NERI

Project location:			
Project name:			
Model code #:		Date	

Fixture type:	

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Rev. A - 2016

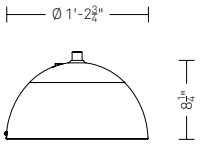
DESCRIPTION:
Circular shaped light fixture for suspended installation on post or wall brackets. Tilting lower frame for acces to auxiliary and optic compartment. Electrical components on plate easily removable. Optic system with various asymmetric geometry with refractive lens in acrilic extraclear and screen in flat transparent tempered glass. Light source with LED module (power led's), combined to a large heat sink in aluminium in continuity with frame for an optimal control of temperature and self regulating power rated for a operative life of over 100,000 hours (15 years). The Light Polaris, require low-maintenance due to Leds sources and IP66, and is ideally for illuminating urban streets, park, cycle paths or pedestrian walkways.

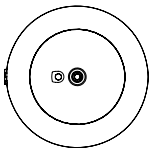
LIGHT POLARIS

LED Source - Contemporary

Voltage = 120-277, 50/60 Hz

EPA = 0.645 ft²
Weight = 21,82 lb
Height (A) = 8 1/4"
Diameter (Ø) = 1' - 2 3/4"





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

MODEL:
code sample: **SUN23L173N302** (=SU+N23L+17+3+N3+02)

Mounting	Series	Optic system	CCT	Lumen output	Driver function
SU = Suspended	**N23L** = Light Nova LED	**17** = type IV Short **18** = type VS Very Short **19** = type I Medium **20** = type II Short	**1** = 3,000K **3** = 4,000K	**N1** = 3,500 lm **N2** = 4,500 lm **N3** = 6,000 lm	**02** = 1-10V + NCL 71 = Manual dimming

SPECIFICATIONS:

Construction:
- Frame composed with an upper conical element and a lower semisphere, with a tilting ring for access to wiring and optical compartment and for the support of screen.
- Heat sink inside in continuity with frame.
- Suitable for wet location (IP 66).

Materials:
- Die-cast aluminium (ASTM B179-82)
- Hot galvanized steel
- Screen in flat tempered glass: IK08
- Stainless steel screws

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

Mounting:
- Suspended installation with threaded tube (G 3/4" -UNI 338;ISO 228/1).

Operation and maintenance:
- Follow the instructions for operation and maintenance.
- No maintenance is required, except a periodic cleaning of the screen from dust.

TECHNICAL DATA:

Electrical:
- Compliance: UL Standard 1598 - CSA C22.2 no.250.0.
- Voltage: 120-277V (universal).
- Rated power: from 31W to 73W.
- Frequency: 50/60Hz.
- Protection rating: IP66.
- Operating temp.: -22°F +104°F (-30°C +40°C).
- Osmotic valve for pressure compensation.
- Automatic disconnector when opening.
- Electronic ballast with self-diagnostic functions and monitoring of over temperatures. Estimated life: B10 at 80,000 hours.
- Electronic sensor on led plate for the control of over temperatures.
- Surge protection 4kV/4kV

Optical Features:
- Light source: power leds
- Lumen output: from 3,500 to 7,500 lm
- Color temperature: 3,000K or 4,000K
- Chromatic Rendering Index: CRI > 70
- Estimated life: 100,000 hours (L85-Ta 25°C)
- Protection rating: IP66
- Refractive lens in acrylic (PMMA)
- Screen in flat tempered glass: IK08

On demand features:
- Painting:colour of RAL range.
- Information about paint steps used on this product in specific technical sheet.

CONFIGURATION TABLES:

Configuration tables of luminous fluxes.
The efficacy (lm/W) on table refers to the complete system.

3,000 K - Colour temperature			
Code	lm output	Watt	lm/W
1N1	3,500	35	100
1N2	4,500	47	96
1N3	6,000	63	95

4,000 K - Colour temperature			
Code	lm output	Watt	lm/W
3N1	3,500	31	113
3N2	4,500	42	107
3N3	6,000	56	107

Configuration of driver functions

Code	Driver function
02	1-10V control + constant flux control (1-10V + NCL)
71	Optional: Internal manual dimming control allowing up to 50% light reduction. Setup by qualified operator and with powerline disconnected.

On demand features
- Painting: colour of RAL range.

Note:
- (*): flux size available only with 4,000K.

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LIGHT POLARIS

LED Source - Comfort range

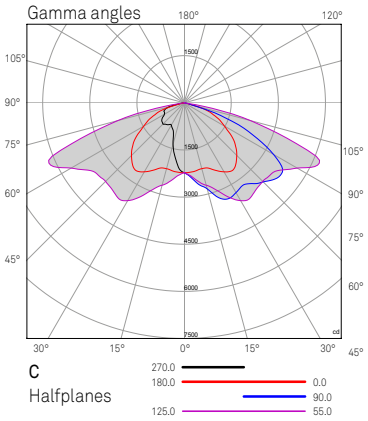
Contemporary

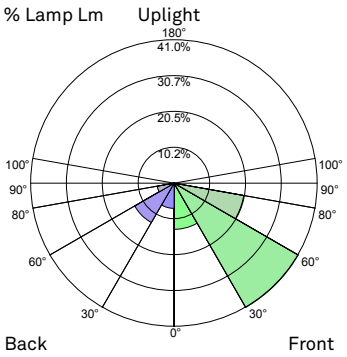
PHOTOMETRIC VALUE

LM-79 test and reports are performed in accordance with IESNA standards.

The gamma angles diagram refer to the flux of 6,000 lm.

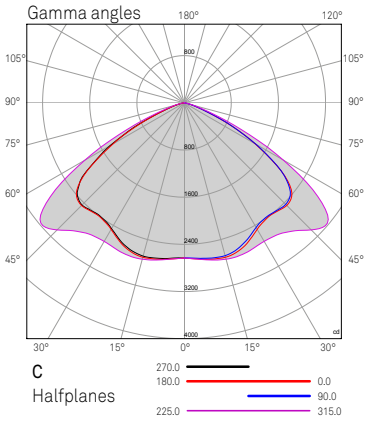
OPTIC NLG 17 - Type IV Short
Full Cutoff

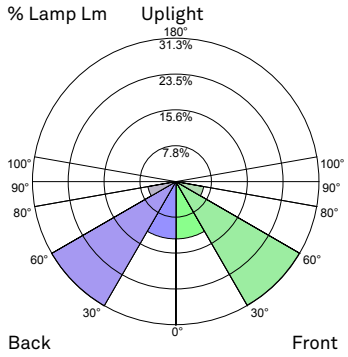




Luminaire Classification System (LCS)			
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	13.2%	13.2%
FM	30° - 60°	41.0%	41.0%
FH	60° - 80°	20.2%	20.2%
FVH	80° - 90°	0.3%	0.3%
BL	0° - 30°	6.1%	6.1%
BM	30° - 60°	7.2%	7.2%
BH	60° - 80°	13.0%	13.0%
BVH	80° - 90°	4.9%	4.9%
UL	90° - 100°	0.3%	0.3%
UH	100° - 180°	0.0%	0.0%
Totals		100.0%	100.0%
N1 - BUG: B1 U0 G1			
N2 - BUG: B1 U0 G1			
N3 - BUG: B1 U0 G1			
N4 - BUG: B2 U0 G1			
N5 - BUG: B2 U0 G2			

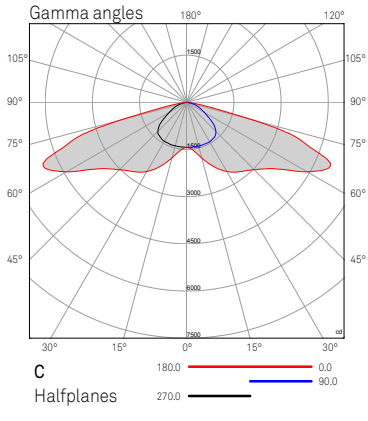
OPTIC NLG 18 - Type VS Very Short
Full Cutoff

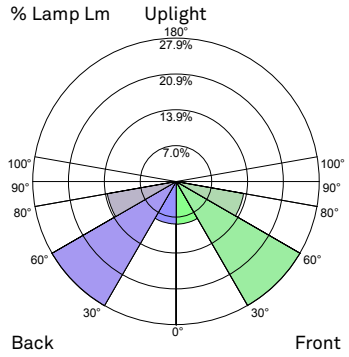




Luminaire Classification System (LCS)			
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	12.5%	12.5%
FM	30° - 60°	31.1%	31.1%
FH	60° - 80°	6.2%	6.2%
FVH	80° - 90°	0.1%	0.1%
BL	0° - 30°	12.5%	12.5%
BM	30° - 60°	31.3%	31.3%
BH	60° - 80°	6.2%	6.2%
BVH	80° - 90°	0.1%	0.1%
UL	90° - 100°	0.0%	0.0%
UH	100° - 180°	0.0%	0.0%
Totals		100.0%	100.0%
N1 - BUG: B2 U0 G0			
N2 - BUG: B2 U0 G0			
N3 - BUG: B2 U0 G0			
N4 - BUG: B2 U0 G0			
N5 - BUG: B3 U0 G0			

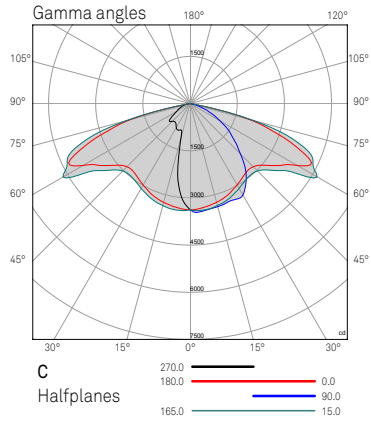
OPTIC NLG 19 - Type I Medium
Full Cutoff

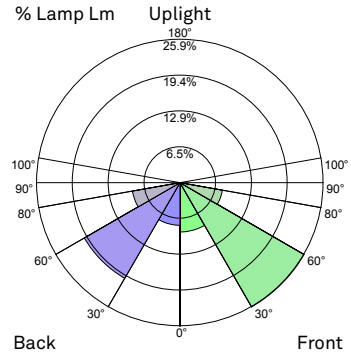




Luminaire Classification System (LCS)			
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	8.3%	8.3%
FM	30° - 60°	27.8%	27.8%
FH	60° - 80°	13.3%	13.3%
FVH	80° - 90°	0.4%	0.4%
BL	0° - 30°	8.2%	8.2%
BM	30° - 60°	27.9%	27.9%
BH	60° - 80°	13.6%	13.6%
BVH	80° - 90°	0.4%	0.4%
UL	90° - 100°	0.0%	0.0%
UH	100° - 180°	0.0%	0.0%
Totals		100.0%	100.0%
N1 - BUG: B1 U0 G1			
N2 - BUG: B2 U0 G2			
N3 - BUG: B2 U0 G2			
N4 - BUG: B3 U0 G3			
N5 - BUG: B3 U0 G3			

OPTIC NLG 20 - Type II Short
Full Cutoff





Luminaire Classification System (LCS)			
LCS Zone	Angles	% Lamp	% Lum
FL	0° - 30°	15.5%	15.5%
FM	30° - 60°	36.2%	36.2%
FH	60° - 80°	18.1%	18.1%
FVH	80° - 90°	0.3%	0.3%
BL	0° - 30°	8.6%	8.6%
BM	30° - 60°	13.5%	13.5%
BH	60° - 80°	7.6%	7.6%
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%
N1 - BUG: B1 U0 G1			
N2 - BUG: B1 U0 G1			
N3 - BUG: B2 U0 G1			
N4 - BUG: B2 U0 G2			
N5 - BUG: B2 U0 G2			

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