

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

NEBULA BOLLARD (4")
Nebula Bollard luminaire head consists of one source.

NEBULA BOLLARD CONFIGURATION # _____
LUMINAIRE HEAD
DOWN LIGHT

☐ **NEBULA BOLLARD - 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"/> Transparent 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 BOLLARD - 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"/> 1,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Narrow flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> 80° Medium wide flood				

☐ **NEBULA BOLLARD - 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 BOLLARD - 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 BOLLARD - SNOOT**

<input type="checkbox"/> snoot 30°
<input type="checkbox"/> snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green



NEBULA BOLLARD
LUMINAIRE HEAD
DOWN LIGHT
ST

PR

RGBW

A

Aperture lens

Transparent flat
glass

Prismatic flat
glass

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

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

☐ **NEBULA BOLLARD - 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"/> Transparent flat glass
<input type="checkbox"/> Type II	<input type="checkbox"/> 3,000K			
<input type="checkbox"/> Type IV	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> Type V				

☐ **NEBULA BOLLARD - 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"/> 1,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Narrow flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> 80° Medium wide flood				

☐ **NEBULA BOLLARD - 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 BOLLARD - 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 BOLLARD - SNOOT**

<input type="checkbox"/> snoot 30°
<input type="checkbox"/> snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green



NEBULA BOLLARD
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.01	03/2024

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

☐ **NEBULA BOLLARD - 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"/> Transparent flat glass
<input type="checkbox"/> Type II	<input type="checkbox"/> 3,000K			
<input type="checkbox"/> Type IV	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> Type V				

☐ **NEBULA BOLLARD - 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"/> 1,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Narrow flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> 80° Medium wide flood				

☐ **NEBULA BOLLARD - 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 BOLLARD - 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 BOLLARD - SNOOT**

<input type="checkbox"/> snoot 30°
<input type="checkbox"/> snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green



NEBULA BOLLARD
LUMINAIRE HEAD
DOWN LIGHT
ST

PR

RGBW

A

Aperture lens

Transparent flat glass

Prismatic flat glass

NERI

Nebula Bollard

Source	LED
Weight	17,6lb
Height	42"
Diameter	4"
EPA	1,27 ft ²

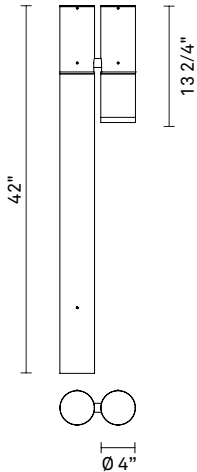
Nebula luminaire heads are composed by one light source.



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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024



Nebula Bollard - ST

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

Nebula Bollard - PR

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

Nebula Bollard - RGBW

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

Nebula Bollard - A

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
	Type II	A	350	0-10V	Prismatic flat glass
	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.: $-31^\circ\text{F} / +95^\circ\text{F}$.
- 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
- 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 Bollard

Source	LED
Weight	22,0lb
Height	42"
Diameter	4"
EPA	1,55 ft ²

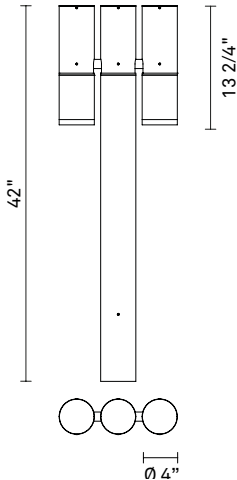
Nebula luminaire heads are composed by two light sources.



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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024



Nebula Bollard - ST

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

Nebula Bollard - ST

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

Nebula Bollard - PR

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

Nebula Bollard - PR

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Right	30° Medium narrow spot	2,700K	1,000	0-10V	Trasparent 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 ± 45°.

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 Bollard

Source	LED
Weight	22,0lb
Height	42"
Diameter	4"
EPA	1,55 ft ²

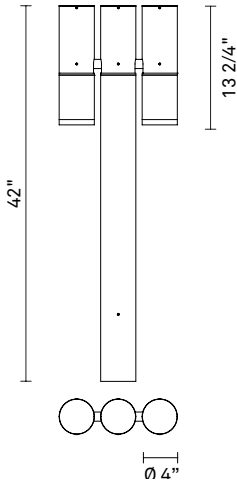
Nebula luminaire heads are composed by two light sources.



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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024



Nebula Bollard - RGBW

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

Nebula Bollard - RGBW

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

Nebula Bollard - A

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

Nebula Bollard - A

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Right	Type II Type V	A	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
- 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 BOLLARD - ST

Prismatic flat glass - COB LED

2,700K

lm tot	W tot	lm/W
1,000	12.5	80
1,500	18.7	80

3,000K

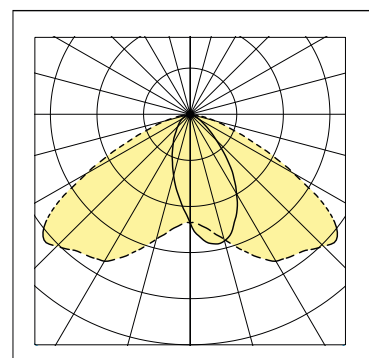
lm tot	W tot	lm/W
1,000	11.6	86
1,500	17.4	86

4,000K

lm tot	W tot	lm/W
1,000	10.3	97
1,500	15.5	97

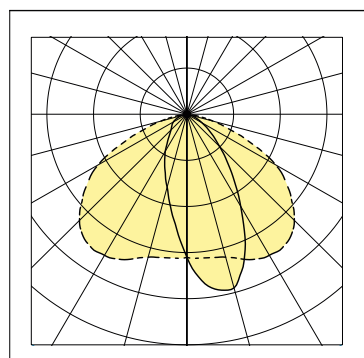
Type I

Prismatic flat glass



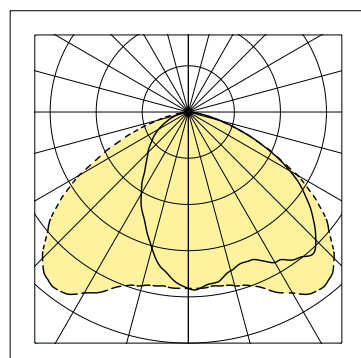
Type II

Prismatic flat glass



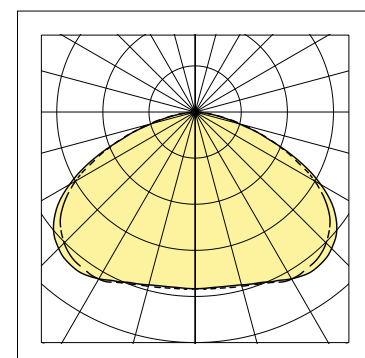
Type IV

Prismatic flat glass



Type V

Prismatic flat glass



LOR 100%

Full Cutoff



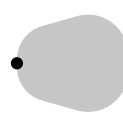
LOR 100%

Full Cutoff



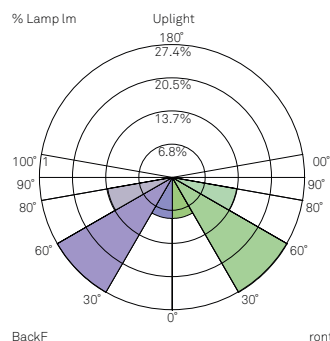
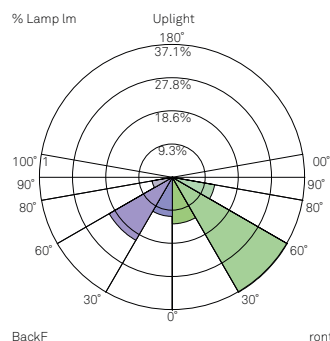
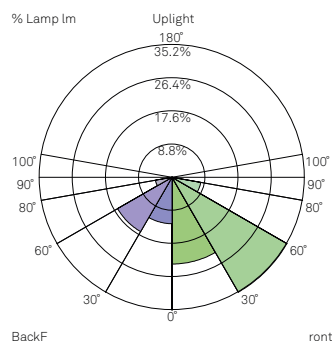
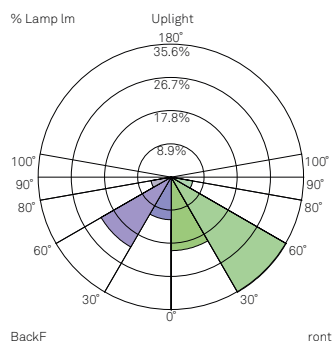
LOR 100%

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°	5.95	.9
FVH	80° - 90°	0.20	.2
BL	0° - 30°	11.4	11.4
BM	30° - 60°	21.6	21.6
BH	60° - 80°	5.45	.4
BVH	80° - 90°	0.20	.2
UL	90° - 100°	0.00	.0
UH	100° - 180°	0.00	.0
Totals		100.01	00.0

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°	7.87	.8
FVH	80° - 90°	0.30	.3
BL	0° - 30°	12.3	12.3
BM	30° - 60°	16.7	16.7
BH	60° - 80°	4.54	.5
BVH	80° - 90°	0.20	.2
UL	90° - 100°	0.00	.0
UH	100° - 180°	0.00	.0
Totals		100.01	00.0

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°	0.50	.5
BL	0° - 30°	11.0	11.0
BM	30° - 60°	20.4	20.4
BH	60° - 80°	5.75	.7
BVH	80° - 90°	0.30	.3
UL	90° - 100°	0.00	.0
UH	100° - 180°	0.00	.0
Totals		100.01	00.0

BUG: B1 U0 G0

LCS Zone	Angles	% Lamp%	Lum
FL	0° - 30°	8.58	.5
FM	30° - 60°	27.4	27.4
FH	60° - 80°	13.5	13.5
FVH	80° - 90°	0.60	.6
BL	0° - 30°	8.58	.5
BM	30° - 60°	27.4	27.4
BH	60° - 80°	13.5	13.5
BVH	80° - 90°	0.60	.6
UL	90° - 100°	0.00	.0
UH	100° - 180°	0.00	.0
Totals		100.01	00.0

BUG: B1 U0 G0

NERI

NEBULA BOLLARD - PR

Transparent flat glass - COB LED

Project location:

Project name:

Model code #:

Date

Fixture type:

Rev.01

03/2024

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

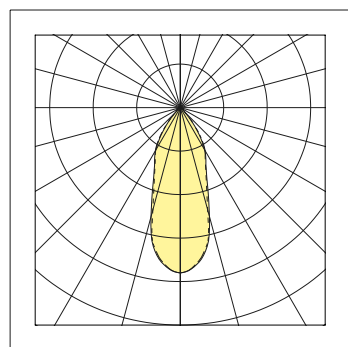
lm tot	W tot	lm/W
1,000	9.3	108
1,500	12.3	116
2,500	20.0	125

4,000K

lm tot	W tot	lm/W
1,000	9.0	111
1,500	12.6	119
2,500	19.4	129

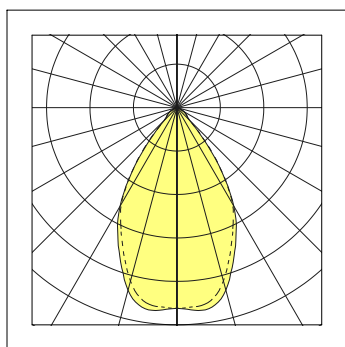
30° Medium narrow spot

Transparent flat glass



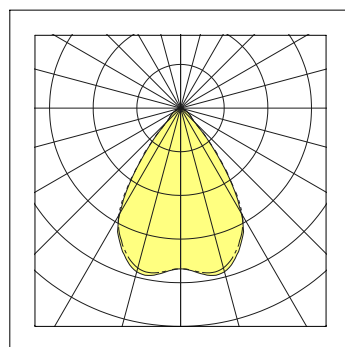
60° Medium flood

Transparent flat glass



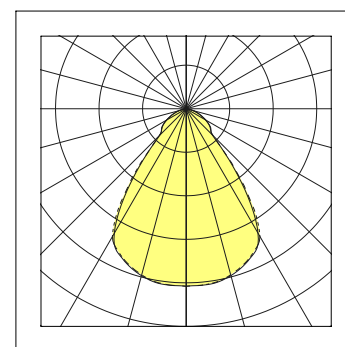
70° Medium wide flood

Transparent flat glass



80° Medium wide flood

Transparent flat glass



LOR 100%

Full Cutoff

NEMA class 5x5



LOR 100%

Full Cutoff

NEMA class 5x5



LOR 100%

Full Cutoff

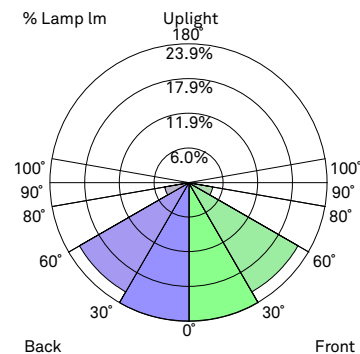
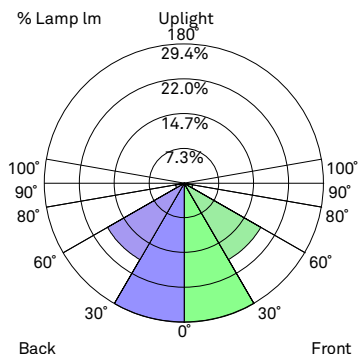
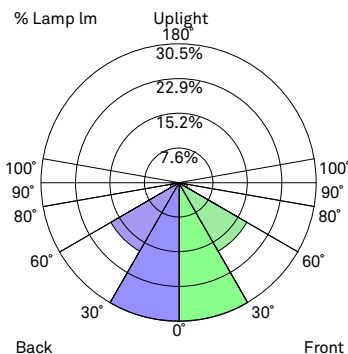
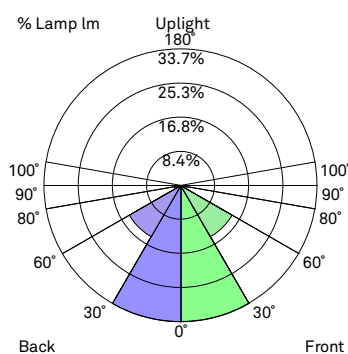
NEMA class 5x5



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

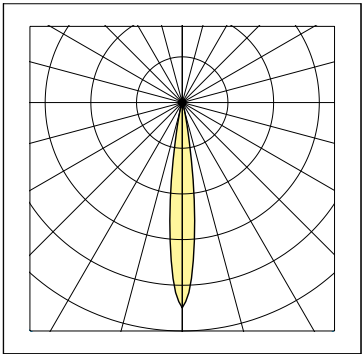
NEBULA BOLLARD - RGBW
Transparent flat glass - High Power LED

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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

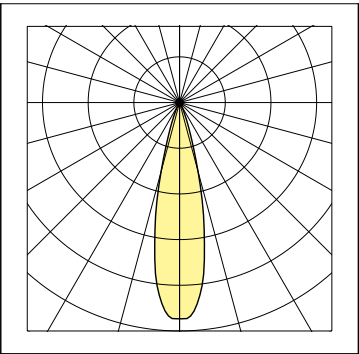
15° Very narrow spot
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 2x2



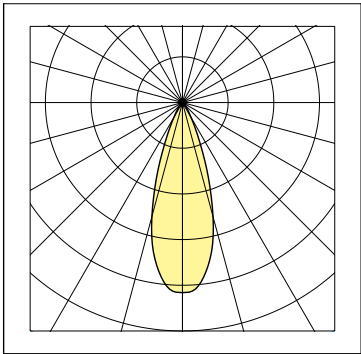
25° Narrow spot
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 3x3



35° Medium narrow spot
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 4x4



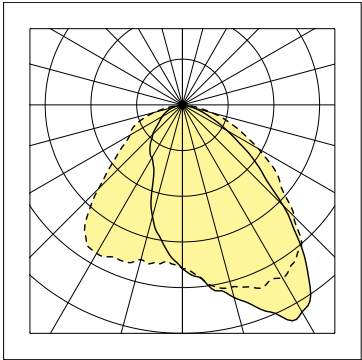
NEBULA BOLLARD - A
Prismatic flat glass - High Power LED

Amber		
Color	lm	λ (nm)
Amber	350	598

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

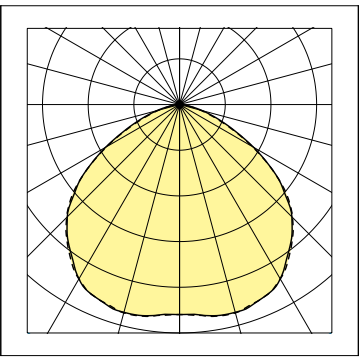
Type II
Prismatic flat glass



LOR 100%
Full Cutoff



Type V
Prismatic flat glass



LOR 100%
Full Cutoff



Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

NEBULA BOLLARD (4")
Nebula Bollard luminaire head consists of one source.

NEBULA BOLLARD CONFIGURATION # _____
LUMINAIRE HEAD
DOWN LIGHT



NEBULA BOLLARD
LUMINAIRE HEAD
DOWN LIGHT
ST

PR

RGBW

A

Aperture lens

Transparent flat
glass

Prismatic flat
glass

☐ **NEBULA BOLLARD - 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"/> Transparent 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 BOLLARD - 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"/> 1,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Narrow flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> 80° Medium wide flood				

☐ **NEBULA BOLLARD - 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 BOLLARD - 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 BOLLARD - SNOOT**

<input type="checkbox"/> snoot 30°
<input type="checkbox"/> snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

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



NEBULA BOLLARD
LUMINAIRE HEAD
DOWN LIGHT
ST

PR

RGBW

A

Aperture lens

Transparent flat glass

Prismatic flat glass

☐ **NEBULA BOLLARD - 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"/> Transparent 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 BOLLARD - 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"/> 1,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Narrow flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> 80° Medium wide flood				

☐ **NEBULA BOLLARD - 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 BOLLARD - 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 BOLLARD - SNOOT**

<input type="checkbox"/> snoot 30°
<input type="checkbox"/> snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

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



NEBULA BOLLARD
LUMINAIRE HEAD
DOWN LIGHT
ST

PR

RGBW

A

Aperture lens

Transparent flat glass

Prismatic flat glass

☐ **NEBULA BOLLARD - 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"/> Transparent flat glass
<input type="checkbox"/> Type II	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> Type IV	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> Type V				

☐ **NEBULA BOLLARD - 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"/> 1,500	<input type="checkbox"/> 0-10V	<input type="checkbox"/> Transparent flat glass
<input type="checkbox"/> 60° Narrow flood	<input type="checkbox"/> 3,000K	<input type="checkbox"/> 2,500		
<input type="checkbox"/> 70° Medium wide flood	<input type="checkbox"/> 4,000K			
<input type="checkbox"/> 80° Medium wide flood				

☐ **NEBULA BOLLARD - 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 BOLLARD - 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 BOLLARD - SNOOT**

<input type="checkbox"/> snoot 30°
<input type="checkbox"/> snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

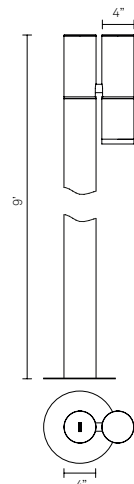
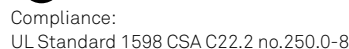
Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green

Nebula Bollard

Nebula lumineuse heads are composed by one light source.



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

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

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

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

- 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.

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

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

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.

- 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

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

Description

0-10V (Analogic control)

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.00	03/2024

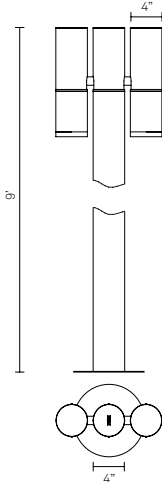
Nebula Bollard

Source	LED
Weight	28,6lb
Height	9'
Diameter	4"
EPA	3,1 ft ²

Nebula luminaire heads are composed by two light sources.



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



Nebula Bollard - ST

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

Nebula Bollard - ST

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

Nebula Bollard - PR

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

Nebula Bollard - PR

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Right	30° Medium narrow spot	2,700K	1,000	0-10V	Trasparent 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 ± 45°.

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 Bollard

Source	LED
Weight	28,6lb
Height	9'
Diameter	4"
EPA	3,1 ft ²

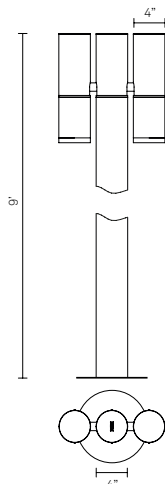
Nebula luminaire heads are composed by two light sources.



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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.00	03/2024



Nebula Bollard - RGBW

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

Nebula Bollard - RGBW

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

Nebula Bollard - A

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

Nebula Bollard - A

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Right	Type II Type V	A	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
- 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 BOLLARD - ST

Transparent flat glass - COB LED

2,700K

lm tot	W tot	lm/W
1,000	12.5	80
1,500	18.7	80

3,000K

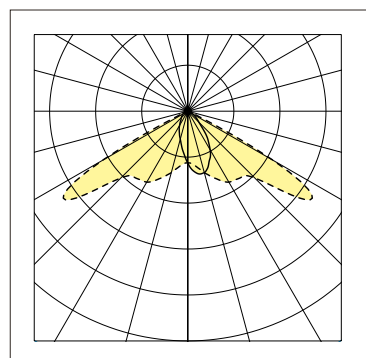
lm tot	W tot	lm/W
1,000	11.6	86
1,500	17.4	86

4,000K

lm tot	W tot	lm/W
1,000	10.3	97
1,500	15.5	97

Type I

Prismatic flat glass



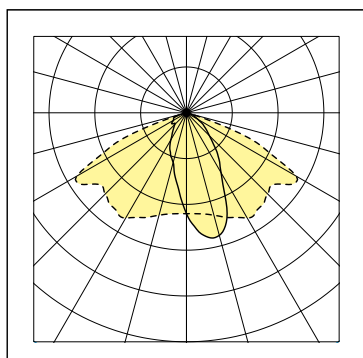
LOR 100%

Full Cutoff



Type II

Prismatic flat glass



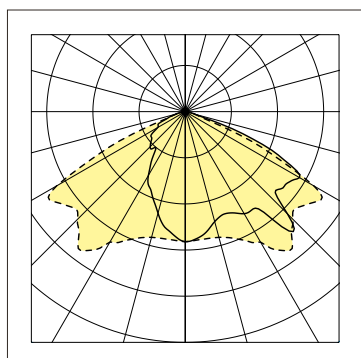
LOR 100%

Full Cutoff



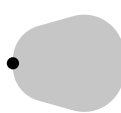
Type IV

Prismatic flat glass



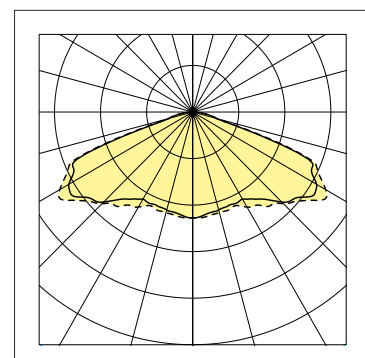
LOR 100%

Full Cutoff



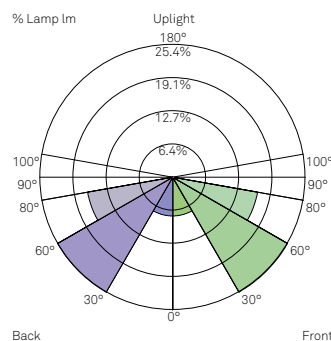
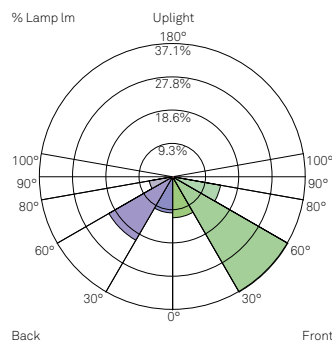
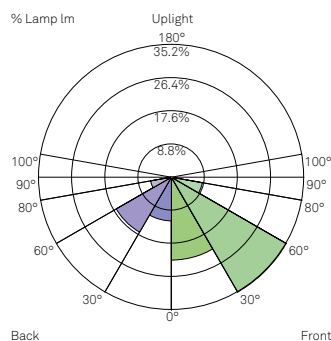
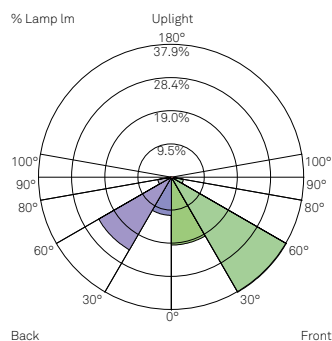
Type V

Prismatic flat glass



LOR 100%

Full Cutoff



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	19.4	19.4
FM	30° - 60°	37.9	37.9
FH	60° - 80°	3.5	3.5
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	10.9	10.9
BM	30° - 60°	24.0	24.0
BH	60° - 80°	3.9	3.9
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

1,000lm - BUG: B1 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	22.0	22.0
FM	30° - 60°	35.2	35.2
FH	60° - 80°	8.3	8.3
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	11.6	11.6
BM	30° - 60°	16.8	16.8
BH	60° - 80°	5.6	5.6
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 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	11.4	11.4
FM	30° - 60°	37.1	37.1
FH	60° - 80°	13.6	13.6
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	10.1	10.1
BM	30° - 60°	20.5	20.5
BH	60° - 80°	6.6	6.6
BVH	80° - 90°	0.4	0.4
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B0 U0 G0

LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	7.4	7.4
FM	30° - 60°	25.4	25.4
FH	60° - 80°	16.5	16.5
FVH	80° - 90°	0.6	0.6
BL	0° - 30°	7.4	7.4
BM	30° - 60°	25.4	25.4
BH	60° - 80°	16.5	16.5
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

1,000lm - BUG: B1 U0 G0

NERI

NEBULA BOLLARD - PR

Transparent flat glass - COB LED

Project location:

Project name:

Model code #:

Date

Fixture type:

Rev.01

03/2024

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

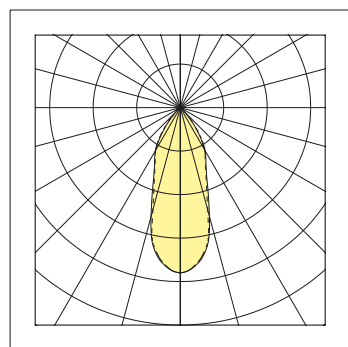
lm tot	W tot	lm/W
1,000	9.3	108
1,500	12.3	116
2,500	20.0	125

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%

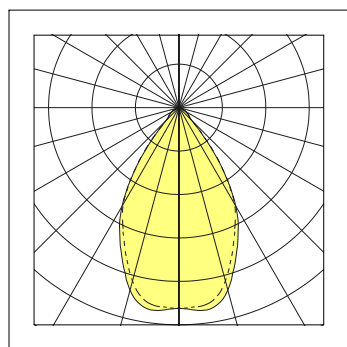
Full Cutoff

NEMA class 5x5



60° Medium flood

Transparent flat glass



LOR 100%

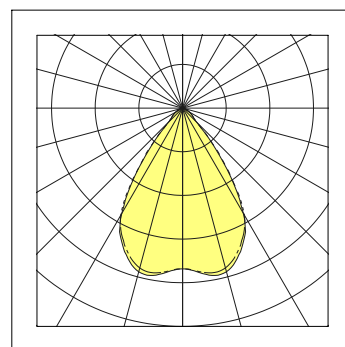
Full Cutoff

NEMA class 5x5



70° Medium wide flood

Transparent flat glass



LOR 100%

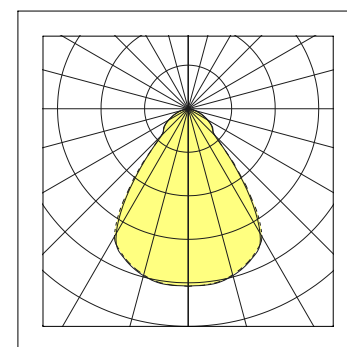
Full Cutoff

NEMA class 5x5



80° Medium wide flood

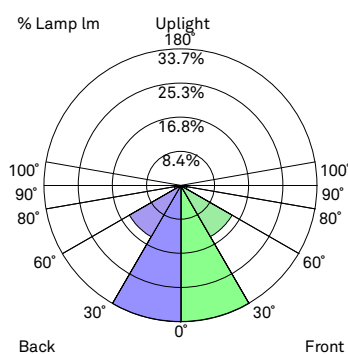
Transparent flat glass



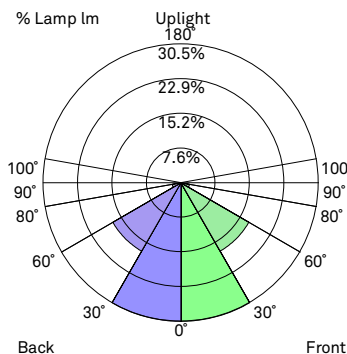
LOR 100%

Full Cutoff

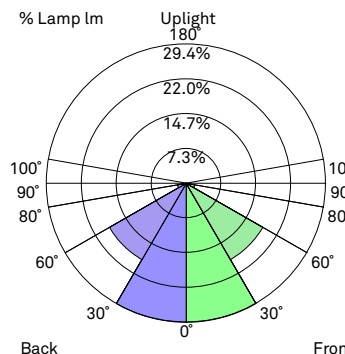
NEMA class 7x7



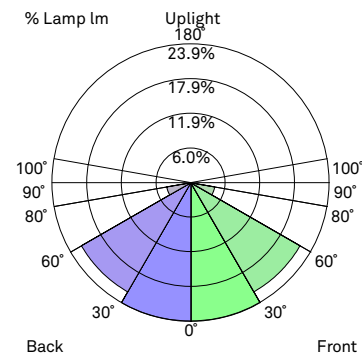
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	33.7	33.7
FM	30° - 60°	14.6	14.6
FH	60° - 90°	1.6	1.6
FVH	90° - 100°	0.2	0.2
BL	0° - 30°	33.7	33.7
BM	30° - 60°	14.6	14.6
BH	60° - 90°	1.6	1.6
BVH	90° - 100°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0
BUG: B2 U0 G0			



LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	30.5	30.5
FM	30° - 60°	17.4	17.4
FH	60° - 90°	1.9	1.9
FVH	90° - 100°	0.2	0.2
BL	0° - 30°	30.5	30.5
BM	30° - 60°	17.4	17.4
BH	60° - 90°	1.9	1.9
BVH	90° - 100°	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° - 90°	1.8	1.8
FVH	90° - 100°	0.2	0.2
BL	0° - 30°	29.4	29.4
BM	30° - 60°	18.6	18.6
BH	60° - 90°	1.8	1.8
BVH	90° - 100°	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° - 90°	4.2	4.2
FVH	90° - 100°	0.2	0.2
BL	0° - 30°	23.9	23.9
BM	30° - 60°	21.7	21.7
BH	60° - 90°	4.2	4.2
BVH	90° - 100°	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

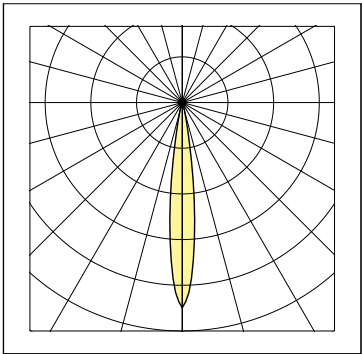
NEBULA BOLLARD - RGBW
Transparent flat glass - High Power LED

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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

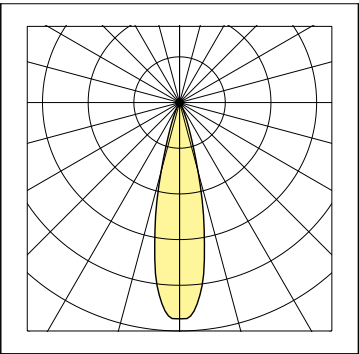
15° Very narrow spot
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 2x2



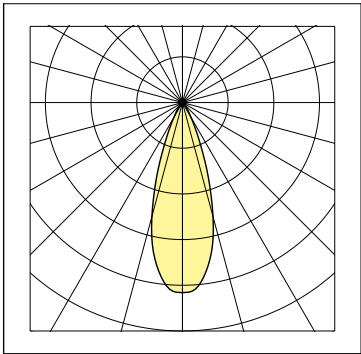
25° Narrow spot
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 3x3



35° Medium narrow spot
Transparent flat glass



LOR 100%
Full Cutoff
NEMA class 4x4



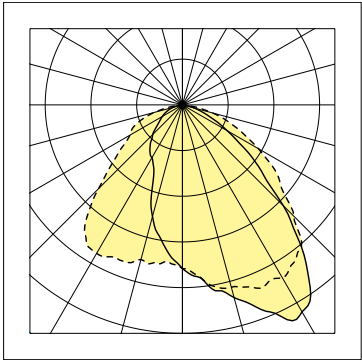
NEBULA BOLLARD - A
Prismatic flat glass - High Power LED

Amber		
Color	lm	λ (nm)
Amber	350	598

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

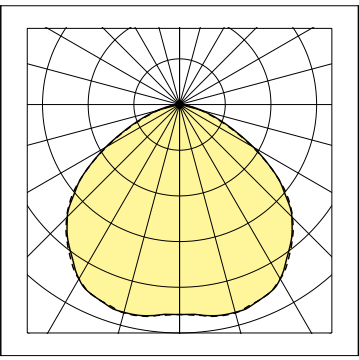
Type II
Prismatic flat glass



LOR 100%
Full Cutoff



Type V
Prismatic flat glass



LOR 100%
Full Cutoff



NEBULA PATHLIGHT (6")
Nebula Pathlight luminaire head consists of one source.

NEBULA BOLLARD CONFIGURATION # _____
LUMINAIRE HEAD
DOWN LIGHT

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

☐ **NEBULA PATHLIGHT - PR**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 65° Medium wide flood	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> PC screen
	<input type="checkbox"/> 3,000K			
	<input type="checkbox"/> 4,000K			

☐ **NEBULA PATHLIGHT - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 60° Medium wide flood	<input type="checkbox"/> RGBW	70 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> PC screen
		125 lm (G)		
		22 lm (B)		
		100 lm (W)		

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green



**NEBULA
PATHLIGHT
PR**

RGBW

Aperture lens

PC protection
screen

NERI

NEBULA PATHLIGHT (6")
Nebula Pathlight luminaire head consists of two sources.

NEBULA BOLLARD CONFIGURATION # _____
LUMINAIRE HEAD
DOWN LIGHT

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

☐ **NEBULA PATHLIGHT - PR**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 65° Medium wide flood	<input type="checkbox"/> 2,700K	<input type="checkbox"/> 500	<input type="checkbox"/> 1-10V	<input type="checkbox"/> PC screen
	<input type="checkbox"/> 3,000K			
	<input type="checkbox"/> 4,000K			

☐ **NEBULA PATHLIGHT - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
<input type="checkbox"/> 60° Medium wide flood	<input type="checkbox"/> RGBW	70 lm (R)	<input type="checkbox"/> DMX	<input type="checkbox"/> PC screen
		125 lm (G)		
		22 lm (B)		
		100 lm (W)		

☐ **NEBULA BOLLARD - FINISH**

Powder coating
<input type="checkbox"/> Neri grey
<input type="checkbox"/> Pure white
<input type="checkbox"/> White aluminum
<input type="checkbox"/> Grey aluminum
<input type="checkbox"/> Jet black
<input type="checkbox"/> Moss green

**NEBULA
PATHLIGHT**
PR

RGBW

Aperture lens

PC protection
screen



**NEBULA
PATHLIGHT**
PR

RGBW

Aperture lens

PC protection
screen

NERI

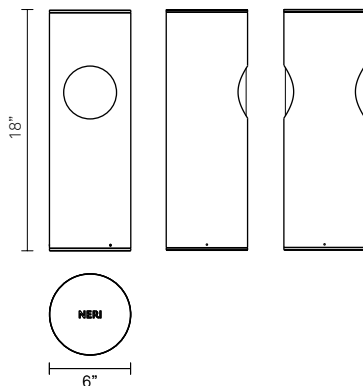
Nebula Pathlight

Source	LED
Weight	11,0lb
Height	18"
Diameter	6"
EPA	0,63 ft ²

Nebula Pathlight is composed by one or two light sources.



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



Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
	65° Medium wide flood	2,700K 3,000K 4,000K	500	1-10V	PC protection screen

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
	60° Medium wide flood	RGBW	140 (R) 230 (G) 44 (B) 200 (W)	DMX	PC protection screen

SPECIFICATIONS:

Construction:

- External frame in extruded aluminum.
- Polycarbonate protection screen.
- Integrated heat sink in aluminum.
- Wiring plate in galvanized steel sheet.
- Osmotic valve to balance internal/external pressure.

Materials:

- Extruded aluminum.
- Galvanized steel.
- Polycarbonate.
- 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 on the ground.

TECHNICAL DATA:

Electrical:

- Voltage: 120-277V (universal).
- Rated power: from 20. W to 40.0 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: 500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- 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).

DRIVER FUNCTIONS:

Description

0-10V (Analogic control)

DMX

NEBULA PATHLIGHT - PR
PC protection screen - COB LED

Project location:	
Project name:	
Model code #:	Date

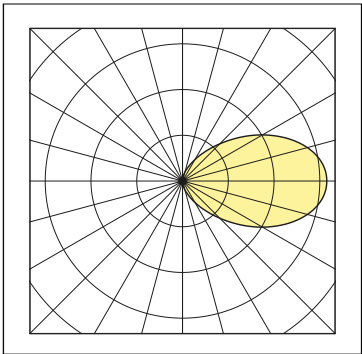
Fixture type:	
Rev.01	03/2024

2,700K		
lm tot	W tot	lm/W
500	17.3	29

3,000K		
lm tot	W tot	lm/W
500	16.5	30

4,000K		
lm tot	W tot	lm/W
500	16,0	31

65° Medium wide flood
PC protection screen



NEBULA PATHLIGHT - PR
PC protection screen - COB LED

Project location:	
Project name:	
Model code #:	Date

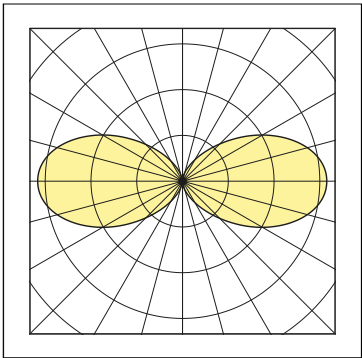
Fixture type:	
Rev.01	03/2024

2,700K		
lm tot	W tot	lm/W
500	17.3	29

3,000K		
lm tot	W tot	lm/W
500	16.5	30

4,000K		
lm tot	W tot	lm/W
500	16,0	31

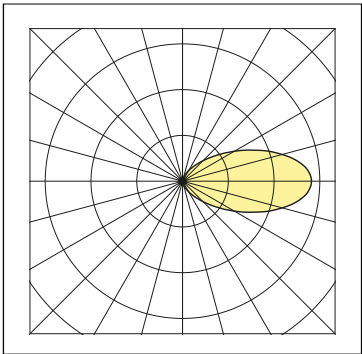
65° Medium wide flood
PC protection screen



NEBULA PATHLIGHT - RGBW
PC protection screen - High Power LED

RGBW		
Color	lm	λ (nm)
Red	70 (R)	623
Green	115 (G)	517
Blu	22 (B)	455
White	100 (W)	-

60° Medium wide flood
PC protection screen



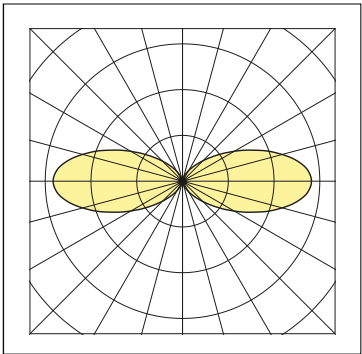
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024

NEBULA PATHLIGHT - RGBW
PC protection screen - High Power LED

RGBW		
Color	lm	λ (nm)
Red	140 (R)	623
Green	230 (G)	517
Blu	44 (B)	455
White	200 (W)	-

60° Medium wide flood
PC protection screen



Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	03/2024