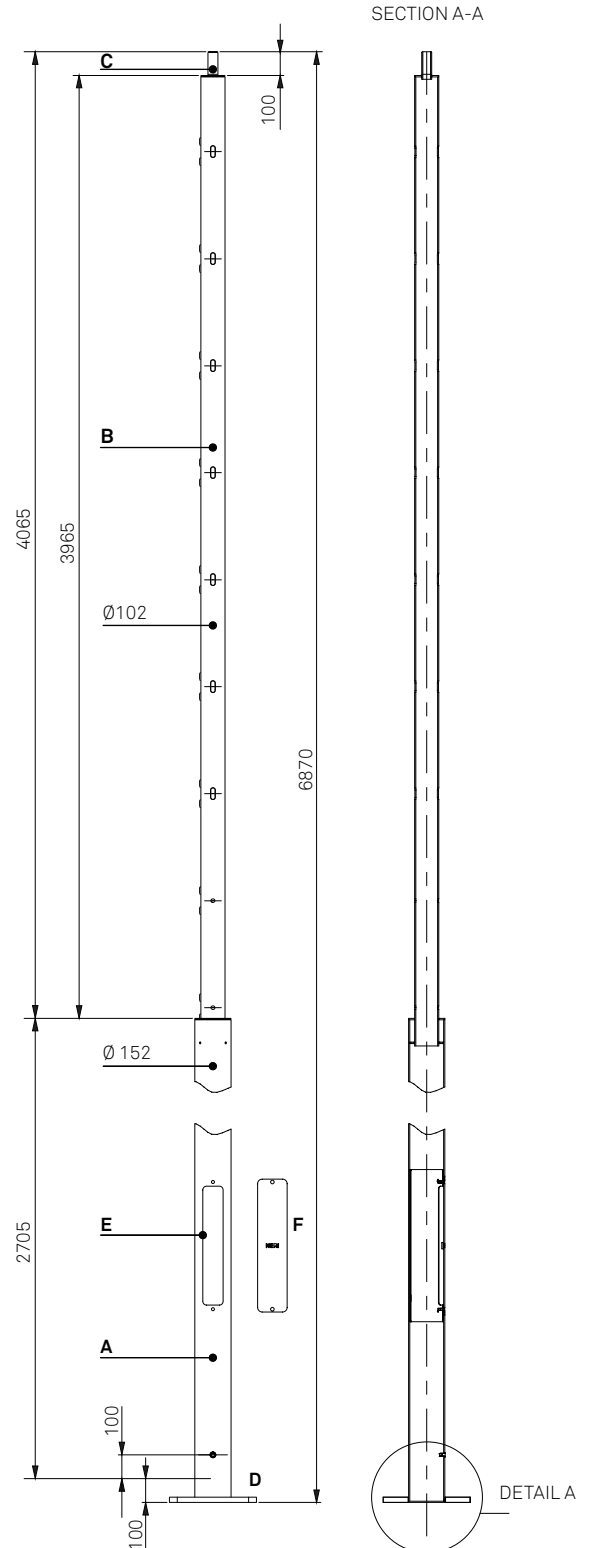
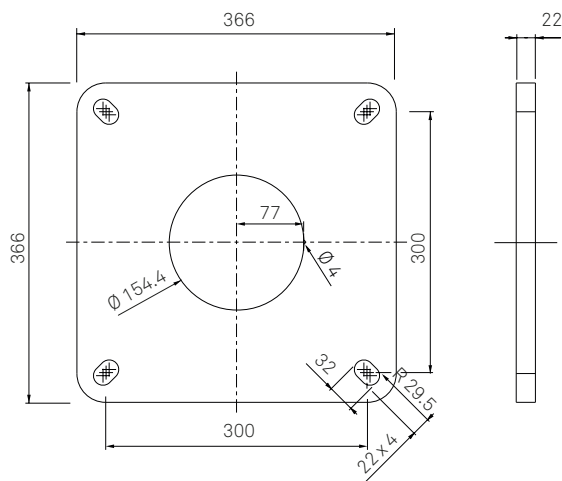
- neri grey
- pure white
- white aluminium
- grey aluminium
- jet black
- moss green

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

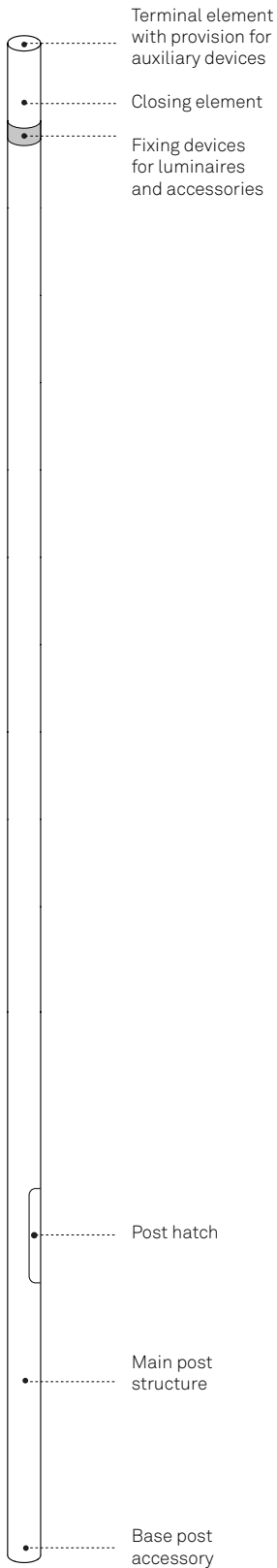
## DRAWINGS

DETAIL A - FLANGE PLAN

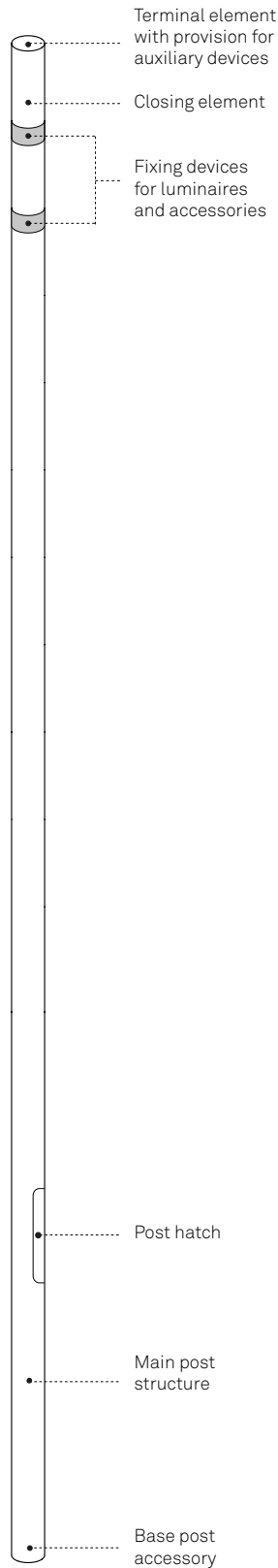


## NEBULA POLE SYSTEM H 7,7 m

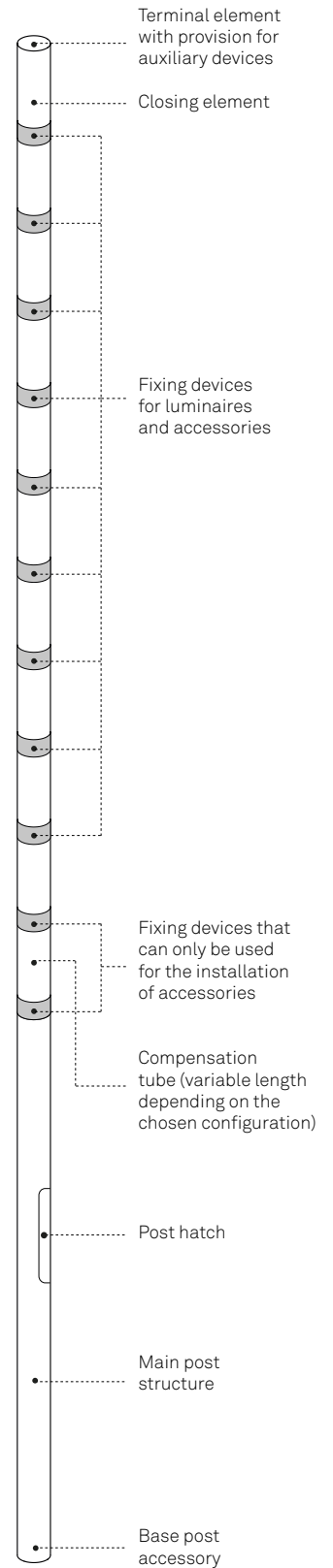
The Nebula system allows numerous configurations. The number of fixing devices for luminaires and accessories varies according to the main structure of the chosen post.



COD.ANEB.801.001



COD.ANEB.801.002

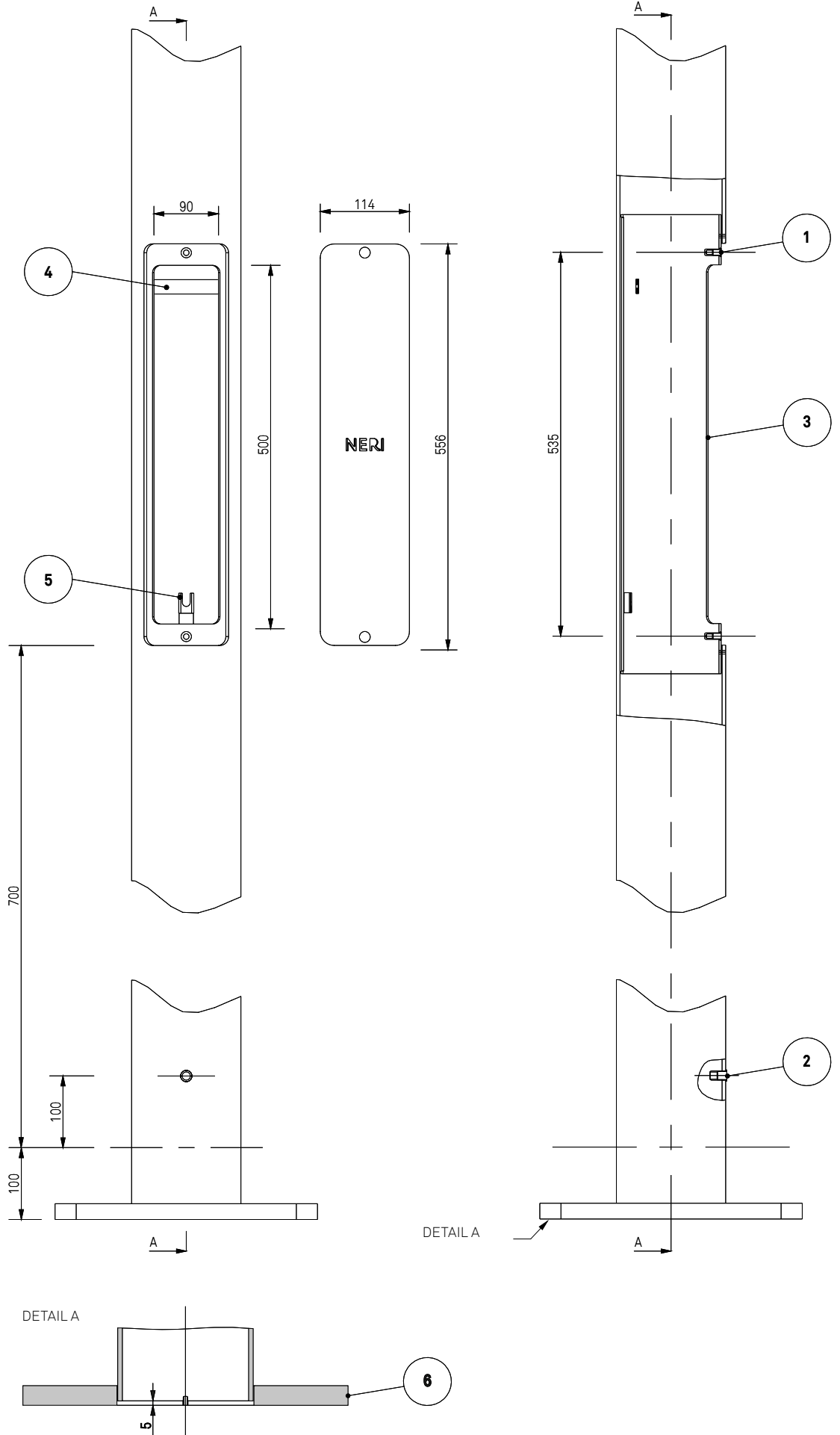


COD.ANEB.801.011

**POST HATCH**

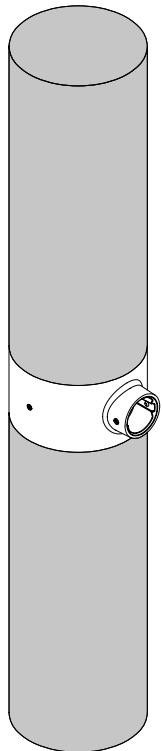
**Legend**

- 1 - M6 threaded insert for door closing
- 2 - M10 threaded insert for grounding
- 3 - Hatch Stop
- 4 - Terminal block fixing
- 5 - Post grounding fixing pocket
- 6 - Flange



**FIXING DEVICES:**

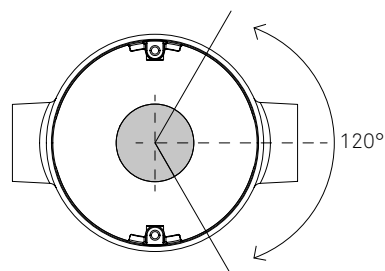
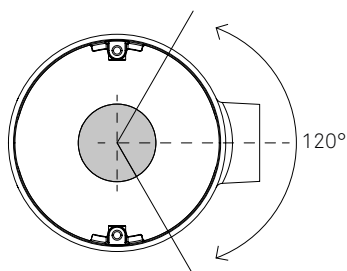
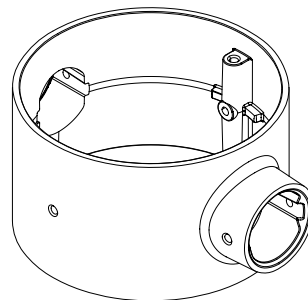
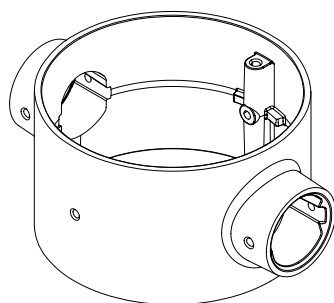
The fixing devices, in single or double version, allow the installation of accessories and luminaires to the type of post chosen.



The permissible rotation of the fixing device for the luminaires is 120°.

The accessories can be installed in 90° steps.

Using the double element the accessories / luminaires are placed at 180°.





**COMPENSATION TUBE:**

The compensation tubes are made of steel and hot-dip galvanized. The number and length of modular elements are determined by the final configuration of the chosen system.

Compensation pipe codes for post models\_ ANEB.701.001, ANEB.701.002, ANEB.701.009

Cod. 9525\_388\_020  
- H Tot. 450 mm

Cod. 9525\_388\_021  
- H Tot. 900 mm

Cod. 9525\_388\_022  
- H Tot. 1350 mm

Cod. 9525\_388\_023  
- H Tot. 1800 mm

Cod. 9525\_388\_024  
- H Tot. 2250 mm

Cod. 9525\_388\_025  
- H Tot. 2700 mm

Cod. 9525\_388\_026  
- H Tot. 3150 mm

Cod. 9525\_388\_027  
- H Tot. 3600 mm

Cod. 9525\_388\_028  
- H Tot. 4050 mm

Cod. 9525\_388\_029  
- H Tot. 4500 mm

Cod. 9525\_388\_030  
- H Tot. 360 mm

Cod. 9525\_388\_031  
- H Tot. 810 mm

Cod. 9525\_388\_032  
- H Tot. 1260 mm

Cod. 9525\_388\_033  
- H Tot. 1710 mm

Cod. 9525\_388\_034  
- H Tot. 2160 mm

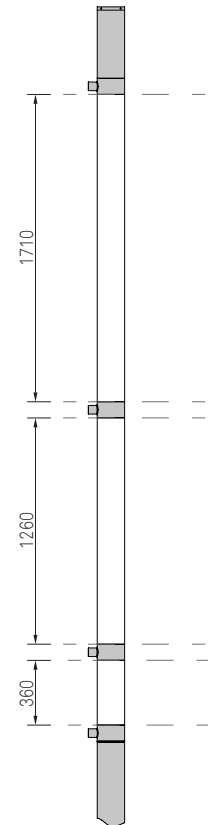
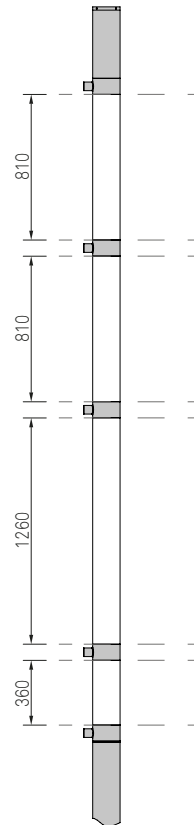
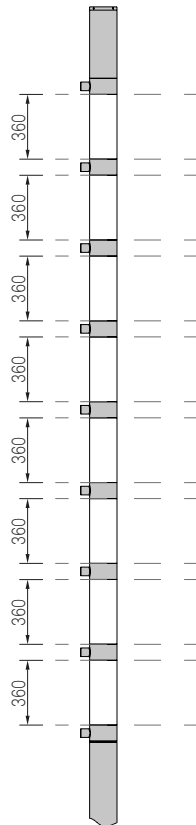
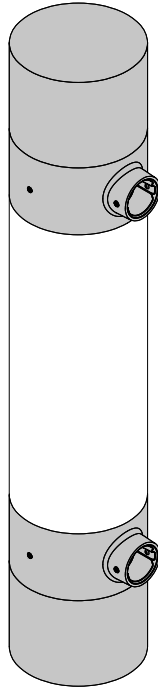
Cod. 9525\_388\_035  
- H Tot. 2610 mm

Cod. 9525\_388\_036  
- H Tot. 3060 mm

Cod. 9525\_388\_037  
- H Tot. 3510 mm

Cod. 9525\_388\_038  
- H Tot. 3960 mm

Cod. 9525\_388\_039  
- H Tot. 4410 mm

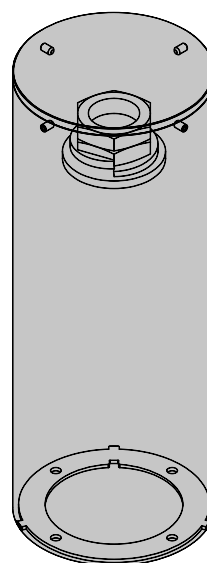
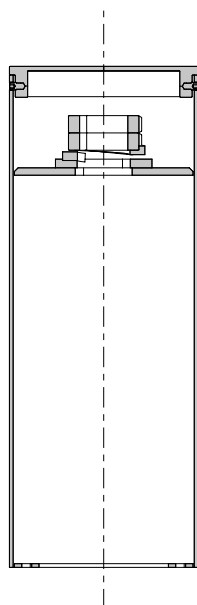
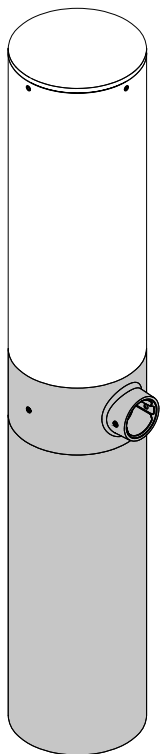


Example of compensation tubes with configuration cod. ANEB.701.009

**LOCKING ELEMENT:**

The closing tube enables the fixing of the components to the post core. The assembly is completed by a cover placed at the top end and fixed with four screws.

Cod. 9525\_388\_040  
- H Tot. 398 mm

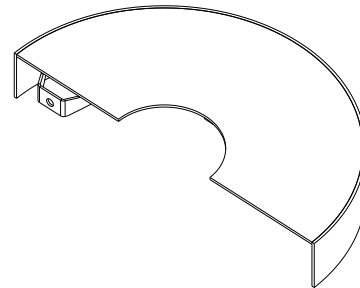
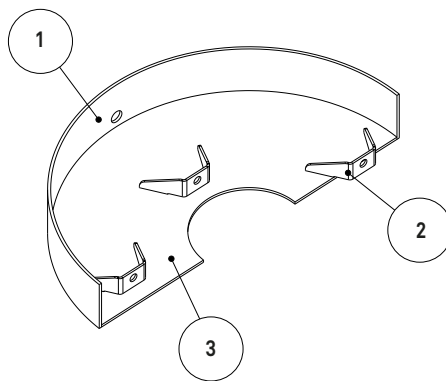
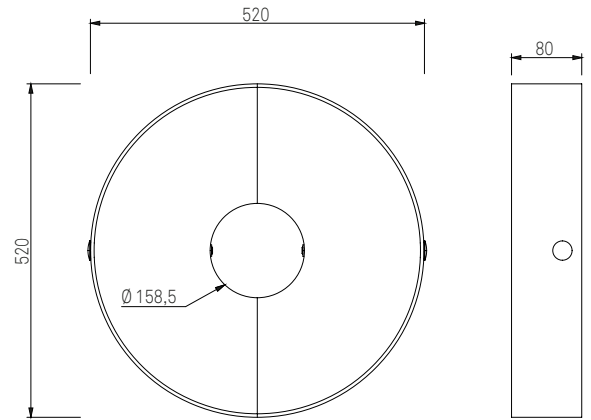
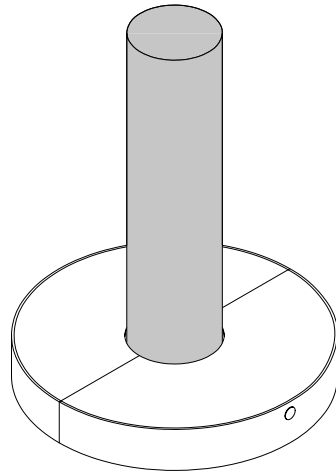


### POST BASE ACCESSORY:

Steel flange cover and hot-dip galvanized, consisting of two separate elements. The separation of the component allows the use of the accessory also in phases after the installation of the post.

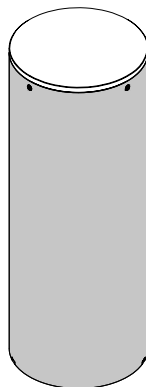
### Legend

- 1 - Upper sheet metal
- 2 - Collar
- 3 - Lower sheet metal



### TERMINAL ELEMENT:

Ready for auxiliary devices:  
- Zhaga Connector (Book18)  
- NEMA Connector (3 PIN, 7 PIN)



## MAIN STRUCTURE POLES H 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 7205 mm.  
- (B) Tube diam. 102 x 365 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: 169 kg.

### Mounting

- Square Flange (D) 366 x 366 mm (thickness 22 mm), for mounting with 4 anchors and 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

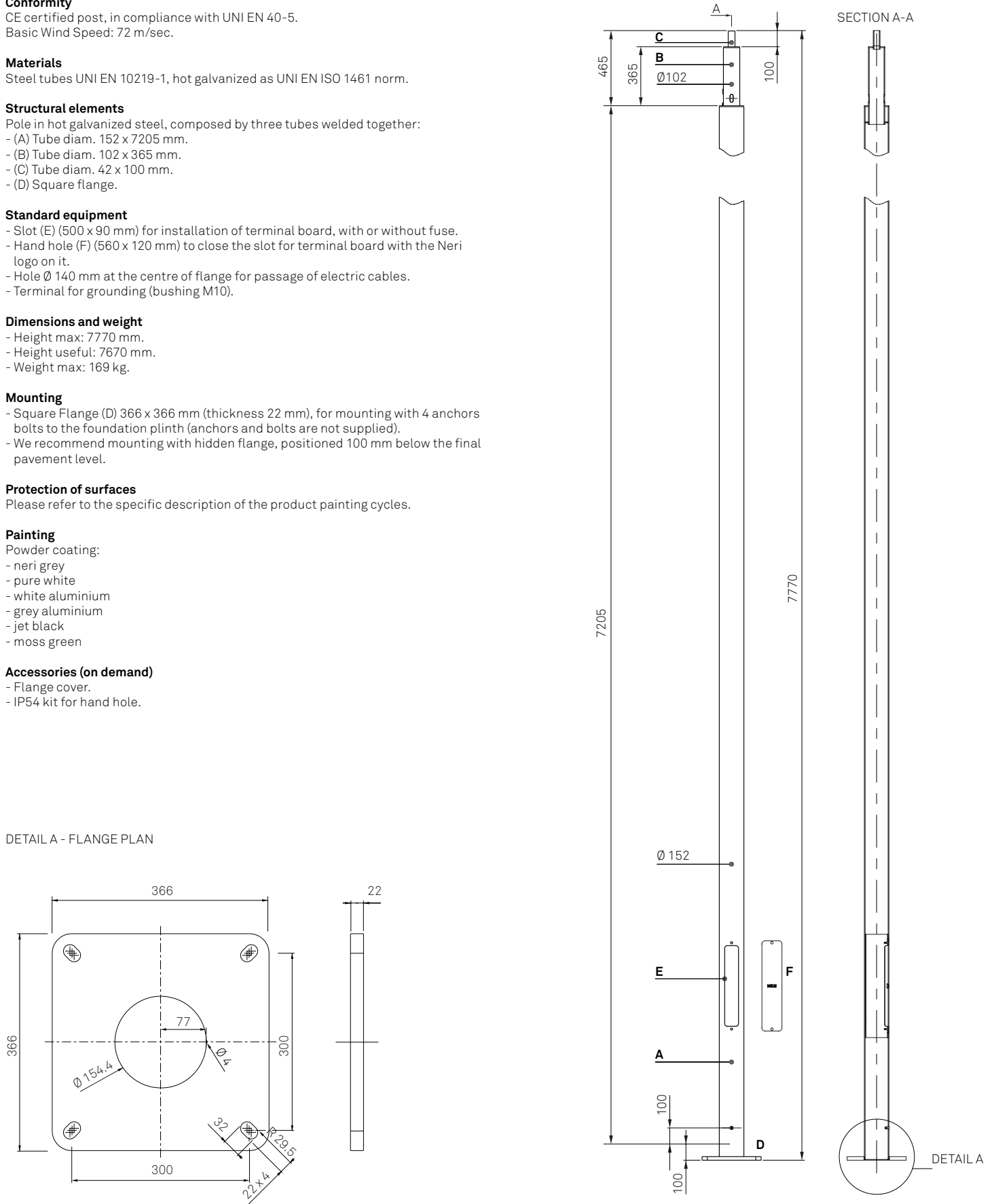
Powder coating:

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

### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS



## MAIN STRUCTURE POLES H 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 6755 mm.  
- (B) Tube diam. 102 x 815 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: 166 kg.

### Mounting

- Square Flange (D) 366 x 366 mm (thickness 22 mm), for mounting with 4 anchors and 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

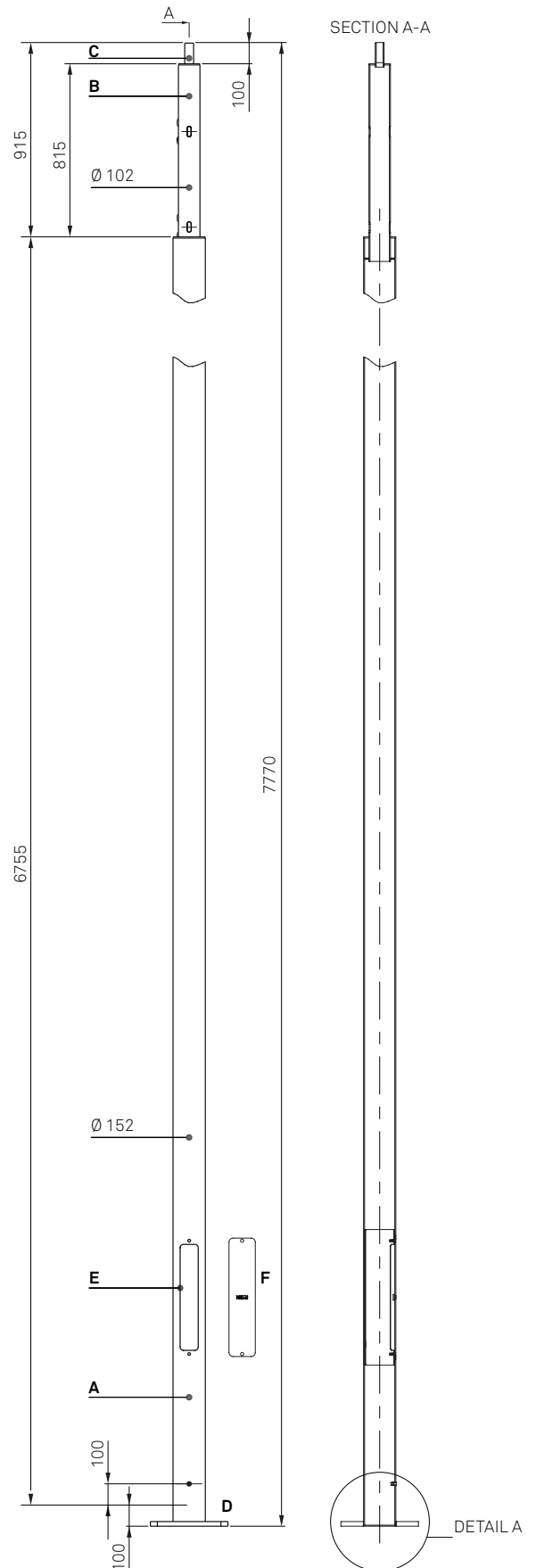
Powder coating:

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

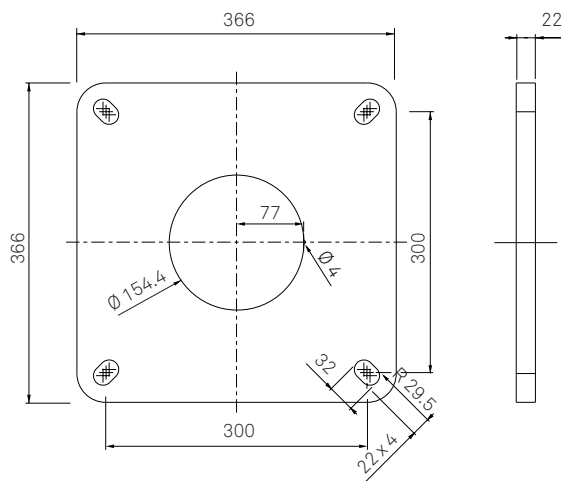
### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

## DRAWINGS



DETAIL A - FLANGE PLAN



## MAIN STRUCTURE POLES H 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 and 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

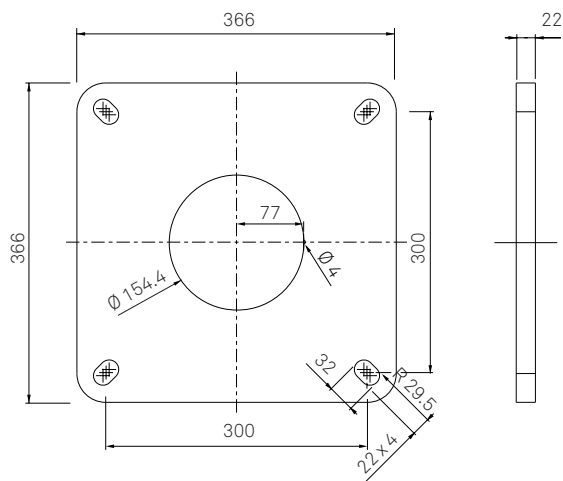
Powder coating:

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

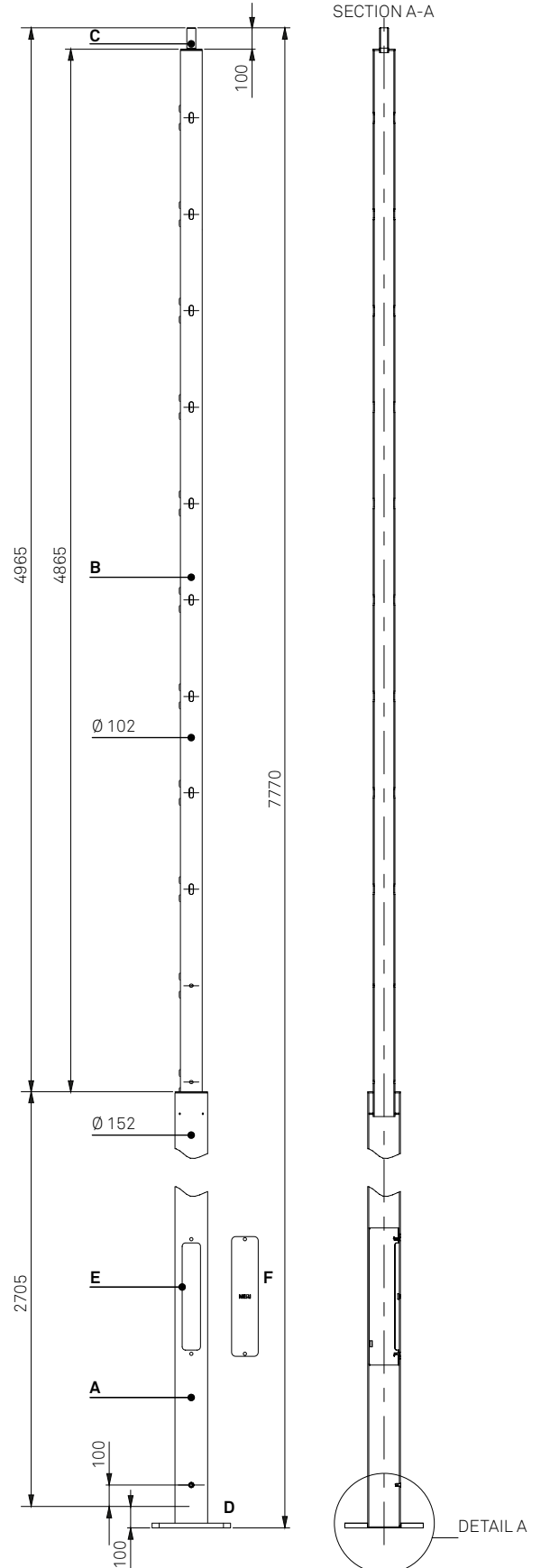
### Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

### DETAIL A - FLANGE PLAN



## DRAWINGS



## 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 aluminium.
- 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:

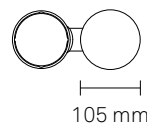
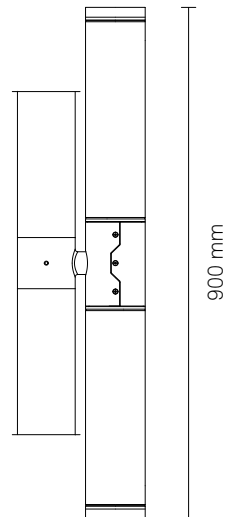
- Neri grey
- Pure white
- White aluminium
- Grey aluminium
- Jet black
- Moss green

#### 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

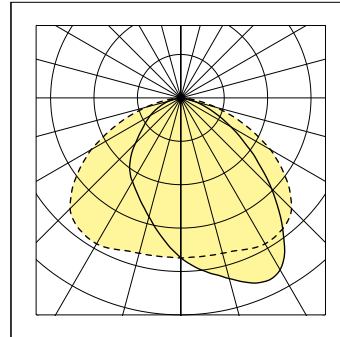
**1-10V** (Analogic control)

**DALI** (Digital control)

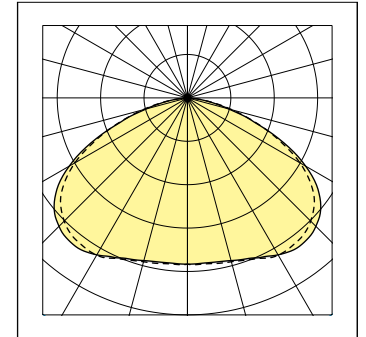
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## 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

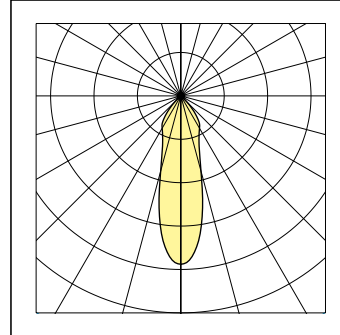
**1-10V** (Analogic control)

**DALI** (Digital control)

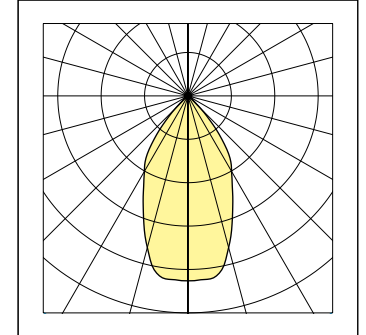
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

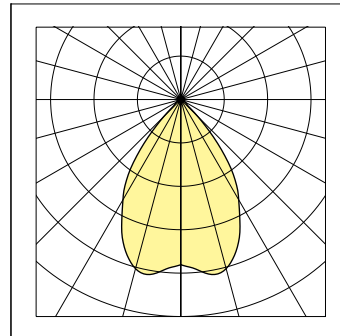
35° Medium narrow spot



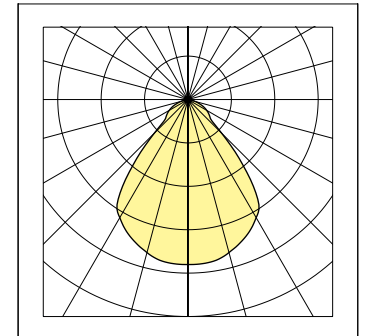
60° Medium flood



70° Medium wide flood



80° Medium wide flood



# NERI

Nebula S

Screen: Trasparent

Version: RGBW

Technical sheet

Rev. 01 - 2020/08/24

## 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.

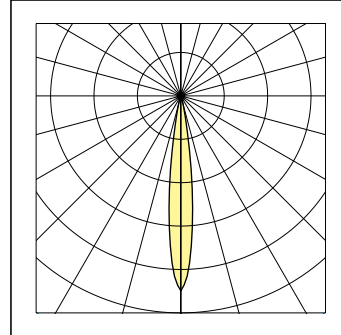
## DRIVER FUNCTIONS

### DMX

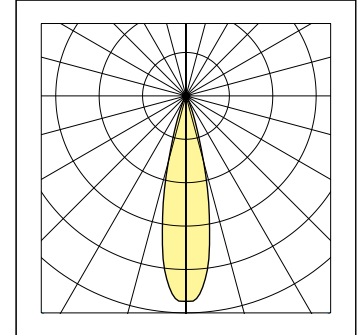
- Programmable electronic power supply.
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).

## PHOTOMETRIC CURVES

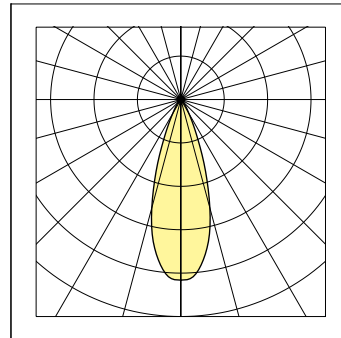
### 15° Very narrow spot



### 25° Narrow spot



### 35° Medium narrow spot



# NERI

Nebula S

Screen: Prismatic

Version: A

Technical sheet

Rev. 01 - 2020/08/24

## 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

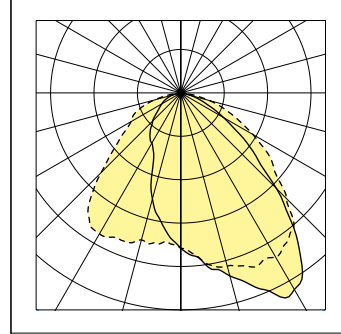
**1-10V** (Analogic control)

**DALI** (Digital control)

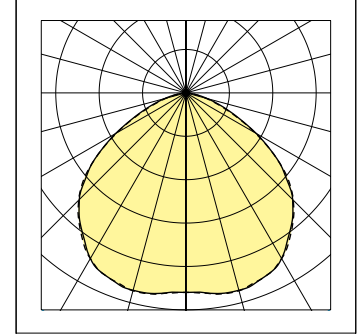
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

Type II



Type V



## 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 | 155 mm | 155 mm | 12 Kg  | 66 | 08 | 0.14 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 aluminium.
- 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:

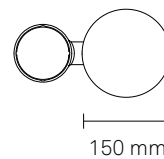
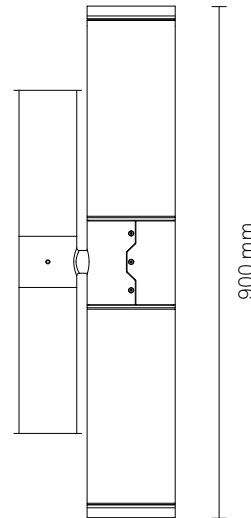
- Neri grey
- Pure white
- White aluminum
- Grey aluminum
- Jet black
- Moss green

#### 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 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.

## LUMINOUS FLUX

**Colour and 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 and 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 and 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 and 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

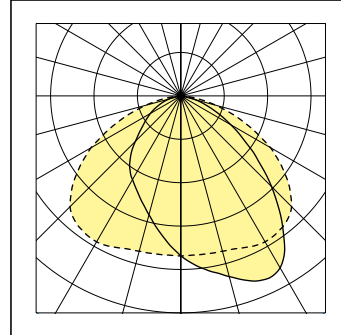
**1-10V** (Analogic control)

**DALI** (Digital control)

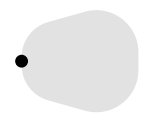
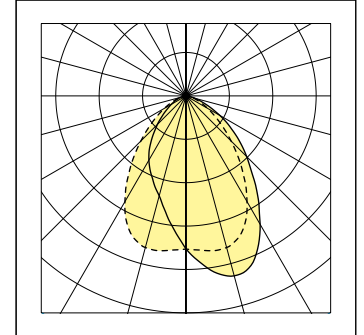
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

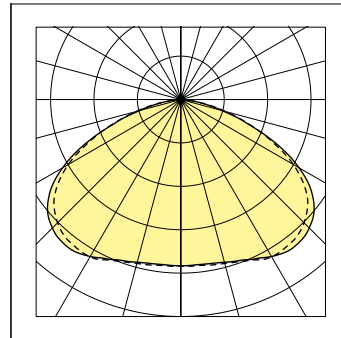
Type II



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.

## LUMINOUS FLUX

| Colour and 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 and 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 and 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 and 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 2.78m from source.
  - Photobiological risk (EN62471): class RG0.

## DRIVER FUNCTIONS

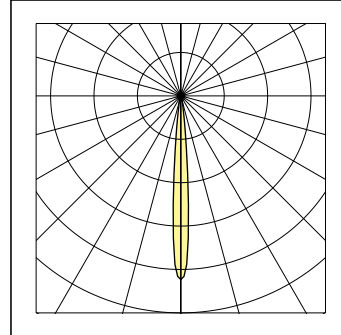
**1-10V** (Analogic control)

**DALI** (Digital control)

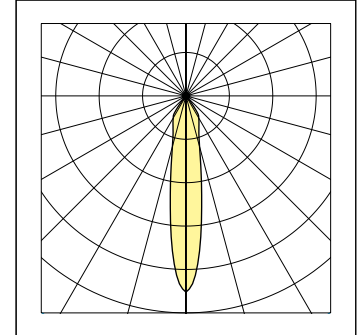
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

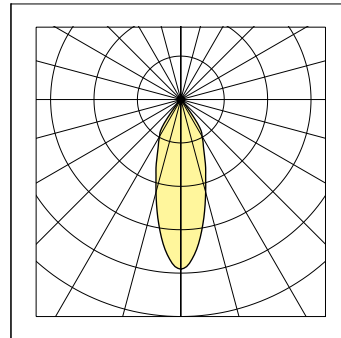
10° Very narrow spot



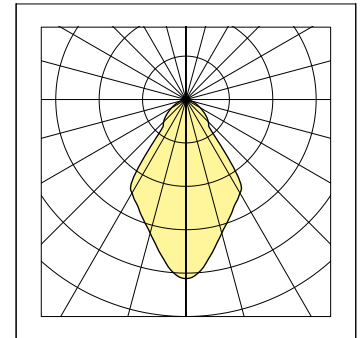
20° Narrow spot



35° Medium narrow spot



70° Medium wide flood



# NERI

Nebula L

Screen: Trasparent

Version: RGBW

Technical sheet

Rev. 01 - 2020/08/24

## 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.
- Minimum installation height: 3m.

## LUMINOUS FLUX

| Colour and 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.

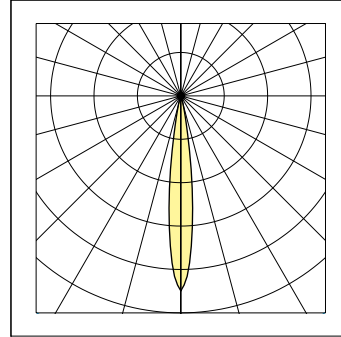
## DRIVER FUNCTIONS

### DMX

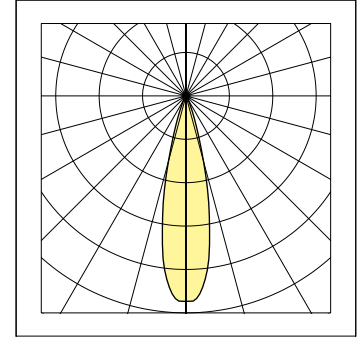
- Programmable electronic power supply.
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).

## PHOTOMETRIC CURVES

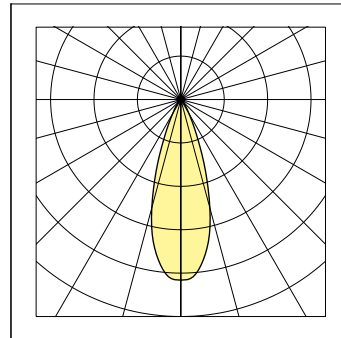
### 15° Very narrow spot



### 25° Narrow spot



### 35° Medium narrow spot



# NERI

Nebula L

Screen: Prismatic

Version: A

Technical sheet

Rev. 01 - 2020/08/24

## 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.
- Minimum installation height: 3m.

## LUMINOUS FLUX

| Colour and Colour Temperature |        |                | Amber      |     |    |
|-------------------------------|--------|----------------|------------|-----|----|
| System*                       |        |                | LED module |     |    |
| Colour                        | lm tot | $\lambda$ (nm) | n LED      | mA  | W  |
| Amber                         | 700    | 598            | 24         | 700 | 35 |

- \* 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

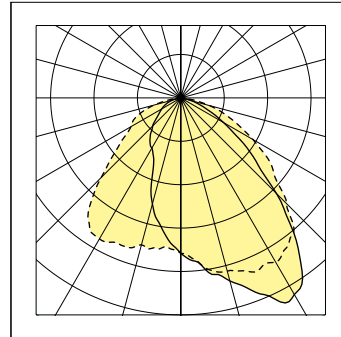
**1-10V** (Analogic control)

**DALI** (Digital control)

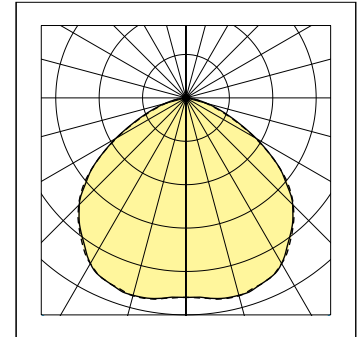
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## 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 | 150 mm | 150 mm | 7 Kg   | 66 | 08 | 0.14 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

- Joint with tilt adjustment ( $\pm 180^\circ$ ) without intermediate steps.
- Fixing by two headless screws M6 lock nuts with stainless steel.

### Materials

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

### Structure – Main components

- External cover in polycarbonate.
- 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.
- Decorative reflector cap in aluminium.

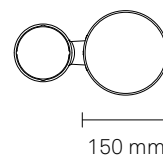
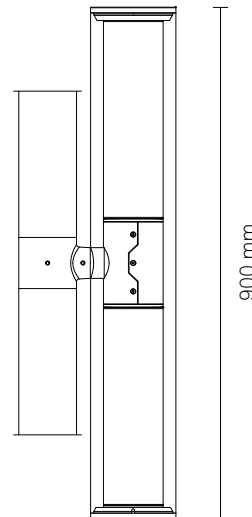
### Electrical features

- 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.

## 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: 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

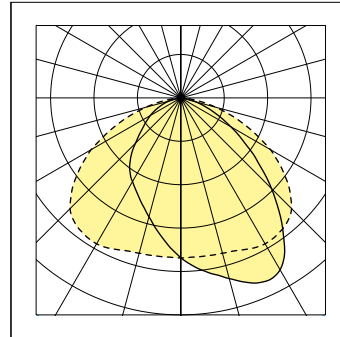
**1-10V** (Analogic control)

**DALI** (Digital control)

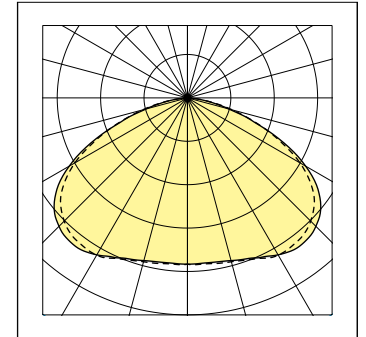
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## 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.

## 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

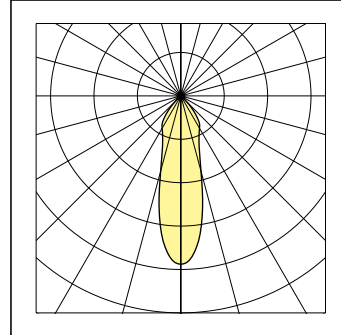
**1-10V** (Analogic control)

**DALI** (Digital control)

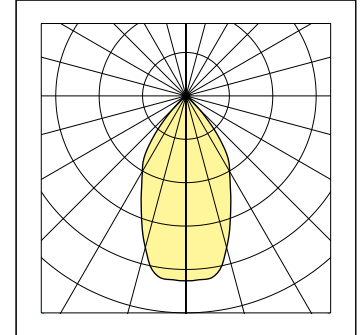
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

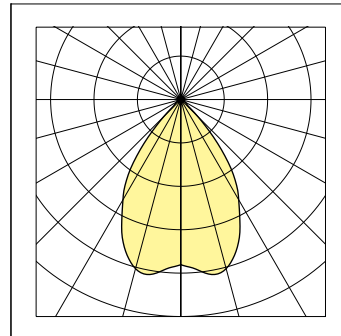
35° Medium narrow spot



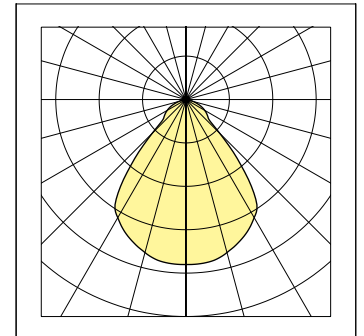
60° Medium flood



70° Medium wide flood



80° Medium wide flood



## 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)            |
|---------|--------|--------|--------|----|----|---------------------|
| 1065 mm | 100 mm | 218 mm | 8 Kg   | 66 | 08 | 0.15 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

- Joint with tilt adjustment (step 0° / ±45°).
- Central frame with a tilting system of ± 45°.
- Fixing by two headless screws M6 stainless steel.

### Materials

- Extruded aluminium.
- Galvanized steel.
- Extra clear transparent or prismatic tempered flat glass.
- Stainless or burnished 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.
- Dedicated space for surge protection devices 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:

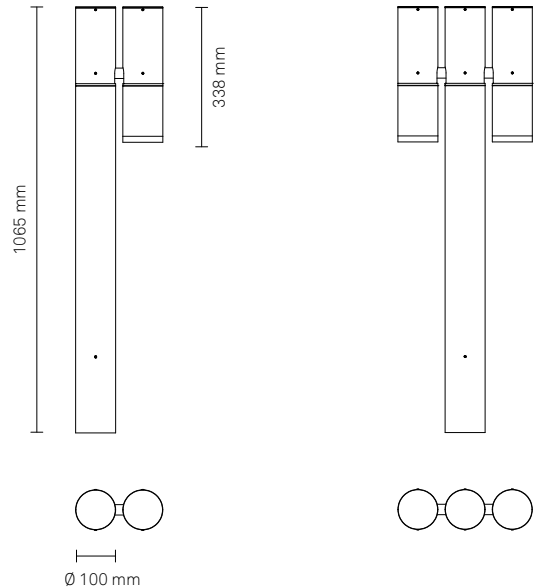
- Neri grey
- Pure white
- White aluminum
- Grey aluminum
- Jet black
- Moss green

#### 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.

**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 |

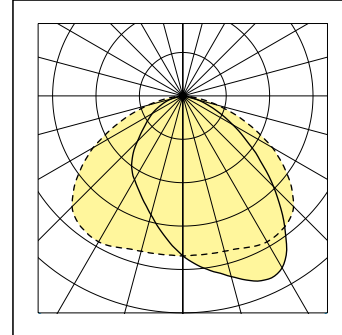
- \* The energy values in the table refer to LED module + driver.  
 - LED type: NVSLE21A Nichia.  
 - Power LEDs module on printed circuit board with metal core plate.  
 - Internal heat sink in cast aluminium.  
 - Estimated life: 100,000 h L90B10.  
 - Colour Rendering Index: CRI > 80 within the 5 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**

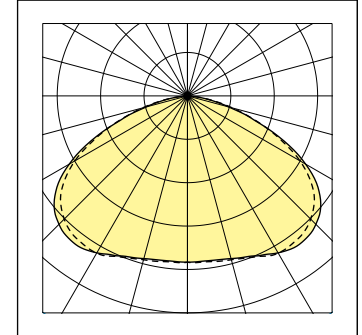
- 1-10V** (Analogic control)  
**DALI** (Digital control)
- NFC programmable electronic power supply with self-diagnostic functions.  
 - Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).  
 - Estimated Duration B10 to 100,000 h.

**PHOTOMETRIC CURVES**

Type II



Type V



## NEBULA 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.

## 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

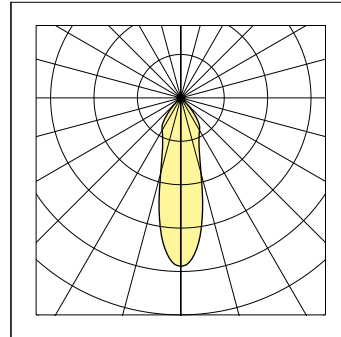
**1-10V** (Analogic control)

**DALI** (Digital control)

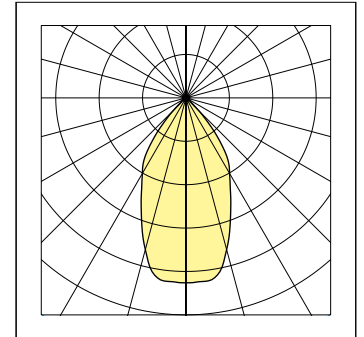
- NFC programmable electronic power supply with self-diagnostic functions.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

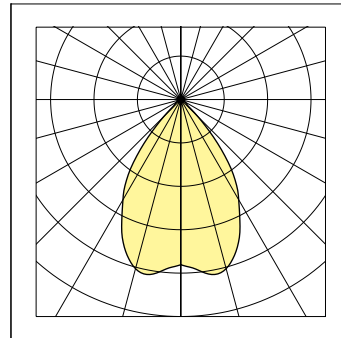
35° Medium narrow spot



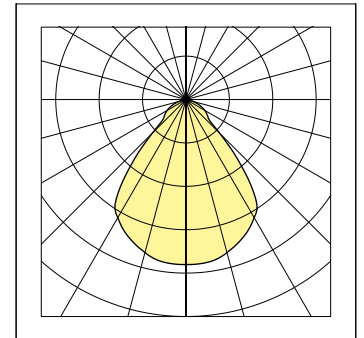
60° Medium flood



70° Medium wide flood



80° Medium wide flood



# NERI

Nebula Bollard

Screen: Trasparent

Version: RGBW

Technical sheet

Rev. 01 - 2020/08/24

## 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.

## 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.

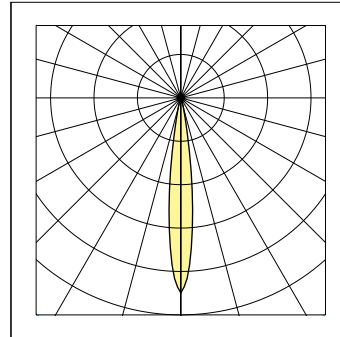
## DRIVER FUNCTIONS

### DMX

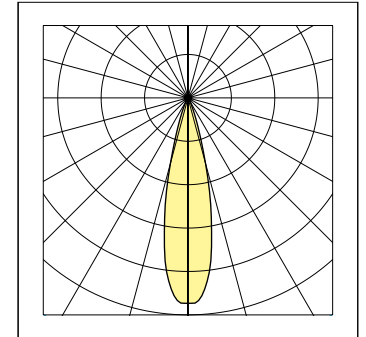
- Programmable electronic power supply.
- Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

## PHOTOMETRIC CURVES

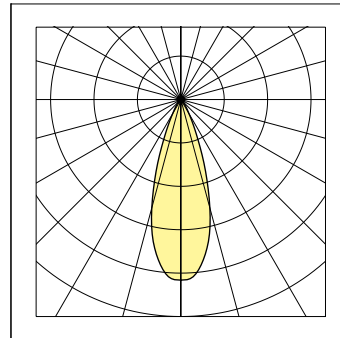
### 15° Very narrow spot



### 25° Narrow spot



### 35° Medium narrow spot



# NERI

Nebula Bollard

Screen: Prismatic

Version: A + W

Technical sheet

Rev. 01 - 2020/08/24

## 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.

## LUMINOUS FLUX

| Colour and Colour Temperature |        |                | Amber + White |     |    |
|-------------------------------|--------|----------------|---------------|-----|----|
| System*                       |        |                | LED module    |     |    |
| Colour                        | lm tot | $\lambda$ (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

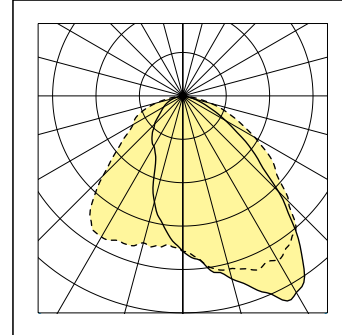
**1-10V** (Analogic control)

**DALI** (Digital control)

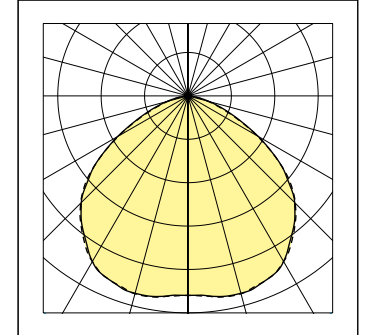
- NFC programmable electronic power supply with self-diagnostic functions.
- SStandard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

Type II



Type 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)            |
|---------|--------|--------|--------|----|----|---------------------|
| 2740 mm | 100 mm | 218 mm | 11 Kg  | 66 | 08 | 0.30 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

- Joint with tilt adjustment (step 0° / ±45°).
- Central frame with a tilting system of ± 45°.
- Fixing by two headless screws M6 stainless steel.

### Materials

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

### Structure – Main components

- External frame and body in extruded aluminium.
- Shield in extra-clear transparent or prismatic tempered glass with impact resistance IK 08 (EN 62262).
- Integrated heat sink in aluminium.
- Dedicated space for surge protection devices 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:

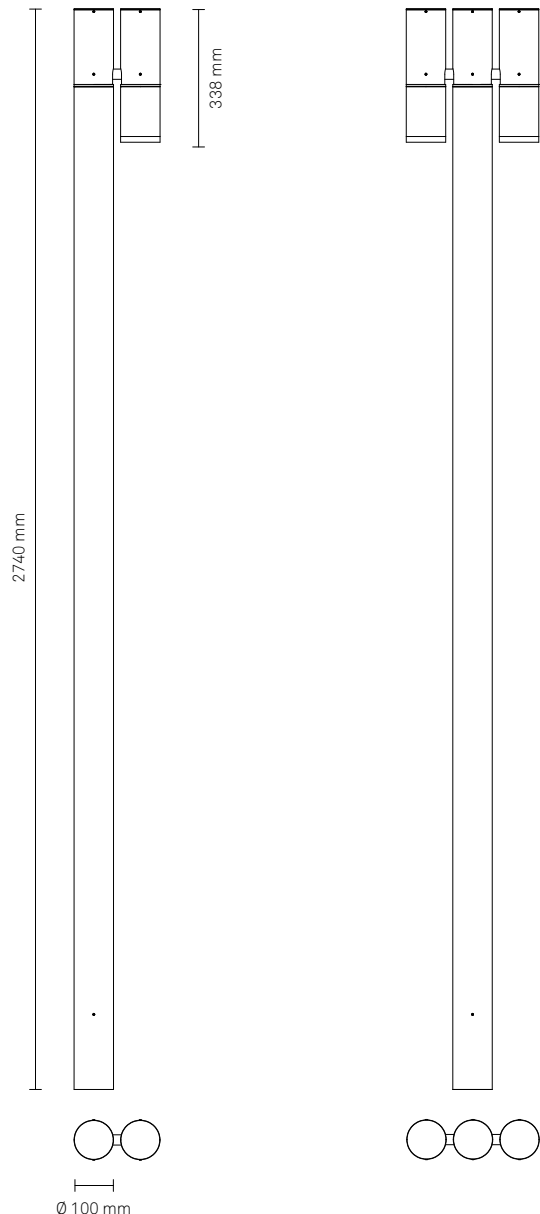
- Neri grey
- Pure white
- White aluminum
- Grey aluminum
- Jet black
- Moss green

#### 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.

## 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

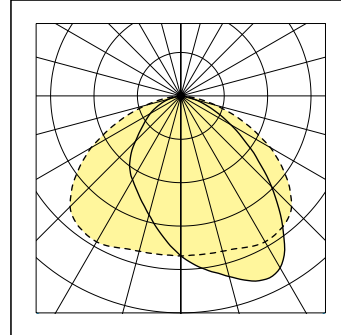
**1-10V** (Analogic control)

**DALI** (Digital control)

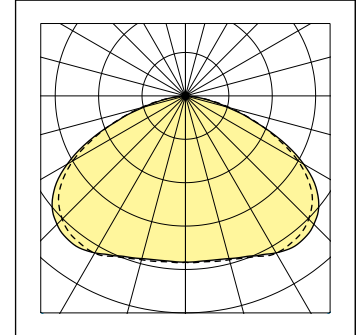
- NFC programmable electronic power supply with self-diagnostic functions.  
 - Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).  
 - Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

Type II



Type V



## NEBULA 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.

## 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

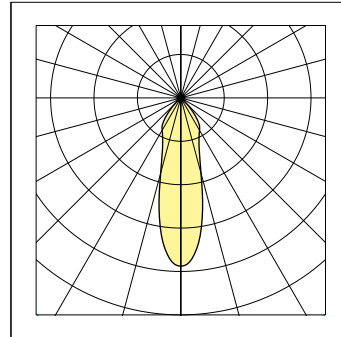
**1-10V** (Analogic control)

**DALI** (Digital control)

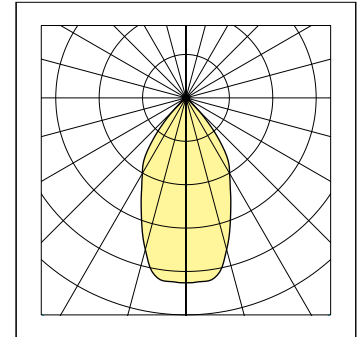
- NFC programmable electronic power supply with self-diagnostic functions.  
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).  
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

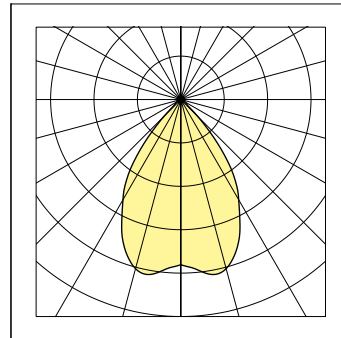
35° Medium narrow spot



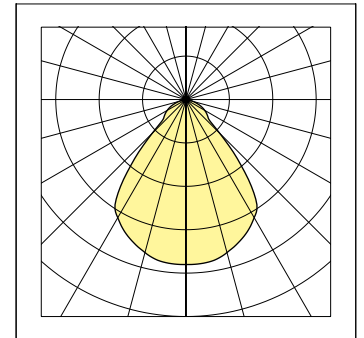
60° Medium flood



70° Medium wide flood



80° Medium wide flood



# NERI

Nebula Bollard

Screen: Trasparent

Version: RGBW

Technical sheet

Rev. 01 - 2020/08/24

## 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.

## 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.

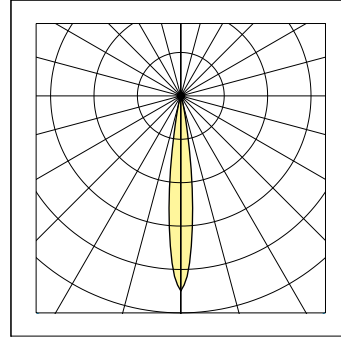
## DRIVER FUNCTIONS

### DMX

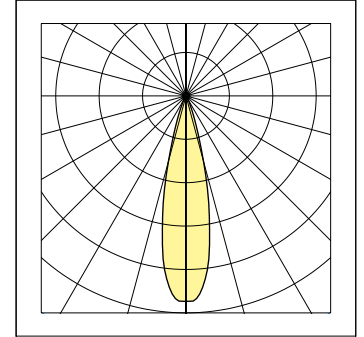
- Programmable electronic power supply.
- Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

## PHOTOMETRIC CURVES

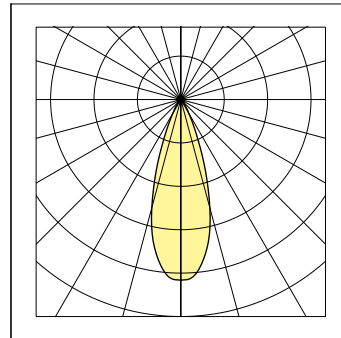
### 15° Very narrow spot



### 25° Narrow spot



### 35° Medium narrow spot



# NERI

Nebula Bollard

Screen: Prismatic

Version: A + W

Technical sheet

Rev. 01 - 2020/08/24

## 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.

## LUMINOUS FLUX

| Colour and Colour Temperature |        |                | Amber + White |     |    |
|-------------------------------|--------|----------------|---------------|-----|----|
| System*                       |        |                | LED module    |     |    |
| Colour                        | lm tot | $\lambda$ (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

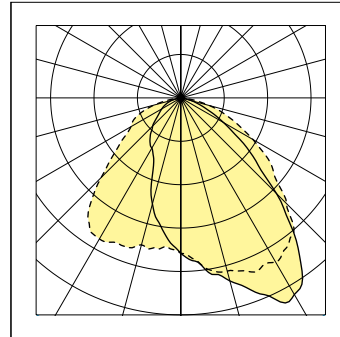
**1-10V** (Analogic control)

**DALI** (Digital control)

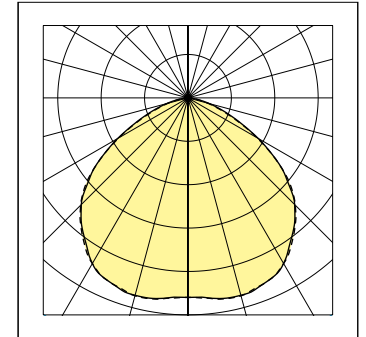
- NFC programmable electronic power supply with self-diagnostic functions.
- SStandard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

### Type II



### Type 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)            |
|--------|--------|--------|--------|----|----|---------------------|
| 460 mm | 156 mm | 156 mm | 5 Kg   | 66 | 08 | 0.07 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 on the ground.
- Hole spacing 90 mm (Ø9 mm).
- Tube fixed to the base by means of three M4 grains.

### Materials

- Extruded aluminium.
- Galvanized steel.
- Polycarbonate.
- Stainless or burnished steel fasteners.

### Structure – Main components

- External frame and body in extruded aluminum.
- Polycarbonate protection screen.
- Integrated heat sink in aluminium.
- Osmotic valve to balance internal/external pressure.
- Dedicated space for surge protection devices 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:

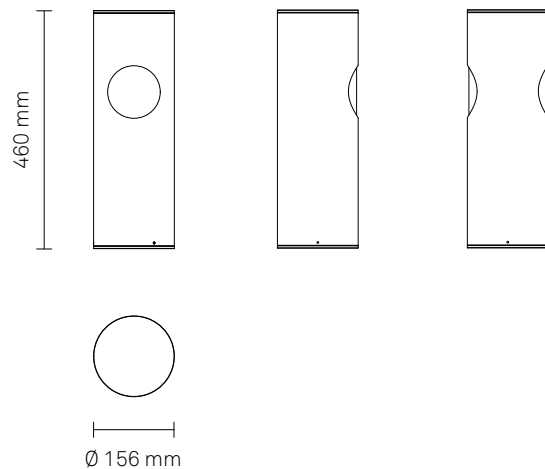
- Neri grey
- Pure white
- White aluminum
- Grey aluminum
- Jet black
- Moss green

#### 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 PATHLIGHT - PR**  
COB LED

| Lighting distribution | Screen | LOR* |
|-----------------------|--------|------|
| 65° Medium wide flood | PC     | 100% |

\*LOR: optical efficiency appliance due to the physical shielding.  
- Polycarbonate reflector.

**LUMINOUS FLUX**

| Colour and Colour Temperature |       | 2,700K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|     |    |    |     |
|-----|----|----|-----|
| 500 | 20 | 25 | 1   |
|     |    |    | 470 |
|     |    |    | 17  |

| Colour and Colour Temperature |       | 3,000K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|     |    |    |     |
|-----|----|----|-----|
| 500 | 19 | 26 | 1   |
|     |    |    | 445 |
|     |    |    | 16  |

| Colour and Colour Temperature |       | 3,500K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|     |    |    |     |
|-----|----|----|-----|
| 500 | 28 | 18 | 1   |
|     |    |    | 685 |
|     |    |    | 24  |

| Colour and Colour Temperature |       | 4,000K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|     |    |    |     |
|-----|----|----|-----|
| 500 | 20 | 25 | 1   |
|     |    |    | 470 |
|     |    |    | 17  |

- \* The energy values in the table refer to LED module + driver.  
 - LED type: Luxeon COB.  
 - Estimated life: 80,000 h L80B10.  
 - Colour Rendering Index: CRI > 80 within the 3 ellipses of Mac Adam.  
 - Photobiological risk (IEC/TR 62778): class RG1 to class RG2 at 1m from source.  
 - Photobiological risk (EN62471): class RG0 at 1 m.

**DRIVER FUNCTIONS**

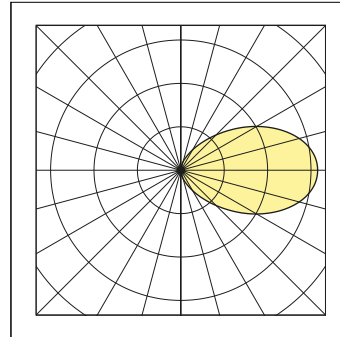
**1-10V** (Analogic control)

**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).

**POLAR DIAGRAMS**

**65° Medium wide flood**



**NEBULA PATHLIGHT - PR**  
COB LED

| Lighting distribution | Screen | LOR* |
|-----------------------|--------|------|
| 65° Medium wide flood | PC     | 100% |

\*LOR: optical efficiency appliance due to the physical shielding.  
- Polycarbonate reflector.

**LUMINOUS FLUX**

| Colour and Colour Temperature |       | 2,700K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|       |    |    |     |
|-------|----|----|-----|
| 1,000 | 40 | 25 | 2   |
|       |    |    | 470 |
|       |    |    | 34  |

| Colour and Colour Temperature |       | 3,000K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|       |    |    |     |
|-------|----|----|-----|
| 1,000 | 38 | 26 | 2   |
|       |    |    | 445 |
|       |    |    | 32  |

| Colour and Colour Temperature |       | 3,500K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|       |    |    |     |
|-------|----|----|-----|
| 1,000 | 56 | 18 | 2   |
|       |    |    | 685 |
|       |    |    | 48  |

| Colour and Colour Temperature |       | 4,000K            |       |
|-------------------------------|-------|-------------------|-------|
| <b>System*</b>                |       | <b>LED module</b> |       |
| lm tot                        | W tot | lm/W              | n LED |

|       |    |    |     |
|-------|----|----|-----|
| 1,000 | 40 | 25 | 2   |
|       |    |    | 470 |
|       |    |    | 34  |

- \* The energy values in the table refer to LED module + driver.  
 - LED type: Luxeon COB.  
 - Estimated life: 80,000 h L80B10.  
 - Colour Rendering Index: CRI > 80 within the 3 ellipses of Mac Adam.  
 - Photobiological risk (IEC/TR 62778): class RG1 to class RG2 at 1m from source.  
 - Photobiological risk (EN62471): class RG0 at 1 m.

**DRIVER FUNCTIONS**

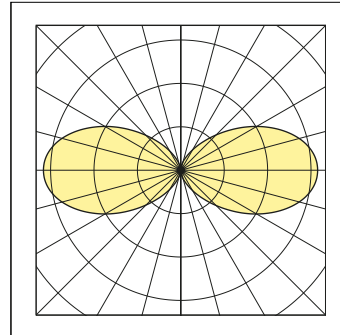
**1-10V** (Analogic control)

**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).

**POLAR DIAGRAMS**

**65° Medium wide flood**





## NEBULA PATHLIGHT - RGBW

High Power LED

| Lighting distribution | Screen | LOR* |
|-----------------------|--------|------|
| 60° Medium wide flood | PC     | 100% |

\*LOR: optical efficiency appliance due to the physical shielding.  
- Refractive lens in PMMA.

## LUMINOUS FLUX

| Colour and Colour Temperature |         | RGBW   |            |     |    |
|-------------------------------|---------|--------|------------|-----|----|
| System*                       |         |        | LED module |     |    |
| Colour                        | lm tot  | λ (nm) | n LED      | mA  | W  |
| Red                           | 70 (R)  | 623    | 3          | 700 | 13 |
| Green                         | 115 (G) | 517    | 3          | 700 | 13 |
| Blu                           | 22 (B)  | 455    | 3          | 700 | 13 |
| White                         | 100 (W) | warm   | 3          | 700 | 13 |

\* The energy values in the table refer to LED module.  
- LED type: XM-L Color.  
- Estimated life: 80,000 h L80B10.

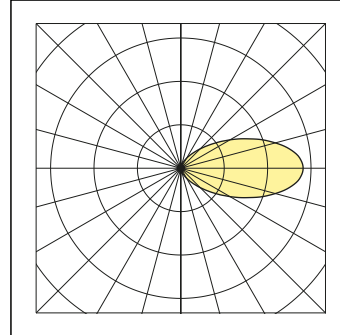
## DRIVER FUNCTIONS

### DMX

- Programmable electronic power supply.  
- Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

## POLAR DIAGRAMS

### 60°Medium wide flood



## NEBULA PATHLIGHT - RGBW

High Power LED

| Lighting distribution | Screen | LOR* |
|-----------------------|--------|------|
| 60° Medium wide flood | PC     | 100% |

\*LOR: optical efficiency appliance due to the physical shielding.  
- Refractive lens in PMMA.

## LUMINOUS FLUX

| Colour and Colour Temperature |         | RGBW   |            |     |    |
|-------------------------------|---------|--------|------------|-----|----|
| System*                       |         |        | LED module |     |    |
| Colour                        | lm tot  | λ (nm) | n LED      | mA  | W  |
| Red                           | 70 (R)  | 623    | 3          | 700 | 13 |
| Green                         | 115 (G) | 517    | 3          | 700 | 13 |
| Blu                           | 22 (B)  | 455    | 3          | 700 | 13 |
| White                         | 100 (W) | warm   | 3          | 700 | 13 |

\* The energy values in the table refer to LED module.  
- LED type: XM-L Color.  
- Estimated life: 80,000 h L80B10.

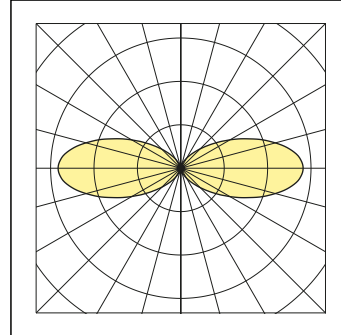
## DRIVER FUNCTIONS

### DMX

- Programmable electronic power supply.  
- Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

## POLAR DIAGRAMS

### 60°Medium wide flood



## DESCRIPTION

- Planter with truncated conical body made of galvanized steel sheet.
- Inner vase in plastic material.

## Materials

- Galvanized steel sheet.
- Stainless steel screws.
- Plastic vase.

## Structure – Main components

- The basket is made of steel sheet 15/10mm thick.
- The basket is equipped, on the inside, with two welded elements on which the vase rests.
- The bottom has holes for water drainage.
- The plastic vase has a truncated cone shape.

## Dimensions and weight

- Length: 328 mm.
- Width: 328 mm.
- Height: 543 mm.
- Weight: 10 Kg.

## Fixing

- The basket is designed for post mounting in two places.

## Protection of the surfaces

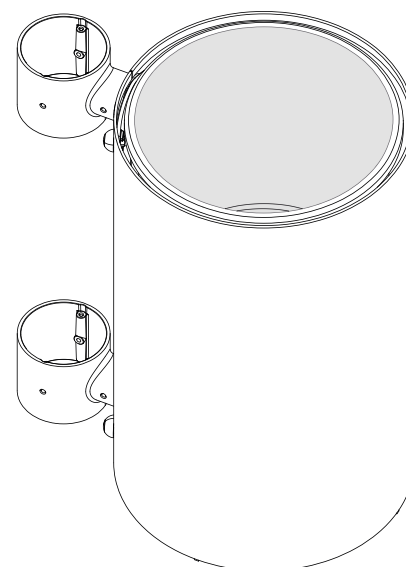
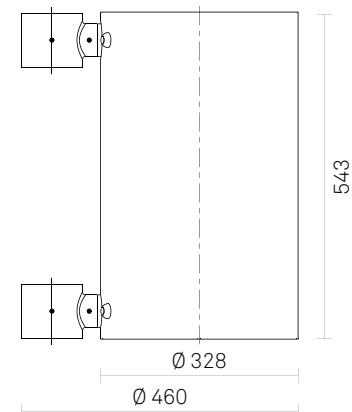
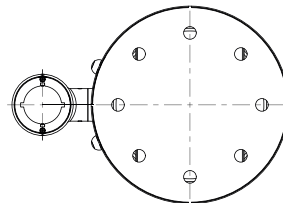
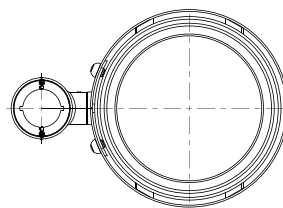
- See the specific descriptions on the painting cycles of the materials.

## Operations and maintenance

- Refer to the product installation and maintenance manual.
- It is the responsibility of the installer to install correctly in accordance with applicable regulations.

## Finish

- Standard colour Black Grey.
- Other finishes available on request.



# NERI

**CONFIGURATION FORMS**

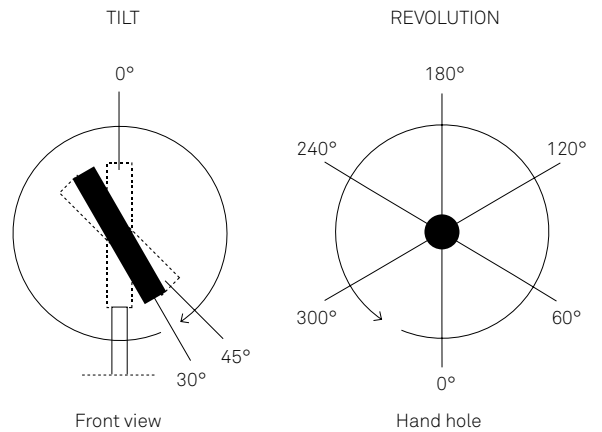
THE FOLLOWING PAGES ARE FORMS TO FILL IN TO CONFIGURE NEBULA SYSTEM AND BOLLARD AND REQUEST A QUOTE.

# 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

# NERI

LAMP POST CONFIGURATION FORM

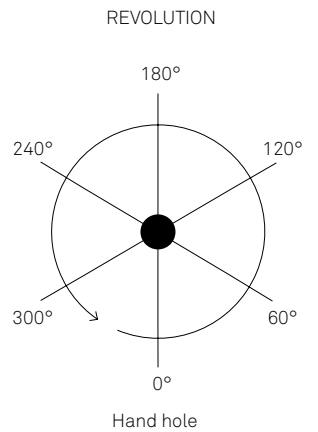
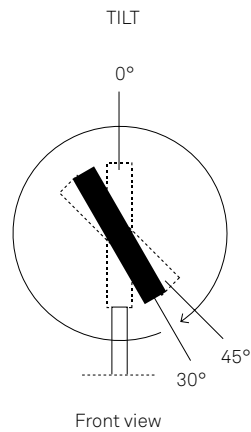
POLE COLOUR \_\_\_\_\_

| <u>accessories</u> | <u>luminaire</u> | <u>tilt</u> | <u>revolution</u> | <u>left</u> |          | <u>right</u> | <u>revolution</u> | <u>tilt</u> | <u>luminaire</u> | <u>accessories</u> |
|--------------------|------------------|-------------|-------------------|-------------|----------|--------------|-------------------|-------------|------------------|--------------------|
| _____              | _____            | _____       | _____             |             | <b>5</b> | _____        | _____             | _____       | _____            | _____              |
| _____              | _____            | _____       | _____             |             | <b>4</b> | _____        | _____             | _____       | _____            | _____              |
| _____              | _____            | _____       | _____             |             | <b>3</b> | _____        | _____             | _____       | _____            | _____              |
| _____              | _____            | _____       | _____             |             | <b>2</b> | _____        | _____             | _____       | _____            | _____              |
| _____              | _____            | _____       | _____             |             | <b>1</b> | _____        | _____             | _____       | _____            | _____              |

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

LAMP POST CONFIGURATION FORM

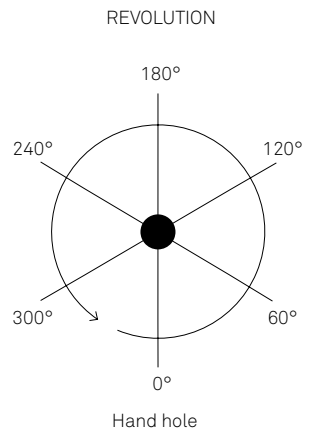
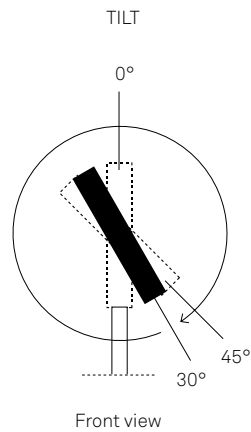
POLE COLOUR \_\_\_\_\_

| accessories | luminaire | tilt  | revolution | left |          | right | revolution | tilt  | luminaire | accessories |
|-------------|-----------|-------|------------|------|----------|-------|------------|-------|-----------|-------------|
| _____       | _____     | _____ | _____      |      | <b>7</b> |       | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      |      | <b>6</b> |       | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      |      | <b>5</b> |       | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      |      | <b>4</b> |       | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      |      | <b>3</b> |       | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      |      | <b>2</b> |       | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      |      | <b>1</b> |       | _____      | _____ | _____     | _____       |

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**ACCESSORIES**

PLANTER = PT  
BANNER HOLDER = BN



# NERI

LAMP POST CONFIGURATION FORM

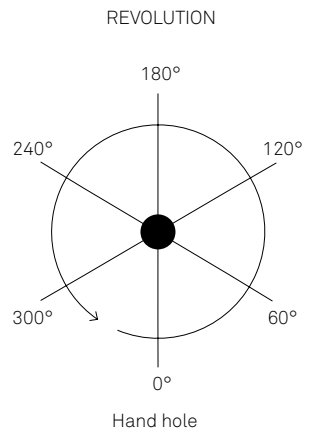
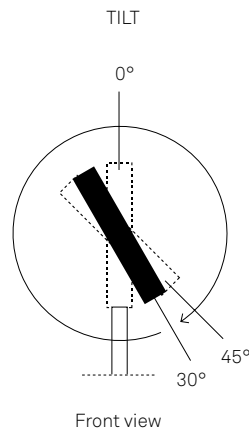
POLE COLOUR \_\_\_\_\_

| 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





# NERI

LAMP POST CONFIGURATION FORM

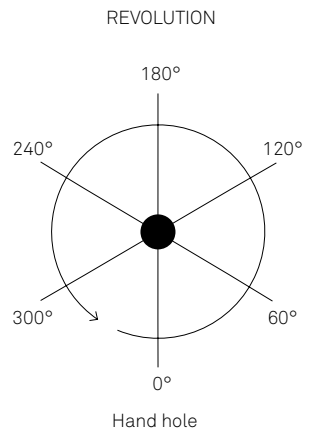
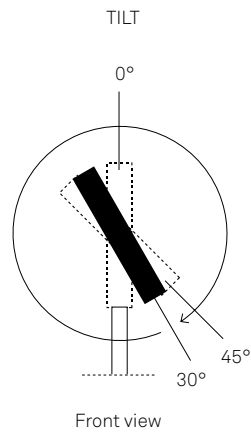
POLE COLOUR \_\_\_\_\_

| accessories | luminaire | tilt  | revolution | left | right | revolution | tilt  | luminaire | accessories |
|-------------|-----------|-------|------------|------|-------|------------|-------|-----------|-------------|
| _____       | _____     | _____ | _____      | 11   | _____ | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      | 10   | _____ | _____      | _____ | _____     | _____       |
| _____       | _____     | _____ | _____      | 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



# 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.



**DOWN**

### NEBULA S LUMINAIRE HEAD DOWN LIGHT

ST

PR

RGBW

A

### Screen shape

Transparent flat glass

Prismatic flat glass

## NEBULA S - EMPTY

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber         | 350 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       |               |              | DALI            |                      |

## NEBULA S - GLARE SHIELD

glare shield 30°

glare shield 45°

## NEBULA S - COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

# 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 UP LIGHT

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

UP



## NEBULA S LUMINAIRE HEAD UP LIGHT

ST

PR

RGBW

A

### Screen shape

Transparent flat  
Glass

Prismatic flat  
Glass

## NEBULA S - EMPTY

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber         | 350 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       |               |              | DALI            |                      |

## NEBULA S - GLARE SHIELD

glare shield 30°

glare shield 45°

## NEBULA S - COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

# 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.



DOWN

### NEBULA L LUMINAIRE HEAD DOWN LIGHT

ST

PR

RGBW

A

### Screen shape

Transparent flat glass

Prismatic flat glass

### NEBULA L - EMPTY

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 2,500 lm     | 1-10V           | Prismatic flat glass |
| Type IV      | 3,000K        | 3,500 lm     | DALI            |                      |
| Type V       | 3,500K        | 4,500 lm     |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 10° Very narrow spot   | 2,700K        | 2,500 lm     | 1-10V           | Transparent flat glass |
| 20° Narrow spot        | 3,000K        | 3,500 lm     | DALI            |                        |
| 35° Medium narrow spot | 3,500K        | 4,500 lm     |                 |                        |
| 70° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 666 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 578 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 178 lm (B)   |                 |                        |
|                        |               | 1,000 lm (W) |                 |                        |

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber         | 700 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       |               |              | DALI            |                      |

### NEBULA S - GLARE SHIELD

glare shield 30°

glare shield 45°

### NEBULA S - COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

# 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 LUMINAIRE HEAD UP LIGHT

ST

PR

RGBW

A

### Screen shape

Transparent flat Glass

Prismatic flat Glass

## NEBULA L - EMPTY

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 2,500 lm     | 1-10V           | Prismatic flat glass |
| Type IV      | 3,000K        | 3,500 lm     | DALI            |                      |
| Type V       | 3,500K        | 4,500 lm     |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 10° Very narrow spot   | 2,700K        | 2,500 lm     | 1-10V           | Transparent flat glass |
| 20° Narrow spot        | 3,000K        | 3,500 lm     | DALI            |                        |
| 35° Medium narrow spot | 3,500K        | 4,500 lm     |                 |                        |
| 70° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 666 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 578 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 178 lm (B)   |                 |                        |
|                        |               | 1,000 lm (W) |                 |                        |

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber         | 700 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       |               |              | 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      |   |

# NERI

Nebula V

Fixing: Side entry

Luminaire head configuration form

## NEBULA V

Nebula Venice luminaire head consists of one source.

## NEBULA V CONFIGURATION # \_\_\_\_\_ LUMINAIRE HEAD DOWN LIGHT

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



**DOWN**

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

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

### NEBULA V LUMINAIRE HEAD DOWN LIGHT

ST

PR

#### Screen shape

Transparent flat  
glass

Prismatic flat  
Glass

# NERI

Nebula Bollard

Fixing: on ground

Luminaire head configuration form

## NEBULA BOLLARD

Nebula Bollard luminaire head consists of one source.

## NEBULA BOLLARD CONFIGURATION LUMINAIRE HEAD ONE LUMINAIRE HEAD CONFIGURATION # \_\_\_\_\_

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

### NEBULA BOLLARD - ST HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

### NEBULA BOLLARD - A + W HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber +       | 180 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       | White         | 800 lm (W)   | DALI            |                      |

### NEBULA BOLLARD - LUMINAIRE HEAD COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

### NEBULA BOLLARD - POLE COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |



# NERI

Nebula Bollard

Fixing: on ground

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 ONE LUMINAIRE HEAD CONFIGURATION # \_\_\_\_\_

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

### NEBULA BOLLARD - ST HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

### NEBULA BOLLARD - A + W HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber +       | 180 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       | White         | 800 lm (W)   | DALI            |                      |

### NEBULA BOLLARD - LUMINAIRE HEAD COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

### NEBULA BOLLARD - POLE COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |





# NERI

Nebula Bollard

Fixing: on ground

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 TWO LUMINAIRE HEAD CONFIGURATION # \_\_\_\_\_

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

### NEBULA BOLLARD - ST HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

### NEBULA BOLLARD - A + W HIGH POWER LED (SINGLE LENS, PMMA)

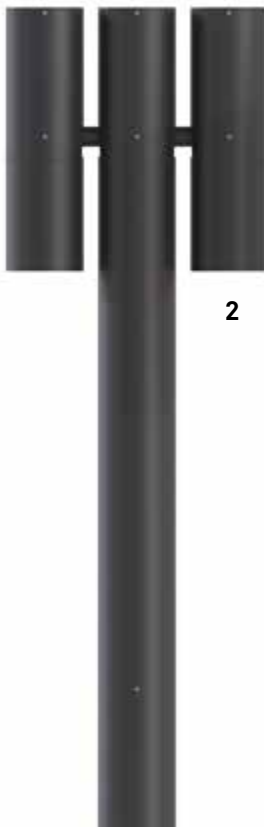
| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber +       | 180 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       | White         | 800 lm (W)   | DALI            |                      |

### NEBULA BOLLARD - LUMINAIRE HEAD COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

### NEBULA BOLLARD - POLE COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |



# NERI

Nebula Bollard

Fixing: on ground

Luminaire head configuration form

## NEBULA BOLLARD

Nebula Bollard luminaire head consists of one source.

## NEBULA BOLLARD CONFIGURATION LUMINAIRE HEAD ONE LUMINAIRE HEAD CONFIGURATION # \_\_\_\_\_

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



### NEBULA BOLLARD - ST HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

### NEBULA BOLLARD - A + W HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber +       | 180 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       | White         | 800 lm (W)   | DALI            |                      |

### NEBULA BOLLARD - LUMINAIRE HEAD COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

### NEBULA BOLLARD - POLE COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

# NERI

Nebula Bollard

Fixing: on ground

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 ONE LUMINAIRE HEAD CONFIGURATION # \_\_\_\_\_

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



### NEBULA BOLLARD - ST HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

### NEBULA BOLLARD - A + W HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber +       | 180 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       | White         | 800 lm (W)   | DALI            |                      |

### NEBULA BOLLARD - LUMINAIRE HEAD COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

### NEBULA BOLLARD - POLE COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

# NERI

Nebula Bollard

Fixing: on ground

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 TWO LUMINAIRE HEAD CONFIGURATION # \_\_\_\_\_

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



### NEBULA BOLLARD - ST HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | 2,700K        | 1,000 lm     | 1-10V           | Prismatic flat glass |
| Type V       | 3,000K        |              | DALI            |                      |
|              | 3,500K        |              |                 |                      |
|              | 4,000K        |              |                 |                      |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 30° Medium narrow spot | 2,700K        | 1,500 lm     | 1-10V           | Transparent flat glass |
| 60° Medium flood       | 3,000K        | 2,500 lm     | DALI            |                        |
| 70° Medium wide flood  | 3,500K        |              |                 |                        |
| 80° Medium wide flood  | 4,000K        |              |                 |                        |

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

| Optic system           | CCT or colour | Lumen output | Driver function | Screen shape           |
|------------------------|---------------|--------------|-----------------|------------------------|
| 15° Very narrow spot   | RGBW          | 333 lm (R)   | DMX             | Transparent flat glass |
| 25° Narrow spot        |               | 289 lm (G)   |                 |                        |
| 35° Medium narrow spot |               | 89 lm (B)    |                 |                        |
|                        |               | 500 lm (W)   |                 |                        |

### NEBULA BOLLARD - A + W HIGH POWER LED (SINGLE LENS, PMMA)

| Optic system | CCT or colour | Lumen output | Driver function | Screen shape         |
|--------------|---------------|--------------|-----------------|----------------------|
| Type II      | Amber +       | 180 lm (A)   | 1-10V           | Prismatic flat glass |
| Type V       | White         | 800 lm (W)   | DALI            |                      |

### NEBULA BOLLARD - LUMINAIRE HEAD COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

### NEBULA BOLLARD - POLE COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

# NERI

Nebula Pathlight

Fixing: on ground

Light source  
configuration form

## NEBULA PATHLIGHT

Nebula Pathlight luminaire head consists of one source.

## NEBULA PATHLIGHT CONFIGURATION LIGHT SOURCE ONE LIGHT SOURCE CONFIGURATION # \_\_\_\_\_

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

### NEBULA PATHLIGHT - PR COB LED

| Optic system          | CCT or colour | Lumen output | Driver function | Screen shape |
|-----------------------|---------------|--------------|-----------------|--------------|
| 65° Medium wide flood | 2,700K        | 500 lm       | 1-10V           | PC           |
|                       | 3,000K        |              | DALI            |              |
|                       | 3,500K        |              |                 |              |
|                       | 4,000K        |              |                 |              |

### NEBULA PATHLIGHT - RGBW HIGH POWER LED

| Optic system          | CCT or colour | Lumen output | Driver function | Screen shape |
|-----------------------|---------------|--------------|-----------------|--------------|
| 60° Medium wide flood | RGBW          | 70 lm (A)    | DMX             | PC           |
|                       |               | 155 lm (A)   |                 |              |
|                       |               | 22 lm (A)    |                 |              |
|                       |               | 100 lm (W)   |                 |              |

### NEBULA PATHLIGHT COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

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# NERI

Nebula Pathlight

Fixing: on ground

Light source  
configuration form

## NEBULA PATHLIGHT

Nebula Pathlight luminaire head consists of two sources.

## NEBULA PATHLIGHT CONFIGURATION LIGHT SOURCE ONE LIGHT SOURCE CONFIGURATION # \_\_\_\_\_

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

### NEBULA PATHLIGHT - PR COB LED

| Optic system          | CCT or colour | Lumen output | Driver function | Screen shape |
|-----------------------|---------------|--------------|-----------------|--------------|
| 65° Medium wide flood | 2,700K        | 1000 lm      | 1-10V           | PC           |
|                       | 3,000K        |              | DALI            |              |
|                       | 3,500K        |              |                 |              |
|                       | 4,000K        |              |                 |              |

### NEBULA PATHLIGHT - RGBW HIGH POWER LED

| Optic system          | CCT or colour | Lumen output | Driver function | Screen shape |
|-----------------------|---------------|--------------|-----------------|--------------|
| 60° Medium wide flood | RGBW          | 140 lm (A)   | DMX             | PC           |
|                       |               | 230 lm (A)   |                 |              |
|                       |               | 44 lm (A)    |                 |              |
|                       |               | 200 lm (W)   |                 |              |

### NEBULA PATHLIGHT COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

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# NERI

Nebula Pathlight

Fixing: on ground

Light source  
configuration form

## NEBULA PATHLIGHT

Nebula Pathlight luminaire head consists of two sources.

## NEBULA PATHLIGHT CONFIGURATION LIGHT SOURCE TWO LIGHT SOURCE CONFIGURATION # \_\_\_\_\_

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

### NEBULA PATHLIGHT - PR COB LED

| Optic system          | CCT or colour | Lumen output | Driver function | Screen shape |
|-----------------------|---------------|--------------|-----------------|--------------|
| 65° Medium wide flood | 2,700K        | 1000 lm      | 1-10V           | PC           |
|                       | 3,000K        |              | DALI            |              |
|                       | 3,500K        |              |                 |              |
|                       | 4,000K        |              |                 |              |

### NEBULA PATHLIGHT - RGBW HIGH POWER LED

| Optic system          | CCT or colour | Lumen output | Driver function | Screen shape |
|-----------------------|---------------|--------------|-----------------|--------------|
| 60° Medium wide flood | RGBW          | 140 lm (A)   | DMX             | PC           |
|                       |               | 230 lm (A)   |                 |              |
|                       |               | 44 lm (A)    |                 |              |
|                       |               | 200 lm (W)   |                 |              |

### NEBULA PATHLIGHT COLOUR

| Powder coating  | Anodising        |
|-----------------|------------------|
| Neri grey       | Silver anodising |
| Pure white      | Gold anodising   |
| White aluminium | Bronze anodising |
| Grey aluminium  | Brown anodising  |
| Jet black       | Black anodising  |
| Moss green      |                  |

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