NERI

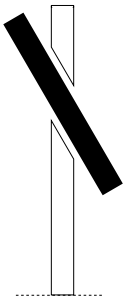
Nebula Collection

INDEX

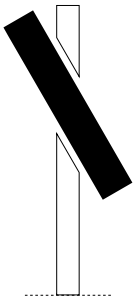
NERI

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

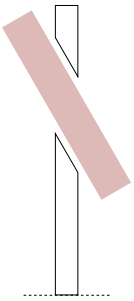
1. Luminaire head types
Select luminaire size and decide how many you need for your scheme. Three luminaire head types are available: Nebula Small (S), Nebula Large (L) and Nebula Venezia (V).



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

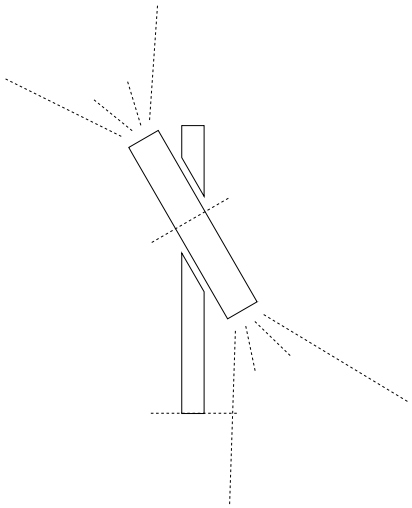


Nebula Large
luminaire head
h 3' 0", Ø 6"

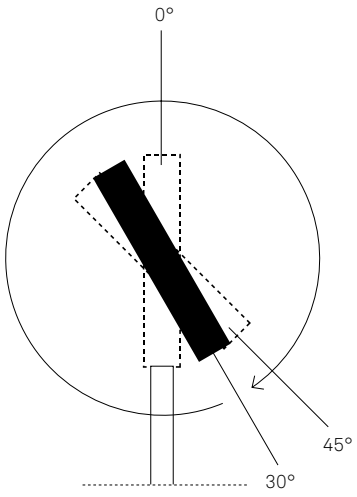


Nebula Venezia
luminaire head
decorative,
transparent rose tint
h 3' 0", Ø 6"

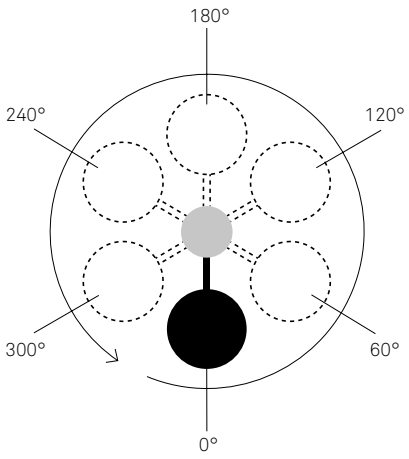
Nebula luminaire heads are composed of two light sources. They can be controlled together or separately. Symmetric and asymmetric distributions as well as beam angles from very narrow (10°) to wide (80°), color temperatures from 2,700K to 4,000K, including Amber and RGBW, are only some of the options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



Front view



Plan view

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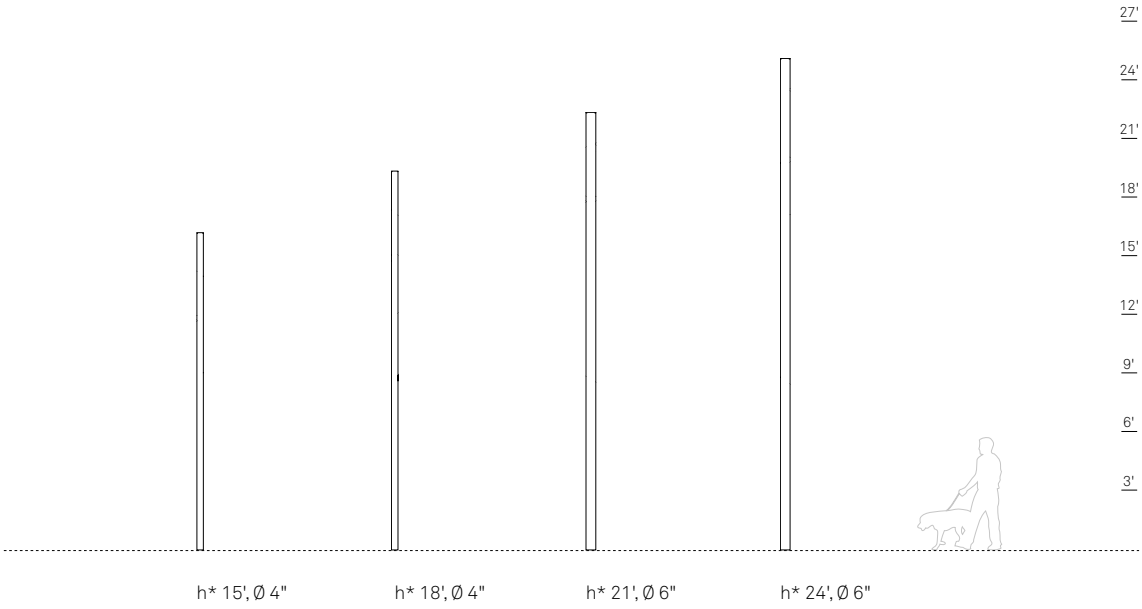
3. Pole height and diameter
Choose between four standard pole heights and two pole diameters.

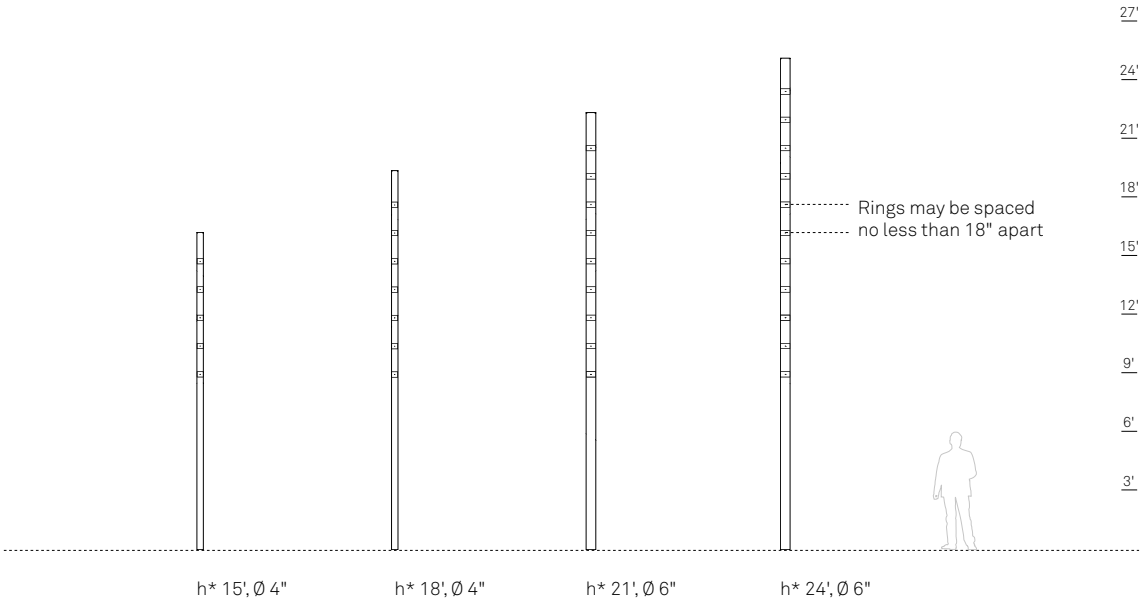
* Mounting height of highest luminaire head.



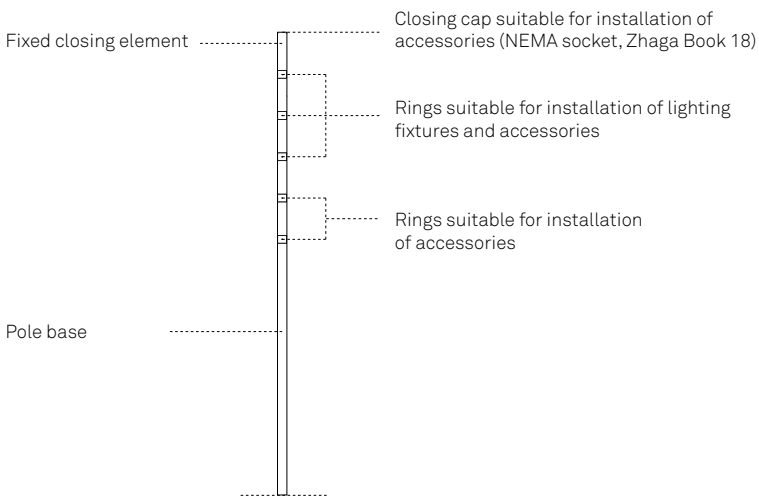
4. Rings
Different heights can accomodate a different number of rings. Rings are the mounting devices designed to hold luminaires or accessories part of the system.

The diagram on the right shows the maximum number of rings per pole. Each ring can accomodate 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 accesories. The rings above these may be used for luminaire heads or accessories.



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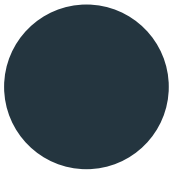
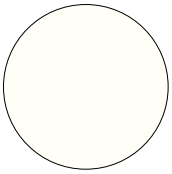
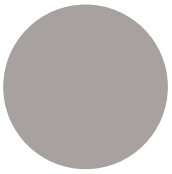
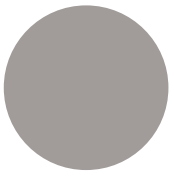
5. Color
Standard finish for the system is Neri grey.
Other system finishes available are:
pure white, white aluminum, grey aluminum, jet black, moss green.

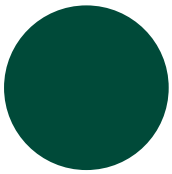

Neri grey


Pure White
RAL 9010

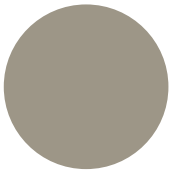

White Aluminum
RAL 9006


Grey Aluminum
RAL 9007


Jet Black
RAL 9005

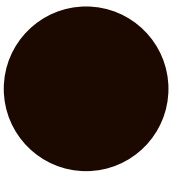

Moss Green
RAL 6005

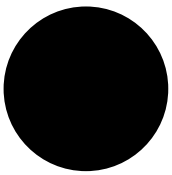
Additional finishes are available for luminaire heads: silver, gold, bronze, brown and black anodizing.


Silver
Anodizing


Gold
Anodizing


Bronze
Anodizing


Brown
Anodizing


Black
Anodizing

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Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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.

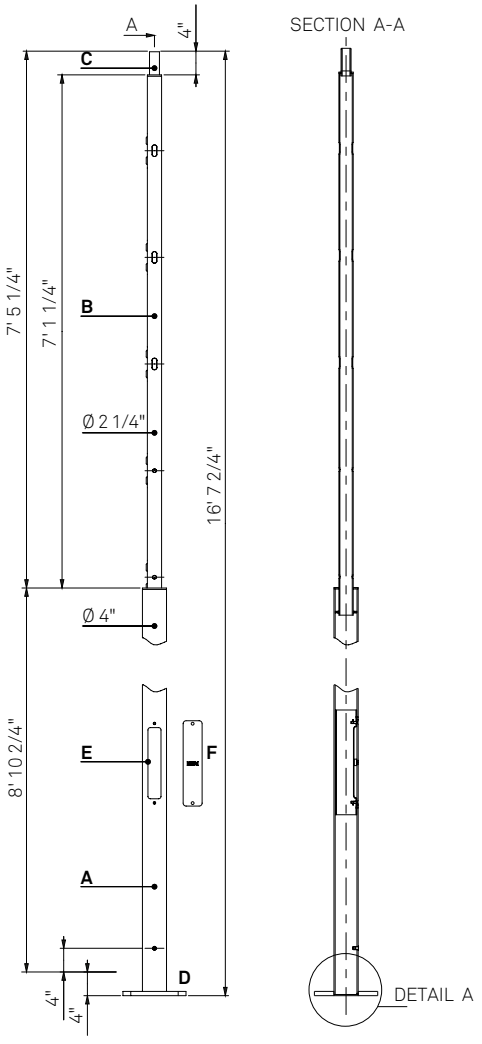
Mounting
- Square Flange (D) 10 2/4" x 10 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

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

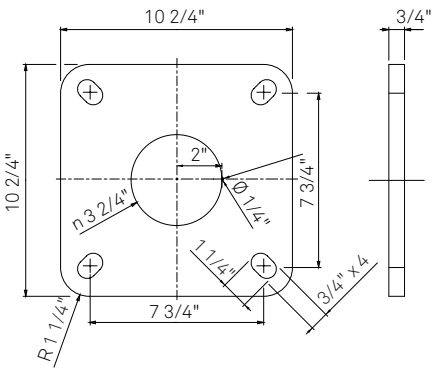
Painting
Powder coating:
- neri grey
- pure white
- white aluminum
- grey aluminum
- jet black
- moss green

Accessories (on demand)
- Flange cover.
- IP54 kit for hand hole.

DRAWINGS



DETAIL A - FLANGE PLAN



NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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.

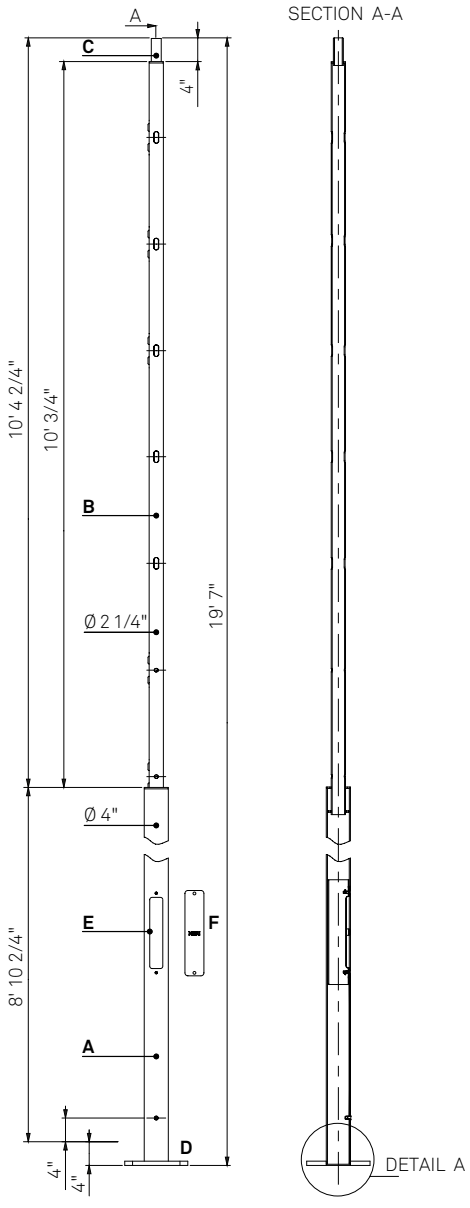
Mounting
- Square Flange (D) 10 2/4"x 10 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

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

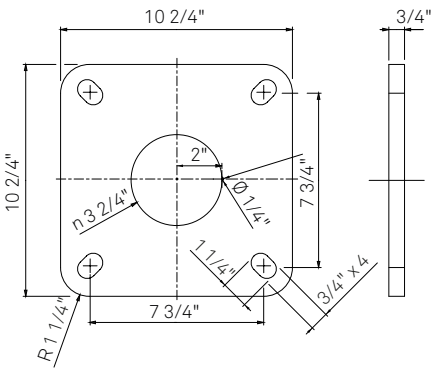
Painting
Powder coating:
- neri grey
- pure white
- white aluminum
- grey aluminum
- jet black
- moss green

Accessories (on demand)
- Flange cover.
- IP54 kit for hand hole.

DRAWINGS



DETAIL A - FLANGE PLAN



NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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.

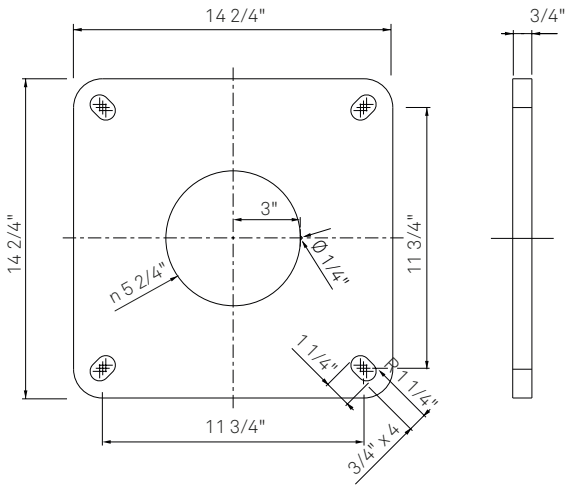
Mounting
- Square Flange (D) 14 2/4" x 14 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

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

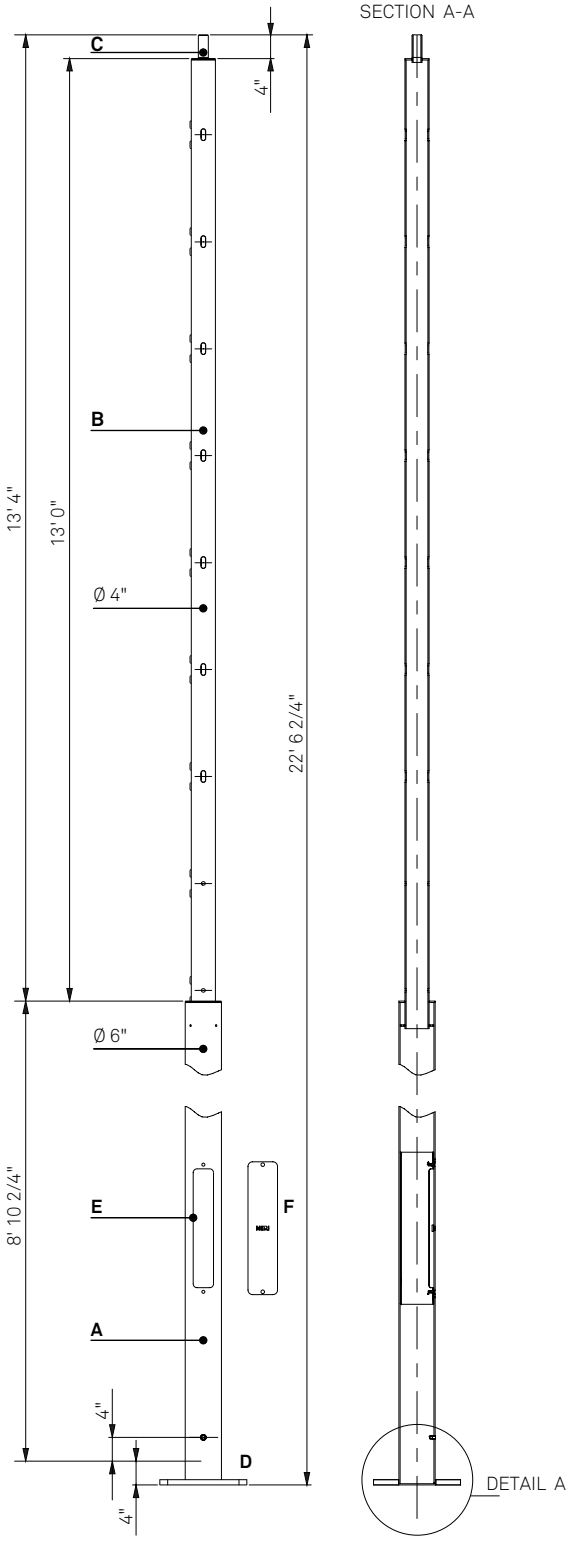
Painting
Powder coating:
- neri grey
- pure white
- white aluminum
- grey aluminum
- jet black
- moss green

Accessories (on demand)
- Flange cover.
- IP54 kit for hand hole.

DETAIL A - FLANGE PLAN



DRAWINGS



NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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.

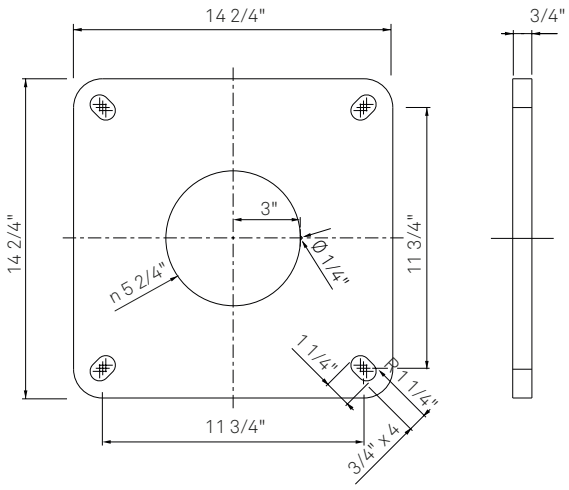
Mounting
- Square Flange (D) 14 2/4" x 14 2/4" (thickness 3/4"), for mounting with 4 anchors bolts to the foundation plinth (anchors and bolts are not supplied).
- We recommend mounting with hidden flange, positioned 4" below the final pavement level.

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

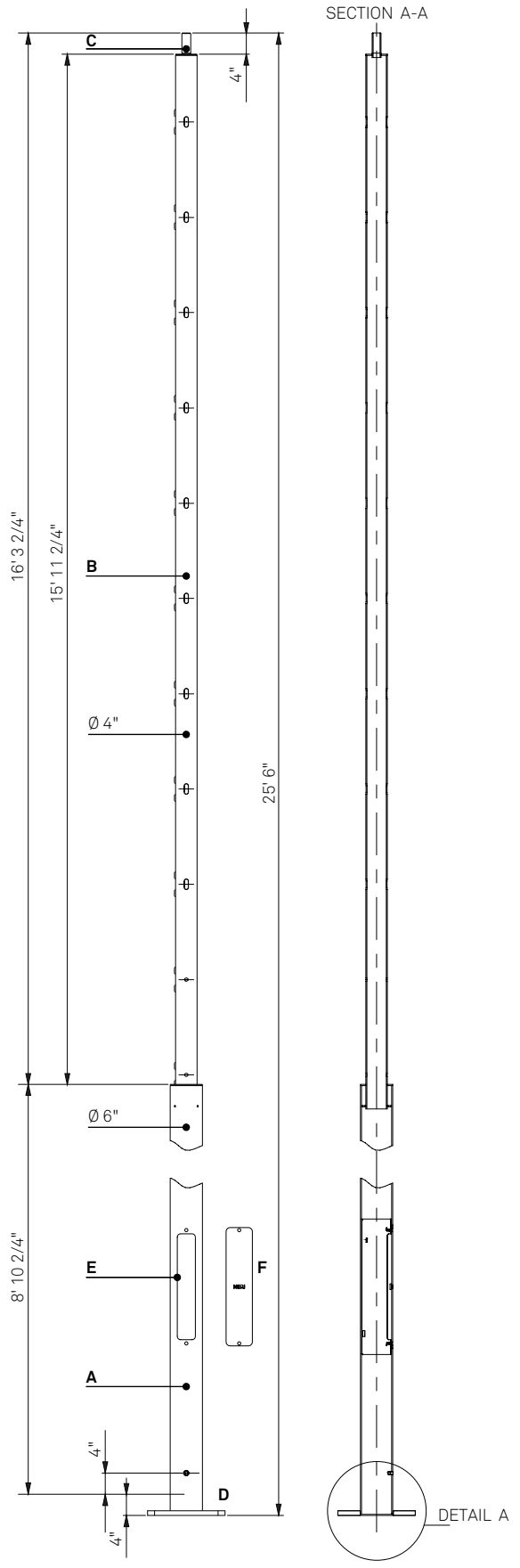
Painting
Powder coating:
- neri grey
- pure white
- white aluminum
- grey aluminum
- jet black
- moss green

Accessories (on demand)
- Flange cover.
- IP54 kit for hand hole.

DETAIL A - FLANGE PLAN



DRAWINGS



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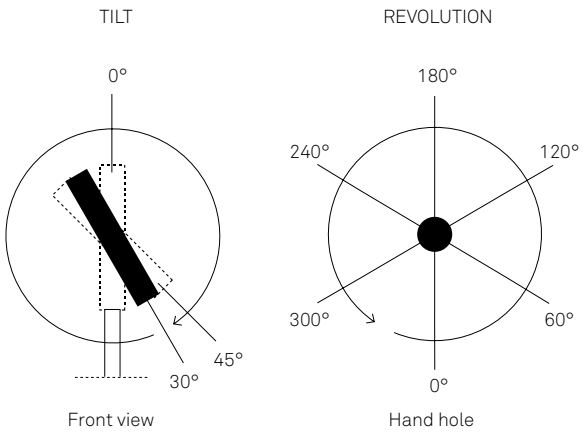
LAMP POST CONFIGURATION EXAMPLE

POLE COLOR NERI GREY

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



Front view

Hand hole

ACCESSORIES

PLANTER = PT
BANNER HOLDER = BN

NERI

LAMP POST CONFIGURATION

POLE COLOR _____

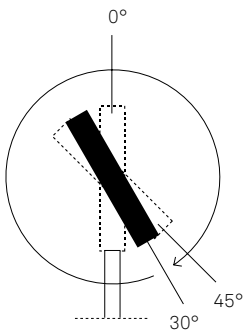
accessories	luminaire	tilt	revolution	left		right	revolution	tilt	luminaire	accessories
					5					
					4					
					3					
					2					
					1					

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

ACCESSORIES

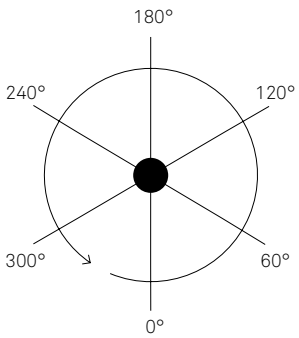
PLANTER = PT
BANNER HOLDER = BN

TILT



Front view

REVOLUTION



Hand hole

NERI

LAMP POST CONFIGURATION

POLE COLOR _____

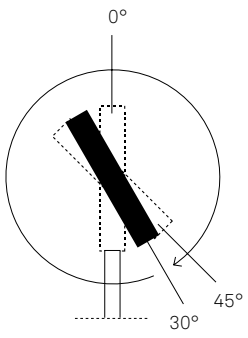
accessories	luminaire	tilt	revolution	left		right	revolution	tilt	luminaire	accessories
					7					
					6					
					5					
					4					
					3					
					2					
					1					

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

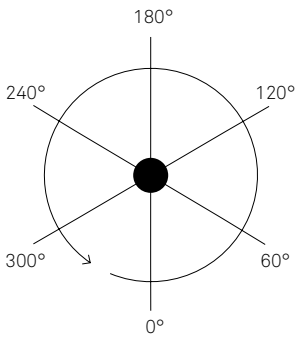
PLANTER = PT
BANNER HOLDER = BN

TILT



Front view

REVOLUTION



Hand hole

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LAMP POST CONFIGURATION

POLE COLOR _____

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

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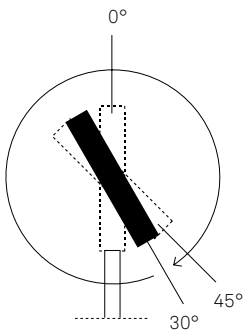
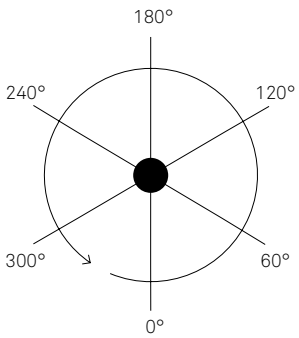
BANNER HOLDER = BN

TILT



Front view

REVOLUTION



Hand hole

NERI

LAMP POST CONFIGURATION

POLE COLOR _____

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

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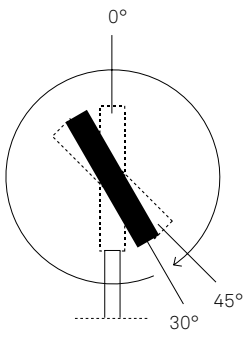
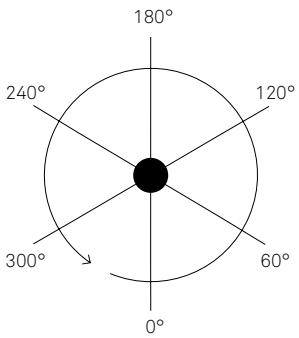
BANNER HOLDER = BN

TILT



Front view

REVOLUTION



Hand hole

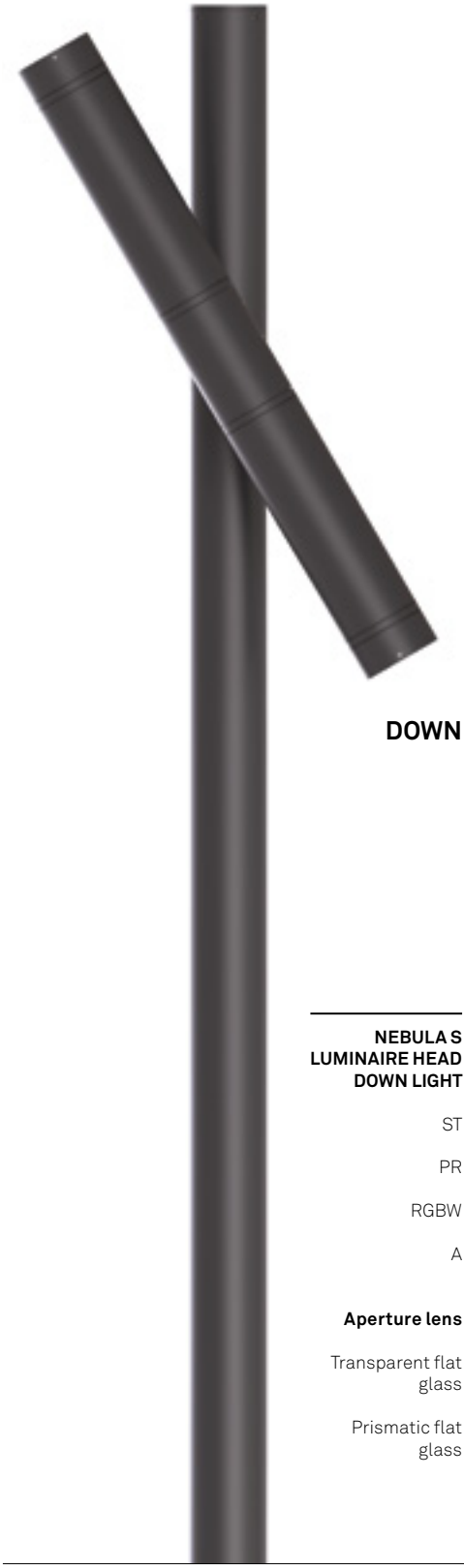
NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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

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



DOWN

NEBULA S
LUMINAIRE HEAD
DOWN LIGHT

ST

PR

RGBW

A

Aperture lens

Transparent flat glass

Prismatic flat glass

☐ **NEBULA S - EMPTY**

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Prismatic flat glass
☐ Type V	☐ 3,000K		☐ DALI	
	☐ 3,500K			
	☐ 4,000K			

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 30° Medium narrow spot	☐ 2,700K	☐ 1,500	☐ 1-10V	☐ Transparent flat glass
☐ 60° Medium flood	☐ 3,000K	☐ 2,500	☐ 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	Lumen output	Driver function	Aperture lens
☐ 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	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	☐ 350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V			☐ DALI	

☐ **NEBULA S - SNOOT**

☐ snoot 30°
☐ snoot 45°

☐ **NEBULA S - COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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
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

Aperture lens

Transparent flat glass

Prismatic flat glass

☐ **NEBULA S - EMPTY**

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Prismatic flat glass
☐ Type V	☐ 3,000K		☐ DALI	
	☐ 3,500K			
	☐ 4,000K			

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 30° Medium narrow spot	☐ 2,700K	☐ 1,500	☐ 1-10V	☐ Transparent flat glass
☐ 60° Medium flood	☐ 3,000K	☐ 2,500	☐ 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	Lumen output	Driver function	Aperture lens
☐ 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	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	☐ 350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V			☐ DALI	

☐ **NEBULA S - SNOOT**

☐ snoot 30°

☐ snoot 45°

☐ **NEBULA S - COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

NERI

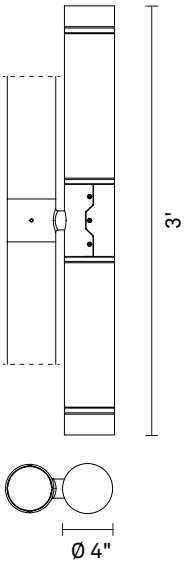
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	02/2020

Nebula S

Source	LED
Weight	17,5lb
Height	3' 0"
Diameter	4"
EPA	-

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



c UL us
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	2,700K	350	1-10V	Prismatic flat glass
	Type V	3,000K	500	DALI	Transparent flat glass
	15° Very narrow spot	3,500K	1,000	DMX	
	25° Narrow spot	4,000K	1,500		
	30° Medium narrow spot	RGBW	2,500		
	35° Medium narrow spot	Amber			
	60° Medium flood				
	70° Medium wide flood				
	80° Medium wide flood				
Down	Type II	2,700K	350	1-10V	Prismatic flat glass
	Type V	3,000K	500	DALI	Transparent flat glass
	15° Very narrow spot	3,500K	1,000	DMX	
	25° Narrow spot	4,000K	1,500		
	30° Medium narrow spot	RGBW	2,500		
	35° Medium narrow spot	Amber			
	60° Medium flood				
	70° Medium wide flood				
	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.
- Dedicated space for any surge protection devices or remote control systems.

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

Finish:
- Powder coating or anodizing.

Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
Anodizing:
silver anodizing, gold anodizing, bronze anodizing, brown anodizing, black anodizing.
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 ± 45°.

Operation 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.

TECHNICAL DATA:

Electrical and Optical features::
- Voltage: 120-277V (universal).
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F/+95°F.
- Lumen output: from 350 to 2,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- Electronic power supply with protection against short circuits, overheating and power surges.
- Standard surge protection for differential/common mode up to 10kV/10kV.

DRIVER FUNCTIONS:

Description
1-10 (Analogic control)
DALI (Digital control)
DMX

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2020

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

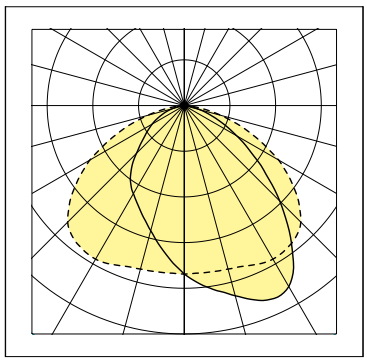
2,700K		
lm tot	**W tot**	**lm/W**
1,000	15.00	67

3,000K		
lm tot	**W tot**	**lm/W**
1,000	14.5	69

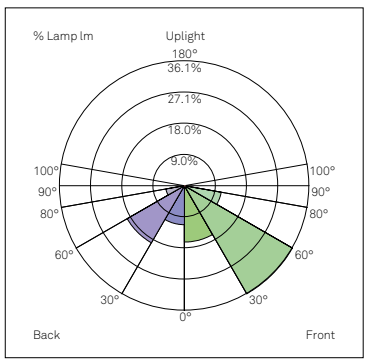
3,500K		
lm tot	**W tot**	**lm/W**
1,000	14.5	69

4,000K		
lm tot	**W tot**	**lm/W**
1,000	14.0	71

Type II
Prismatic flat glass



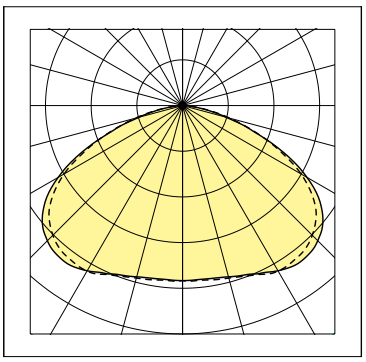
LOR 100%
Full Cutoff



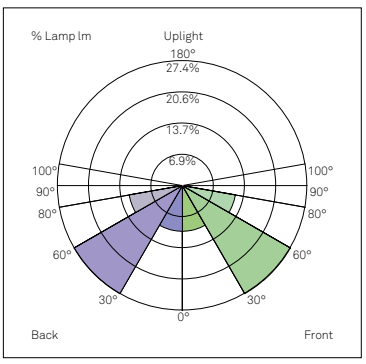
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	16.3	16.3
FM	30° - 60°	36.1	36.1
FH	60° - 80°	10.8	10.8
FVH	80° - 90°	0.7	0.7
BL	0° - 30°	11.3	11.3
BM	30° - 60°	19.1	19.1
BH	60° - 80°	5.4	5.4
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B1 U1 G0

Type V
Prismatic flat glass



LOR 100%
Full Cutoff



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

1,000lm - BUG: B1 U1 G0

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2020

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

2,700K

lm tot	W tot	lm/W
1,500	14.1	106
2,500	24.2	103

3,000K

lm tot	W tot	lm/W
1,500	14.0	107
2,500	23.9	105

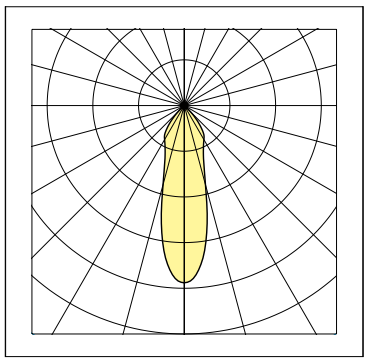
3,500K

lm tot	W tot	lm/W
1,500	13.3	113
2,500	22.8	110

4,000K

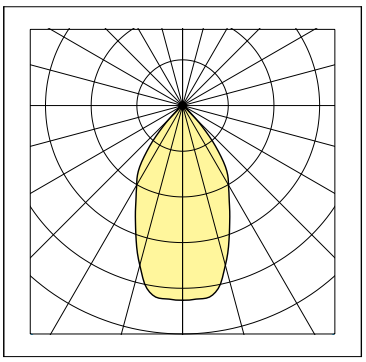
lm tot	W tot	lm/W
1,500	12.7	119
2,500	21.8	115

30° Medium narrow spot
Transparent flat glass



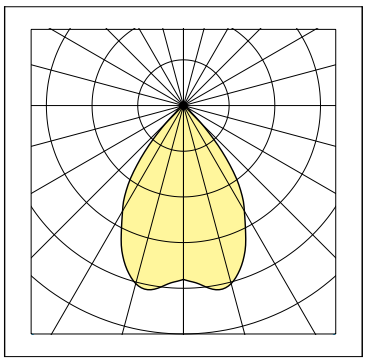
LOR 100%
Full Cutoff
NEMA class 5x5

60° Medium flood
Transparent flat glass



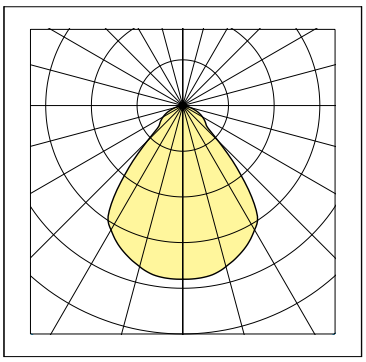
LOR 100%
Full Cutoff
NEMA class 5x5

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

Light Beam Table - 30°, 1,500 lm

h (ft)	Eav (fc)	D (ft)
12	13	6.07
16	7	8.10
20	5	10.12

Light Beam Table - 60°, 1,500 lm

h (ft)	Eav (fc)	D (ft)
12	6	12.97
16	3	17.30
20	2	21.62

Light Beam Table - 70°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	4	17.08
16	2	22.74
20	1	28.43

Light Beam Table - 80°, 1,500 lm

h (ft)	Eav (fc)	D (ft)
12	3	20.42
16	1	27.23
20	1	34.04

Light Beam Table - 30°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	21	6.07
16	18	8.10
20	8	10.12

Light Beam Table - 60°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	10	12.97
16	6	17.30
20	4	21.62

Light Beam Table - 70°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	7	17.06
16	4	22.74
20	2	28.43

Light Beam Table - 80°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	4	20.42
16	2	27.23
20	2	34.04

NERI

Project location:	
Project name:	
Model code #:	Date

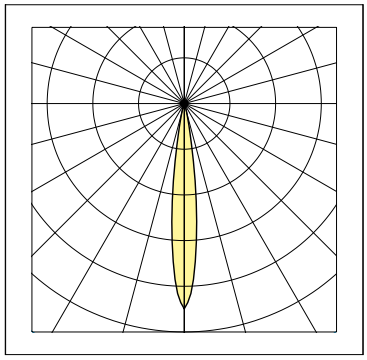
Fixture type:	
Rev.01	03/2020

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

RGBW

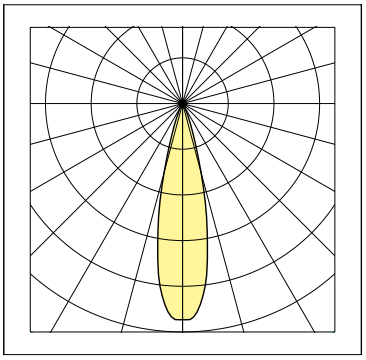
Color	lm	λ (nm)
Red	333 (R)	623
Green	289 (G)	517
Blu	89 (B)	455
White	500 (W)	-

15° Very narrow spot
Transparent flat glass



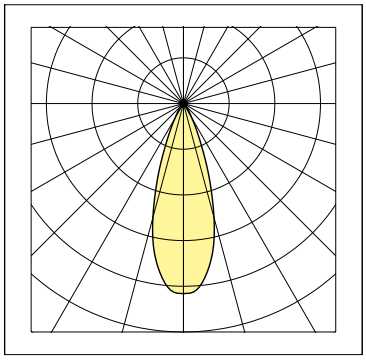
LOR 100%
Full Cutoff
NEMA class 2x2

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:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

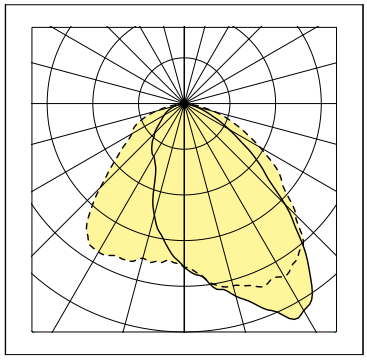
NEBULA S - A
Prismatic flat glass - High Power LED
(Single Lens, PMMA).

Amber

Color	lm	λ (nm)
Amber	350	598

Type II

Prismatic flat glass

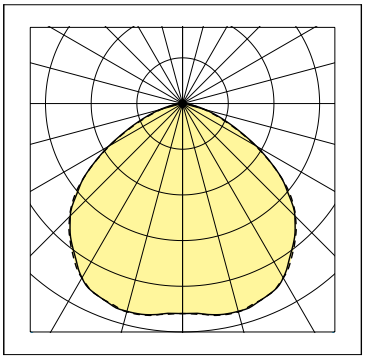


LOR 100%

Full Cutoff

Type V

Prismatic flat glass



LOR 100%

Full Cutoff

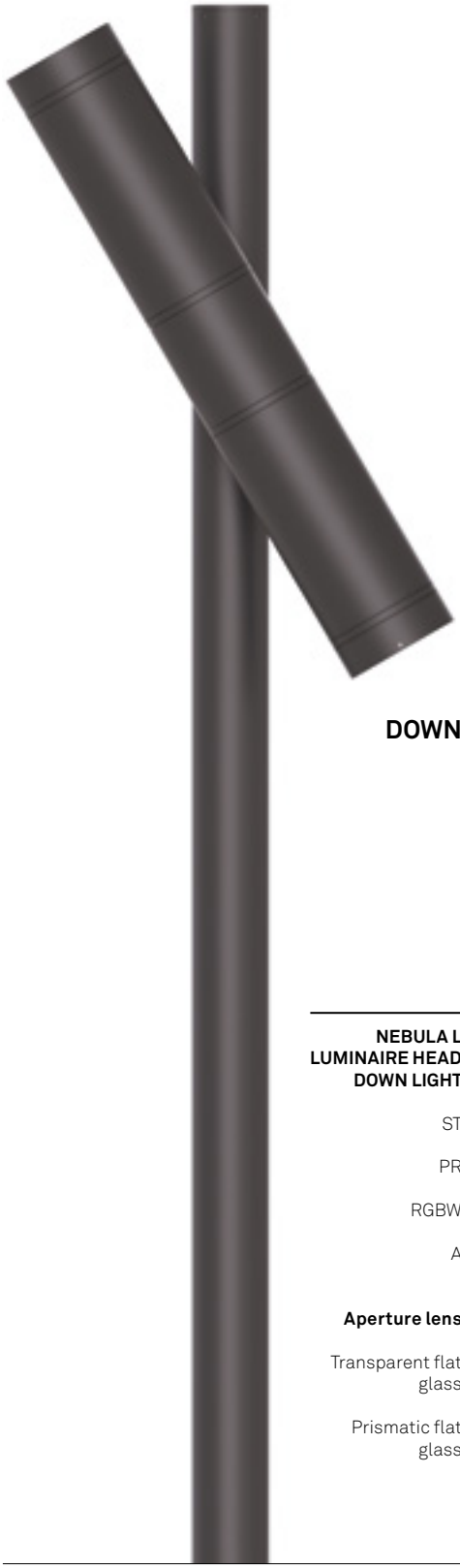
NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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 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

Aperture lens

Transparent flat glass

Prismatic flat glass

☐ **NEBULA L - EMPTY**

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ 2,700K	☐ 2,500	☐ 1-10V	☐ Prismatic flat glass
☐ Type IV	☐ 3,000K	☐ 3,500	☐ DALI	
☐ Type V	☐ 3,500K	☐ 4,500		
	☐ 4,000K			

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 10° Very narrow spot	☐ 2,700K	☐ 2,500	☐ 1-10V	☐ Transparent flat glass
☐ 20° Narrow spot	☐ 3,000K	☐ 3,500	☐ DALI	
☐ 35° Medium narrow spot	☐ 3,500K	☐ 4,500		
☐ 70° Medium wide flood	☐ 4,000K			

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 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	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	☐ 700 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V			☐ DALI	

☐ **NEBULA L - SNOOT**

☐ snoot 30°
☐ snoot 45°

☐ **NEBULA L - COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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 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

Aperture lens

Transparent flat glass

Prismatic flat glass

☐ **NEBULA L - EMPTY**

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ 2,700K	☐ 2,500	☐ 1-10V	☐ Prismatic flat glass
☐ Type IV	☐ 3,000K	☐ 3,500	☐ DALI	
☐ Type V	☐ 3,500K	☐ 4,500		
	☐ 4,000K			

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 10° Very narrow spot	☐ 2,700K	☐ 2,500	☐ 1-10V	☐ Transparent flat glass
☐ 20° Narrow spot	☐ 3,000K	☐ 3,500	☐ DALI	
☐ 35° Medium narrow spot	☐ 3,500K	☐ 4,500		
☐ 70° Medium wide flood	☐ 4,000K			

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 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	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	☐ 700 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V			☐ DALI	

☐ **NEBULA L - SNOOT**

☐ snoot 30°

☐ snoot 45°

☐ **NEBULA L - COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

NERI

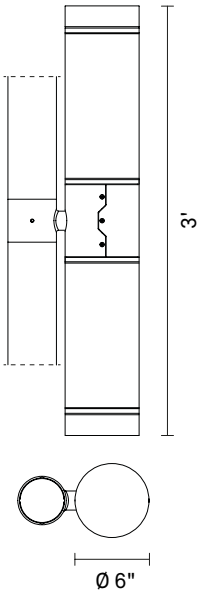
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	02/2020

Nebula L

Source	LED
Weight	26,4lb
Height	3' 0"
Diameter	6"
EPA	-

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



c UL us

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	2,700K	700	1-10V	Prismatic flat glass
	Type IV	3,000K	1,000	DALI	Transparent flat glass
	Type V	3,500K	2,500	DMX	
	10° Very narrow spot	4,000K	3,500		
	15° Very narrow spot	RGBW	4,500		
	20° Narrow spot	Amber			
	25° Narrow spot				
	35° Medium narrow spot				
	70° Medium wide flood				
Down	Type II	2,700K	700	1-10V	Prismatic flat glass
	Type IV	3,000K	1,000	DALI	Transparent flat glass
	Type V	3,500K	2,500	DMX	
	10° Very narrow spot	4,000K	3,500		
	15° Very narrow spot	RGBW	4,500		
	20° Narrow spot	Amber			
	25° Narrow spot				
	35° Medium narrow spot				
	70° 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.
- Dedicated space for any surge protection devices or remote control systems.

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

Finish:
- Powder coating or anodizing.

Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
Anodizing:
silver anodizing, gold anodizing, bronze anodizing, brown anodizing, black anodizing.
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 ± 45°.

Operation 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.

TECHNICAL DATA:

Electrical and Optical features::
- Voltage: 120-277V (universal).
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F/+95°F.
- Lumen output: from 700 to 4,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- Electronic power supply with protection against short circuits, overheating and power surges.
- Standard surge protection for differential/common mode up to 10kV/10kV.

DRIVER FUNCTIONS:

Description
1-10 (Analogic control)
DALI (Digital control)
DMX

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2020

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

2,700K

lm tot	W tot	lm/W
2,500	25.2	99
3,500	36.1	97
4,500	47.1	96

3,000K

lm tot	W tot	lm/W
2,500	24.6	101
3,500	35.1	100
4,500	45.8	98

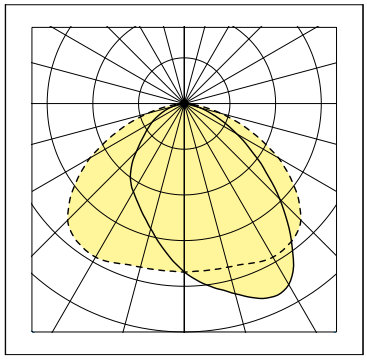
3,500K

lm tot	W tot	lm/W
2,500	25.5	98
3,500	33.8	103
4,500	44.3	101

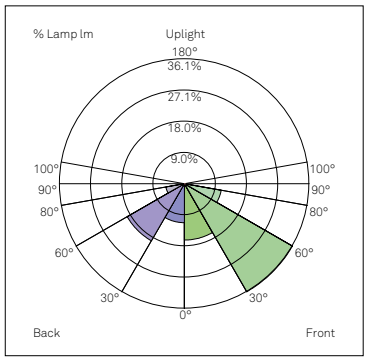
4,000K

lm tot	W tot	lm/W
2,500	22.8	110
3,500	32.4	108
4,500	42.7	105

Type II
Prismatic flat glass



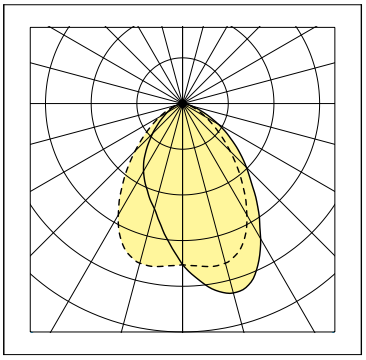
LOR 100%
Full Cutoff



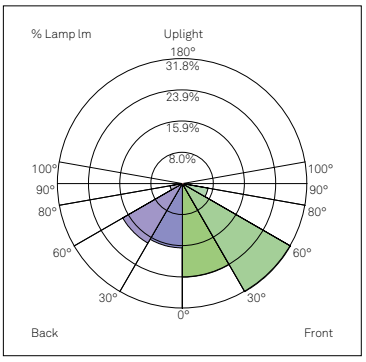
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	16.3	16.3
FM	30° - 60°	36.1	36.1
FH	60° - 80°	10.8	10.8
FVH	80° - 90°	0.7	0.7
BL	0° - 30°	11.3	11.3
BM	30° - 60°	19.1	19.1
BH	60° - 80°	5.4	5.4
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

2,500lm - BUG: B1 U1 G1
3,500lm - BUG: B1 U1 G1
4,500lm - BUG: B2 U1 G1

Type IV
Prismatic flat glass



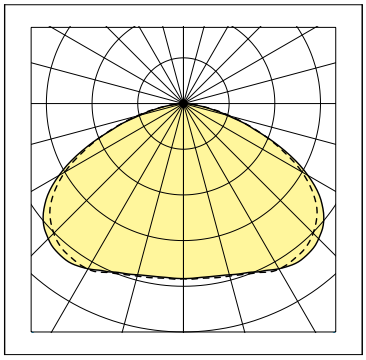
LOR 100%
Full Cutoff



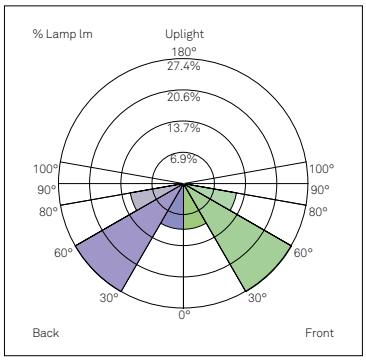
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	23.9	23.9
FM	30° - 60°	31.8	31.8
FH	60° - 80°	6.7	6.7
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	16.4	16.4
BM	30° - 60°	17.5	17.5
BH	60° - 80°	3.2	3.2
BVH	80° - 90°	0.2	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

2,500lm - BUG: B1 U0 G0
3,500lm - BUG: B2 U1 G1
4,500lm - BUG: B2 U1 G1

Type V
Prismatic flat glass



LOR 100%
Full Cutoff



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

2,500lm - BUG: B1 U1 G1
3,500lm - BUG: B1 U1 G1
4,500lm - BUG: B2 U1 G1

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2020

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

2,700K

lm tot	W tot	lm/W
2,500	25.1	100
3,500	36.2	97
4,500	47.7	94

3,000K

lm tot	W tot	lm/W
2,500	24.8	101
3,500	36.2	99
4,500	46.2	97

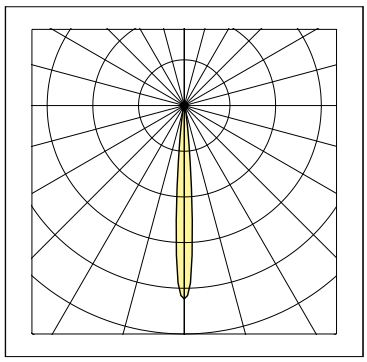
3,500K

lm tot	W tot	lm/W
2,500	23.7	105
3,500	34.4	102
4,500	44.6	101

4,000K

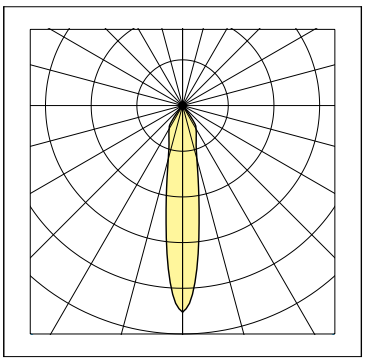
lm tot	W tot	lm/W
2,500	22.6	111
3,500	32.5	108
4,500	43.0	105

10° Very narrow spot
Transparent flat glass



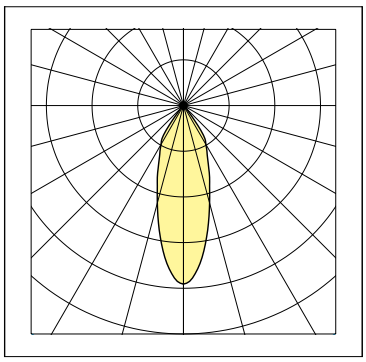
LOR 100%
Full Cutoff
NEMA class 2x2

20° Narrow spot
Transparent flat glass



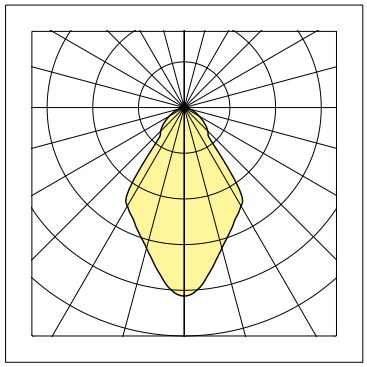
LOR 100%
Full Cutoff
NEMA class 4x4

35° Medium narrow spot
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 5x5

70° Medium wide flood
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 6x6

Light Beam Table - 10°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	196	1.91
16	110	2.55
20	70	3.19

Light Beam Table - 20°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	39	3.88
16	22	5.17
20	14	6.47

Light Beam Table - 35°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	20	7.37
16	11	9.82
20	7	12.28

Light Beam Table - 70°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	6	16.43
16	3	21.90
20	2	27.38

Light Beam Table - 10°, 3,500 lm

h (ft)	Eav (fc)	D (ft)
12	274	1.91
16	154	2.55
20	99	3.19

Light Beam Table - 20°, 3,500 lm

h (ft)	Eav (fc)	D (ft)
12	55	3.88
16	31	5.17
20	20	6.47

Light Beam Table - 35°, 3,500 lm

h (ft)	Eav (fc)	D (ft)
12	28	7.37
16	16	9.82
20	10	12.28

Light Beam Table - 70°, 3,500 lm

h (ft)	Eav (fc)	D (ft)
12	9	16.43
16	5	21.90
20	3	27.38

Light Beam Table - 10°, 4,500 lm

h (ft)	Eav (fc)	D (ft)
12	352	1.91
16	198	2.55
20	127	3.19

Light Beam Table - 20°, 4,500 lm

h (ft)	Eav (fc)	D (ft)
12	71	3.88
16	40	5.17
20	26	6.47

Light Beam Table - 35°, 4,500 lm

h (ft)	Eav (fc)	D (ft)
12	36	7.37
16	20	9.82
20	13	12.28

Light Beam Table - 70°, 4,500 lm

h (ft)	Eav (fc)	D (ft)
12	11	16.43
16	6	21.90
20	4	27.38

NERI

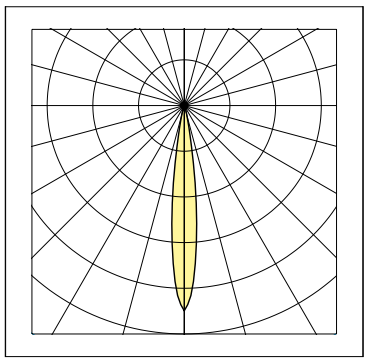
Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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

RGBW

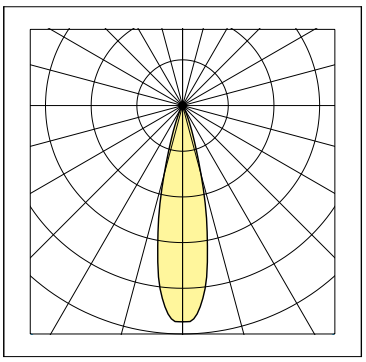
Color	lm	λ (nm)
Red	666 (R)	623
Green	578 (G)	517
Blu	178 (B)	455
White	1,000 (W)	-

15° Very narrow spot
Transparent flat glass



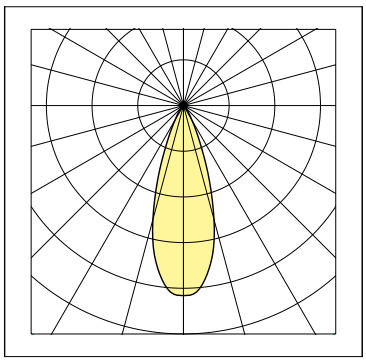
LOR 100%
Full Cutoff
NEMA class 2x2

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:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

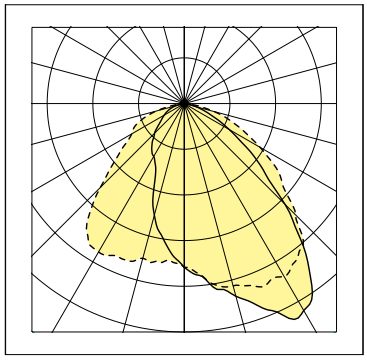
NEBULA L - A
Prismatic flat glass - High Power LED
(Single Lens, PMMA).

Amber

Color	lm	λ (nm)
Amber	700	598

Type II

Prismatic flat glass

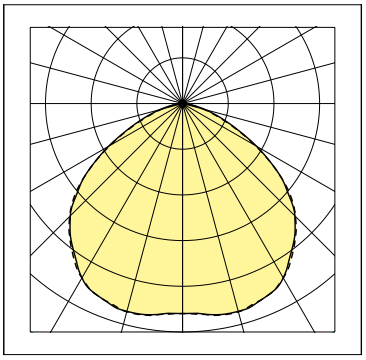


LOR 100%

Full Cutoff

Type V

Prismatic flat glass



LOR 100%

Full Cutoff

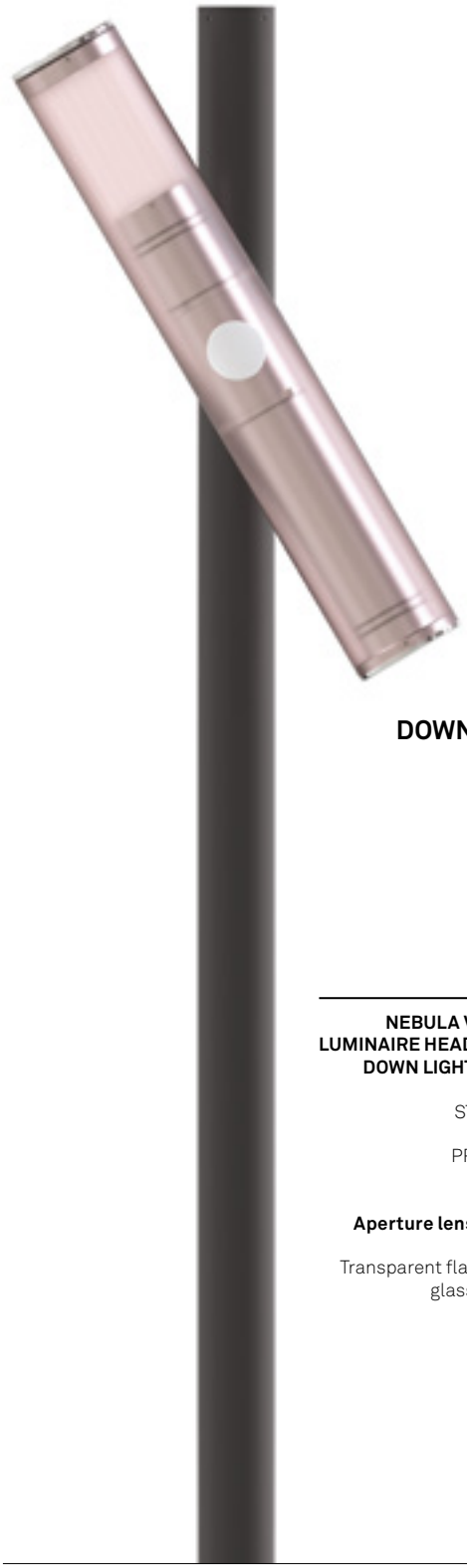
NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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

NEBULA V CONFIGURATION # _____
LUMINAIRE HEAD
DOWN LIGHT

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



DOWN

NEBULA V
LUMINAIRE HEAD
DOWN LIGHT

ST

PR

Aperture lens

Transparent flat glass

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Prismatic flat glass
☐ Type V	☐ 3,000K		☐ DALI	
	☐ 3,500K			
	☐ 4,000K			

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 30° Medium narrow spot	☐ 2,700K	☐ 1,500	☐ 1-10V	☐ Transparent flat glass
☐ 60° Medium flood	☐ 3,000K	☐ 2,500	☐ DALI	
☐ 70° Medium wide flood	☐ 3,500K			
☐ 80° Medium wide flood	☐ 4,000K			

NERI

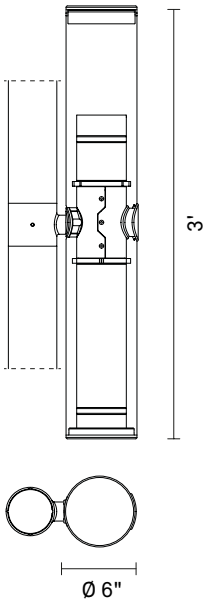
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	02/2020

Nebula V

Source	LED
Weight	19,84lb
Height	3' 0"
Diameter	6"
EPA	-

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



c UL us

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

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Up	Decorative Light				
Down	Type II	2,700K	1,000	1-10V	Prismatic flat glass
	Type V	3,000K	1,500	DALI	Transparent flat glass
	30° Medium narrow spot	3,500K	2,500		
	60° Medium flood	4,000K			
	70° Medium wide flood				
	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.
- Dedicated space for any surge protection devices or remote control systems.

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

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

Operation 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.

TECHNICAL DATA:

Electrical and Optical features::
- Voltage: 120-277V (universal).
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F/+95°F.
- Lumen output: from 1,500 to 2,500 lm.
- Color temperature: 2,700K to 4,000K
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- Electronic power supply with protection against short circuits, overheating and power surges.
- Standard surge protection for differential/common mode up to 10kV/10kV.

DRIVER FUNCTIONS:

Description
1-10 (Analogic control)
DALI (Digital control)

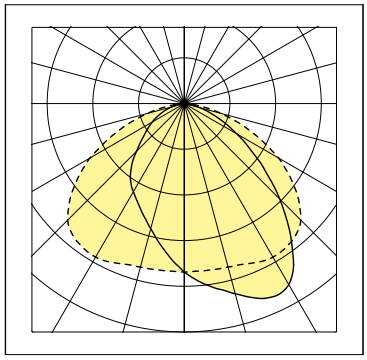
NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

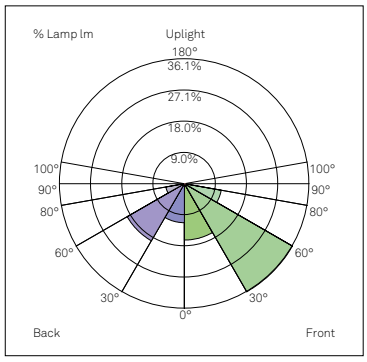
NEBULA V - ST
Prismatic flat glass - High Power LED
(Single Lens, PMMA).

2,700K			3,000K			3,500K			4,000K		
lm tot	**W tot**	**lm/W**	**lm tot**	**W tot**	**lm/W**	**lm tot**	**W tot**	**lm/W**	**lm tot**	**W tot**	**lm/W**
1,000	15.00	67	1,000	14.5	69	1,000	14.5	69	1,000	14.0	71

Type II
Prismatic flat glass



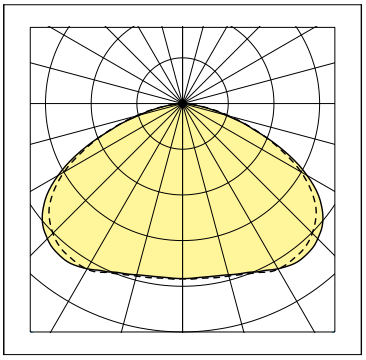
LOR 100%
Full Cutoff



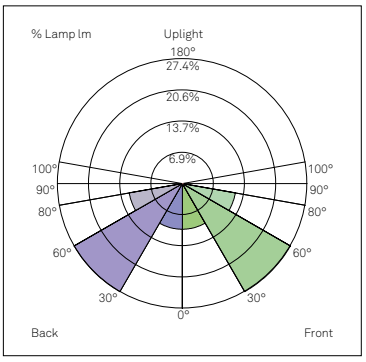
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	16.3	16.3
FM	30° - 60°	36.1	36.1
FH	60° - 80°	10.8	10.8
FVH	80° - 90°	0.7	0.7
BL	0° - 30°	11.3	11.3
BM	30° - 60°	19.1	19.1
BH	60° - 80°	5.4	5.4
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B1 U1 G0

Type V
Prismatic flat glass



LOR 100%
Full Cutoff



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

1,000lm - BUG: B1 U1 G0

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2020

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

2,700K

lm tot	W tot	lm/W
1,500	14.1	106
2,500	24.2	103

3,000K

lm tot	W tot	lm/W
1,500	14.0	107
2,500	23.9	105

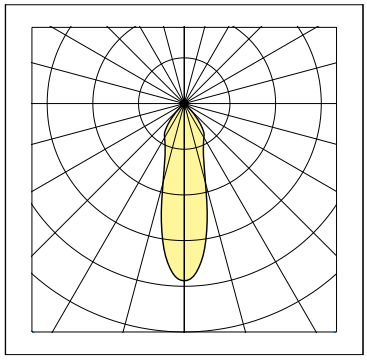
3,500K

lm tot	W tot	lm/W
1,500	13.3	113
2,500	22.8	110

4,000K

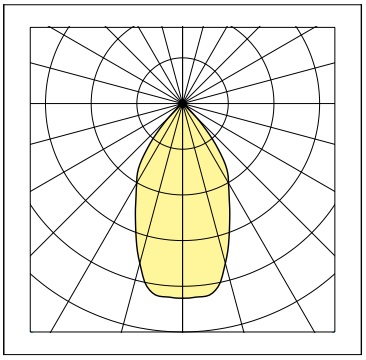
lm tot	W tot	lm/W
1,500	12.7	119
2,500	21.8	115

30° Medium narrow spot
Transparent flat glass



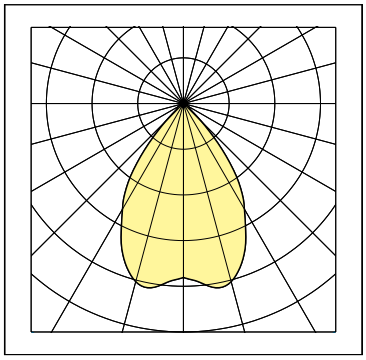
LOR 100%
Full Cutoff
NEMA class 5x5

60° Medium flood
Transparent flat glass



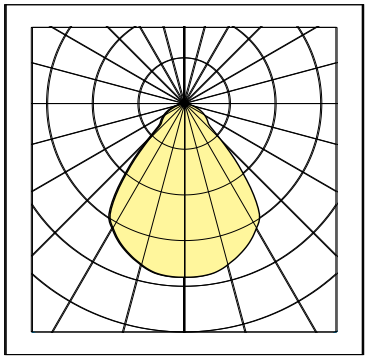
LOR 100%
Full Cutoff
NEMA class 5x5

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

Light Beam Table - 30°, 1,500 lm

h (ft)	Eav (fc)	D (ft)
12	13	6.07
16	7	8.10
20	5	10.12

Light Beam Table - 60°, 1,500 lm

h (ft)	Eav (fc)	D (ft)
12	6	12.97
16	3	17.30
20	2	21.62

Light Beam Table - 70°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	4	17.08
16	2	22.74
20	1	28.43

Light Beam Table - 80°, 1,500 lm

h (ft)	Eav (fc)	D (ft)
12	3	20.42
16	1	27.23
20	1	34.04

Light Beam Table - 30°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	21	6.07
16	18	8.10
20	8	10.12

Light Beam Table - 60°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	10	12.97
16	6	17.30
20	4	21.62

Light Beam Table - 70°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	7	17.06
16	4	22.74
20	2	28.43

Light Beam Table - 80°, 2,500 lm

h (ft)	Eav (fc)	D (ft)
12	4	20.42
16	2	27.23
20	2	34.04

NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

NEBULA BOLLARD (4")
Nebula Bollard luminaire head consists of two sources. Each source can be independently configured. The overview below lists available options.

NEBULA BOLLARD CONFIGURATION # _____
LUMINAIRE HEAD
DOWN LIGHT

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

☐ **NEBULA BOLLARD - EMPTY**

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Prismatic flat glass
☐ Type V	☐ 3,000K		☐ DALI	
	☐ 3,500K			
	☐ 4,000K			

☐ **NEBULA BOLLARD - LUMINAIRE HEAD** **COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

☐ **NEBULA BOLLARD - POLE** **COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

DOWN

NEBULA BOLLARD
LUMINAIRE HEAD
DOWN LIGHT

ST

Aperture lens

Prismatic flat glass

NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

NEBULA BOLLARD (4")
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
UP LIGHT

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

☐ **NEBULA BOLLARD - EMPTY**

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

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 30° Medium narrow spot	☐ 2,700K	☐ 1,500	☐ 1-10V	☐ Transparent flat glass
☐ 60° Medium flood	☐ 3,000K	☐ 2,500	☐ 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	Lumen output	Driver function	Aperture lens
☐ 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	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber + White	☐ 180 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V		☐ 800 lm (W)	☐ DALI	

UP

NEBULA BOLLARD
LUMINAIRE HEAD
UP LIGHT

PR

RGBW

A + W

Aperture lens

Transparent flat glass

Prismatic flat glass

☐ **NEBULA BOLLARD - LUMINAIRE HEAD** **COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

☐ **NEBULA BOLLARD - POLE** **COLOR**

Powder coating	Anodizing
☐ Neri grey	☐ Silver anodizing
☐ Pure white	☐ Gold anodizing
☐ White aluminum	☐ Bronze anodizing
☐ Grey aluminum	☐ Brown anodizing
☐ Jet black	☐ Black anodizing
☐ Moss green	

NERI

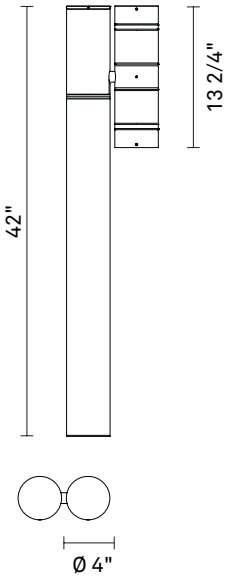
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	02/2020

Nebula Bollard

Source	LED
Weight	26,4lb
Height	42"
Diameter	4"
EPA	-

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



c UL us
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	2,700K	500	1-10V	Prismatic flat glass
	Type V	3,500K	800	DALI	Transparent flat glass
	15° Very narrow spot	4,000K	1,000	DMX	
	25° Narrow spot	RGBW	1,500		
	30° Medium narrow spot	Amber + White	2,500		
	35° Medium narrow spot				
	60° Medium flood				
	70° Medium wide flood				
	80° Medium wide flood				
Down	Type II	2,700K	500	1-10V	Prismatic flat glass
	Type V	3,500K	800	DALI	Transparent flat glass
	15° Very narrow spot	4,000K	1,000	DMX	
	25° Narrow spot	RGBW	1,500		
	30° Medium narrow spot	Amber + White	2,500		
	35° Medium narrow spot				
	60° Medium flood				
	70° Medium wide flood				
	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.
- Dedicated space for any surge protection devices or remote control systems.

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

Finish:
- Powder coating or anodizing.

Powder coating:
Neri grey, pure white, white aluminum, grey aluminum, jet black, moss green.
Anodizing:
silver anodizing, gold anodizing, bronze anodizing, brown anodizing, black anodizing.
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 ± 45°.

Operation 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.

TECHNICAL DATA:

Electrical and Optical features::
- Voltage: 120-277V (universal).
- Frequency: 50/60Hz.
- Protection rating: IP66, IK08.
- Operating temp.: -31°F/+95°F.
- Lumen output: from 500 to 2,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber + White
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- Electronic power supply with protection against short circuits, overheating and power surges.
- Standard surge protection for differential/common mode up to 10kV/10kV.

DRIVER FUNCTIONS:

Description
1-10 (Analogic control)
DALI (Digital control)
DMX

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2020

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

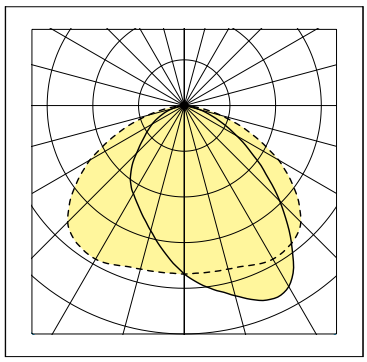
2,700K		
lm tot	**W tot**	**lm/W**
1,000	15.00	67

3,000K		
lm tot	**W tot**	**lm/W**
1,000	14.5	69

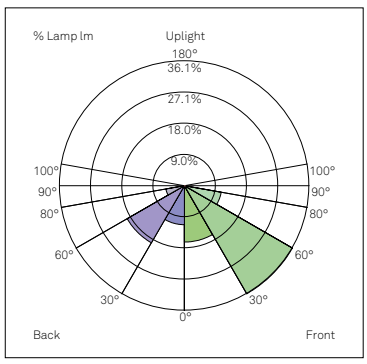
3,500K		
lm tot	**W tot**	**lm/W**
1,000	14.5	69

4,000K		
lm tot	**W tot**	**lm/W**
1,000	14.0	71

Type II
Prismatic flat glass



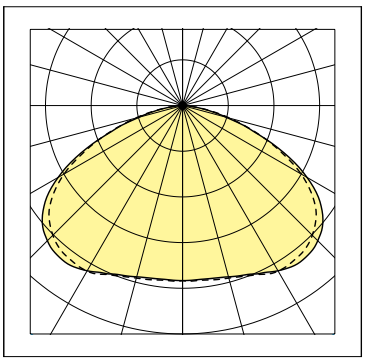
LOR 100%
Full Cutoff



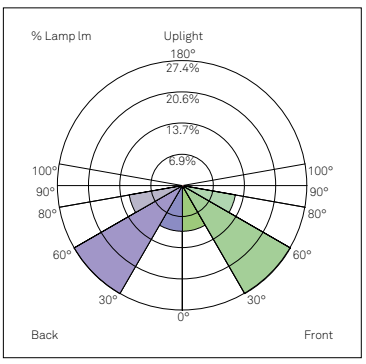
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	16.3	16.3
FM	30° - 60°	36.1	36.1
FH	60° - 80°	10.8	10.8
FVH	80° - 90°	0.7	0.7
BL	0° - 30°	11.3	11.3
BM	30° - 60°	19.1	19.1
BH	60° - 80°	5.4	5.4
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B1 U1 G0

Type V
Prismatic flat glass



LOR 100%
Full Cutoff



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

1,000lm - BUG: B1 U1 G0

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2020

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

2,700K

lm tot	W tot	lm/W
1,500	14.1	106
2,500	24.2	103

3,000K

lm tot	W tot	lm/W
1,500	14.0	107
2,500	23.9	105

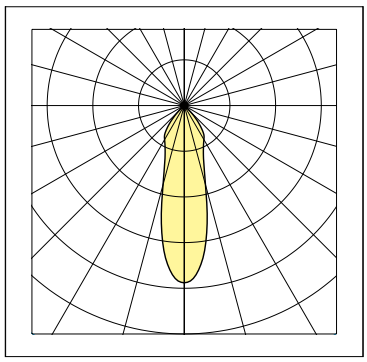
3,500K

lm tot	W tot	lm/W
1,500	13.3	113
2,500	22.8	110

4,000K

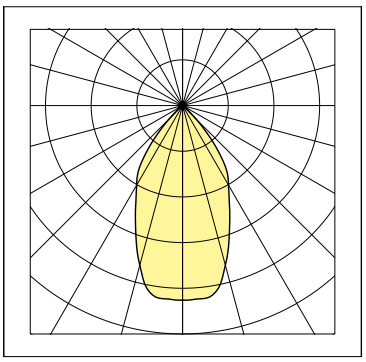
lm tot	W tot	lm/W
1,500	12.7	119
2,500	21.8	115

30° Medium narrow spot
Transparent flat glass



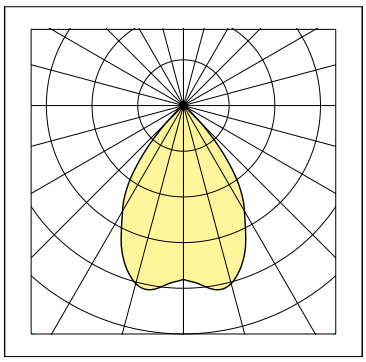
LOR 100%
Full Cutoff
NEMA class 5x5

60° Medium flood
Transparent flat glass



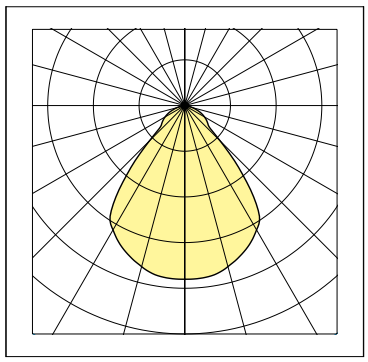
LOR 100%
Full Cutoff
NEMA class 5x5

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

NERI

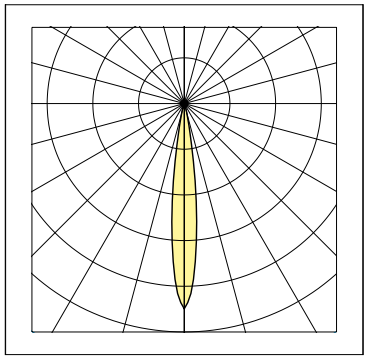
Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

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

RGBW

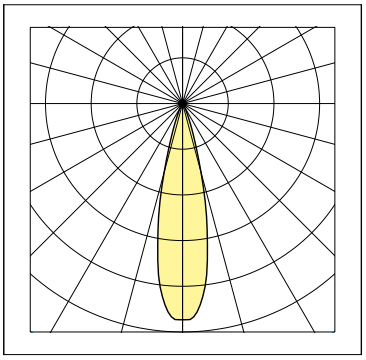
Color	lm	λ (nm)
Red	333 (R)	623
Green	289 (G)	517
Blu	89 (B)	455
White	500 (W)	-

15° Very narrow spot
Transparent flat glass



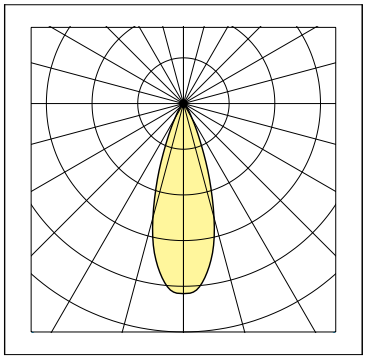
LOR 100%
Full Cutoff
NEMA class 2x2

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:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020

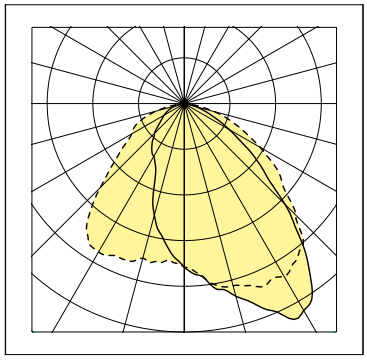
NEBULA BOLLARD - A + W
Prismatic flat glass - High Power LED
(Single Lens, PMMA).

Amber + White

Color	lm	λ (nm)
Amber	180	598
White	800	-

Type II

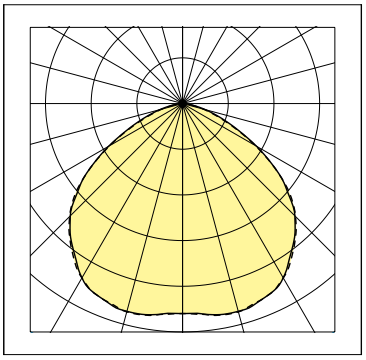
Prismatic flat glass



LOR 100%
Full Cutoff

Type V

Prismatic flat glass



LOR 100%
Full Cutoff

NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	03/2020