

INDEX

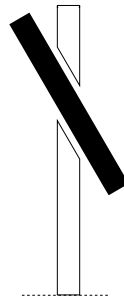
1	HOW TO CONFIGURE
4	NEBULA POLES
8	CONFIGURATION
13	NEBULA S CONFIGURATION
15	NEBULA S TECH SHEET
20	NEBULA L CONFIGURATION
22	NEBULA L TECH SHEET
27	NEBULA V CONFIGURATION
28	NEBULA V TECH SHEET
31	NEBULA BOLLARD CONFIGURATION
33	NEBULA BOLLARD TECH SHEET

HOW TO CONFIGURE

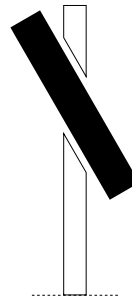
Planning with Nebula modular system is easy. Follow our step by step guide to achieve your desired configuration.

1. Luminaire head types

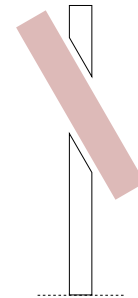
Select luminaire size and decide how many you need for your scheme. Three luminaire head types are available: Nebula Small (S), Nebula Large (L) and Nebula Venezia (V).



Nebula Small
luminaire head
h 3' 0", Ø 4"

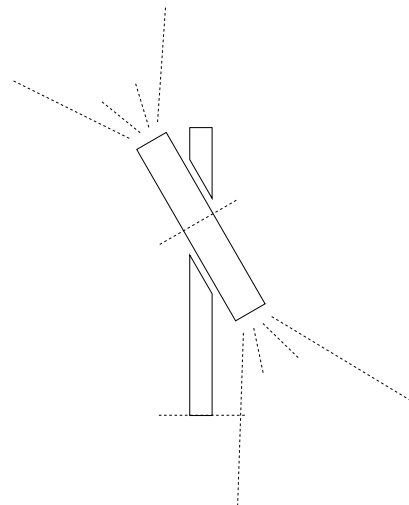


Nebula Large
luminaire head
h 3' 0", Ø 6"



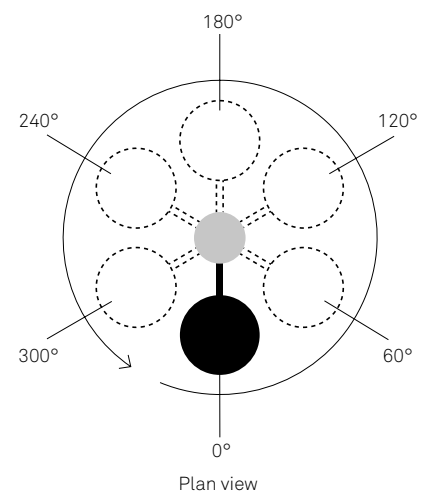
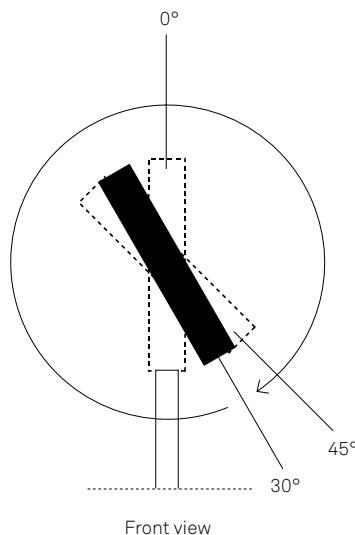
Nebula Venezia
luminaire head
decorative,
transparent rose tint
h 3' 0", Ø 6"

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

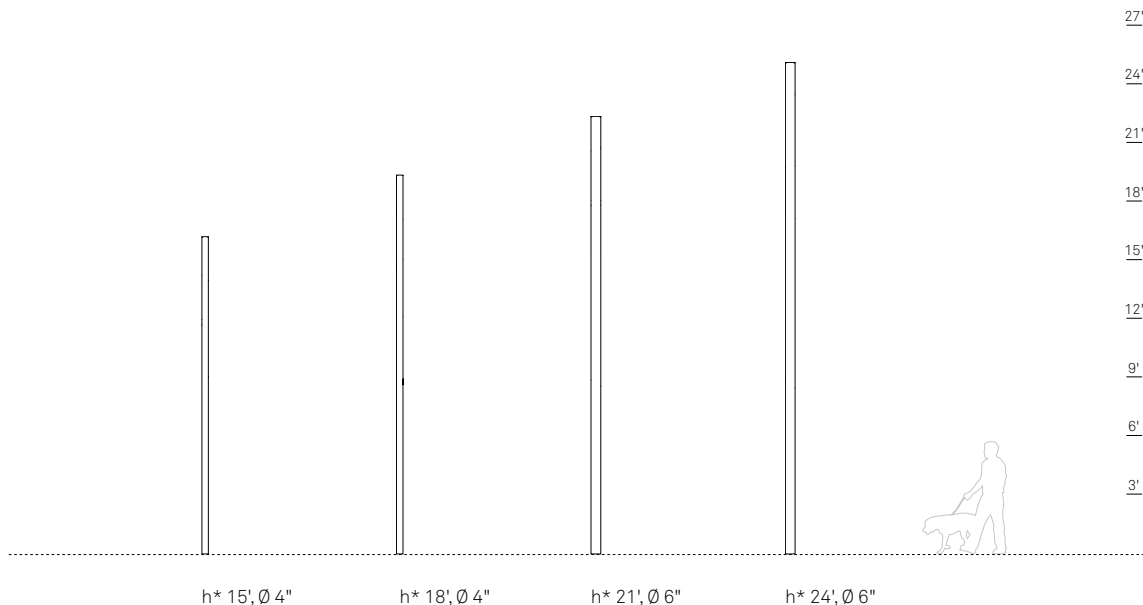
Nebula system luminaire heads can tilt (0°, 30°, 45° or any other angle) and revolve (0° - 120°). Select your preferred tilt and revolving angles.



3. Pole height and diameter

Choose between four standard pole heights and two pole diameters.

* Mounting height of highest luminaire head.

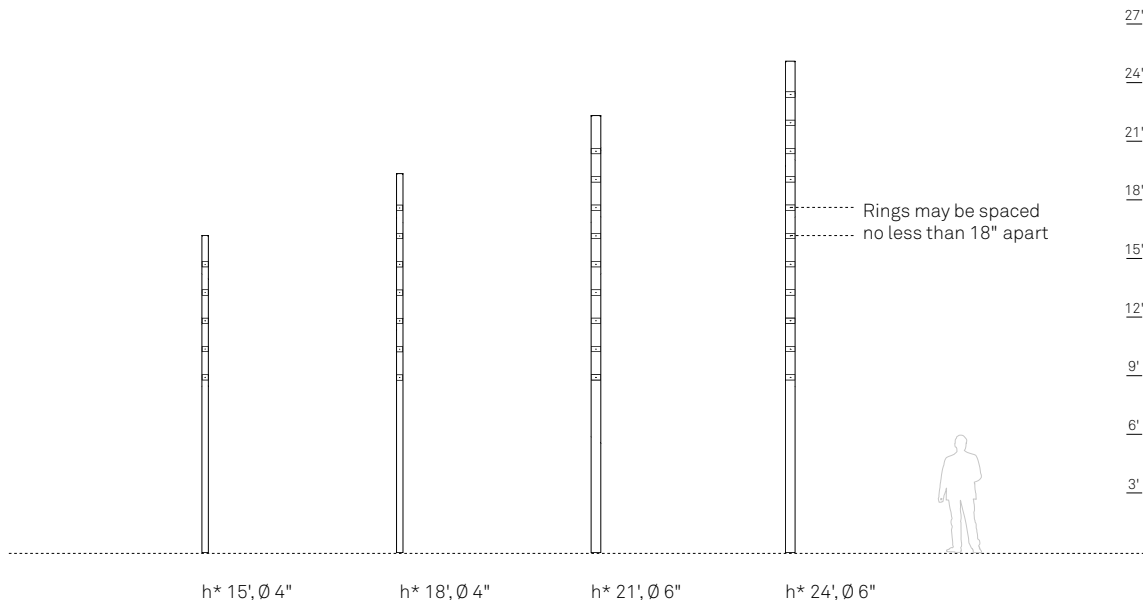


4. Rings

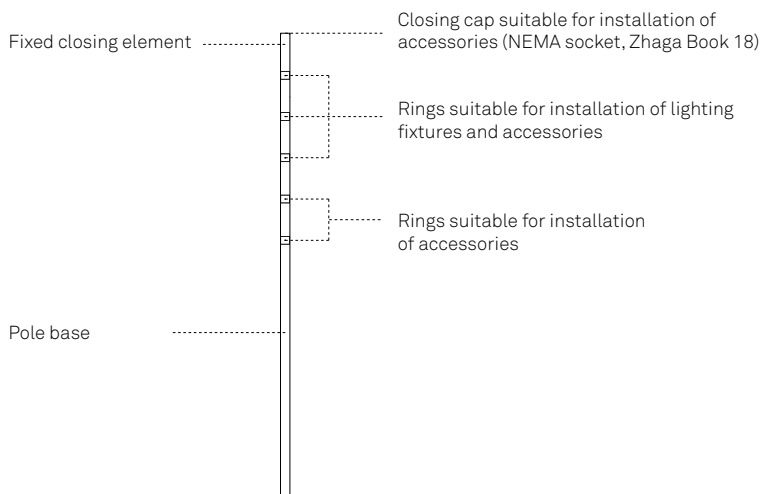
Different heights can accommodate a different number of rings. Rings are the mounting devices designed to hold luminaires or accessories part of the system.

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.

* Mounting height of highest luminaire head.



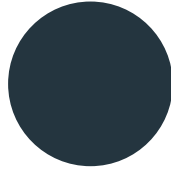
When positioning luminaire heads and accessories on the pole, the lowest 2 rings may be used only for accessories. The rings above these may be used for luminaire heads or accessories.



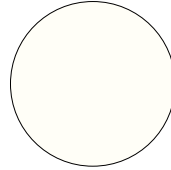
NERI

5. Color

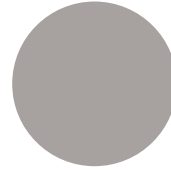
Standard finish for the system is Neri grey.
Other system finishes available are:
pure white, white aluminum, grey
aluminum, jet black, moss green.



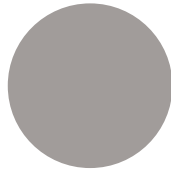
Neri grey



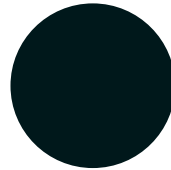
Pure White
RAL 9010



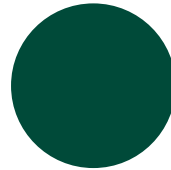
White Aluminum
RAL 9006



Grey Aluminum
RAL 9007



Jet Black
RAL 9005



Moss Green
RAL 6005

NEBULA POLES 15'

Conformity

CE certified post, in compliance with UNI EN 40-5.
EPA Rating in accordance with AASHTO 2015 standards.
Basic Wind Speed: 160mph (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. 4" x 9' 2 2/4".
- (B) Tube diam. 2 1/4" x 7' 1 1/4".
- (C) Tube diam. 1 3/4" x 4" (threaded 1" 1/4 GAS).
- (D) Square flange.

Standard equipment

- Slot (E) (11 3/4" x 2") for installation of terminal board, with or without fuse.
- Hand hole (F) (14 1/4" x 3 1/4") to close the slot for terminal board with the Neri logo on it.
- Hole Ø 3 2/4" at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 16' 7 2/4".
- Height useful: 16' 3 3/4".
- Weight max: 127.8 lb.

Mounting

- Square Flange (D) 10 2/4" x 10 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

Protection of surfaces

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

Painting

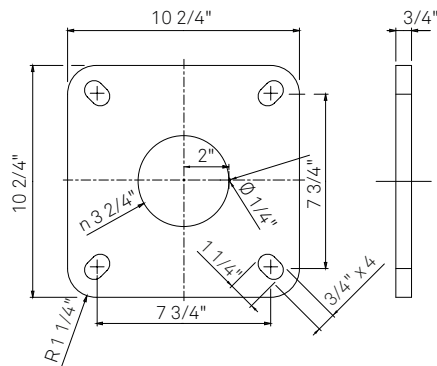
Powder coating:

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

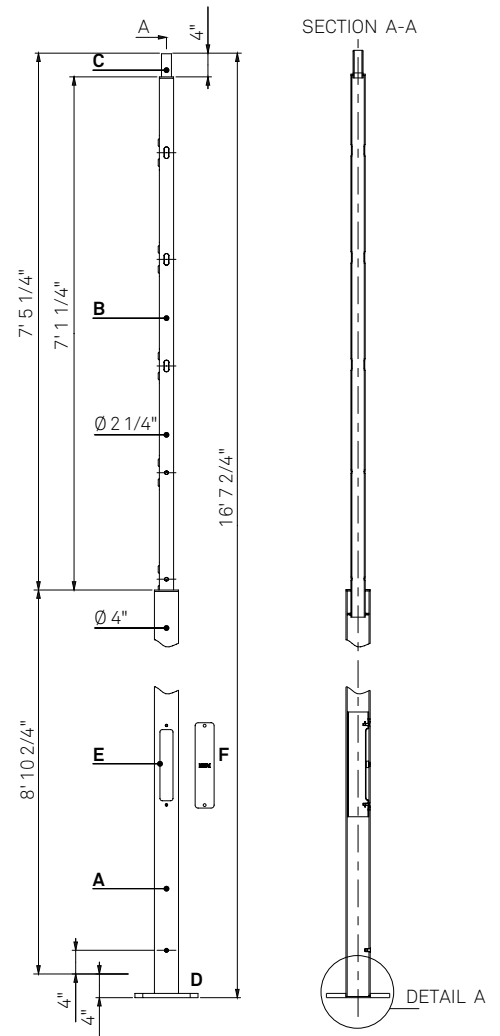
Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DETAIL A - FLANGE PLAN



DRAWINGS



NEBULA POLES 18'

Conformity

CE certified post, in compliance with UNI EN 40-5.
EPA Rating in accordance with AASHTO 2015 standards.
Basic Wind Speed: 160mph (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. 4" x 9' 2 2/4".
- (B) Tube diam. 2 1/4" x 10' 3/4".
- (C) Tube diam. 1 3/4" x 4" (threaded 1" 1/4 GAS).
- (D) Square flange.

Standard equipment

- Slot (E) (11 3/4" x 2") for installation of terminal board, with or without fuse.
- Hand hole (F) (14 1/4" x 3 1/4") to close the slot for terminal board with the Neri logo on it.
- Hole Ø 3 2/4" at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 19' 7".
- Height useful: 19' 3".
- Weight max: 143.3 lb.

Mounting

- Square Flange (D) 10 2/4" x 10 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

Protection of surfaces

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

Painting

Powder coating:

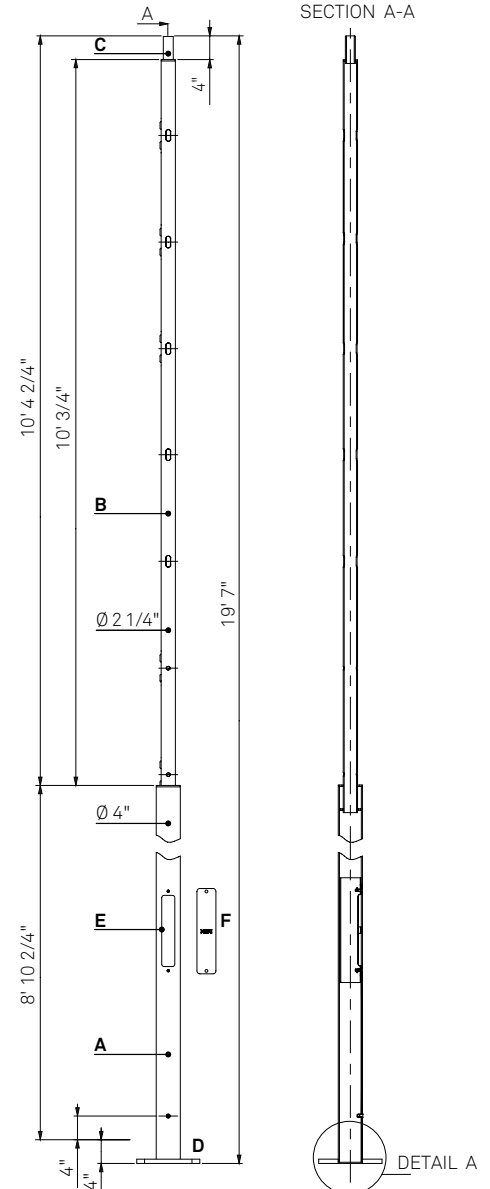
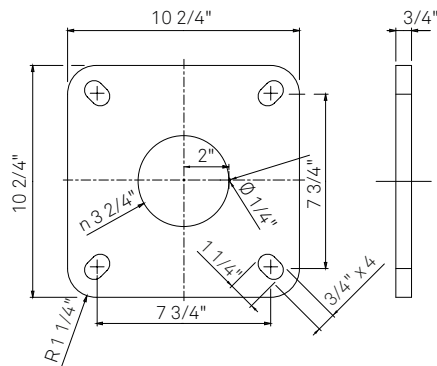
- neri grey
- pure white
- white aluminum
- grey aluminum
- jet black
- moss green

Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DRAWINGS

DETAIL A - FLANGE PLAN



Project location:			
Project name:			
Model #:	OPNEB0000S000003	Date	

Description:

Post base cover for posts with maximum circular section 4".

Dimensions - Weight

Height	Lenght	Width	Weight
3 1/8"	15"	15"	8.8 lb

Materials:

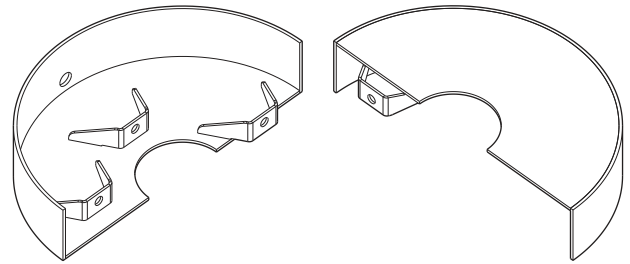
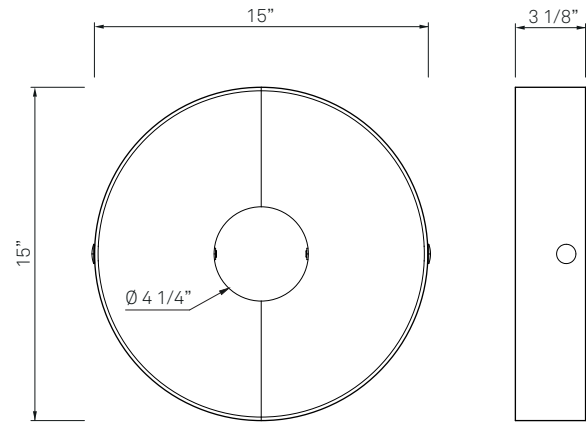
- Galvanized steel sheet.
- Stainless steel screws.

Structure - Main components:

- The post base cover is made up by two piece "clam-shell" cover in aluminum (1/8" thick), designed for post attachment in two places with n.2 M8 screws.

Finish:

- Standard colour is dark grey NERI type.
- Information about paint steps used on this product in specific technical sheet.



NEBULA POLES 21'

Conformity

CE certified post, in compliance with UNI EN 40-5.
EPA Rating in accordance with AASHTO 2015 standards.
Basic Wind Speed: 160mph (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. 6" x 9' 2 2/4".
- (B) Tube diam. 4" x 13' 0".
- (C) Tube diam. 1 3/4" x 4" (threaded 1" 1/4 GAS).
- (D) Square flange.

Standard equipment

- Slot (E) (19 3/4" x 3 2/4") for installation of terminal board, with or without fuse.
- Hand hole (F) (22" x 4 3/4") to close the slot for terminal board with the Neri logo on it.
- Hole Ø 5 2/4" at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 22' 6 2/4".
- Height useful: 22' 2 2/4".
- Weight max: 275.5 lb.

Mounting

- Square Flange (D) 14 2/4" x 14 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

Protection of surfaces

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

Painting

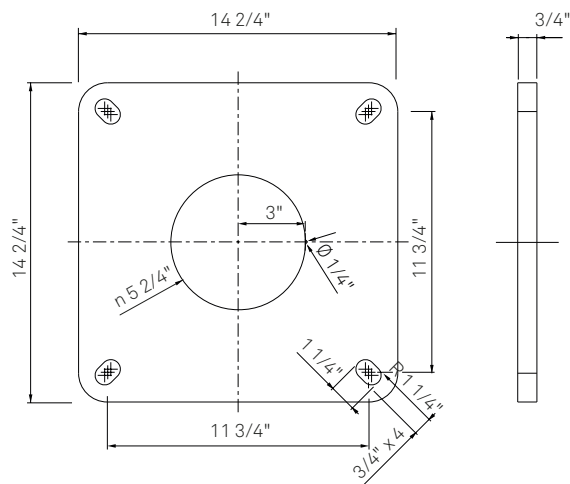
Powder coating:

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

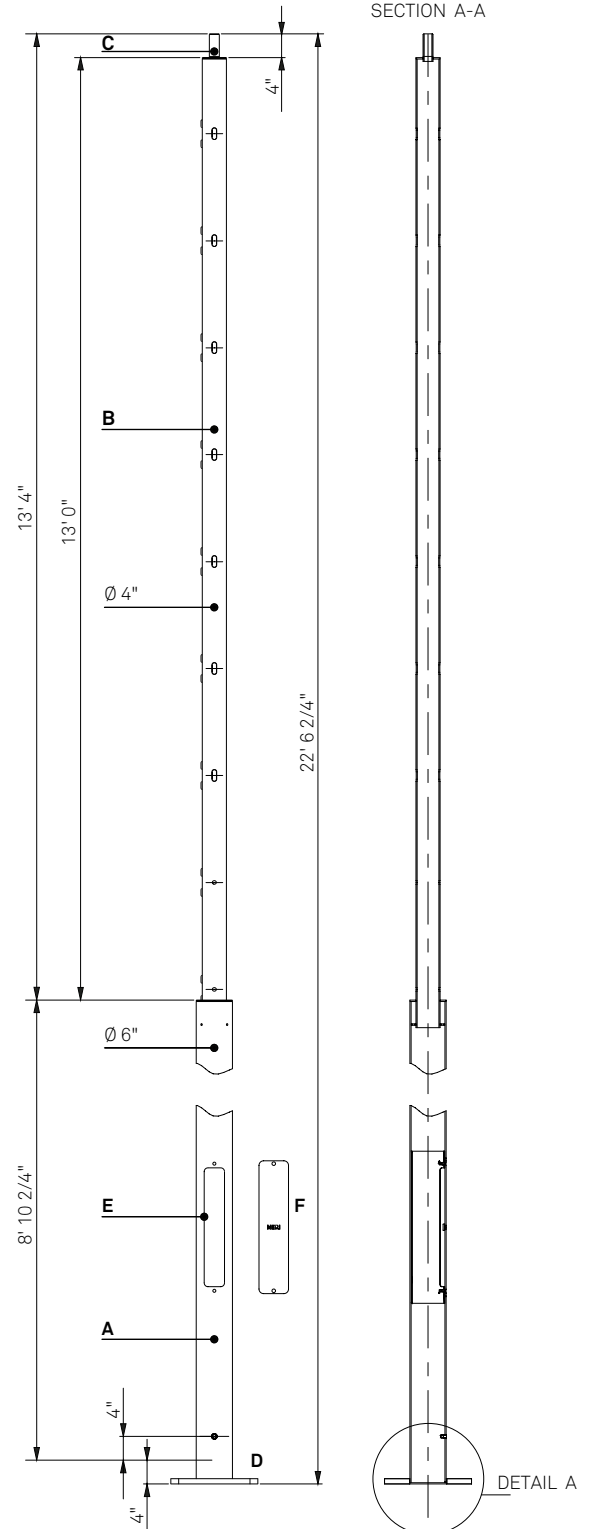
Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DETAIL A - FLANGE PLAN



DRAWINGS



NEBULA POLES 24'

Conformity

CE certified post, in compliance with UNI EN 40-5.
EPA Rating in accordance with AASHTO 2015 standards.
Basic Wind Speed: 160mph (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. 6" x 9' 2 2/4".
- (B) Tube diam. 4" x 15' 11 2/4".
- (C) Tube diam. 1 3/4" x 4" (threaded 1" 1/4 GAS).
- (D) Square flange.

Standard equipment

- Slot (E) (19 3/4" x 3 2/4") for installation of terminal board, with or without fuse.
- Hand hole (F) (22" x 4 3/4") to close the slot for terminal board with the Neri logo on it.
- Hole Ø 5 2/4" at the centre of flange for passage of electric cables.
- Terminal for grounding (bushing M10).

Dimensions and weight

- Height max: 25' 6".
- Height useful: 25' 2".
- Weight max: 308.6 lb.

Mounting

- Square Flange (D) 14 2/4" x 14 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

Protection of surfaces

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

Painting

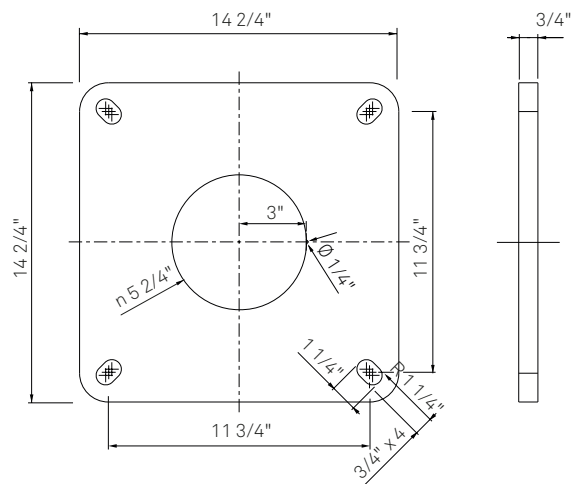
Powder coating:

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

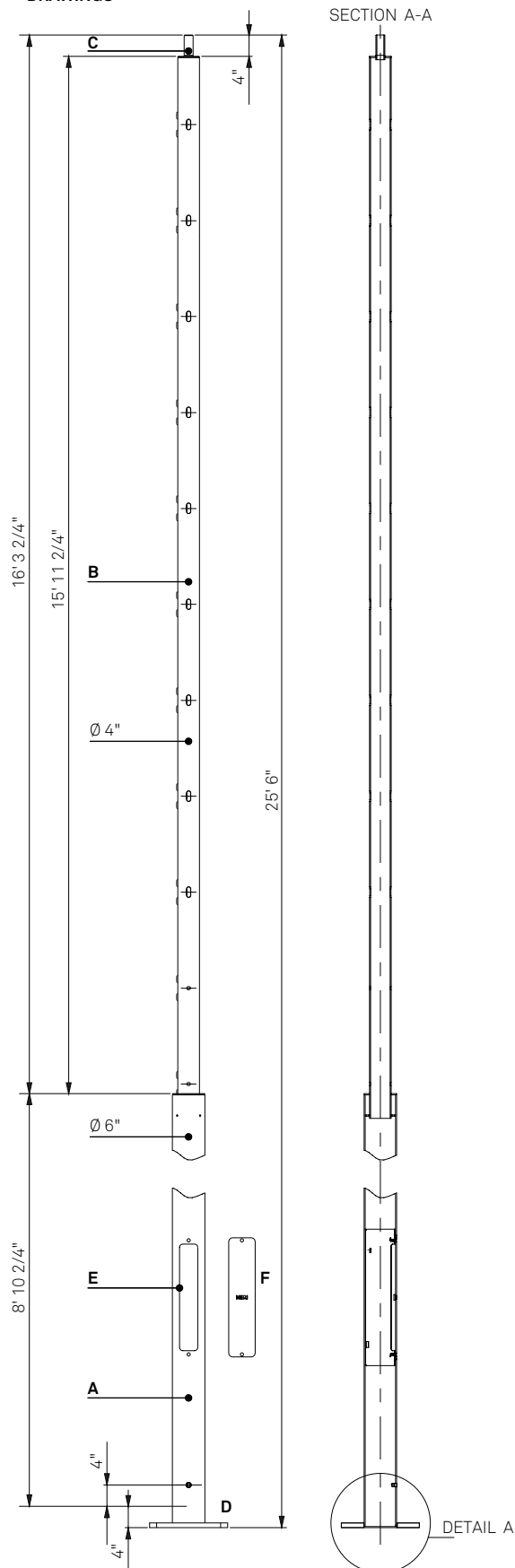
Accessories (on demand)

- Flange cover.
- IP54 kit for hand hole.

DETAIL A - FLANGE PLAN



DRAWINGS



Project location:			
Project name:			
Model #:	OPNEB0000S000004	Date	

Description:

Post base cover for posts with maximum circular section 6".

Dimensions - Weight

Height	Lenght	Width	Weight
3 1/8"	20 2/4"	20 2/4"	12.1 lb

Materials:

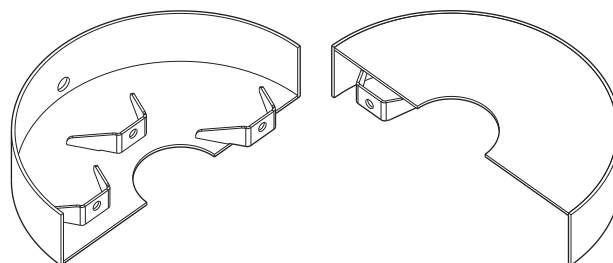
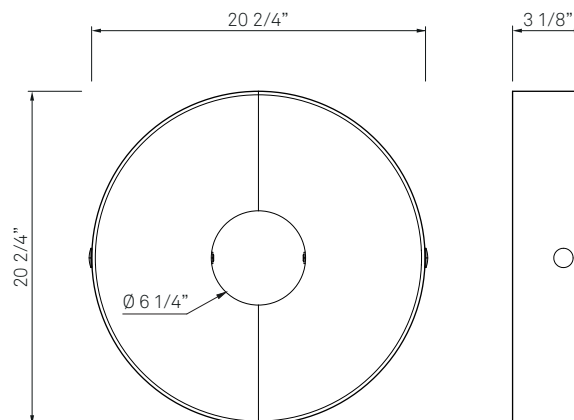
- Galvanized steel sheet.
- Stainless steel screws.

Structure - Main components:

- The post base cover is made up by two piece "clam-shell" cover in aluminum (1/8" thick), designed for post attachment in two places with n.2 M8 screws.

Finish:

- Standard colour is dark grey NERI type.
- Information about paint steps used on this product in specific technical sheet.



Project location:			
Project name:			
Model #:	OPNEB0000S000006	Date	

Description:

Accessory bracket made of steel sheet, composed of welded elements and designed for post mounting fixing (useful dim. 4 3/8" high and diameter 6 4/8").

Dimensions - Weight

Height	Lenght	Width	Weight
5 7/8"	9 2/8"	7 7/8"	4,4 lb

Materials:

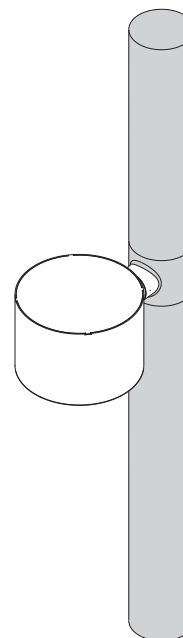
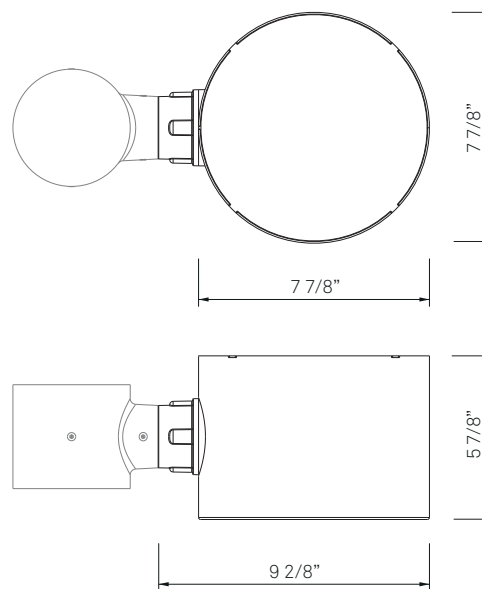
- Galvanized steel sheet.
- Stainless steel screws.

Structure - Main components:

- Accessory bracket in steel sheet designed for post mounting in two places with n.2 M6 screws.

Finish:

- Standard colour is dark grey NERI type.
- Information about paint steps used on this product in specific technical sheet.



Project location:			
Project name:			
Model #:	OPNEB0000S000002	Date	

Description:

Banner arm made of steel sheet, composed of three elements and designed for post mounting fixing. The accessory is composed of n.2 banner arms. The banner arm is equipped with a safety cable fall-arrest system. In the standard configuration the accessory is designed to host a 35 2/4" high and 17 3/4" wide banner (not supplied).

Dimensions - Weight

Height	Lenght	Width	Weight
2 1/8"	20 4/8"	2 1/8"	3.3 lb

Materials:

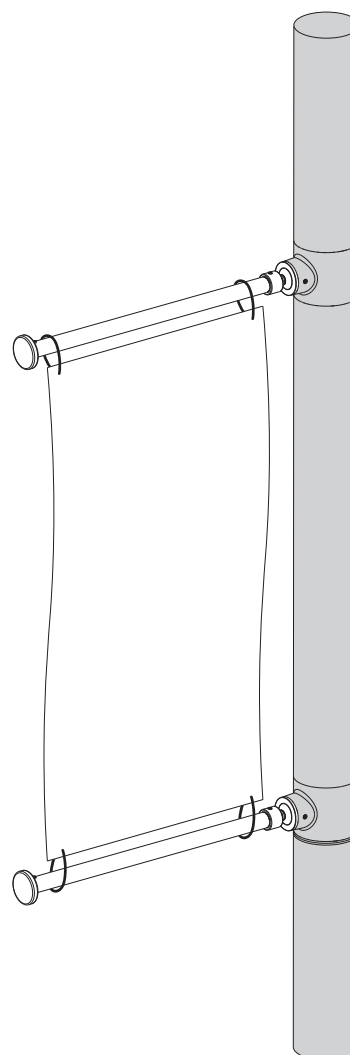
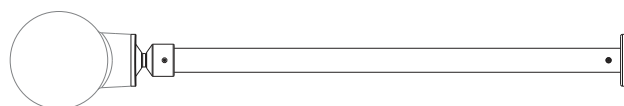
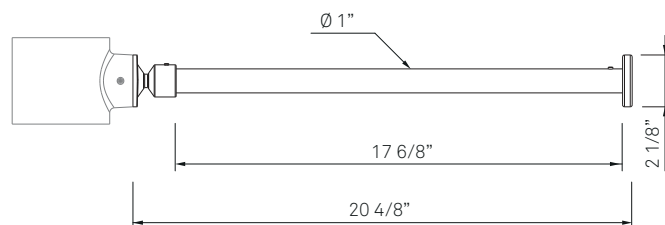
- Galvanized steel sheet.
- Aluminium
- Stainless steel screws.

Structure - Main components:

- Banner arms in stainless steel designed for post mounting in two places with n.2 M6 screws.

Finish:

- Standard colour is dark grey NERI type.
- Information about paint steps used on this product in specific technical sheet.



Project location:			
Project name:			
Model #:	OPNEB0000S000001	Date	

Description:

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

Dimensions - Weight

Height	Lenght	Width	Weight
21 3/8"	12 7/8"	12 7/8"	22 lb

Materials:

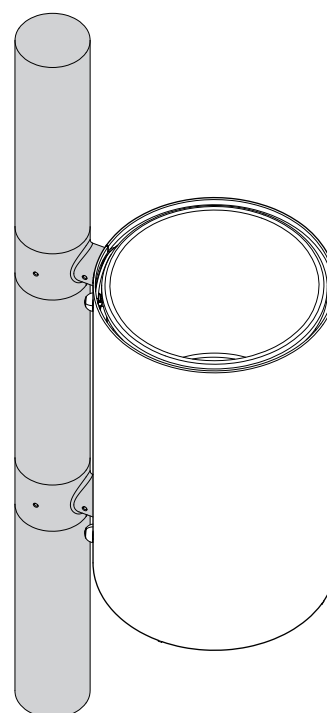
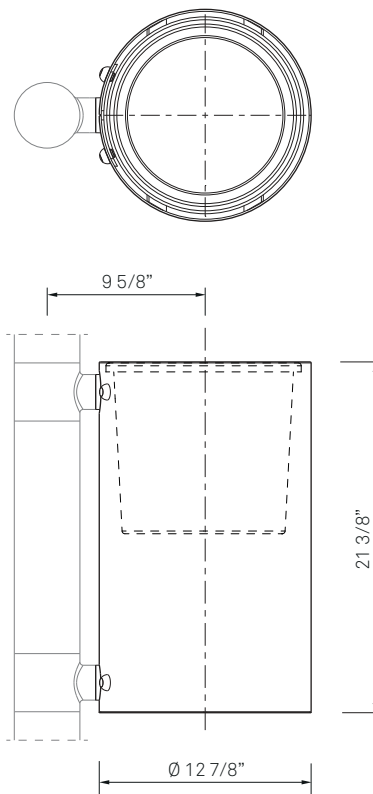
- Galvanized steel sheet.
- Stainless steel screws.

Structure - Main components:

- The basket is made of steel sheet 1.5 mm thick.
- The basket is equipped, on the inside, with two welded elements on which the vase rests.
- The plastic vase has a truncated cone shape and the bottom has holes for water drainage.

Finish:

- Standard colour is dark grey NERI type.
- Information about paint steps used on this product in specific technical sheet.



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			
PT			60	1		EMPTY			

TILT

0°

30°

45°

Front view

REVOLUTION

180°

120°

60°

0°

240°

300°

Hand hole

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN

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

TILT

0°

30°

45°

Front view

REVOLUTION

180°

120°

60°

0°

240°

300°

Hand hole

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

ACCESSORIES

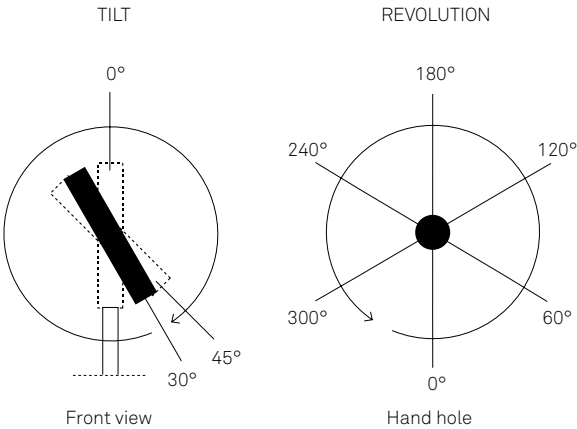
PLANTER = PT
BANNER HOLDER = BN

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

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

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN



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

TILT

0°

30°

45°

Front view

REVOLUTION

180°

120°

60°

0°

240°

300°

Hand hole

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

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN

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

TILT

0°
30°
45°

Front view

REVOLUTION

180°
120°
60°
0°
240°
300°

Hand hole

Fill in this form with the required information to create a summary of your Nebula lamp post configuration. Attached to the summary, fill also in the forms 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

Project location:

Project name:

Model code #:

Date

Fixture type:

Rev.0301/2024

NEBULA L (6")
Nebula Large luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.



- NEBULA L
LUMINAIRE HEAD
DOWN LIGHT

ST

PR

RGBW

A

Aperture lens

Transparent flat glass

Prismatic flat glass

NEBULA L CONFIGURATION #
LUMINAIRE HEAD
DOWN LIGHT

☐ NEBULA L - EMPTY

☐ NEBULA L - ST

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type IV	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500		
<input type="checkbox"/> Type V	<input type="checkbox"/> 4,000K	<input type="checkbox"/> 4,500		
		<input type="checkbox"/> 6,000		

☐ NEBULA L - PR

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 10° Very narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 20° Narrow spot	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500		
<input type="checkbox"/> 35° Medium narrow spot	<input type="checkbox"/> 4,000K	<input type="checkbox"/> 4,500		
<input type="checkbox"/> 70° Medium wide flood		<input type="checkbox"/> 6,000		

☐ NEBULA L - RGBW

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 15° Very narrow spot	<input type="checkbox"/> RGBW	500 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		390 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		133 lm (B)		
		750 lm (W)		

☐ NEBULA L - A

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	700 lm	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V				

☐ NEBULA L - SNOOT

- ☐ snoot 30°
- ☐ snoot 45°

☐ NEBULA L - REFRACTOR SCREEN

☐ Linear Diffusion

☐ NEBULA L - FINISH

- Powder coating

☐ Neri grey

☐ Pure white

☐ White aluminum

☐ Grey aluminum

☐ Jet black

☐ Moss green

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.03	01/2024

NEBULA L (6")
Nebula Large luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.



**NEBULA L
LUMINAIRE HEAD
UP LIGHT**

- ST
- PR
- RGBW
- A

- Aperture lens**
- Transparent flat glass
 - Prismatic flat glass

**NEBULA L CONFIGURATION # _____
LUMINAIRE HEAD
UP LIGHT**

☐ **NEBULA L - EMPTY**

☐ **NEBULA L - ST**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type II	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type IV	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500		
<input type="checkbox"/> Type V	<input type="checkbox"/> 4,000K	<input type="checkbox"/> 4,500		
		<input type="checkbox"/> 6,000		

☐ **NEBULA L - PR**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 10° Very narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 2,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 20° Narrow spot	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 3,500		
<input type="checkbox"/> 35° Medium narrow spot	<input type="checkbox"/> 4,000K	<input type="checkbox"/> 4,500		
<input type="checkbox"/> 70° Medium wide flood		<input type="checkbox"/> 6,000		

☐ **NEBULA L - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 15° Very narrow spot	<input type="checkbox"/> RGBW	500 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		390 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		133 lm (B)		
		750 lm (W)		

☐ **NEBULA L - A**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	700 lm	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V				

☐ **NEBULA L - SNOOT**

- ☐ snoot 30°
- ☐ snoot 45°

☐ **NEBULA L - REFRACTOR SCREEN**

- Linear Diffusion

☐ **NEBULA L - FINISH**

- Powder coating**
- ☐ Neri grey
 - ☐ Pure white
 - ☐ White aluminum
 - ☐ Grey aluminum
 - ☐ Jet black
 - ☐ Moss green

NERI

Nebula L - ST

Source	LED
Weight	26,4lb
Height	3' 0"
Diameter	6"
EPA	1,26 ft ²

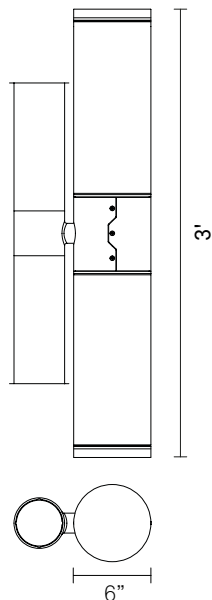
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.03	01/2024



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	Type II	2,700K	2,500	0-10V	Prismatic flat glass
	Type IV	3,000K	3,500		
	Type V	4,000K	4,500		
			6,000		
Down	Type II	2,700K	2,500	0-10V	Prismatic flat glass
	Type IV	3,000K	3,500		
	Type V	4,000K	4,500		
			6,000		

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 21.3 W to 52.1 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW.
- Color Rendering Index: CRI > 80
- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).
- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h

L90 - Tq=77°F).

- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - Tq=77°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

Nebula L - PR

Source	LED
Weight	26,4lb
Height	3' 0"
Diameter	6"
EPA	1,26 ft ²

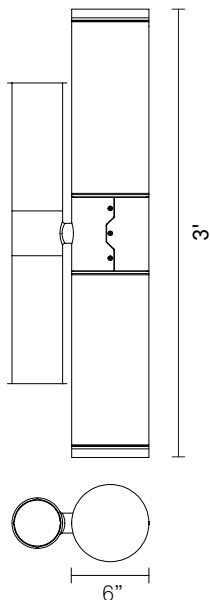
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.03	01/2024



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	10° Very narrow spot	2,700K	2,500	1-10V	Transparent flat glass
	20° Narrow spot	3,000K	3,500		
	35° Medium narrow spot	4,000K	4,500		
	70° Medium wide flood		6,000		
Down	10° Very narrow spot	2,700K	2,500	1-10V	Transparent flat glass
	20° Narrow spot	3,000K	3,500		
	35° Medium narrow spot	4,000K	4,500		
	70° Medium wide flood		6,000		

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 21.3 W to 52.1 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW.
- Color Rendering Index: CRI > 80
- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).
- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h

L90 - Tq=77°F).

- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - Tq=77°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

Nebula L - RGBW

Source	LED
Weight	26,4lb
Height	3' 0"
Diameter	6"
EPA	1,26 ft ²

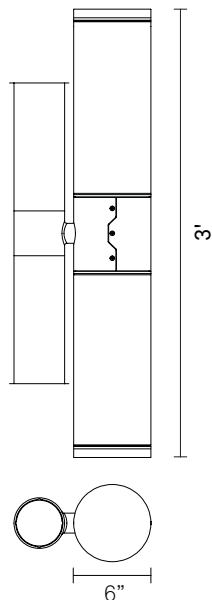
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.03	01/2024



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	15° Very narrow spot 25° Narrow spot 35° Medium narrow spot	RGBW	500 lm (R) 390 lm (G) 133 lm (B) 750 lm (W)	DMX	Transparent flat glass
Down	15° Very narrow spot 25° Narrow spot 35° Medium narrow spot	RGBW	500 lm (R) 390 lm (G) 133 lm (B) 750 lm (W)	DMX	Transparent flat glass

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 21.3 W to 52.1 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW.
- Color Rendering Index: CRI > 80
- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).
- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h

L90 - Tq=77°F).

- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - Tq=77°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

Nebula L - A

Source	LED
Weight	26,4lb
Height	3' 0"
Diameter	6"
EPA	1,26 ft ²

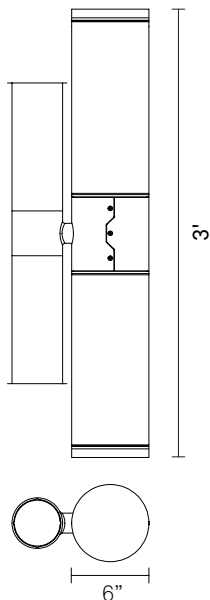
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.03	01/2024



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	Type II Type V	Amber	700 lm	0-10V	Prismatic flat glass
Down	Type II Type V	Amber	700 lm	0-10V	Prismatic flat glass

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 21.3 W to 52.1 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW.
- Color Rendering Index: CRI > 80
- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).
- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h

L90 - Tq=77°F).

- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - Tq=77°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

Project location:

Project name:

Model code #:

Date

Fixture type:

Rev.03

01/2024

NEBULA L - ST

Prismatic flat glass - COB LED

2,700K

lm tot	W tot	lm/W
2,500	23.2	108
3,500	32.5	108
4,500	42.1	107
5,500	52.2	105

3,000K

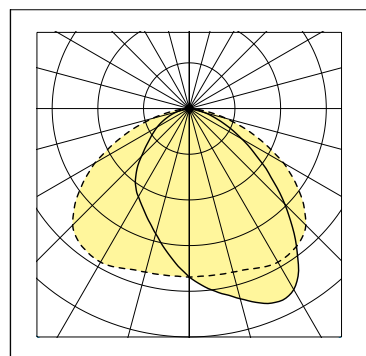
lm tot	W tot	lm/W
2,500	22.1	113
3,500	30.8	114
4,500	39.8	113
5,500	49.3	112

4,000K

lm tot	W tot	lm/W
2,500	21.3	117
3,500	29.7	118
4,500	38.4	117
6,000	52.1	115

Type II

Prismatic flat glass



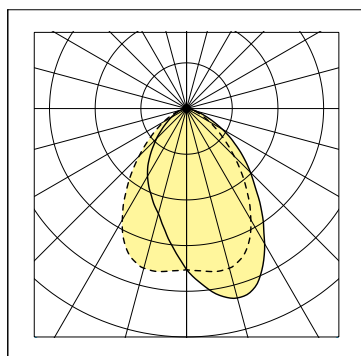
LOR 100%

Full Cutoff



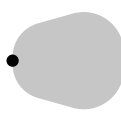
Type IV

Prismatic flat glass



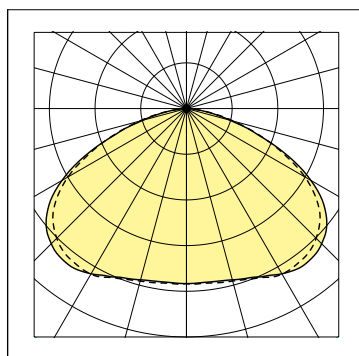
LOR 100%

Full Cutoff



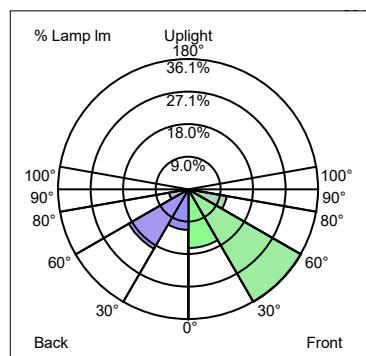
Type V

Prismatic flat glass



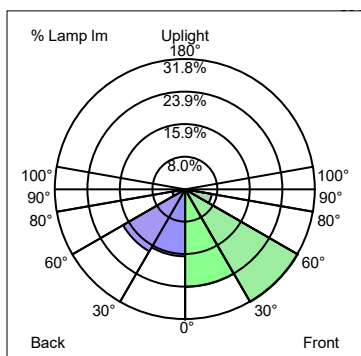
LOR 100%

Full Cutoff



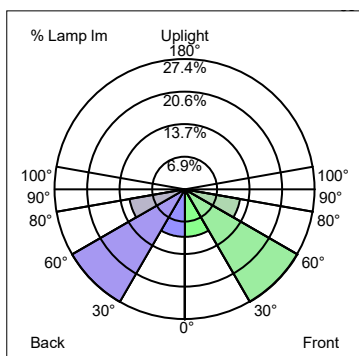
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	16.3	16.3
FM	30° - 60°	36.1	36.1
FH	60° - 80°	10.8	10.8
FVH	80° - 90°	0.7	0.7
BL	0° - 30°	11.3	11.3
BM	30° - 60°	19.1	19.1
BH	60° - 80°	5.4	5.4
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B2 U1 G1



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	23.9	23.9
FM	30° - 60°	31.8	31.8
FH	60° - 80°	6.7	6.7
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	16.4	16.4
BM	30° - 60°	17.5	17.5
BH	60° - 80°	3.2	3.2
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B2 U1 G1



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	10.0	10.0
FM	30° - 60°	27.4	27.4
FH	60° - 80°	11.8	11.8
FVH	80° - 90°	0.7	0.7
BL	0° - 30°	10.0	10.0
BM	30° - 60°	27.4	27.4
BH	60° - 80°	11.8	11.8
BVH	80° - 90°	0.7	0.7
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B2 U1 G1

NERI

NEBULA L - PR

Transparent flat glass - COB LED

Project location:

Project name:

Model code #:

Date

Fixture type:

Rev.03

01/2024

2,700K

lm tot	W tot	lm/W
2,500	21.3	118
3,500	29.6	118
4,500	38.3	118
6,000	51.9	116

3,000K

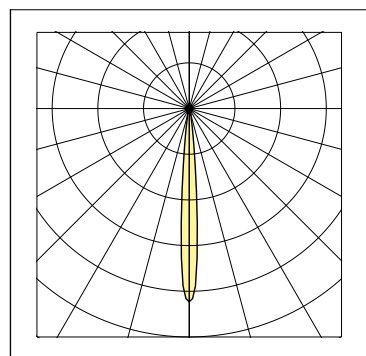
lm tot	W tot	lm/W
2,500	20.2	124
3,500	28.1	124
4,500	36.3	124
6,000	49.0	122

4,000K

lm tot	W tot	lm/W
2,500	19.5	128
3,500	27.1	129
4,500	34.9	129
6,000	47.2	127

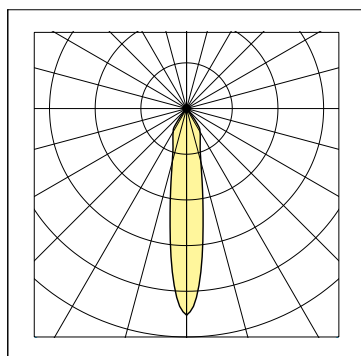
10° Very narrow spot

Transparent flat glass



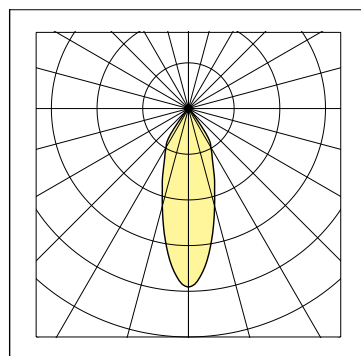
20° Narrow spot

Transparent flat glass



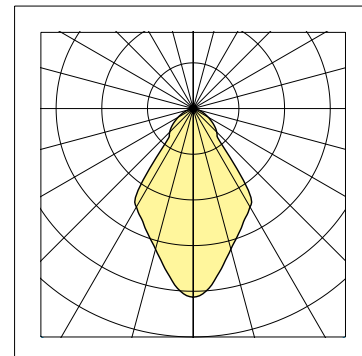
35° Medium narrow spot

Transparent flat glass



70° Medium wide flood

Transparent flat glass



LOR 100%

Full Cutoff

NEMA class 2x2



LOR 100%

Full Cutoff

NEMA class 4x4



LOR 100%

Full Cutoff

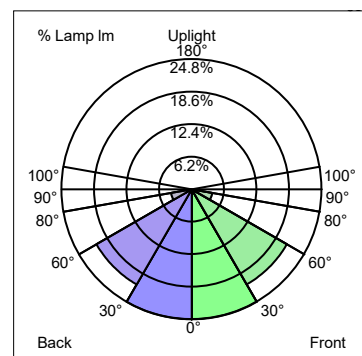
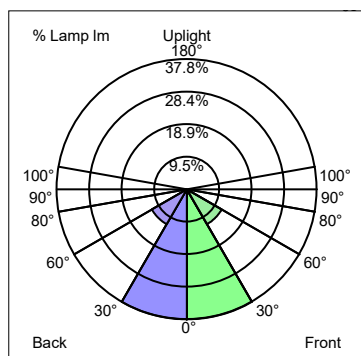
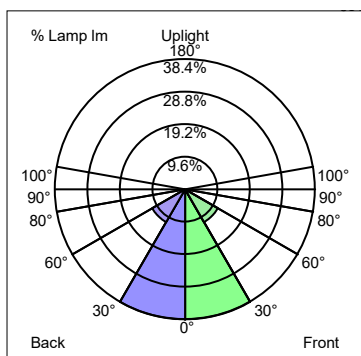
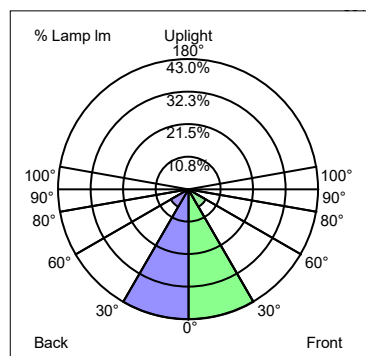
NEMA class 5x5



LOR 100%

Full Cutoff

NEMA class 6x6



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	43.0	43.0
FM	30° - 60°	6.7	6.7
FH	60° - 80°	0.3	0.3
FVH	80° - 90°	0.0	0.0
BL	0° - 30°	43.0	43.0
BM	30° - 60°	6.7	6.7
BH	60° - 80°	0.3	0.3
BVH	80° - 90°	0.0	0.0
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B4 U1 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	38.4	38.4
FM	30° - 60°	11.2	11.2
FH	60° - 80°	0.4	0.4
FVH	80° - 90°	0.0	0.0
BL	0° - 30°	38.4	38.4
BM	30° - 60°	11.2	11.2
BH	60° - 80°	0.4	0.4
BVH	80° - 90°	0.0	0.0
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B3 U1 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	37.8	37.8
FM	30° - 60°	11.7	11.7
FH	60° - 80°	0.4	0.4
FVH	80° - 90°	0.0	0.0
BL	0° - 30°	37.8	37.8
BM	30° - 60°	11.7	11.7
BH	60° - 80°	0.4	0.4
BVH	80° - 90°	0.0	0.0
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B3 U2 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	24.8	24.8
FM	30° - 60°	21.0	21.0
FH	60° - 80°	4.0	4.0
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	24.8	24.8
BM	30° - 60°	21.0	21.0
BH	60° - 80°	4.0	4.0
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B3 U1 G1

Neri North America 250 Catalonia Ave, Ste. 804 Coral Gables, FL 33143 - T: +1 786 315 4367.

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Company shall reserve the right at any time and from time to time to modify the specifications or features or to discontinue the sale of any products.

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.03	01/2024

NEBULA L - RGBW

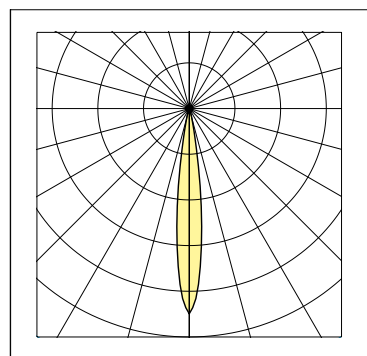
Transparent flat glass - High Power LED

RGBW

Color	lm	λ (nm)
Red	500 (R)	623
Green	390 (G)	517
Blu	133 (B)	455
White	750 (W)	-

15° Very narrow spot

Transparent flat glass

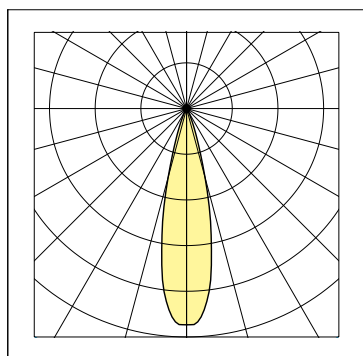


LOR 100%
Full Cutoff
NEMA class 2x2



25° Narrow spot

Transparent flat glass

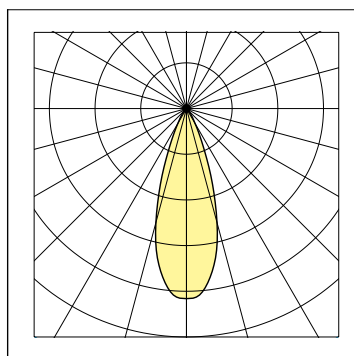


LOR 100%
Full Cutoff
NEMA class 3x3



35° Medium narrow spot

Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 4x4



Project location:	
Project name:	
Model code #:	Date

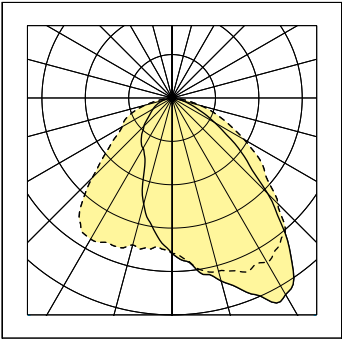
Fixture type:	
Rev.03	01/2024

NEBULA L - AMBER
Prismatic flat glass - High Power LED

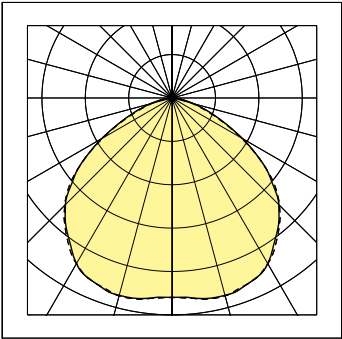
Amber		
Color	lm	λ (nm)
Amber	700	598

Type II
Prismatic flat glass

Type V
Prismatic flat glass



LOR 100%
Full Cutoff



LOR 100%
Full Cutoff



NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.02	11/2023

NEBULA S (4")

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

☐ NEBULA S - EMPTY

☐ NEBULA S - ST

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type I	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type II	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 1,500		
<input type="checkbox"/> Type IV	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> Type V				

☐ NEBULA S - PR

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 30° Medium narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Medium flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 1,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 80° Medium wide flood				

☐ NEBULA S - RGBW

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 15° Very narrow spot	<input type="checkbox"/> RGBW	270 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		210 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ NEBULA S - A

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	350 lm (A)	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V				

☐ NEBULA S - SNOOT

- ☐ snoot 30°
- ☐ snoot 45°

☐ NEBULA S - REFRACTOR SCREEN

Linear Diffusion

☐ NEBULA S - FINISH

Powder coating

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

NEBULA S LUMINAIRE HEAD DOWN LIGHT

ST

PR

RGBW

A

Aperture lens

Transparent flat
glass

Prismatic flat
glass

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.02	11/2023

NEBULA S (4")

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

UP

NEBULA S CONFIGURATION # _____

LUMINAIRE HEAD UP LIGHT

☐ NEBULA S - EMPTY

☐ NEBULA S - ST

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type I	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type II	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 1,500		
<input type="checkbox"/> Type IV	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> Type V				

☐ NEBULA S - PR

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 30° Medium narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Medium flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 1,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 80° Medium wide flood				

☐ NEBULA S - RGBW

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 15° Very narrow spot	<input type="checkbox"/> RGBW	270 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 25° Narrow spot		210 lm (G)		
<input type="checkbox"/> 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ NEBULA S - A

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> Type II	<input type="checkbox"/> Amber	350 lm (A)	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type V				

☐ NEBULA S - SNOOT

☐ snoot 30°

☐ snoot 45°

☐ NEBULA S - REFRACTOR SCREEN

Linear Diffusion

☐ NEBULA S - FINISH

Powder coating

☐ Neri grey

☐ Pure white

☐ White aluminum

☐ Grey aluminum

☐ Jet black

☐ Moss green

NEBULA S LUMINAIRE HEAD UP LIGHT

ST

PR

RGBW

A

Aperture lens

Transparent flat
glass

Prismatic flat
glass

NERI

Nebula S - ST

Source	LED
Weight	17,6lb
Height	3' 0"
Diameter	4"
EPA	0,85 ft ²

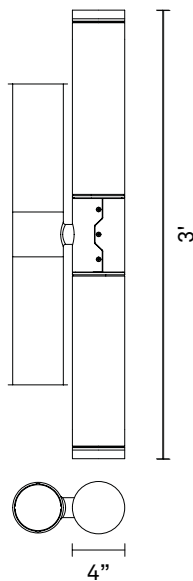
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	09/2022



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	Type I	2,700K	1,000	0-10V	Prismatic flat glass
	Type II	3,000K	1,500		
	Type IV	4,000K			
	Type V				
Down	Type I	2,700K	1,000	0-10V	Prismatic flat glass
	Type II	3,000K	1,500		
	Type IV	4,000K			
	Type V				

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 12,6 W to 24,0 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).
- LED type: COB CREE CMU 2287,

Nebula PR (estimated life 75,000 h L80 - Tq=122°F).

- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h L90 - Tq=77°F).
- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - Tq=77°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

Nebula S - PR

Source	LED
Weight	17,6lb
Height	3' 0"
Diameter	4"
EPA	0,85 ft ²

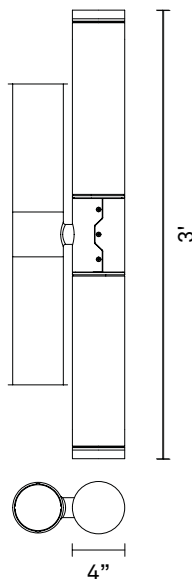
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	09/2022



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	30° Medium narrow spot	2,700K	1,000	0-10V	Transparent flat glass
	60° Medium flood	3,000K	1,500		
	70° Medium wide flood	4,000K	2,500		
	80° Medium wide flood				
Down	30° Medium narrow spot	2,700K	1,000	0-10V	Transparent flat glass
	60° Medium flood	3,000K	1,500		
	70° Medium wide flood	4,000K	2,500		
	80° Medium wide flood				

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
- Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 12,6 W to 24,0 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).

- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).
- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h L90 - Tq=77°F).
- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - Tq=77°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

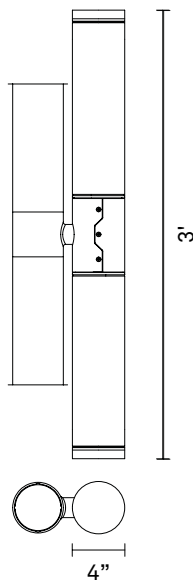
Nebula S - RGBW

Source	LED
Weight	17,6lb
Height	3' 0"
Diameter	4"
EPA	0,85 ft ²

Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	15° Very narrow spot	RGBW	270 (R)	DMX	Transparent flat glass
	25° Narrow spot		210 (G)		
	35° Medium narrow spot		75 (B)		
			390 (W)		
Down	15° Very narrow spot	RGBW	270 (R)	DMX	Transparent flat glass
	25° Narrow spot		210 (G)		
	35° Medium narrow spot		75 (B)		
			390 (W)		

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 12,6 W to 24,0 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).

- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).
- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h L90 - Tq=77°F).
- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - Tq=77°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

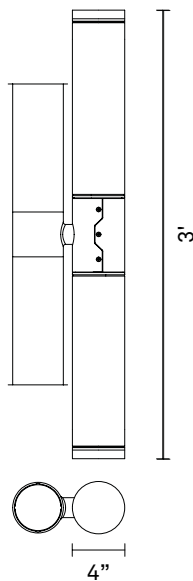
Nebula S - Amber

Source	LED
Weight	17,6lb
Height	3' 0"
Diameter	4"
EPA	0,85 ft ²

Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	Type II Type V	Amber	350	0-10V	Prismatic flat glass
Down	Type II Type V	Amber	350	0-10V	Prismatic flat glass

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Finish:

- Powder coating or anodizing.
- Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
- Information about paint steps used on this product in specific technical sheet.

Fixing:

- Fixing by two headless screws M6 lock nuts with stainless steel.
- Central frame with a tilting system of $\pm 45^\circ$.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 12,6 W to 24,0 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / $+95^\circ\text{F}$.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,000 to 1,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - $T_q=77^\circ\text{F}$).

- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - $T_q=122^\circ\text{F}$).
- LED type: Cree XM-L Color, Nebula RGBW (estimated life 91,000 h L90 - $T_q=77^\circ\text{F}$).
- LED type: Cree XB-D Color, Nebula Amber (estimated life 60,000 h L80 - $T_q=77^\circ\text{F}$).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

NEBULA S - ST

Prismatic flat glass - High Power LED

2,700K

lm tot	W tot	lm/W
1,000	12,5	80
1,500	18,7	80

3,000K

lm tot	W tot	lm/W
1,000	11,6	86
1,500	17,4	86

4,000K

lm tot	W tot	lm/W
1,000	10,3	97
1,500	15,5	97

Type I

Prismatic flat glass

Type II

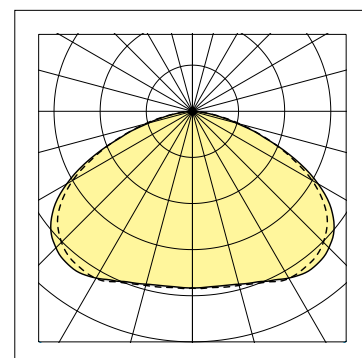
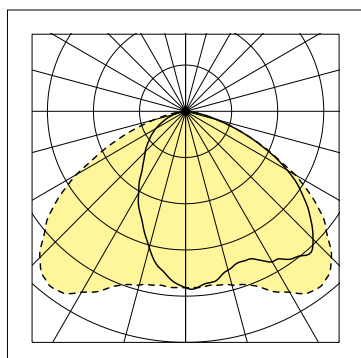
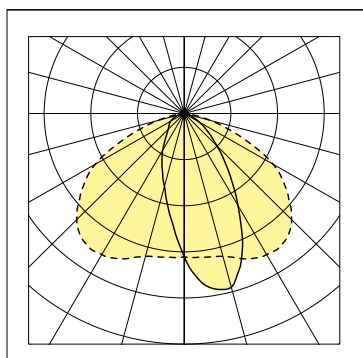
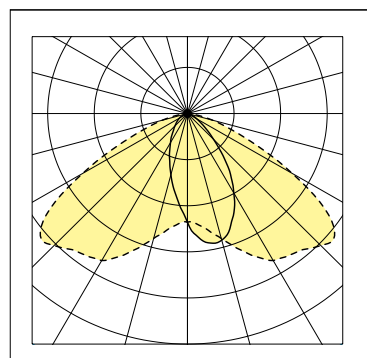
Prismatic flat glass

Type IV

Prismatic flat glass

Type V

Prismatic flat glass



LOR 100%

Full Cutoff



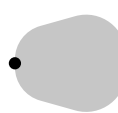
LOR 100%

Full Cutoff



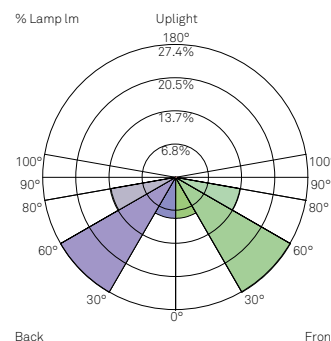
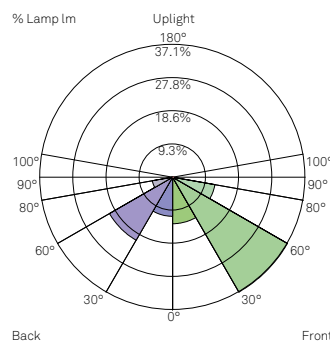
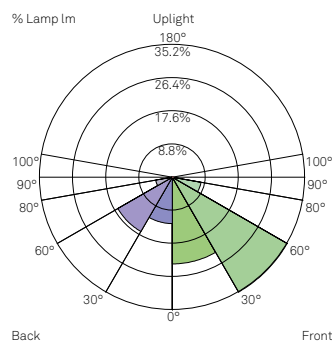
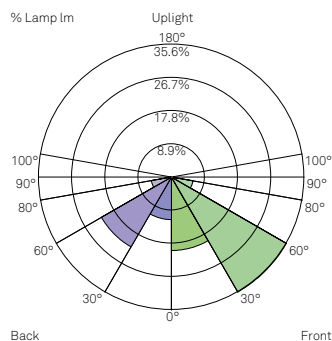
LOR 100%

Full Cutoff



LOR 100%

Full Cutoff



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	19.7	19.7
FM	30° - 60°	35.6	35.6
FH	60° - 80°	5.9	5.9
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	11.4	11.4
BM	30° - 60°	21.6	21.6
BH	60° - 80°	5.4	5.4
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B1 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	23.0	23.0
FM	30° - 60°	35.2	35.2
FH	60° - 80°	7.8	7.8
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	12.3	12.3
BM	30° - 60°	16.7	16.7
BH	60° - 80°	4.5	4.5
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B1 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	13.0	13.0
FM	30° - 60°	37.1	37.1
FH	60° - 80°	12.1	12.1
FVH	80° - 90°	0.5	0.5
BL	0° - 30°	11.0	11.0
BM	30° - 60°	20.4	20.4
BH	60° - 80°	5.7	5.7
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B1 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	8.5	8.5
FM	30° - 60°	27.4	27.4
FH	60° - 80°	13.5	13.5
FVH	80° - 90°	0.6	0.6
BL	0° - 30°	8.5	8.5
BM	30° - 60°	27.4	27.4
BH	60° - 80°	13.5	13.5
BVH	80° - 90°	0.6	0.6
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

BUG: B1 U0 G0

NERI

NEBULA S - PR

Transparent flat glass - COB LED

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.02	11/2023

2,700K

lm tot	W tot	lm/W
1,000	9,7	103
1,500	13,5	111
2,500	21,0	119

3,000K

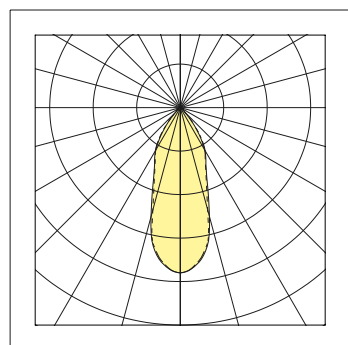
lm tot	W tot	lm/W
1,000	9,3	108
1,500	12,9	116
2,500	20,0	125

4,000K

lm tot	W tot	lm/W
1,000	9,0	111
1,500	12,6	119
2,500	19,4	129

30° Medium narrow spot

Transparent flat glass

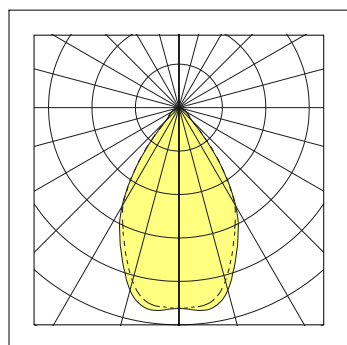


LOR 100%
Full Cutoff
NEMA class 5x5



60° Medium flood

Transparent flat glass

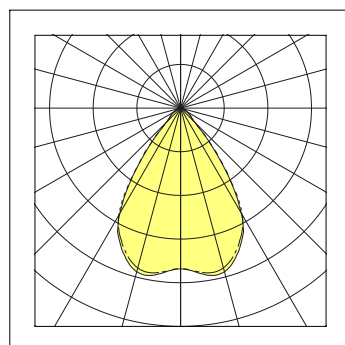


LOR 100%
Full Cutoff
NEMA class 5x5



70° Medium wide flood

Transparent flat glass

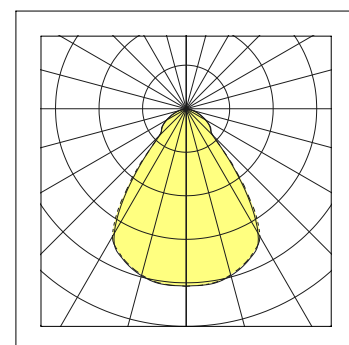


LOR 100%
Full Cutoff
NEMA class 5x5

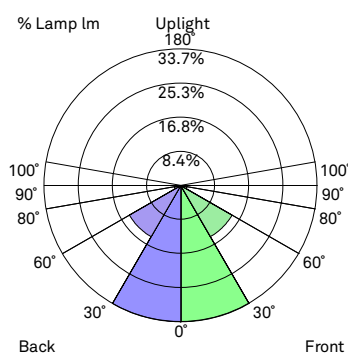


80° Medium wide flood

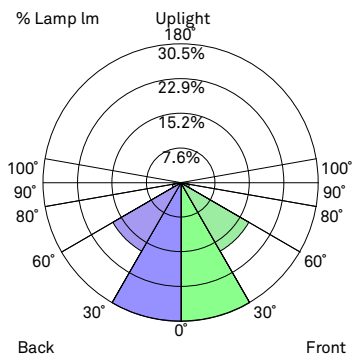
Transparent flat glass



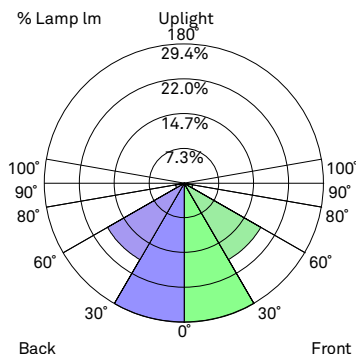
LOR 100%
Full Cutoff
NEMA class 7x7



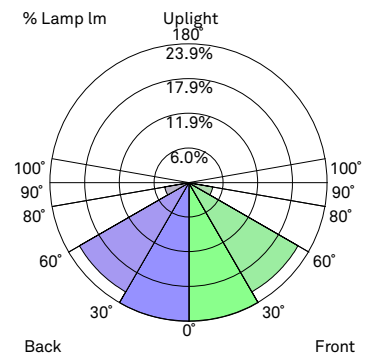
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	33.7	33.7
FM	30° - 60°	14.6	14.6
FH	60° - 80°	1.6	1.6
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	33.7	33.7
BM	30° - 60°	14.6	14.6
BH	60° - 80°	1.6	1.6
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	30.5	30.5
FM	30° - 60°	17.4	17.4
FH	60° - 80°	1.9	1.9
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	30.5	30.5
BM	30° - 60°	17.4	17.4
BH	60° - 80°	1.9	1.9
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	29.4	29.4
FM	30° - 60°	18.6	18.6
FH	60° - 80°	1.8	1.8
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	29.4	29.4
BM	30° - 60°	18.6	18.6
BH	60° - 80°	1.8	1.8
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	23.9	23.9
FM	30° - 60°	21.7	21.7
FH	60° - 80°	4.2	4.2
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	23.9	23.9
BM	30° - 60°	21.7	21.7
BH	60° - 80°	4.2	4.2
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.02	11/2023

NEBULA S - RGBW

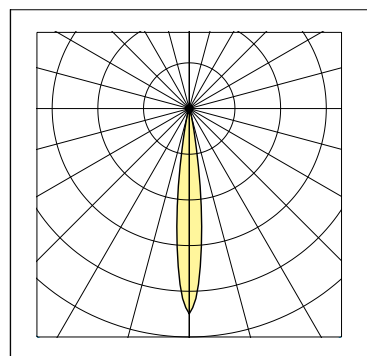
Transparent flat glass - High Power LED

RGBW

Color	lm	λ (nm)
Red	270 (R)	623
Green	210 (G)	517
Blu	75 (B)	455
White	390 (W)	-

15° Very narrow spot

Transparent flat glass

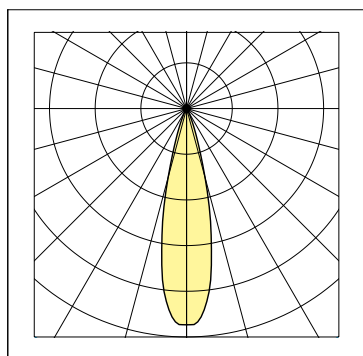


LOR 100%
Full Cutoff
NEMA class 2x2



25° Narrow spot

Transparent flat glass

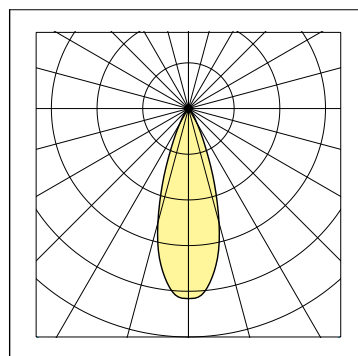


LOR 100%
Full Cutoff
NEMA class 3x3



35° Medium narrow spot

Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 4x4



NERI

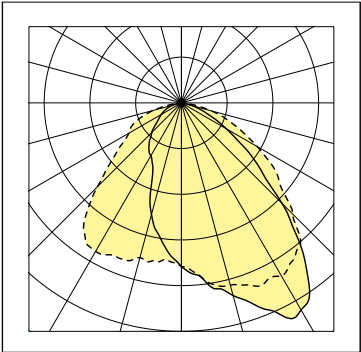
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.02	11/2023

NEBULA S - A
Prismatic flat glass - High Power LED

Amber		
Color	lm	λ (nm)
Amber	350	598

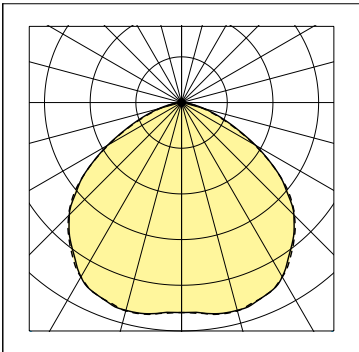
Type II
Prismatic flat glass



LOR 100%
Full Cutoff



Type V
Prismatic flat glass



LOR 100%
Full Cutoff



Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	11/2023

NEBULA V (6")
Nebula Venice luminaire head consists of one source. The overview below lists available options.

NEBULA V CONFIGURATION # _____
LUMINAIRE HEAD
DOWN LIGHT

☐ **NEBULA V - EMPTY**

☐ **NEBULA V - ST**

<input type="checkbox"/> Type I	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Prismatic flat glass
<input type="checkbox"/> Type II	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 1,500	<input type="checkbox"/> DMX	
<input type="checkbox"/> Type IV	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> Type V				

☐ **NEBULAV - PR**

<input type="checkbox"/> 30° Medium narrow spot	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 1,000	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Medium flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 1,500	<input type="checkbox"/> DMX	
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 80° Medium wide flood				



DOWN

NEBULA V
LUMINAIRE HEAD
DOWN LIGHT

ST

PR

Aperture lens

Transparent flat
glass

Prismatic flat
glass

NERI

Nebula Venezia - ST

Source	LED
Weight	19,84lb
Height	3' 0"
Diameter	6"
EPA	1,26 ft²

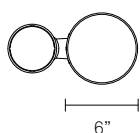
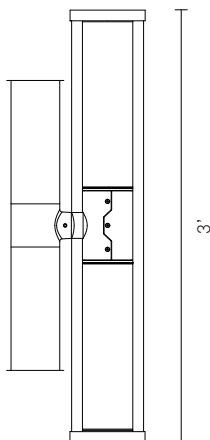
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	11/2023



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Down	Type I	2,700K	1,000	0-10V	Prismatic flat glass
	Type II	3,000K	1,500		
	Type IV	4,000K			
	Type V				

SPECIFICATIONS:

Construction:

- LED decorative module (RGBA).
- External cover in PMMA.
- Internal frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Fixing:

- Fixing by two headless screws M8 lock nuts with stainless steel.

Finish:

- RAL: 9006
- Information about paint steps used on this product in specific technical sheet.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 12.6 W to 24.0 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,500 to 2,500 lm.
- Color temperature: 2,700K to 4,000K.
- Color Rendering Index: CRI > 80
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).
- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

Nebula Venezia - PR

Source	LED
Weight	19,84lb
Height	3' 0"
Diameter	6"
EPA	1,26 ft²

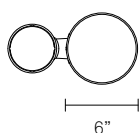
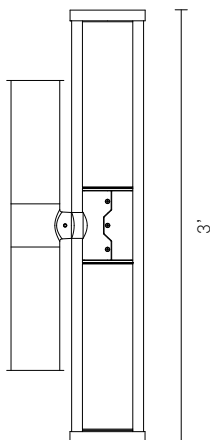
Nebula luminaire heads are composed by two light sources. They can be both switched on or just one.



Compliance:
UL Standard 1598 CSA C22.2 no.250.0-8

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	11/2023



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Down	30° Medium narrow spot	2,700K	1,000	0-10V	Transparent flat glass
	60° Medium flood	3,000K	1,500		
	70° Medium wide flood	4,000K	2,500		
	80° Medium wide flood				

SPECIFICATIONS:

Construction:

- LED decorative module (RGBA).
- External cover in PMMA.
- Internal frame in extruded aluminum.
- Shield in extra-clear transparent or prismatic tempered glass.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

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

Fixing:

- Fixing by two headless screws M8 lock nuts with stainless steel.

Finish:

- RAL: 9006
- Information about paint steps used on this product in specific technical sheet.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 12.6 W to 24.0 W.
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F / +95°F.
- Standard surge protection for differential/common mode 10kV/10kV.

Optical features:

- Lumen output: from 1,500 to 2,500 lm.
- Color temperature: 2,700K to 4,000K.
- Color Rendering Index: CRI > 80
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).
- LED type: COB CREE CMU 2287, Nebula PR (estimated life 75,000 h L80 - Tq=122°F).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NERI

NEBULA V - ST

Prismatic flat glass - High Power LED

2,700K

lm tot	W tot	lm/W
1,000	12,5	80
1,500	18,7	80

3,000K

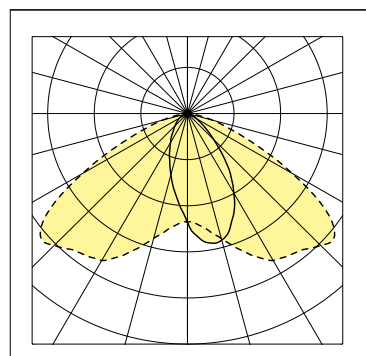
lm tot	W tot	lm/W
1,000	11,6	86
1,500	17,4	86

4,000K

lm tot	W tot	lm/W
1,000	10,3	97
1,500	15,5	97

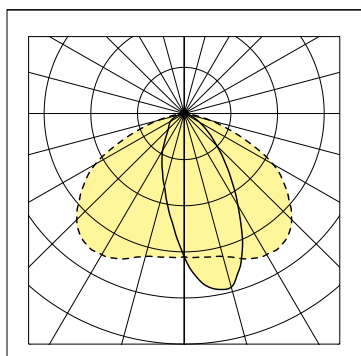
Type I

Prismatic flat glass



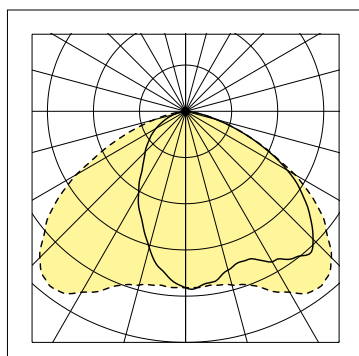
Type II

Prismatic flat glass



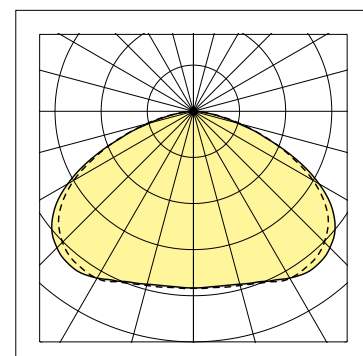
Type IV

Prismatic flat glass



Type V

Prismatic flat glass



LOR 100%

Full Cutoff



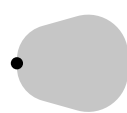
LOR 100%

Full Cutoff



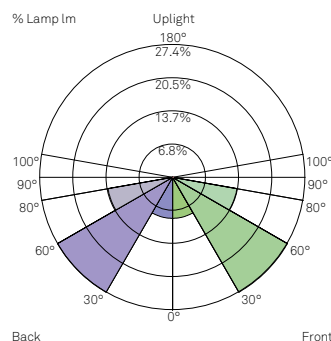
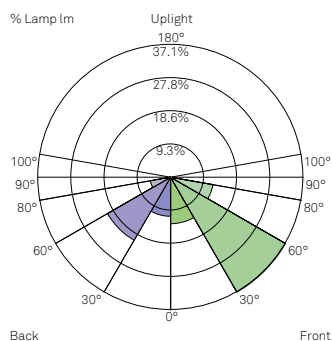
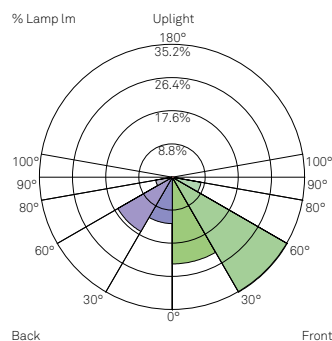
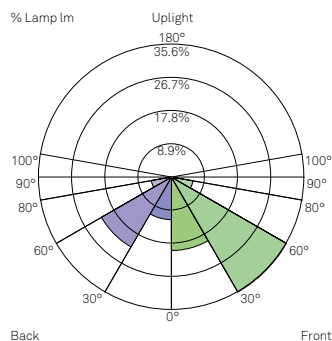
LOR 100%

Full Cutoff



LOR 100%

Full Cutoff



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	19.7	19.7
FM	30° - 60°	35.6	35.6
FH	60° - 80°	5.9	5.9
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	11.4	11.4
BM	30° - 60°	21.6	21.6
BH	60° - 80°	5.4	5.4
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,500lm - BUG: B1 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	23.0	23.0
FM	30° - 60°	35.2	35.2
FH	60° - 80°	7.8	7.8
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	12.3	12.3
BM	30° - 60°	16.7	16.7
BH	60° - 80°	4.5	4.5
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,500lm - BUG: B1 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	13.0	13.0
FM	30° - 60°	37.1	37.1
FH	60° - 80°	12.1	12.1
FVH	80° - 90°	0.5	0.5
BL	0° - 30°	11.0	11.0
BM	30° - 60°	20.4	20.4
BH	60° - 80°	5.7	5.7
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,500lm - BUG: B1 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	8.5	8.5
FM	30° - 60°	27.4	27.4
FH	60° - 80°	13.5	13.5
FVH	80° - 90°	0.6	0.6
BL	0° - 30°	8.5	8.5
BM	30° - 60°	27.4	27.4
BH	60° - 80°	13.5	13.5
BVH	80° - 90°	0.6	0.6
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,500lm - BUG: B1 U0 G0

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NERI

NEBULA V - PR

Transparent flat glass - COB LED

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	11/2023

2,700K

lm tot	W tot	lm/W
1,000	9,7	103
1,500	13,5	111
2,500	21,0	119

3,000K

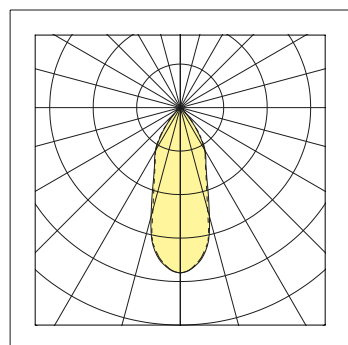
lm tot	W tot	lm/W
1,000	9,3	108
1,500	12,9	116
2,500	20,0	125

4,000K

lm tot	W tot	lm/W
1,000	9,0	111
1,500	12,6	119
2,500	19,4	129

30° Medium narrow spot

Transparent flat glass

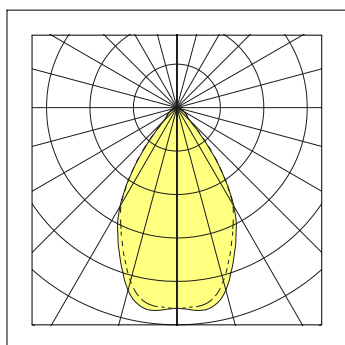


LOR 100%
Full Cutoff
NEMA class 5x5



60° Medium flood

Transparent flat glass

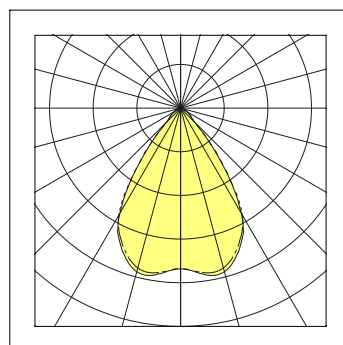


LOR 100%
Full Cutoff
NEMA class 5x5



70° Medium wide flood

Transparent flat glass

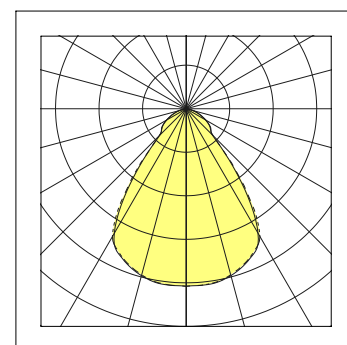


LOR 100%
Full Cutoff
NEMA class 5x5

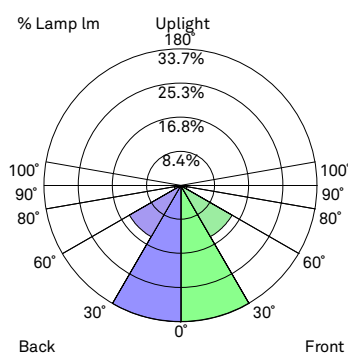


80° Medium wide flood

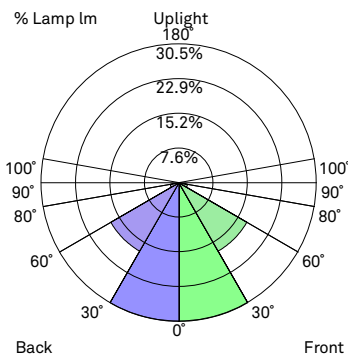
Transparent flat glass



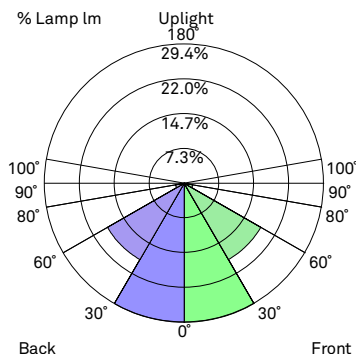
LOR 100%
Full Cutoff
NEMA class 7x7



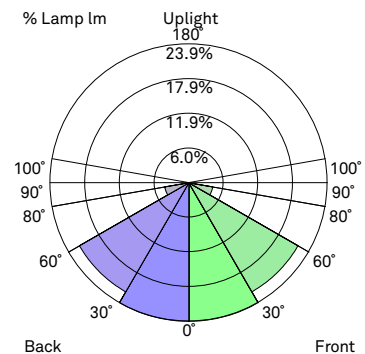
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	33.7	33.7
FM	30° - 60°	14.6	14.6
FH	60° - 80°	1.6	1.6
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	33.7	33.7
BM	30° - 60°	14.6	14.6
BH	60° - 80°	1.6	1.6
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	30.5	30.5
FM	30° - 60°	17.4	17.4
FH	60° - 80°	1.9	1.9
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	30.5	30.5
BM	30° - 60°	17.4	17.4
BH	60° - 80°	1.9	1.9
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	29.4	29.4
FM	30° - 60°	18.6	18.6
FH	60° - 80°	1.8	1.8
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	29.4	29.4
BM	30° - 60°	18.6	18.6
BH	60° - 80°	1.8	1.8
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	23.9	23.9
FM	30° - 60°	21.7	21.7
FH	60° - 80°	4.2	4.2
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	23.9	23.9
BM	30° - 60°	21.7	21.7
BH	60° - 80°	4.2	4.2
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			