NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	09/2022

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
☐ Type I	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Transparent flat glass
☐ Type II	☐ 3,000K			
☐ Type IV	☐ 3,500K			
☐ Type V	☐ 4,000K			

☐ **NEBULA BOLLARD - PR**

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

☐ **NEBULA BOLLARD - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 15° Very narrow spot	☐ RGBW	270 lm (R)	☐ DMX	☐ Transparent flat glass
☐ 25° Narrow spot		210 lm (G)		
☐ 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ **NEBULA BOLLARD - A**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V				

☐ **NEBULA BOLLARD - SNOOT**

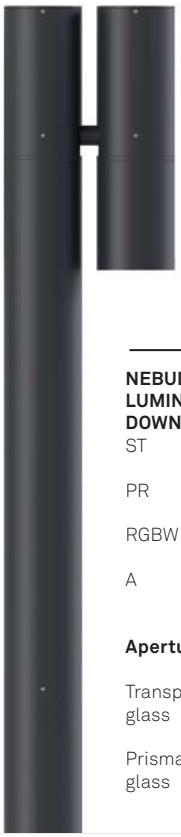
☐ snoot 30°
☐ snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

☐ Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

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
LUMINAIRE HEAD
DOWN LIGHT
ST

PR

RGBW

A

Aperture lens

Transparent flat glass

Prismatic flat glass

NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	09/2022

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
☐ Type I	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Transparent flat glass
☐ Type II	☐ 3,000K			
☐ Type IV	☐ 3,500K			
☐ Type V	☐ 4,000K			

☐ **NEBULA BOLLARD - PR**

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

☐ **NEBULA BOLLARD - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 15° Very narrow spot	☐ RGBW	270 lm (R)	☐ DMX	☐ Transparent flat glass
☐ 25° Narrow spot		210 lm (G)		
☐ 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ **NEBULA BOLLARD - A**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V				

☐ **NEBULA BOLLARD - SNOOT**

☐ snoot 30°

☐ snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

☐ Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

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	09/2022

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
☐ Type I	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Transparent flat glass
☐ Type II	☐ 3,000K			
☐ Type IV	☐ 3,500K			
☐ Type V	☐ 4,000K			

☐ **NEBULA BOLLARD - PR**

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

☐ **NEBULA BOLLARD - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 15° Very narrow spot	☐ RGBW	270 lm (R)	☐ DMX	☐ Transparent flat glass
☐ 25° Narrow spot		210 lm (G)		
☐ 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ **NEBULA BOLLARD - A**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V				

☐ **NEBULA BOLLARD - SNOOT**

☐ snoot 30°

☐ snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

☐ Linear Diffusion

☐ **NEBULA BOLLARD - FINISH**

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

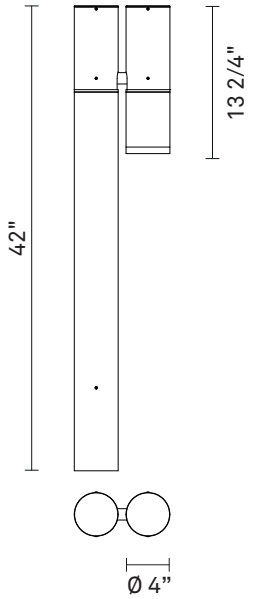
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	02/2020

Nebula Bollard

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

Nebula luminaire heads are composed by one light source.



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
	Type I	2,700K	350	1-10V	Prismatic flat glass
	Type II	3,000K	390	DMX	Transparent flat glass
	Type IV	3,500K	1,000		
	Type V	4,000K	1,500		
	15° Very narrow spot	RGBW	2,500		
	25° Narrow spot	Amber			
	30° Medium narrow spot				
	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.

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.

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°.

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 180 to 2,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).
- LED type: Lumileds Luxeon C0B 1211, Nebula PR (estimated life 70,000 h L80 - Tq=77°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
1-10V (Analogic control)
DMX

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NERI

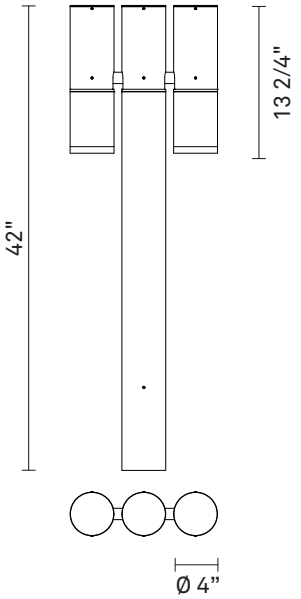
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	02/2020

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.



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
Left	Type I	2,700K	350	1-10V	Prismatic flat glass
	Type II	3,000K	390	DMX	Transparent flat glass
	Type IV	3,500K	1,000		
	Type V	4,000K	1,500		
	15° Very narrow spot	RGBW	2,500		
	25° Narrow spot	Amber			
	30° Medium narrow spot				
	35° Medium narrow spot				
	60° Medium flood				
	70° Medium wide flood				
	80° Medium wide flood				
Right	Type I	2,700K	350	1-10V	Prismatic flat glass
	Type II	3,000K	390	DMX	Transparent flat glass
	Type IV	3,500K	1,000		
	Type V	4,000K	1,500		
	15° Very narrow spot	RGBW	2,500		
	25° Narrow spot	Amber			
	30° Medium narrow spot				
	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.

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.

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°.

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 180 to 2,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).
- LED type: Lumileds Luxeon C0B 1211, Nebula PR (estimated life 70,000 h L80 - Tq=77°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
1-10V (Analogic control)
DMX

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	09/2022

NEBULA BOLLARD - ST
Transparent flat glass - COB LED

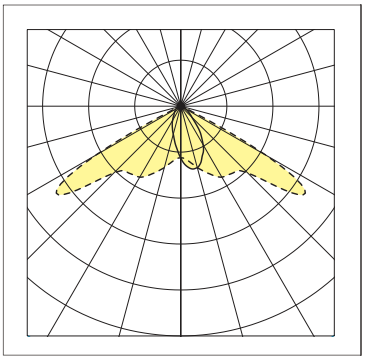
2,700K		
lm tot	**W tot**	**lm/W**
1,000	10.3	97

3,000K		
lm tot	**W tot**	**lm/W**
1,000	10.0	100

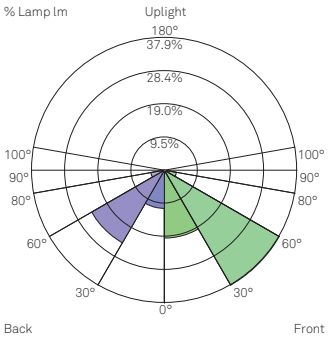
3,500K		
lm tot	**W tot**	**lm/W**
1,000	9.5	105

4,000K		
lm tot	**W tot**	**lm/W**
1,000	9.3	108

Type I
Prismatic flat glass



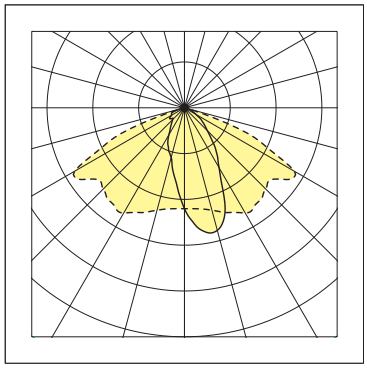
LOR 100%
Full Cutoff



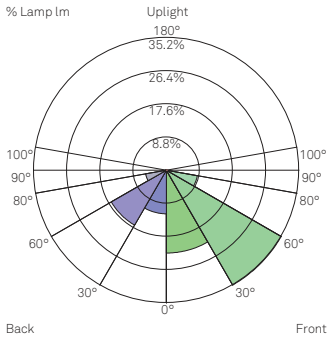
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	19.4	19.4
FM	30° - 60°	37.9	37.9
FH	60° - 80°	3.5	3.5
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	10.9	10.9
BM	30° - 60°	24.0	24.0
BH	60° - 80°	3.9	3.9
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B1 U0 G0

Type II
Prismatic flat glass



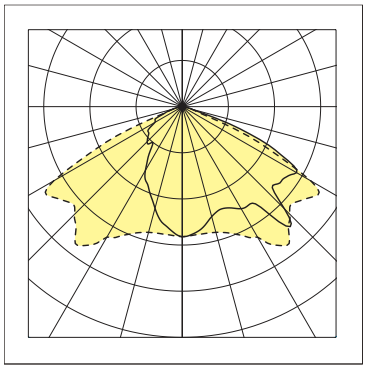
LOR 100%
Full Cutoff



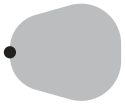
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	22.0	22.0
FM	30° - 60°	35.2	35.2
FH	60° - 80°	8.3	8.3
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	11.6	11.6
BM	30° - 60°	16.8	16.8
BH	60° - 80°	5.6	5.6
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

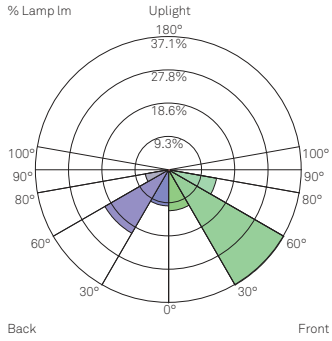
1,000lm - BUG: B1 U0 G0

Type IV
Prismatic flat glass



LOR 100%
Full Cutoff

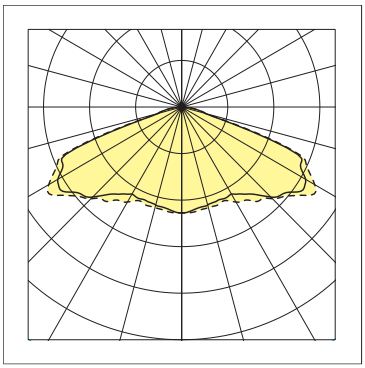




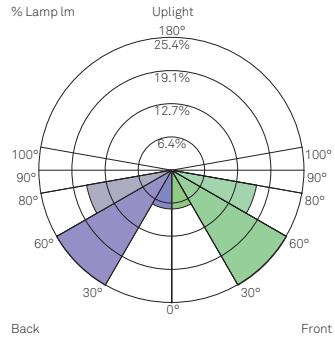
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	11.4	11.4
FM	30° - 60°	37.1	37.1
FH	60° - 80°	13.6	13.6
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	10.1	10.1
BM	30° - 60°	20.5	20.5
BH	60° - 80°	6.6	6.6
BVH	80° - 90°	0.4	0.4
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B0 U0 G0

Type V
Prismatic flat glass



LOR 100%
Full Cutoff



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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	09/2022

NEBULA BOLLARD - PR
Transparent flat glass - COB LED

2,700K

lm tot	W tot	lm/W
1,500	13.9	108
2,500	24.0	104

3,000K

lm tot	W tot	lm/W
1,500	13.4	112
2,500	23.3	107

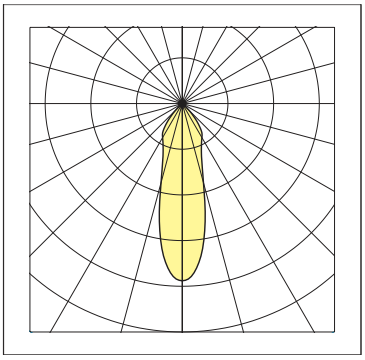
3,500K

lm tot	W tot	lm/W
1,500	13.1	114
2,500	22.8	110

4,000K

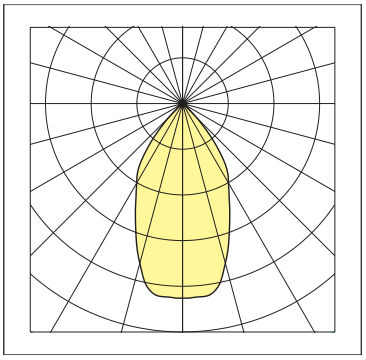
lm tot	W tot	lm/W
1,500	12.6	119
2,500	22.0	114

30° Medium narrow spot
Transparent flat glass



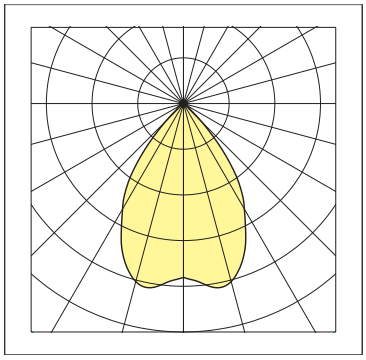
LOR 100%
Full Cutoff
NEMA class 5x5

60° Medium flood
Transparent flat glass



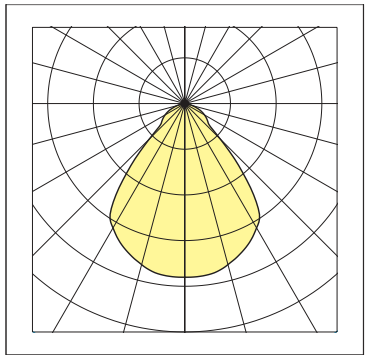
LOR 100%
Full Cutoff
NEMA class 5x5

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:	
Project name:	
Model code #:	Date

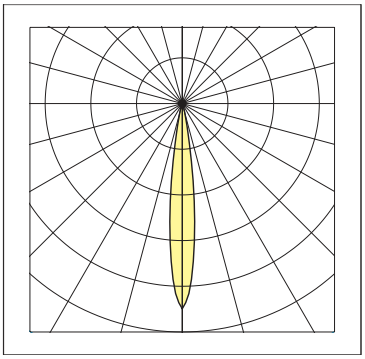
Fixture type:	
Rev.01	09/2022

NEBULA BOLLARD - RGBW
Transparent flat glass - High Power LED

RGBW

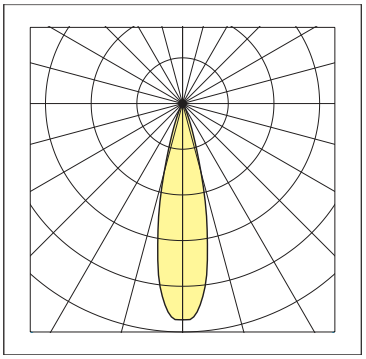
Color	lm	λ (nm)
Red	270 (R)	623
Green	210 (G)	517
Blu	75 (B)	455
White	390 (W)	-

15° Very narrow spot
Transparent flat glass



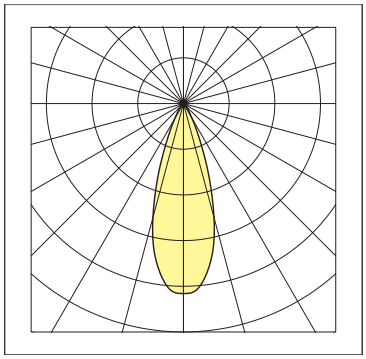
LOR 100%
Full Cutoff
NEMA class 2x2

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

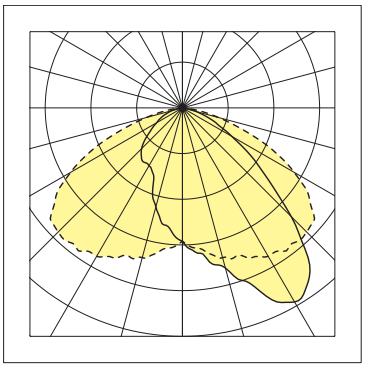
Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	09/2022

NEBULA BOLLARD - A
Prismatic flat glass - High Power LED

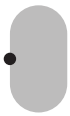
Amber

Color	lm	λ (nm)
Amber	350	598

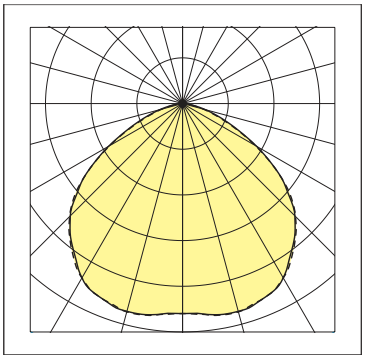
Type II
Prismatic flat glass



LOR 100%
Full Cutoff



Type V
Prismatic flat glass



LOR 100%
Full Cutoff

NERI

Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	09/2022

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
☐ Type I	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Transparent flat glass
☐ Type II	☐ 3,000K			
☐ Type IV	☐ 3,500K			
☐ Type V	☐ 4,000K			

☐ **NEBULA BOLLARD - PR**

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

☐ **NEBULA BOLLARD - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 15° Very narrow spot	☐ RGBW	270 lm (R)	☐ DMX	☐ Transparent flat glass
☐ 25° Narrow spot		210 lm (G)		
☐ 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ **NEBULA BOLLARD - A**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V				

☐ **NEBULA BOLLARD - SNOOT**

☐ snoot 30°
☐ snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

☐ Rhombic diffusion
☐ Linear Diffusion
☐ Linear Diffusion high transmission

☐ **NEBULA BOLLARD - 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	09/2022

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
☐ Type I	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Transparent flat glass
☐ Type II	☐ 3,000K			
☐ Type IV	☐ 3,500K			
☐ Type V	☐ 4,000K			

☐ **NEBULA BOLLARD - PR**

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

☐ **NEBULA BOLLARD - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 15° Very narrow spot	☐ RGBW	270 lm (R)	☐ DMX	☐ Transparent flat glass
☐ 25° Narrow spot		210 lm (G)		
☐ 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ **NEBULA BOLLARD - A**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V				

☐ **NEBULA BOLLARD - SNOOT**

☐ snoot 30°
☐ snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

☐ Rhombic diffusion
☐ Linear Diffusion
☐ Linear Diffusion high transmission

☐ **NEBULA BOLLARD - 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	09/2022

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
☐ Type I	☐ 2,700K	☐ 1,000	☐ 1-10V	☐ Transparent flat glass
☐ Type II	☐ 3,000K			
☐ Type IV	☐ 3,500K			
☐ Type V	☐ 4,000K			

☐ **NEBULA BOLLARD - PR**

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

☐ **NEBULA BOLLARD - RGBW**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ 15° Very narrow spot	☐ RGBW	270 lm (R)	☐ DMX	☐ Transparent flat glass
☐ 25° Narrow spot		210 lm (G)		
☐ 35° Medium narrow spot		75 lm (B)		
		390 lm (W)		

☐ **NEBULA BOLLARD - A**

Optic system	CCT	Lumen output	Driver function	Aperture lens
☐ Type II	☐ Amber	350 lm (A)	☐ 1-10V	☐ Prismatic flat glass
☐ Type V				

☐ **NEBULA BOLLARD - SNOOT**

☐ snoot 30°
☐ snoot 45°

☐ **NEBULA BOLLARD - REFRACTOR SCREEN**

☐ Rhombic diffusion
☐ Linear Diffusion
☐ Linear Diffusion high transmission

☐ **NEBULA BOLLARD - 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

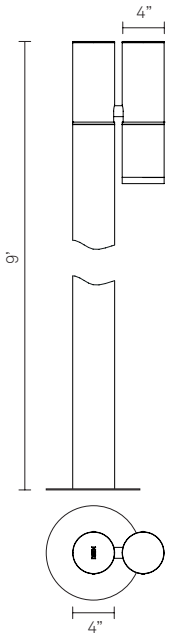
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.00	03/2021

Nebula Bollard

Source	LED
Weight	24,2lb
Height	9'
Diameter	4"
EPA	2,73 ft^2

Nebula luminaire heads are composed by one light source.



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
	Type I	2,700K	350	1-10V	Prismatic flat glass
	Type II	3,000K	390	DMX	Transparent flat glass
	Type IV	3,500K	1,000		
	Type V	4,000K	1,500		
	15° Very narrow spot	RGBW	2,500		
	25° Narrow spot	Amber			
	30° Medium narrow spot				
	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.

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.

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°.

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 180 to 2,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).
- LED type: Lumileds Luxeon C0B 1211, Nebula PR (estimated life 70,000 h L80 - Tq=77°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
1-10V (Analogic control)
DMX

NERI

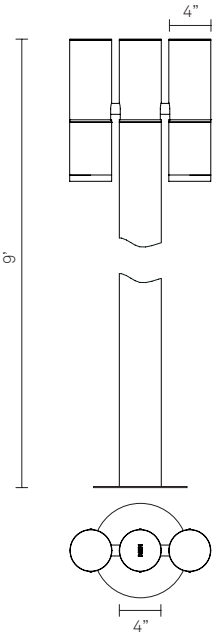
Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.00	03/2021

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

Luminaire head	Optic system	CCT	Delivered lumen choices	Driver functions	Aperture lens
Left	Type I	2,700K	350	1-10V	Prismatic flat glass
	Type II	3,000K	390	DMX	Transparent flat glass
	Type IV	3,500K	1,000		
	Type V	4,000K	1,500		
	15° Very narrow spot	RGBW	2,500		
	25° Narrow spot	Amber			
	30° Medium narrow spot				
	35° Medium narrow spot				
	60° Medium flood				
	70° Medium wide flood				
	80° Medium wide flood				
Right	Type I	2,700K	350	1-10V	Prismatic flat glass
	Type II	3,000K	390	DMX	Transparent flat glass
	Type IV	3,500K	1,000		
	Type V	4,000K	1,500		
	15° Very narrow spot	RGBW	2,500		
	25° Narrow spot	Amber			
	30° Medium narrow spot				
	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.

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.

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°.

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 180 to 2,500 lm.
- Color temperature: 2,700K to 4,000K, RGBW and Amber.
- Color Rendering Index: CRI > 80 (70 and 90 on demand).
- LED type: Nichia NVSLE21A, Nebula ST (estimated life 100,000 h L80 - Tq=77°F).
- LED type: Lumileds Luxeon C0B 1211, Nebula PR (estimated life 70,000 h L80 - Tq=77°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
1-10V (Analogic control)
DMX

NERI

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	09/2022

NEBULA BOLLARD - ST
Transparent flat glass - COB LED

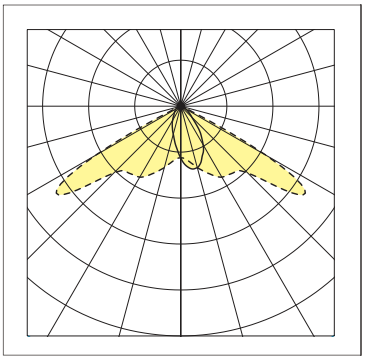
2,700K		
lm tot	**W tot**	**lm/W**
1,000	10.3	97

3,000K		
lm tot	**W tot**	**lm/W**
1,000	10.0	100

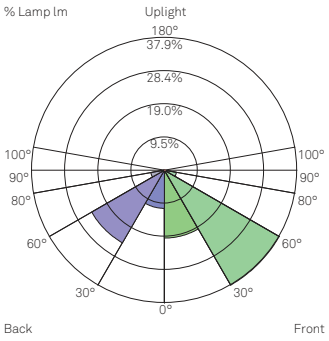
3,500K		
lm tot	**W tot**	**lm/W**
1,000	9.5	105

4,000K		
lm tot	**W tot**	**lm/W**
1,000	9.3	108

Type I
Prismatic flat glass



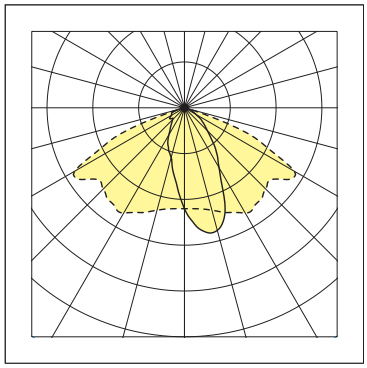
LOR 100%
Full Cutoff



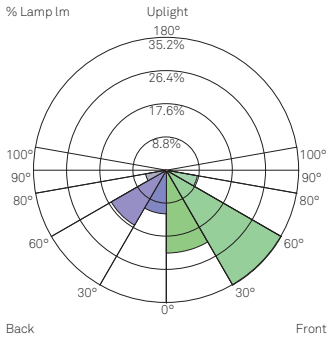
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	19.4	19.4
FM	30° - 60°	37.9	37.9
FH	60° - 80°	3.5	3.5
FVH	80° - 90°	0.2	0.2
BL	0° - 30°	10.9	10.9
BM	30° - 60°	24.0	24.0
BH	60° - 80°	3.9	3.9
BVH	80° - 90°	0.2	0.2
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B1 U0 G0

Type II
Prismatic flat glass



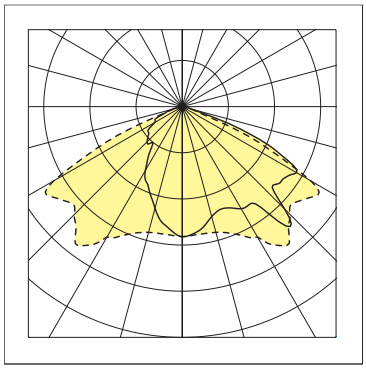
LOR 100%
Full Cutoff



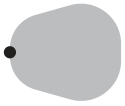
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	22.0	22.0
FM	30° - 60°	35.2	35.2
FH	60° - 80°	8.3	8.3
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	11.6	11.6
BM	30° - 60°	16.8	16.8
BH	60° - 80°	5.6	5.6
BVH	80° - 90°	0.3	0.3
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

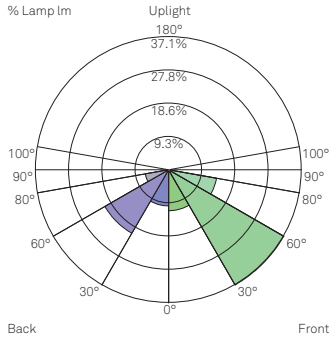
1,000lm - BUG: B1 U0 G0

Type IV
Prismatic flat glass



LOR 100%
Full Cutoff

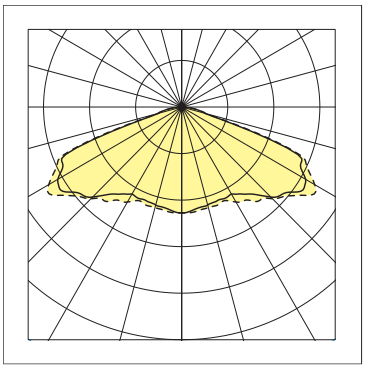




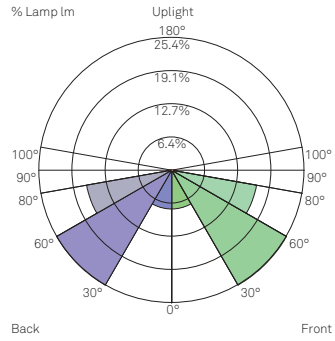
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	11.4	11.4
FM	30° - 60°	37.1	37.1
FH	60° - 80°	13.6	13.6
FVH	80° - 90°	0.3	0.3
BL	0° - 30°	10.1	10.1
BM	30° - 60°	20.5	20.5
BH	60° - 80°	6.6	6.6
BVH	80° - 90°	0.4	0.4
UL	90° - 100°	0.0	0.0
UH	100° - 180°	0.0	0.0
Totals		100.0	100.0

1,000lm - BUG: B0 U0 G0

Type V
Prismatic flat glass



LOR 100%
Full Cutoff



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

Project location:	
Project name:	
Model code #:	Date

Fixture type:	
Rev.01	09/2022

NEBULA BOLLARD - PR
Transparent flat glass - COB LED

2,700K

lm tot	W tot	lm/W
1,500	13.9	108
2,500	24.0	104

3,000K

lm tot	W tot	lm/W
1,500	13.4	112
2,500	23.3	107

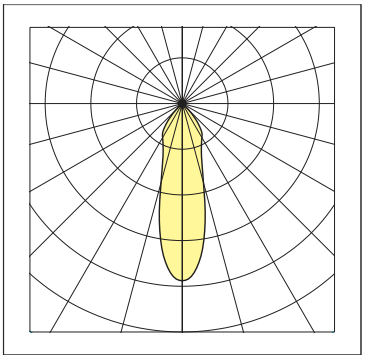
3,500K

lm tot	W tot	lm/W
1,500	13.1	114
2,500	22.8	110

4,000K

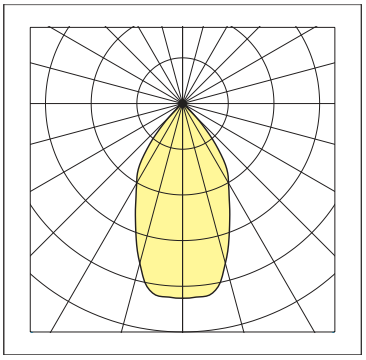
lm tot	W tot	lm/W
1,500	12.6	119
2,500	22.0	114

30° Medium narrow spot
Transparent flat glass



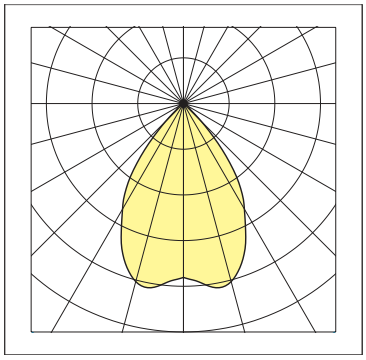
LOR 100%
Full Cutoff
NEMA class 5x5

60° Medium flood
Transparent flat glass



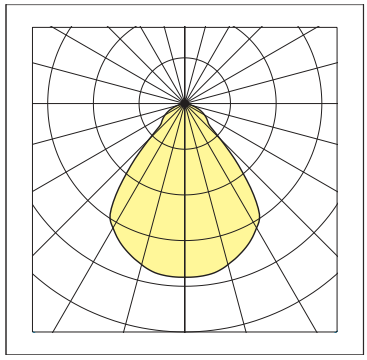
LOR 100%
Full Cutoff
NEMA class 5x5

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:	
Project name:	
Model code #:	Date

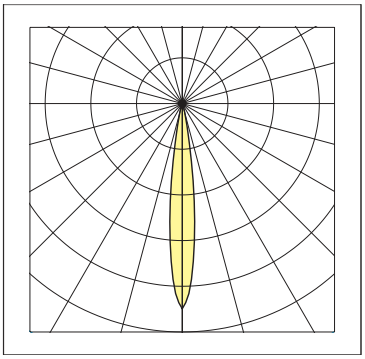
Fixture type:	
Rev.01	09/2022

NEBULA BOLLARD - RGBW
Transparent flat glass - High Power LED

RGBW

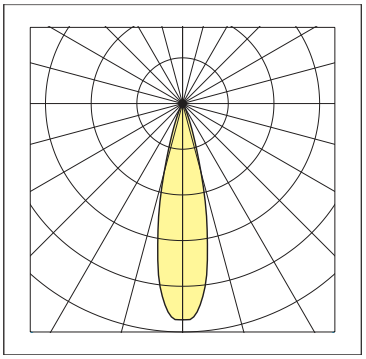
Color	lm	λ (nm)
Red	270 (R)	623
Green	210 (G)	517
Blu	75 (B)	455
White	390 (W)	-

15° Very narrow spot
Transparent flat glass



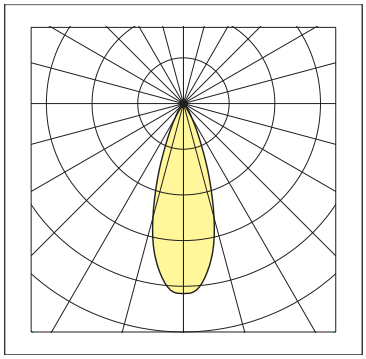
LOR 100%
Full Cutoff
NEMA class 2x2

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

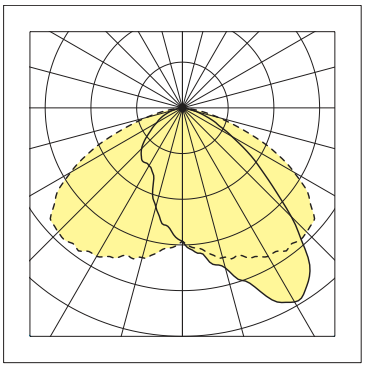
Project location:		Fixture type:	
Project name:			
Model code #:	Date	Rev.01	09/2022

NEBULA BOLLARD - A
Prismatic flat glass - High Power LED

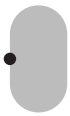
Amber

Color	lm	λ (nm)
Amber	350	598

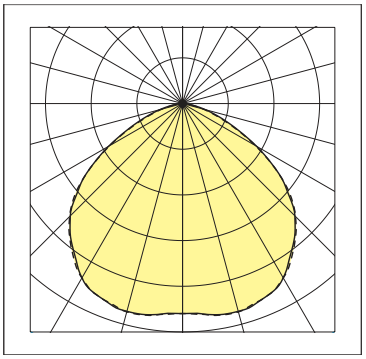
Type II
Prismatic flat glass



LOR 100%
Full Cutoff



Type V
Prismatic flat glass



LOR 100%
Full Cutoff