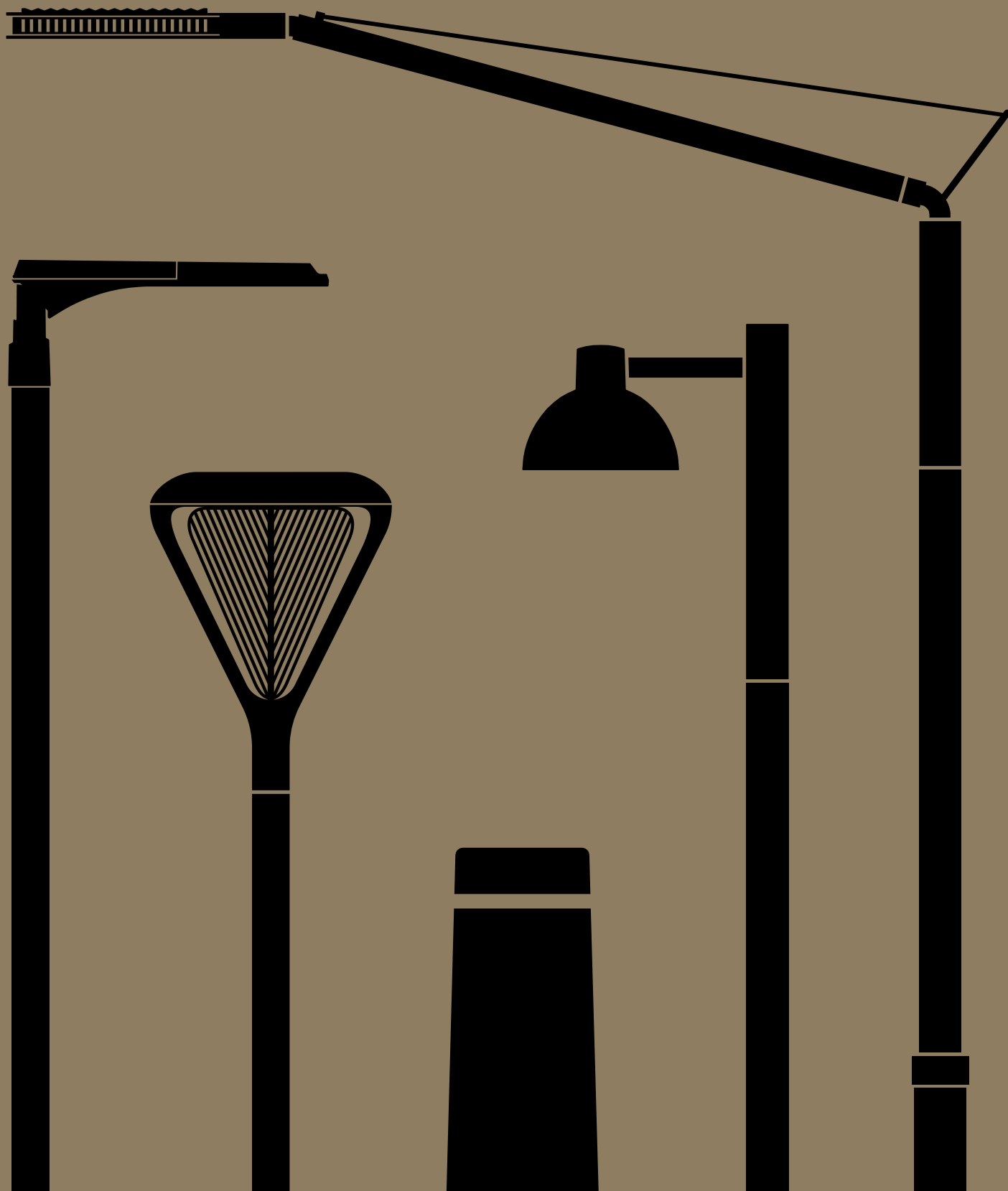


# NERI



## DESCRIPTION

## Compliance

- ENEC15 safety mark.
- In compliance with EN62031, EN62778, EN62717, EN61347-1, EN61347-2-13, EN62384.



## Mechanical information

Height	Width	Length	Weight	IP	IK	Area (S)
400 mm	375mm	375mm	10,5 Kg	66	08	→ 0,07 m <sup>2</sup> - ↑ 0,11 m <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos φ	Classe isolamento	Operative Temp.
230V	50/60 Hz	> 0.9	CL II □	-30... +40°C

- Classe I of insulation (on request).

## Fixing

- Suspended (with male G3/4 or with clevis).

## Materials

- Die-cast aluminum (UNI EN 1706).
- Extra-clear transparent flat glass (IK08 - EN 62262).
- Galvanized steel sheet.
- Polymethylmethacrylate (PMMA).
- Stainless steel fasteners.

## Structure – Main components

- Upper frame shaped bell in aluminum, and lower frame.
- Tilting frame for access to the electric and optical auxiliary compartment.
- Gasket between the upper and bottom frames.
- Osmotic valve for balance internal/external pressure.

## Electrical auxiliaries

- Support plates for LED module and wiring easily removables.
- Plate wiring with appropriate space for auxiliary devices of remote management.
- NFC Programmable electronic power supply with auto self diagnostics functions.
- Automatic electrical disconnecter when opening.
- Terminals for wires with a max. section of 2,5 mm<sup>2</sup>.
- Input power cable with cable gland PG16.

## Operations and maintenance

- During maintenance operations no screw or component is separated from the structure.
- Replaceable components in full (complete cover of LED module, wiring plate with driver).
- Please refer to the installation and maintenance manual of the product.
- It is responsibility of the installer the correct installation and electric connection in accordance with applicable regulations.

## Painting

- Standard colour: Neri Gray, on the upper part.
- Standard colour: White matt RAL 9010, on the lower part.
- Paint system (see specific technical sheet).

## Code construction

- To create the complete code of the configuration, insert sequential parts of the code on the configuration of the:

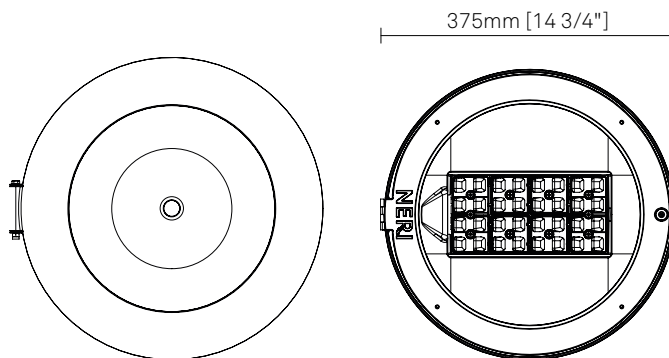
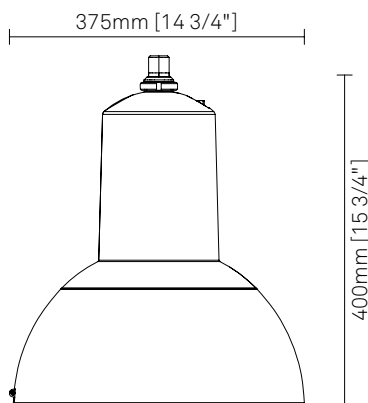
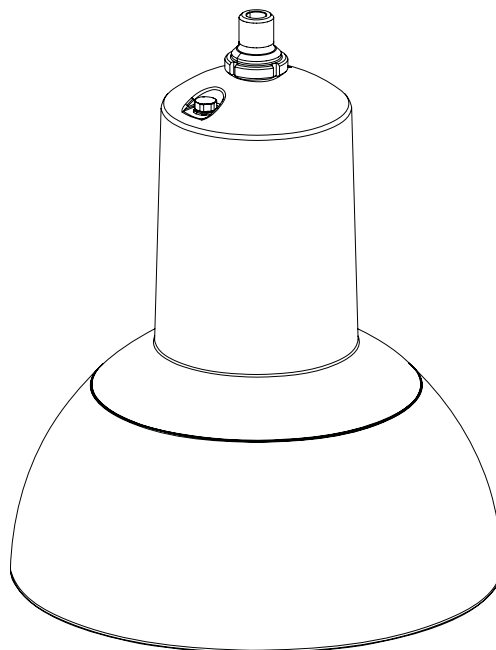
xx - Optic  
yyy - Luminous flux  
zz - Driver

Example: **SNN03L** xx yyz → SNN03L181N102

## Accessories

- Suspension System for installation on tightened cable: art. 4006.330.003

## DRAWINGS AND TECHNICAL INFORMATIONS



## DESCRIPTION

### Optic

Cod. XX	Lighting distribution	LOR	IES Class
17	Roadways and mixed areas (Type IV)	100%	Full Cutoff
18	Mixed areas – Rotosymmetrical (Type V)	100%	Full Cutoff
19	Roadways – Center road installation (Type I)	100%	Full Cutoff
20	Roadways – Side road installation (Type II)	100%	Full Cutoff
21	Roadways with sidewalk (Type III)	100%	Full Cutoff
22	Roadways with sidewalk (Type III)	100%	Full Cutoff

- Modular 2 X 2 refractive lens in PMMA.
- High efficiency reflector in plastic material for flux recovery and glare reduction.
- Minimum height installation: 2.9m.
- Maximum height installation: over 15 meters.

### Luminous flux

3000K	System*			LED module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
1N0	2,500	21	119	16	390	18
1N1	3,500	31	111	16	575	27
1N2	4,500	38	118	24	490	34
1N3	6,000	53	114	24	660	47
1N4	7,500	69	108	32	660	62

### Luminous flux

4000K	System*			LED module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
3N0	2,500	19	134	16	350	16
3N1	3,500	27	130	16	500	23
3N2	4,500	35	129	24	435	30
3N3	6,000	48	124	24	610	43
3N4	7,500	61	124	32	580	54
3N5	9,000	77	117	32	740	69

- \* The energetic values in the table relative to the fixture are referred to the LED module + driver.
- Power LEDs module on printed circuit board with metal core plate.
  - Internal heat sink in cast aluminium in continuity with external frame.
  - NTC sensor on LED plate for control of dangerous temperatures.
  - Estimated life (EN 62722-2-1, LM80 data): 100,000h L85B50 (Tq = 25°C).
  - Colour Rendering Index: CRI > 70 within the 5 ellipses of Mac Adam.
  - Efficiency of individual LEDs: 166 lm/W (4000K) - 150 lm/W (3000K) a 85°C, 350mA.
  - Photobiological risk (IEC/TR 62778): class RG1 to class RG2 at 2,6m from source.
  - Photobiological risk (EN62471): class RG0 over 3.2m.

### Driver

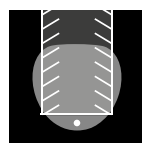
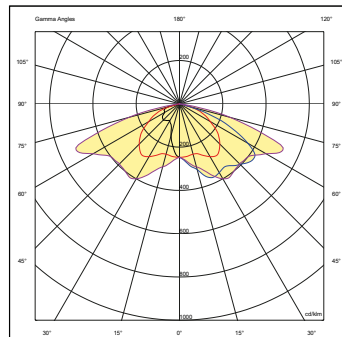
Cod. ZZ	Driver functions
02	1-10V + NCL (Analogic control + Neri costant lumen)
06	DALI + NCL (Digital control + Neri costant lumen)
14	NVL + NCL (autodimming -30% x 6h + Neri costant lumen)

- Standard surge protection for differential/common mode 6kV/8kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated Duration B10 to 100,000 h.

## PHOTOMETRIC CURVES

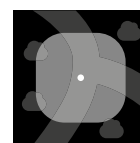
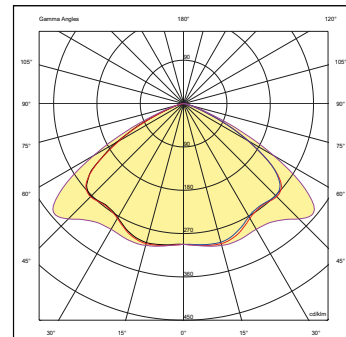
### Type IV (NLG 17)

Roadways and mixed areas



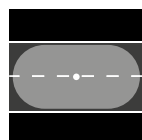
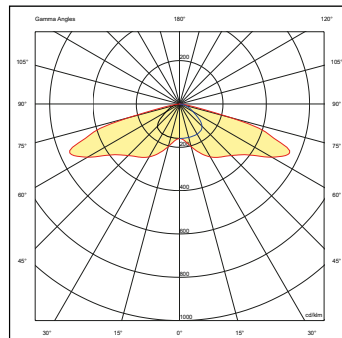
### Type V (NLG 18)

Mixed areas – Rotosymmetrical



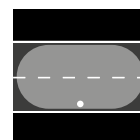
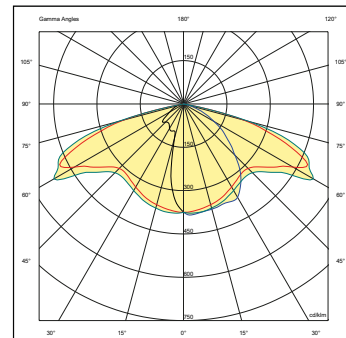
### Type I (NLG 19)

Roadways – Center road installation



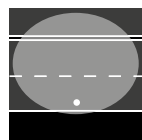
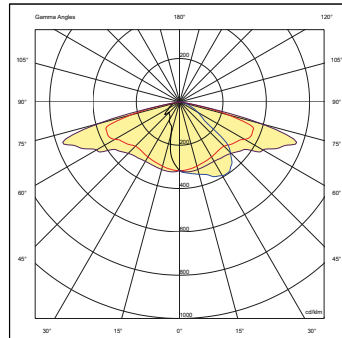
### Type II (NLG 20)

Roadways – Side road installation



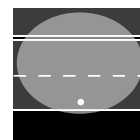
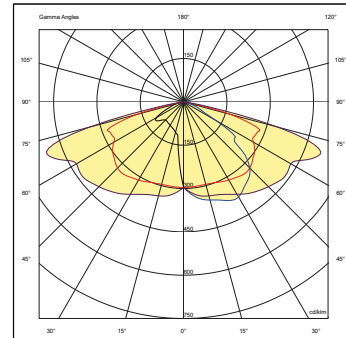
### Type III (NLG 21)

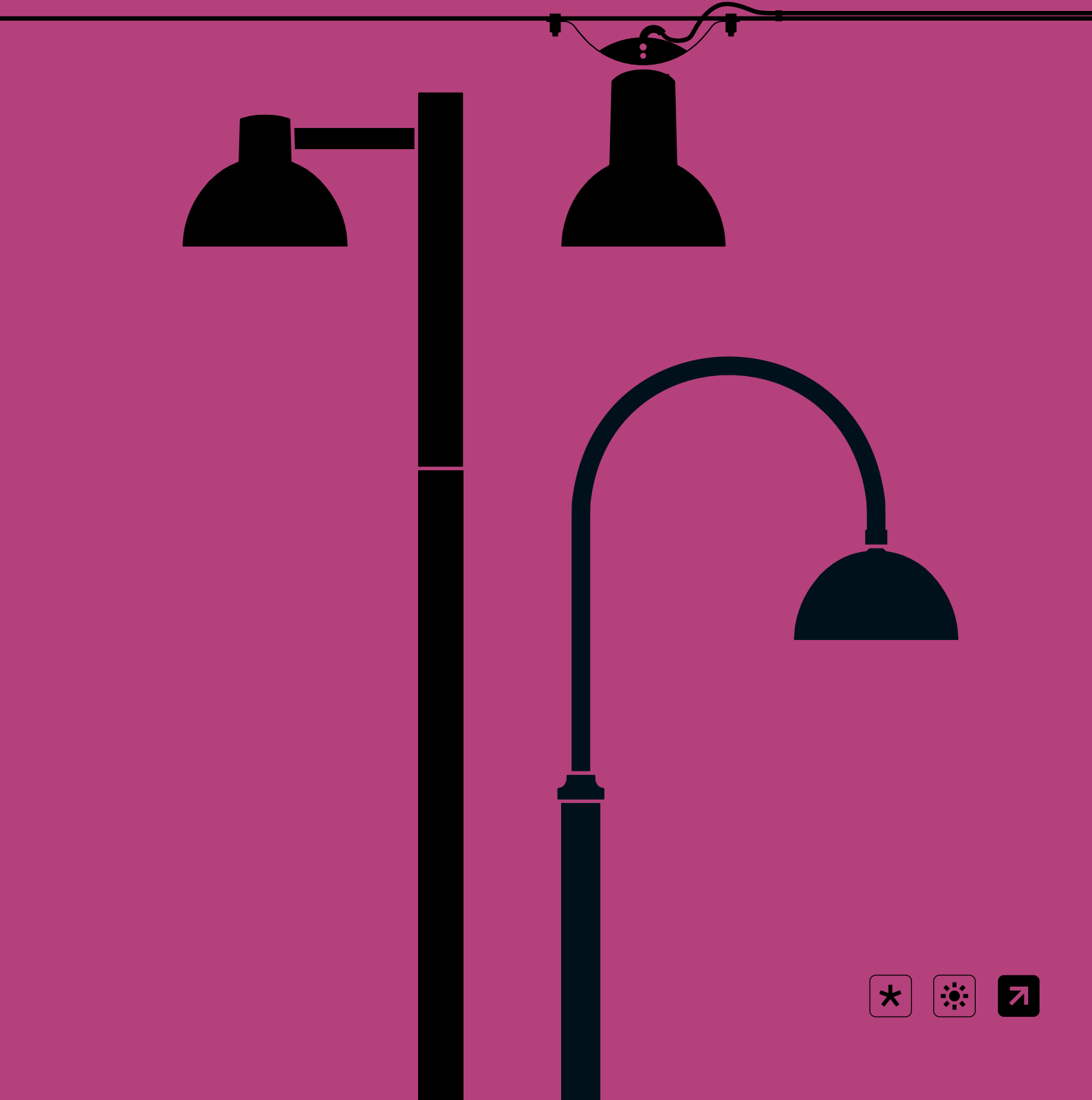
Roadways with sidewalk



### Type II (NLG 22)

Roadways with sidewalk





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**Timeless and familiar design, versatile and robust, low power consumption and reduced glare.**

**Nova system performs outstandingly against the most stringent standards in energy-efficient urban lighting.**

**Able to elegantly blend into its surrounding, the system three luminaire types, three configurations and six different optics give Nova the unique capacity to meet any installation requirements.**

DECORATIVE



COMFORT



PERFORMANCE



NOVA

Scale 1:20  
Dimensions in mm/in

The system features three luminaire types with LED lights and different post heights, with either a linear or a swan neck bracket.

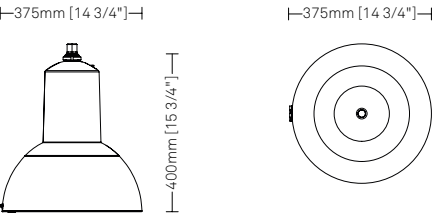
Materials

The posts are made of steel, with components made of cast iron, while the luminaires are made of die-cast aluminium.

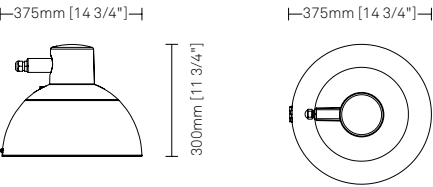
Finishes

The standard colour is the so-called Neri Grey that is obtained from a chromatic combination, which has been developed after a long aesthetic research. The posts are painted using a water-based and highly eco-friendly process.

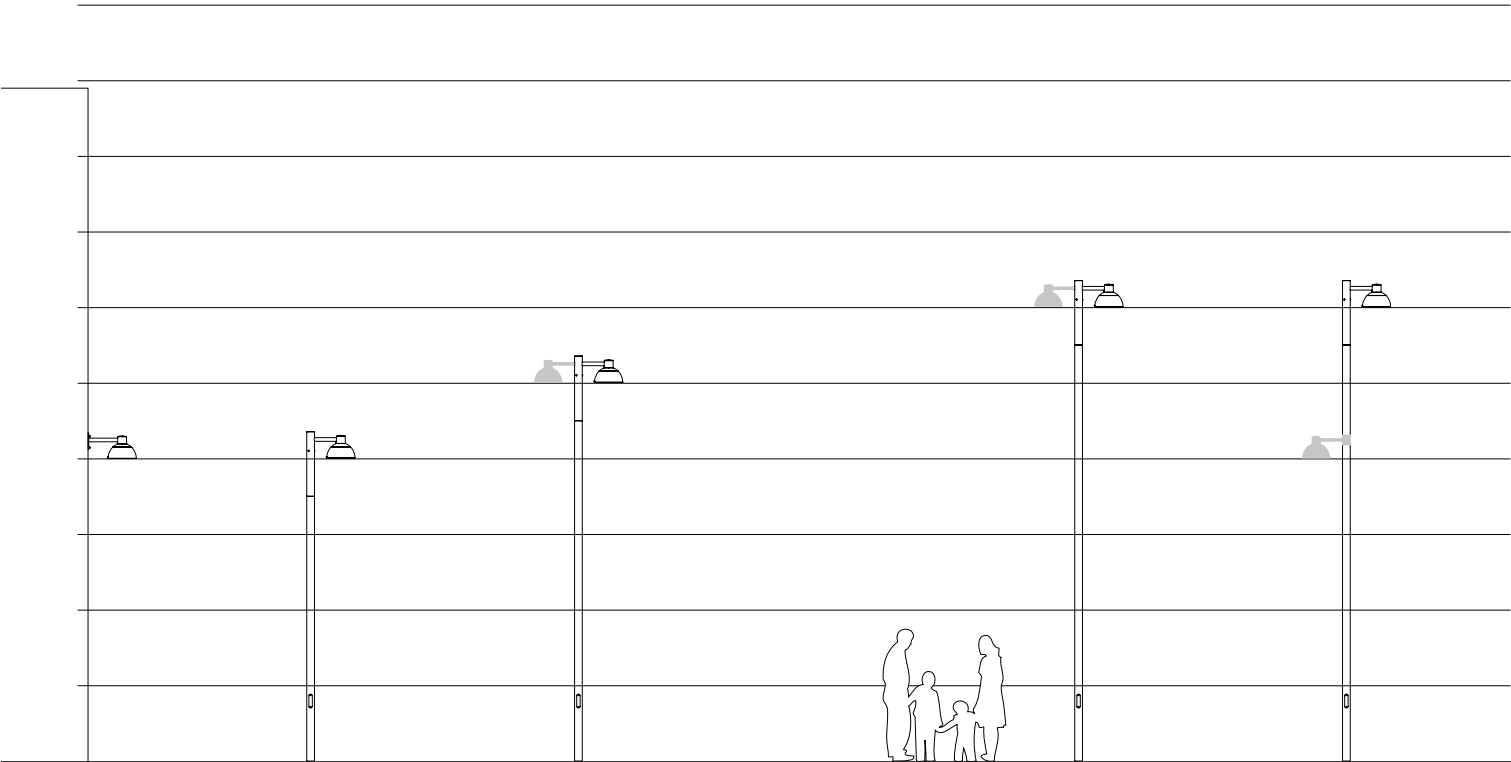
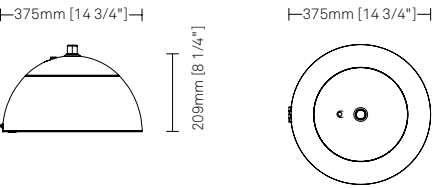
Nova – SNN03



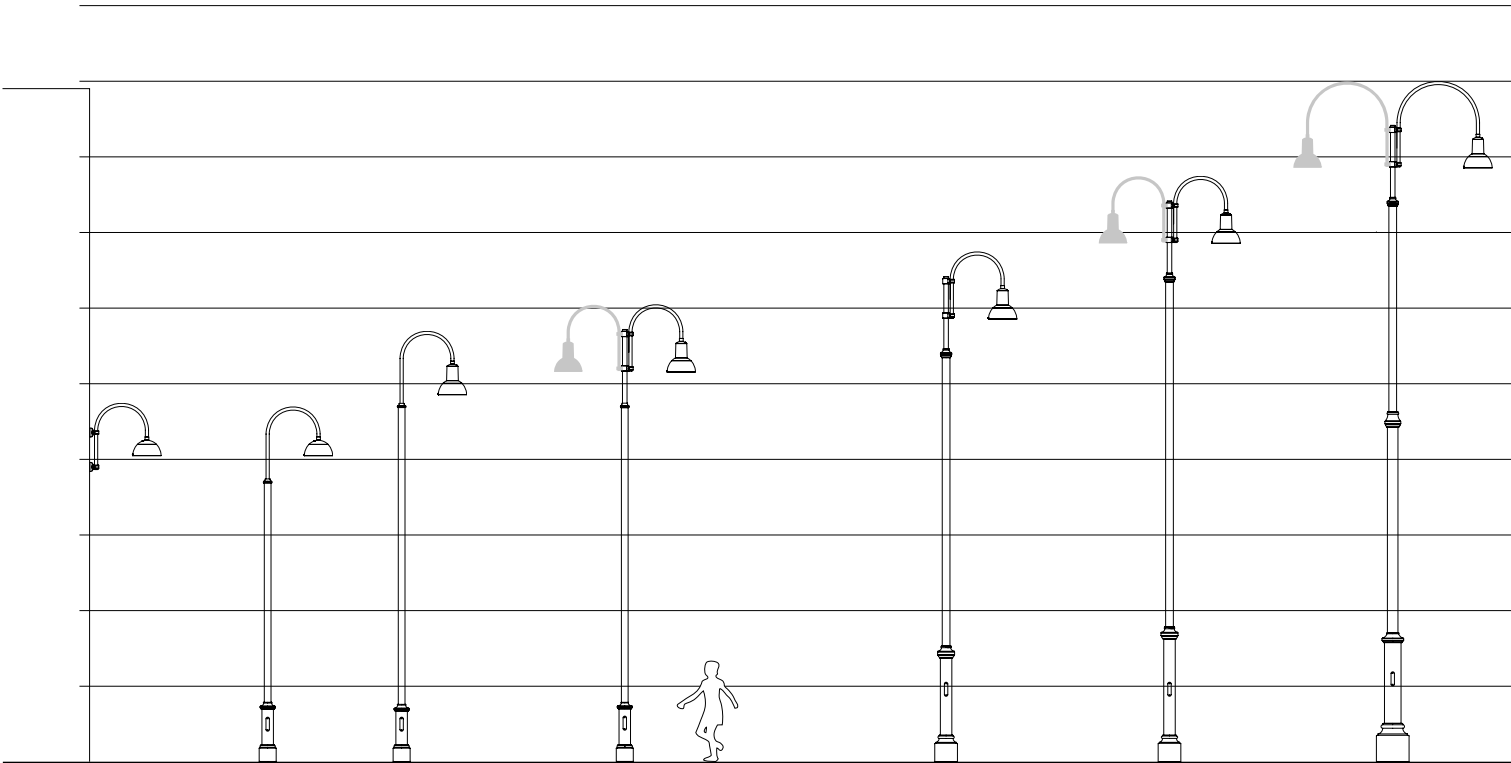
Nova M – MNN13



Nova S – SNN23



Nova.W01      Nova.01      Nova.02      Nova.03      Nova.03 with halfway bracket



Nova.W02      Nova.04      Nova.05      Nova.06      Nova.07      Nova.08      Nova.09



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## **Versions**

Suspended, catenary, side-entry

## **Applications**

Roads, squares and parks, pedestrian and cycling paths, residential areas, retail, offices

## **Performance**

Latest generation LED technology combined with multilayer lenses, energy savings, heat dissipation

## **Maintenance**

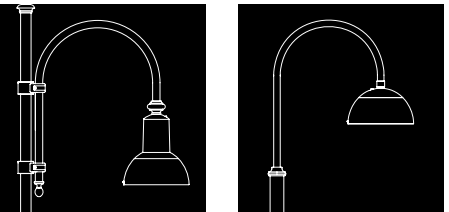
Ease of installation and parts replacement



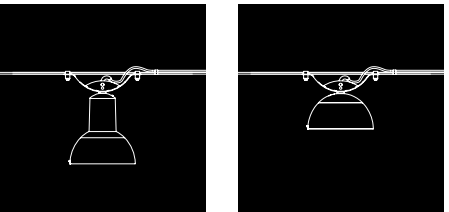
VERSIONS

Nova is designed to adapt to the different scenarios typical of cities and to guarantee consistency throughout thank to the different versions and related accessories available: suspended (with male G3/4), catenary, side-entry (column or wall).

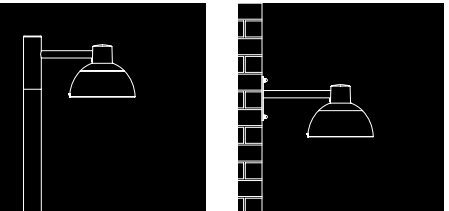
Suspended with male G3/4



Catenary



Side-entry column/wall







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The size of the luminaire designed for the side-entry version allows installations at lower heights, making Nova versatile and ideal for both outdoor and indoor.

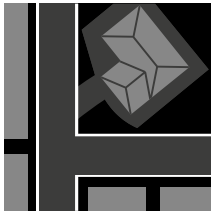
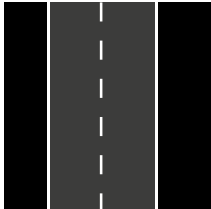
APPLICATIONS

**Roads**  
High efficiency and reduced glare are guaranteed for the different road optics.

**Squares and parks**  
Uniform light with high colour rendering makes public spaces pleasant and safe to enjoy.

**Pedestrian and cycling paths**  
Light is concentrated on the path, so that disturbances and visual pollution of green areas are prevented. Effective illumination is guaranteed in harmony with the surroundings.

**Residential areas, retail, offices**  
The combination of functionality and aesthetics allows the product to integrate easily in architectural contexts, either outdoors or indoors.





## MULTILAYER TECHNOLOGY

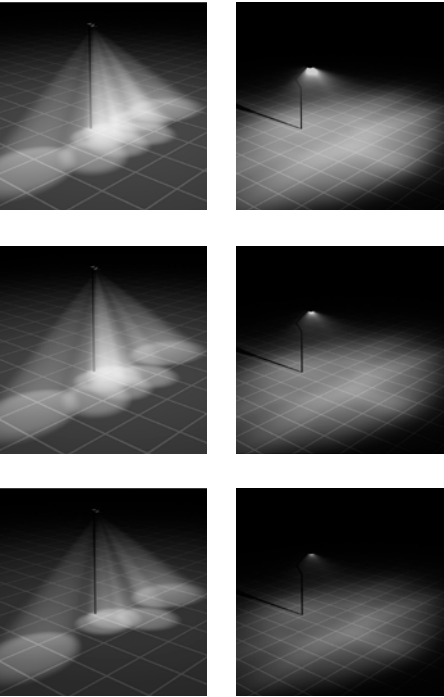
Reduced glare thanks to the wide emission surface. Latest generation LED Cree XP-G2 and PMMA multilayer lenses provide high and constant performance over time, even in case of failure of a single source.

The optical system is composed of overlapping PMMA lenses with high performance and constant light transmission.

Nova is equipped with highly efficient latest generation of LED Cree XP-G2 positioned on a ceramic base to provide high thermal conductivity and electrical insulation for a longer service life.

The wide emission surface and the perimeter reflector increase the emission efficiency maintaining reduced glare values.

Customised distributions of light can be obtained thanks to the flexibility in composing the lenses.



On the left, from top to bottom, diagrammatic views of LEDs without multilayer lenses. On the right, from top to bottom, LEDs with multilayer lenses.

PERFORMANCE:  
ENERGY SAVING

Proper management  
of electronic luminous flux  
means benefits in terms  
of energy saving and life  
cycle of the product.

Thanks to electronic ballasts equipped  
with intelligent systems the lighting  
management guarantees high energy  
savings. The driver chosen for Nova can  
be equipped with the features below:

NCL (Neri Constant Lumen)  
Keeping flows consistent

The driver allows the initial flow to be kept  
consistent throughout the product life cycle  
by calibrating the current supply of the  
LEDs and ensuring the same luminous  
flux over time.

NVL (Neri Variable Lighting)  
Stand-alone setting

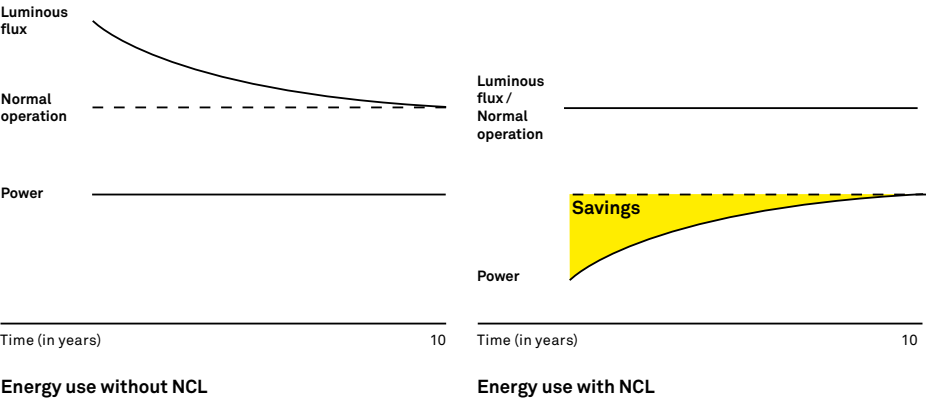
The driver is equipped with a stand-alone  
control that automatically adjusts the light  
flow during the operational period, which is  
automatically set according to the seasons.  
The standard control uses step dimming,  
and up to 5 dimming levels on request.

DALI, 1-10V  
Remote lighting management system  
With the two-way digital DALI protocol  
lighting levels can be adjusted, consumption  
and system diagnostics monitored. By the  
analog signal 1-10V, the illumination levels  
regulation is enabled. Inside the products  
on the cabling board, space has been  
made to accommodate an electronic unit  
for remote management functionalities.



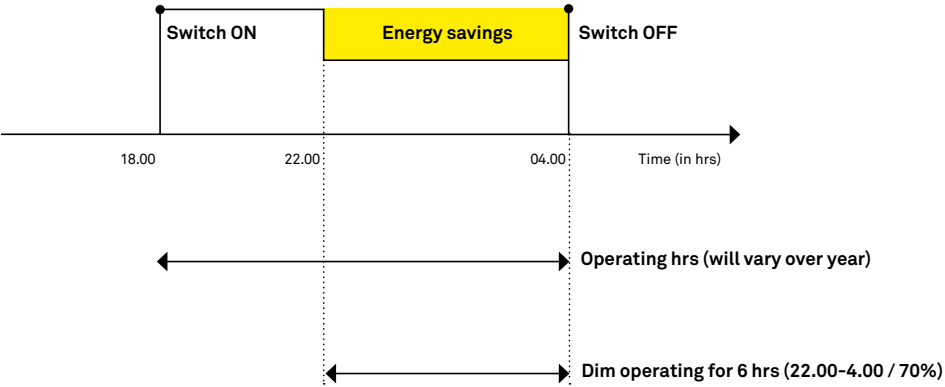
Driver Philips  
Xitanium Constant  
Current Xtreme

NCL - KEEPING FLOWS CONSISTENT



The light output of the  
system is kept consistent  
throughout the life of  
the product by acting  
on the current supplied  
and compensating for  
the decay of the source.

NVL - STAND-ALONE SETTING



Dimming preset cycle:  
from the switching  
on to 22:00 the 100%  
of luminous flux is  
guaranteed; from 22:00  
until shut-down the  
guaranteed flux is 70%.

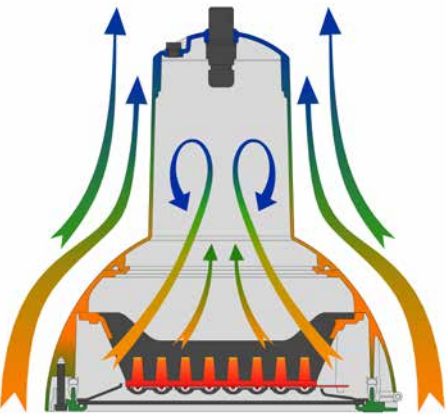



PERFORMANCE:  
HEAT DISSIPATION


Thermal management is critical to the proper functioning and long life of LED sources. Nova is equipped with a heat dissipation system able to maintain the junction temperature low, extending in this way the life of the light source.

The heat dissipation works by conduction: the aluminum body of the heat sink allowing the exchange of heat with the outside, while the shape of the internal structure allowing natural air circulation and minimising accumulation of localised heat.

Because of such a heat dissipation system is able to keep the LED junction temperature below the limits that guarantee the expected useful life, the luminaire can be used at temperatures up to 50°C.



 conduction

 air circulation





MAINTENANCE

Luminaire opening



During the maintenance operations no screw or component separates from the luminaire structure. A routine maintenance, other than cleaning the outside of the structure and the screen from dust and smog, is not required.



To access the optic simply unscrew and rotate the frame.



Automatic disconnecter takes off electricity at electrical component.

Removing gear tray



The gear tray is fully replaceable by simply disconnecting the two connectors and loosening the screws holding it.

The luminaire can also be refitted via a simple replacement of the wiring and/or the LED module.





TECHNICAL FEATURES

Fixing

- Suspended (with male G3/4 or with clevis)
- Catenary
- Side-entry (column or wall)

Materials

- Die-cast aluminum
- Extra-clear transparent flat glass
- Fixing elements in stainless steel
- Internal reflector in PC

Finishes

- Top in Neri Grey, bottom in white RAL 9010 (SNN03L, MNN13L)
- Colour RAL 9010 (SNN23L)

Main components

- Aluminum frame with fixing and heat dissipation function
- Opening aluminium lower ring with screen to access wiring and optical compartment
- Silicone gasket between top and bottom parts
- Screen is flat glass with impact resistance IK08
- Plastic reflector to recover flux and reduce glare
- 2x2 refractive modular lenses in PMMA
- Osmotic valve to balance internal/ external pressure
- Appropriate space for any auxiliary for remote control devices (Smart City Ready) and additional surge protection devices

Electrical auxiliaries

- Programmable electronic power supply with auto diagnostic function
- Automatic disconnecter when opening
- Terminals wires max. section of 2.5mm²
- PG16 cable gland
- Surge protection for differential/ common mode up to 10kV/10kV

Power supply

- Estimated life (EN 62722-2-1, LM80 data): 100.000h L85B10 (Tq = 25°C)





TECHNICAL FEATURES:  
LED MODULE

MAIN TECHNICAL DATA



**SUPPLY VOLTAGE**  
230V, 50/60Hz frequency

**SURGE PROTECTION**  
6kV L-N / 10kV L/N-frame

**POWER SUPPLY**  
Programmable electronic

**POWER FACTOR CORRECTION**  
PFC > Cos φ 0.9

**ELECTRICAL INSULATION**  
Class II

**ENCLOSURE PROTECTION**  
Water and dust IP66  
Mechanical impacts IK08

**PLANNING INFORMATION**  
For information related to the combinations between flux size options, power and colour temperature see the web site

–

Neri SpA reserves the right to modify its products and documentation without obligation to give prior warning

Performance

SCREEN SHAPE			
EXTRA-CLEAR TRANSPARENT FLAT GLASS – Full Cutoff			
OPTIC SYSTEM			
TYPE I – SYMMETRIC ROAD (NLG 28)			
TYPE II – ASYMMETRIC ROAD OR CYCLE PATH (NLG 20)*			
TYPE III – ASYMMETRIC ROAD (NLG 21)			
TYPE III – ASYMM. ROAD WITH SIDEWALK AND CYCLE PATH (NLG 22)*			
TYPE IV – STRONG ASYMMETRIC (NLG 17)*			
TYPE V – ROTOSYMMETRICAL (NLG 18)			
COLOUR TEMPERATURE			
3,000K			
4,000K			
FLUX SIZES			
3,000K	2,500lm	21W	119lm/W
3,000K	3,500lm	31W	111lm/W
3,000K	4,500lm	38W	118lm/W
3,000K	6,000lm	53W	114lm/W
3,000K	7,500lm	69W	108lm/W *
4,000K	2,500lm	19W	134lm/W
4,000K	3,500lm	27W	130lm/W
4,000K	4,500lm	35W	129lm/W
4,000K	6,000lm	48W	124lm/W
4,000K	7,500lm	61W	124lm/W *
4,000K	9,000lm	77W	117lm/W *
DRIVER FUNCTIONS			
1 - 10V + NCL			
DALI + NCL			
NVL + NCL			
ELECTRICAL DEVICES			
AUTOMATIC DISCONNECTOR			

\* Options available only for SNN03L and MNN13L versions.

Planning

TYPE I – SYMMETRIC ROAD (NLG 28)						
CLASS	H 6.5m, W 6m		TI (%)	H 7m, W 7m		TI (%)
	Spacing	Flux		Spacing	Flux	
C2	28m	9,000lm	-	-	-	-
C3	-	-	-	33m	9,000lm	-
M3	28m	6,000lm	14%	31m	7,500lm	12%
M4	28m	4,500lm	12%	-	-	-

TYPE II – ASYMMETRIC ROAD OR CYCLE PATH (NLG 20)					
CLASS	H 7m, W 6m		H 7m, W 7m		
	Spacing	Flux	Spacing	Flux	
CE2 (20 lux)	32m	9,000lm	30m	9,000lm	
ME3b	30m	9,000lm	26m	6,000lm	
ME4a	30m	6,000lm	-	-	
S1	36m	7,500lm	36m	7,500lm	
S2	41m	7,500lm	41m	7,500lm	

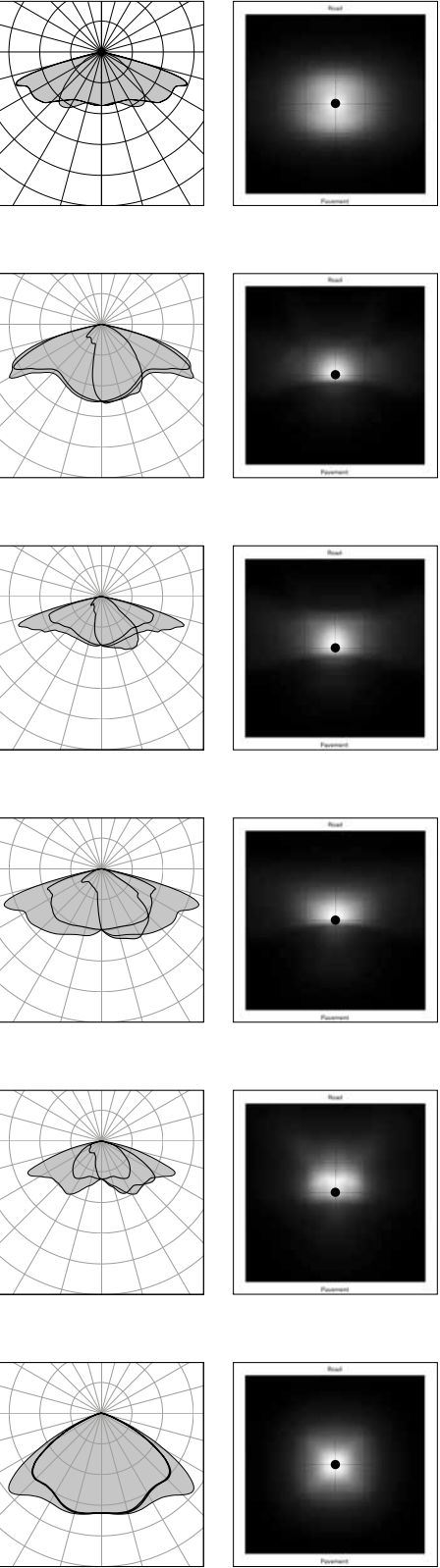
TYPE III – ASYMMETRIC ROAD (NLG 21)					
CLASS	H 7m, W 8m		H 7m, W 9m		
	Spacing	Flux	Spacing	Flux	
CE2 (20 lux)	28m	9,000lm	29m	9,000lm	
CE4 (10lux)	28m	4,500lm	29m	4,500lm	
ME3b	24m	6,000lm	24m	9,000lm	

TYPE III – ASYMM. ROAD WITH SIDEWALK (a) AND CYCLE PATH (b) (NLG 22)								
CLASS	H 7m, W 7m		W 2m W 2m		H 8m, W 7m		W 2m W 2m	
	Spacing	Flux	(a)	(b)	Spacing	Flux	(a)	(b)
CE1 (30 lux)	21m	9,000lm	S1	S2	23m	9,000lm	S2	S4
CE2 (20lux)	27m	9,000lm	S2	S2	24m	7,500lm	S2	S4
ME3b	26m	7,500lm	S2	S3	22m	7,500lm	S2	S4

TYPE IV – STRONG ASYMMETRIC (NLG 17)					
CLAS	H 7m, W 15m		H 8m, W 15m		
	Spacing	Flux	Spacing	Flux	
S1	21m	9,000lm	24m	9,000lm	
S2	18m	7,500lm	23m	6,000lm	

TYPE V – ROTOSYMMETRICAL (NLG 18)						
CLASS	H 7m		H 8m		H 4m	
	Spacing	Flux	Spacing	Flux	Spacing	Flux
S1	-	-	24x24	9,000lm	-	-
S2	22x22	9,000lm	24x24	7,500lm	14x14	3,500lm
S4	-	-	-	-	16x16	3,500lm

Photometric light distribution



SURGE PROTECTION

In the street lighting area, because of their exposed position, the devices are subject to voltage surges and external disturbances (discontinuous insertion of loads on the line, faults on the lines up or downstream, direct or nearby lightning) that may cause damage or malfunctions. Furthermore, in the LED lighting devices, where electronic components are predominant, resistance to voltage surges becomes even more necessary.

Given a class I or class II system, the installed device must correspondingly be a class I or class II device (recommended from a product protection point of view).

Protection of Neri products

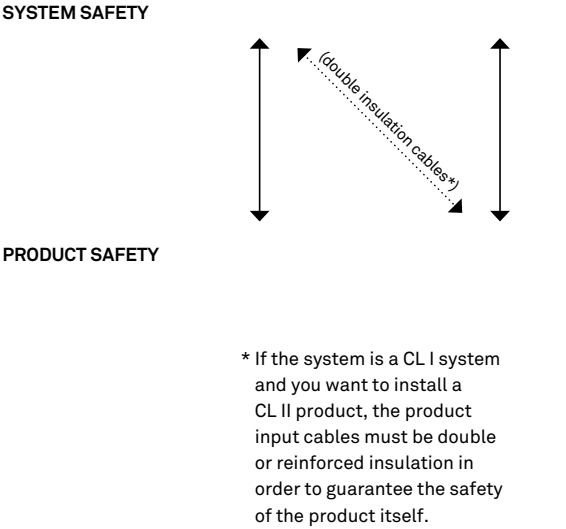
CL II 6kV/10kV (standard protection)

- Equipotential connection useful for protecting drivers and LED modules
- Use of components approved by safety standards
- Additional differential protection can inserted up to 10kV/10kV

CL I 6kV/10kV (standard protection)

- Protective earth connection
- Presence of SPD to guarantee 10kV/10kV (on request)

The supplementary power dischargers (SPD) can be present only on class I devices and systems, since they have the function of discharging the overvoltage energy to ground. Ground tests must therefore be conducted on every product.



NERI LUMINAIRE	DM/CM STANDARD PROTECTION	DM/CM CUSTOM PROTECTION
CLASS II	6kV/10kV	10kV/10kV
CLASS I	6kV/10kV	10kV/10kV

HIGHLIGHTS

Main features

- Nova is a *Performance* category device
- Particularly suited for roads and lanes with mixed traffic, and for different urban contexts, from the city centre to residential areas
- Designed in full compliance with the lighting standards, with minimal energy consumption, using LEDs and high performance optical solutions
- Designed to reduce glare, without compromising the lighting effectiveness

Flux sizes

- The main factors in lighting design are system flux and photometry
- Neri presents products with their flux sizes and photometries, to ensure values and geometries remain constant over time

This approach allows:

- Same flux regardless of the solution chosen
- Adoption of the best technology on the market

Multilayer

Nova adopts a technology with multilayer lenses:

- Each LED is associated to a lens
- All lenses are equal and cover the entire area to be illuminated; in case of failure of a single source, there is no loss in the uniformity of illumination on the ground

Light emitting area

The glaring effect, typical of the individual point sources, is drastically reduced due to some technical devices:

- White color PCB
- Perimeter reflector
- Large light emitting area



VERSIONS AND CODES

In order to configure the Nova luminaire, type of mounting, optic, luminous flux related to colour temperature and driver functions need to be chosen. Their related codes have then to be added in sequence one to the other, following the order of the tables below, starting from type of mounting (eg: **SNN03L**), optic (eg: **17**), luminous flux (eg: **1N1**) and driver (eg: **02**). The code of the chosen configuration will be: **SNN03L 17 02 1N1**.

Nova – Performance

CODE	Mounting
SNN03L	G3/4
SNN23L	G3/4
MNN13L	Side-entry

CODE	Optic
17*	Type IV
18	Type V
20*	Type II
21	Type III
22*	Type III
28	Type I

CODE	CCT	Flux
1N0	3,000K	2,500lm
1N1	3,000K	3,500lm
1N2	3,000K	4,500lm
1N3	3,000K	6,000lm
1N4*	3,000K	7,500lm
3N0	4,000K	2,500lm
3N1	4,000K	3,500lm
3N2	4,000K	4,500lm
3N3	4,000K	6,000lm
3N4*	4,000K	7,500lm
3N5*	4,000K	9,000lm

CODE	Driver functions
02	1-10V + NCL
06	DALI + NCL
14	NVL + NCL

The product with male G3/4 can be mounted directly on different Neri systems. The side-entry product can be mounted on different Neri systems using specific brackets.

\* Options available only for SNN03L and MNN13L versions.



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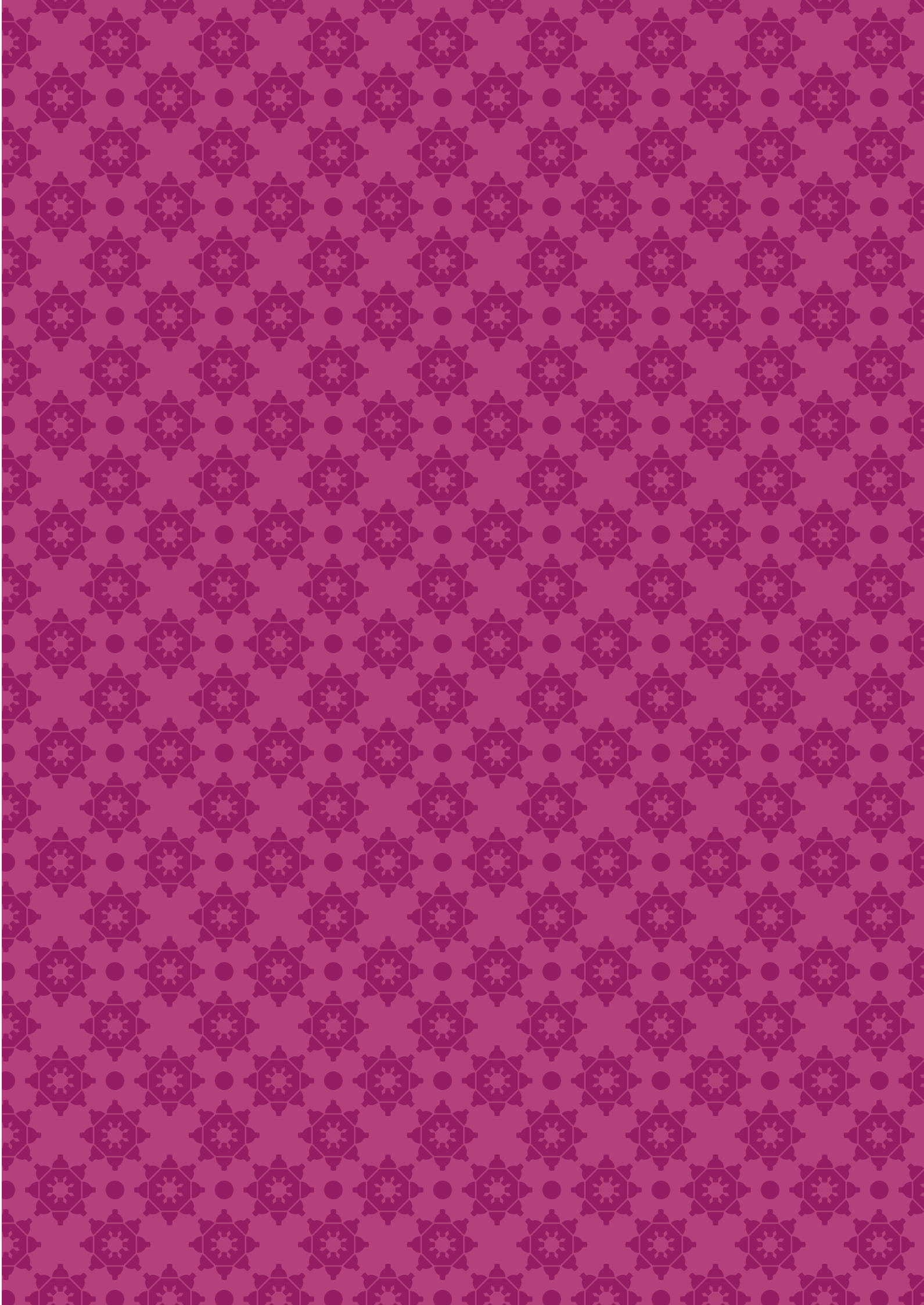
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## DESCRIPTION


## Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.

## Mechanical information

Height	Width	Length	Weight	IP	IK	Area
900mm	352mm	305mm	61kg	65	08	0.3 m <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-277V	50/60Hz	> 0.9	CL II 	-40°C/+45°C

## Fixing

- On the ground
- Distance between holes 200 mm and Ø15 mm.

## Materials

- Concrete (NeriConcrete)
- Prismatic flat glass (IK08 - EN 62262).
- Stainless steel fastening elements.

## NERICONCRETE

## Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

## Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

## Realization

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

## Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

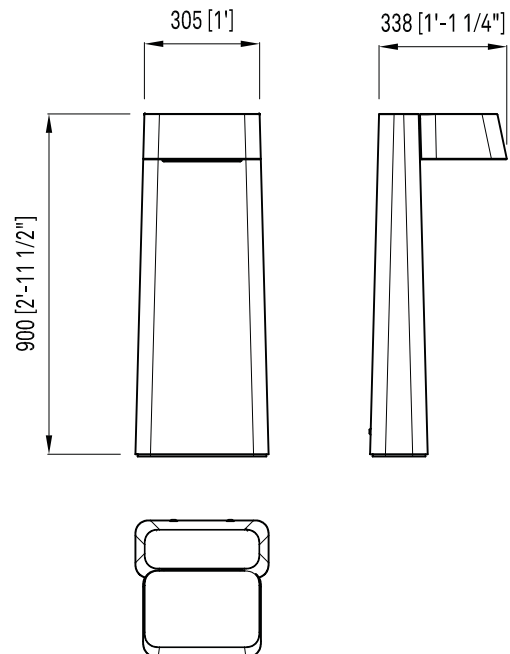
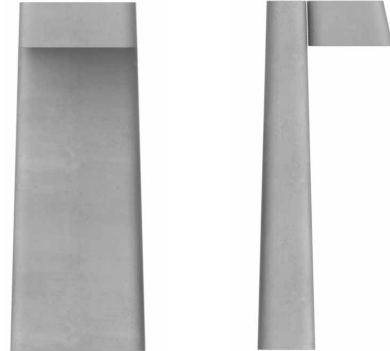
## Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

## Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS



## DESCRIPTION

## Optic

Lighting distribution	LOR	IES Class
Asymmetric (Type IV)	100%	Cutoff

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	1321	26	50	18	450	23

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	1416	26	54	18	450	23

- Light source: power LEDs (DMC Nichia)
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L80 B10 80.000h
- Colour Rendering Index: Ra > 80.

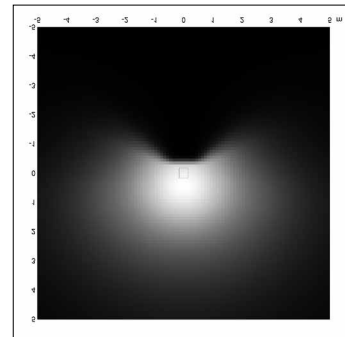
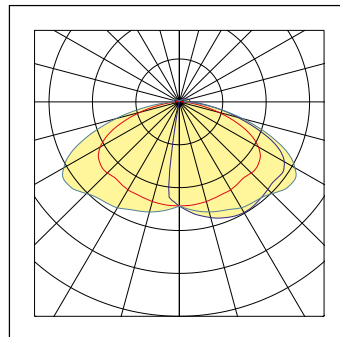
## Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II).
- Estimated life B10 at 100,000 h.

## PHOTOMETRIC CURVES

## Type IV - Asymmetric



# NERI

Brenta  
Illuminating Bollard  
Size L

Fixing: On ground  
Source: LED-P

Technical sheet  
Rev.02 - 2018/12/06  
Preliminary

## DESCRIPTION

### Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.



### Mechanical information

Height	Width	Length	Weight	IP	IK	Area
600mm	305mm	338mm	43kg	65	08	0.3 m <sup>2</sup>

### Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-277V	50/60Hz	> 0.9	CL II	-40°C/+45°C

### Fixing

- On the ground  
- Distance between holes 200 mm and Ø15 mm.

### Materials

- Concrete (NeriConcrete)  
- Prismatic flat glass (IK08 - EN 62262).  
- Stainless steel fastening elements.

## NERICONCRETE

### Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

### Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

### Realization

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;  
- Polymeric fibers;  
- Colored pigments;  
- Water.

### Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

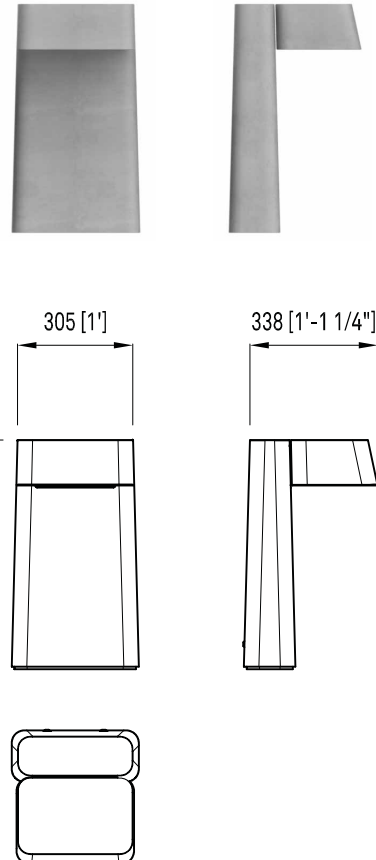
### Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

### Finish

- Concrete  
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS





## DESCRIPTION

## Optic

Lighting distribution	LOR	IES Class
Asymmetric (Type IV)	100%	Cutoff

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	1321	26	50	18	450	23

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	1416	26	54	18	450	23

- Light source: power LEDs (DMC Nichia)
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L80 B10 80.000h
- Colour Rendering Index: Ra > 80.

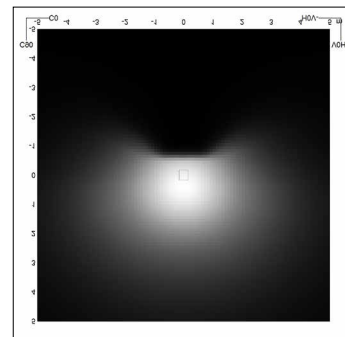
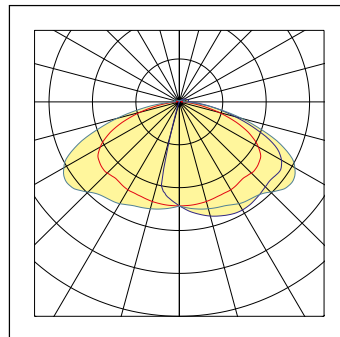
## Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II).
- Estimated life B10 at 100,000 h.

## PHOTOMETRIC CURVES

## Type IV - Asymmetric



## DESCRIPTION


## Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.

## Mechanical information

Height	Width	Length	Weight	IP	IK	Area
600mm	165mm	239mm	19kg	65	08	0.108 m <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
120V-277V	50/60Hz	> 0.9	CL II 	-40°C/+45°C

## Fixing

- On the ground
- Distance between holes 120 mm and Ø15 mm.

## Materials

- Concrete (NeriConcrete)
- Prismatic flat glass (IK08 - EN 62262).
- Stainless steel fastening elements.

## NERICONCRETE

## Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

## Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

## Realization

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

## Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

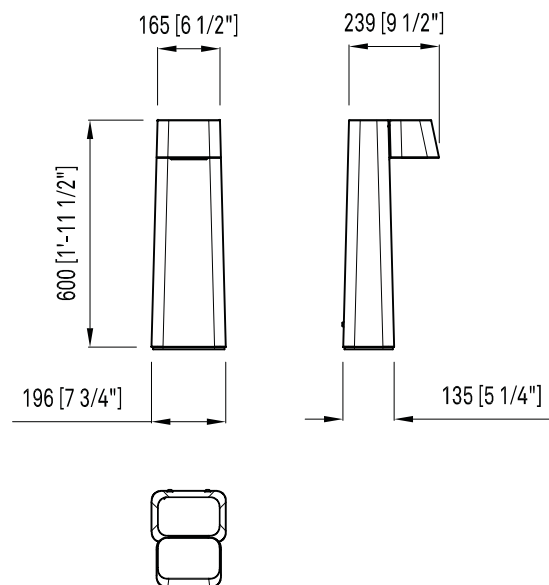
## Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

## Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS



## DESCRIPTION

## Optic

Lighting distribution	LOR	IES Class
Asymmetric (Type II)	100%	Cutoff

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	966	13	76	2	450	11

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	1036	13	82	2	450	11

- Light source: power LEDs (XHP-50.2 CREE)
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L80 B10 80.000h
- Colour Rendering Index: Ra > 80.

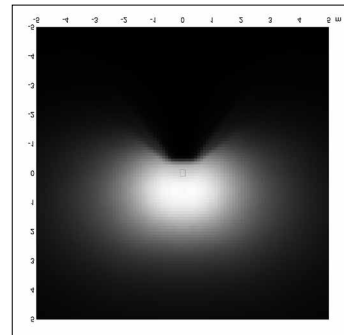
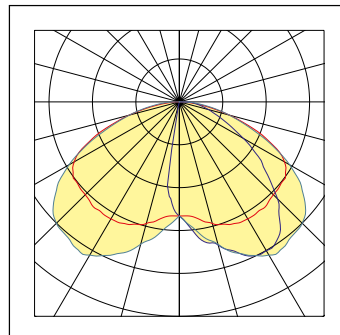
## Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II).
- Estimated life B10 at 100,000 h.

## PHOTOMETRIC CURVES

## Type II - Asymmetric



## DESCRIPTION

## Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.



## Mechanical information

Height	Width	Length	Weight	IP	IK	Area
300mm	165mm	239mm	11kg	65	08	0.052 m <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-277V	50/60Hz	> 0.9	CL II	-40°C/+45°C

## Fixing

- On the ground
- Distance between holes 100 mm and Ø15 mm.

## Materials

- Concrete (NeriConcrete)
- Prismatic flat glass (IK08 - EN 62262).
- Stainless steel fastening elements.

## NERI CONCRETE

## Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

## Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

## Realization

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

## Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

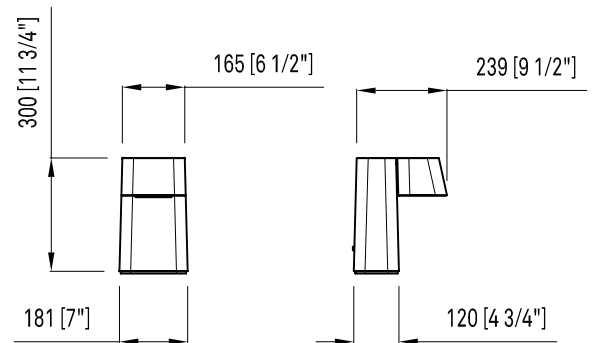
## Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

## Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS



## DESCRIPTION

## Optic

Lighting distribution	LOR	IES Class
Asymmetric (Type II)	100%	Cutoff

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	987	13	78	2	450	11

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	1058	13	83	2	450	11

- Light source: power LEDs (XHP-50.2 CREE)
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L90 B10 80.000h
- Colour Rendering Index: Ra > 80.

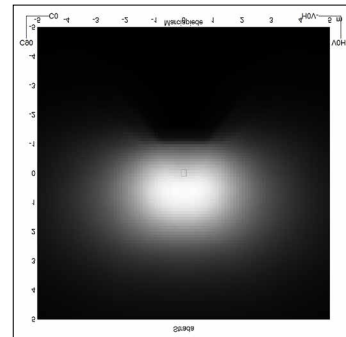
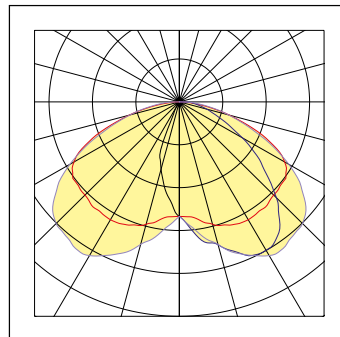
## Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II).
- Estimated life B10 at 100,000 h.

## PHOTOMETRIC CURVES

## Type II - Asymmetric





# NERI

Brenta  
Wall mounted luminaire  
Size L

Fixing: Wall mounted  
Source: LED-P

Technical sheet  
Rev. 02 - 2018/12/06  
Preliminary

## DESCRIPTION


### Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.

### Mechanical information

Height	Width	Length	Weight	IP	IK	Area
120mm	305mm	232mm	11kg	65	08	0.036 m <sup>2</sup>

### Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-277V	50/60Hz	> 0.9	CL II 	-40°C/+45°C

### Fixing

- Wall mounted
- Distance between holes 140 mm and Ø11 mm.

### Materials

- Concrete (NeriConcrete)
- Prismatic flat glass (IK08 - EN 62262).
- White flat glass.
- Stainless steel fastening elements.

## NERICONCRETE

### Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

### Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

### Realization

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

### Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

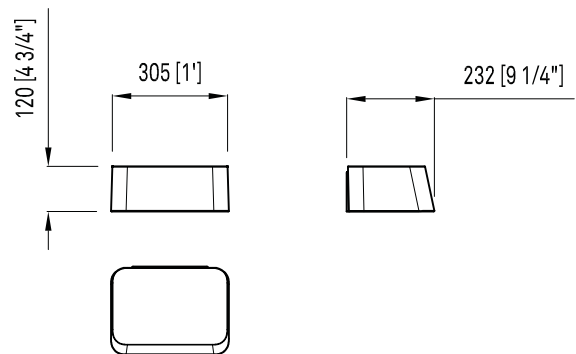
### Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

### Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS



# NERI

Brenta  
Wall mounted luminaire  
Size L

Category: Performance  
Type: IV-V

Technical sheet  
Rev.02 - 2018/12/06  
Preliminary

## DESCRIPTION

### Optic

Lighting distribution		LOR	IES Class
Asymmetric (Type IV)	Prismatic glass		Cutoff
Rotosymmetric (Type V)	White glass		Cutoff

### Luminous flux

3000K	System*			LED Module		
Screen	lm	W	lm/W	n.LED	mA	W
Prismatic	1314	26	50	18	450	23
White	1011	26	37	18	450	23

### Luminous flux

3000K	System*			LED Module		
Screen	lm	W	lm/W	n.LED	mA	W
Prismatic	1408	26	54	18	450	23
White	1040	26	40	18	450	23

- Light source: power LEDs (DMC Nichia)
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L80 B10 80.000h
- Colour Rendering Index: Ra > 80.

### Driver functions

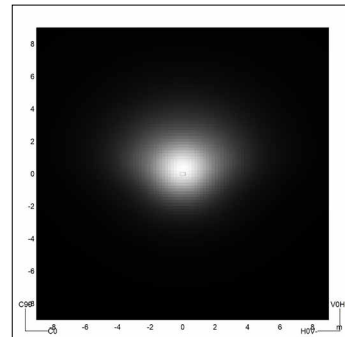
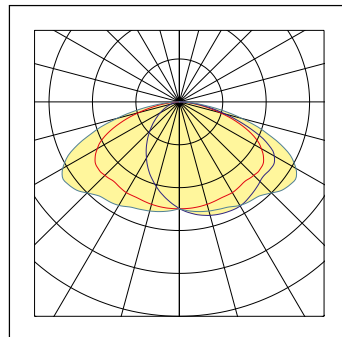
1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II).
- Estimated life B10 at 100,000 h.

## PHOTOMETRIC CURVES

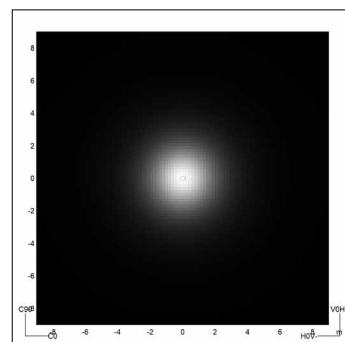
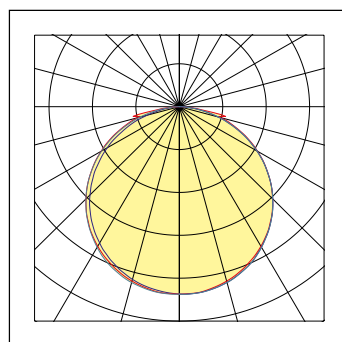
### Prismatic glass

#### Type IV - Asymmetric



### White glass

#### Type V - Rotosymmetric



# NERI

Brenta  
Wall mounted luminaire  
Size S

Fixing: Wall mounted  
Source: LED-P

Technical sheet  
Rev.02 - 2018/12/06  
Preliminary

## DESCRIPTION

### Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.



### Mechanical information

Height	Width	Length	Weight	IP	IK	Area
100mm	165mm	134mm	3.25kg	65	08	0.016 m²

### Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-277V	50/60Hz	> 0.9	CL II	-40°C/+45°C

### Fixing

- Wall mounted
- Distance between holes 70 mm and Ø11 mm.

### Materials

- Concrete (NeriConcrete)
- Prismatic flat glass (IK08 - EN 62262).
- White flat glass.
- Stainless steel fastening elements.

## NERICONCRETE

### Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

### Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

### Realization

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

### Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

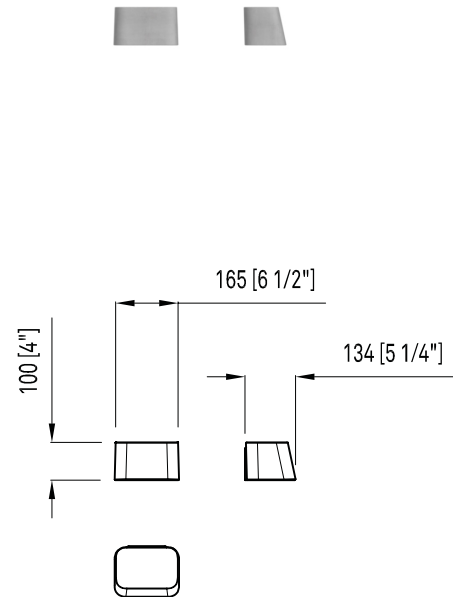
### Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

### Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS



## DESCRIPTION

### Optic

Lighting distribution		LOR	IES Class
Asymmetric (Type II)	Prismatic glass		Cutoff
Asymmetric (Type II)	White glass		Cutoff

### Luminous flux

3000K	System*			LED Module		
Screen	lm	W	lm/W	n.LED	mA	W
Prismatic	1023	13	79	2	450	11
White	730	13	56	2	450	11

### Luminous flux

3000K	System*			LED Module		
Screen	lm	W	lm/W	n.LED	mA	W
Prismatic	1095	13	84	2	450	11
White	780	13	60	2	450	11

- Light source: power LEDs (XHP-50.2 CREE)
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L90 B10 80.000h
- Colour Rendering Index: Ra > 80.

### Driver functions

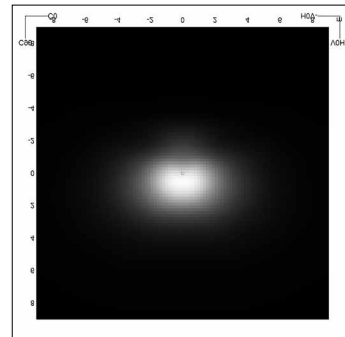
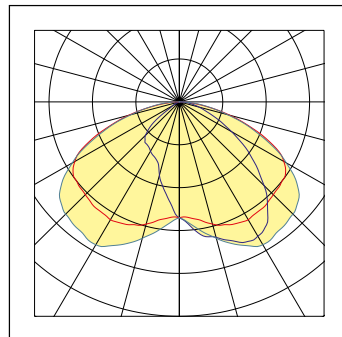
1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 2kV/2kV (CL I, CL II).
- Estimated life B10 at 100,000 h.

## PHOTOMETRIC CURVES

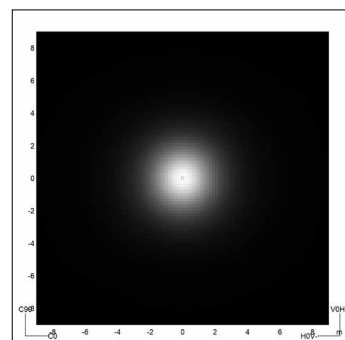
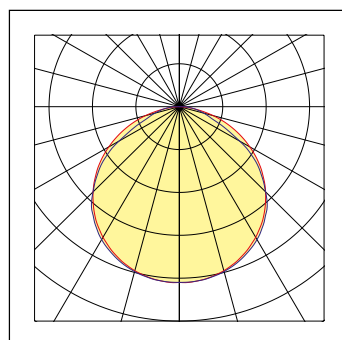
### Prismatic glass

#### Type II - Asymmetric



### White glass

#### Type II - Asymmetric




**DESCRIPTION****Compliance**

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.

**Mechanical information**

Height	Width	Length	Weight	IP	IK	Area
500mm	1287mm	537mm	120kg	65	08	199.477m <sup>2</sup>

**Electrical characteristics**

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-240V	50/60Hz	> 0.9	CL II 	-40°C/+45°C

**Fixing**

- On the ground
- Distance between holes 1200 mm x 130 mm (n.4 holes M10).

**Materials**

- Concrete (NeriConcrete)
- Stainless steel fastening elements.

**NERICONCRETE****Features**

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

**Performance**

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

**Realization**

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

**Impermeability**

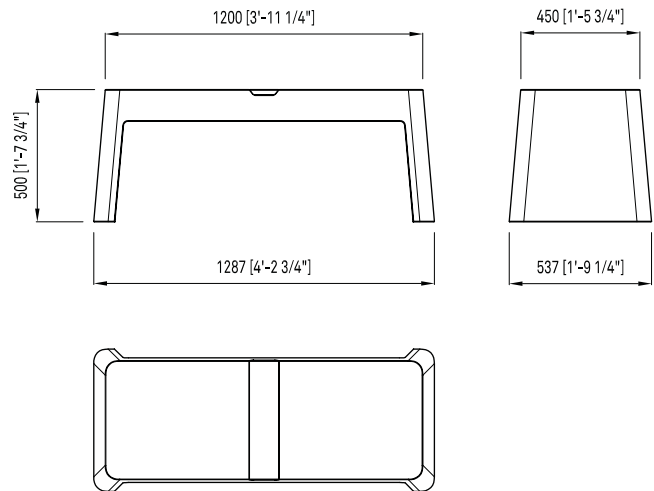
The surface treatment makes NeriConcrete water repellent and anti-stain.

**Operations and maintenance**

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

**Finish**

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

**DRAWINGS**

## DESCRIPTION

## Optic

- LED strip

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	134	7	19	2 strip	24	6

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	134	7	19	2 strip	24	6

- Light source: Prismatic LED strip
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L80 B10 80.000h
- Colour Rendering Index: Ra > 80.

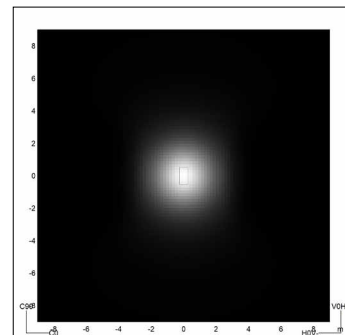
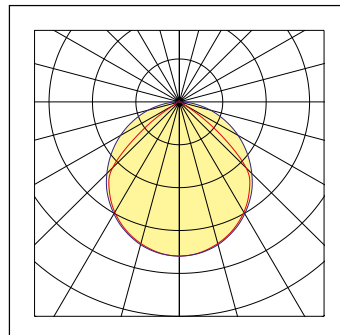
## Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 6kV/8kV (CL I, CL II).
- Estimated life B10 at 80,000 h.

## PHOTOMETRIC CURVES

## LED strip



## DESCRIPTION


## Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.

## Mechanical information

Height	Width	Length	Weight	IP	IK	Area
500mm	537mm	537mm	72kg	65	08	116.292m <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-240V	50/60Hz	> 0.9	CL II 	-40°C/+45°C

## Fixing

- On the ground
- Distance between holes 455mm x 130mm (n.4 holes M10).

## Materials

- Concrete (NeriConcrete)
- Stainless steel fastening elements.

## NERICONCRETE

## Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

## Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
Compressive strength, EN 1015-11	a 28gg	MPa	75

## Realization

NeriConcrete is a flexible mixture able to adapt to any type of mold, obtained by mixing:

- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

## Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

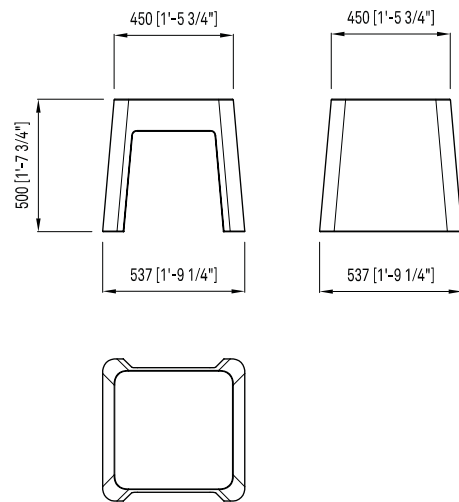
## Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

## Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS





# NERI

Brenta  
Illuminated bench  
Size S

Category: Decorative

Technical sheet

Rev.02 - 2018/12/06

Preliminary

## DESCRIPTION

### Optic

- LED strip

### Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	63	4	18	1 strip	24	3

### Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
-	63	4	18	1 strip	24	3

- Light source: Prismatic LED strip
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L80 B10 80.000h
- Colour Rendering Index: Ra > 80.

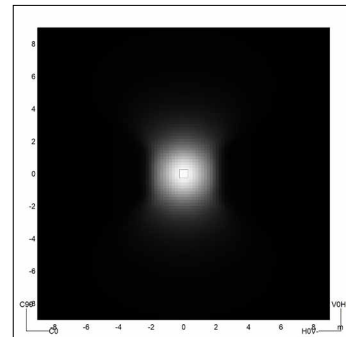
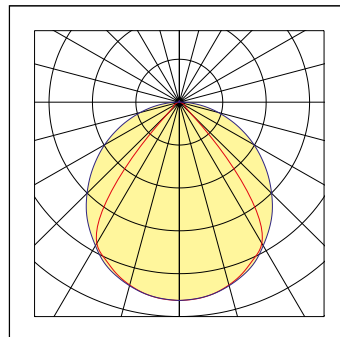
### Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 6kV/8kV (CL I, CL II).
- Estimated life B10 at 80,000 h.

## PHOTOMETRIC CURVES

### LED strip



## DESCRIPTION


## Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.

## Mechanical information

Height	Width	Length	Weight	IP	IK	Area
945mm	507mm	507mm	100kg	65	08	116,292mm <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-240V	50/60Hz	> 0.9	CL II 	-40°C/+45°C

## Fixing

- On the ground
- Distance between holes 185mm x 185mm (n.4 holes M10).

## Materials

- Concrete (NeriConcrete)
- Stainless steel fastening elements.

## NERICONCRETE

## Features

NeriConcrete is an HPC concrete (High Performance Concrete), resistant to bending and compression as shown in the table below:

## Performance

Flexural strength, EN 1015-11	a 28gg	MPa	13
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## Realization

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- Powders and concrete components;
- Polymeric fibers;
- Colored pigments;
- Water.

## Impermeability

The surface treatment makes NeriConcrete water repellent and anti-stain.

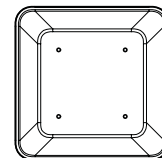
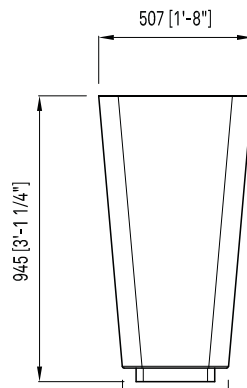
## Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

## Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## DRAWINGS



## DESCRIPTION

## Optic

- LED strip

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
UP	294	12	25	4 strip	24	10
DOWN	195	9	22	4 strip	24	8

## Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
UP	294	12	25	4 strip	24	10
DOWN	195	9	22	4 strip	24	8

- Light source: Prismatic LED strip
- Heat sink in aluminium inside to the cover for optimal control of temperature.
- Estimated life (EN 62722-2-1, LM80 data): L80 B10 80.000h
- Colour Rendering Index: Ra > 80.

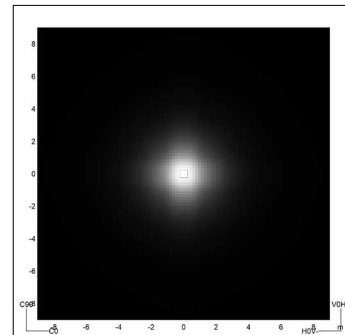
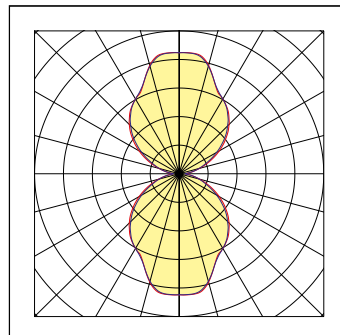
## Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 6kV/8kV (CL I, CL II).
- Estimated life B10 at 80,000 h.

## PHOTOMETRIC CURVES

## LED strip



## DESCRIPTION


## Compliance

- In compliance with: EN 60598-1; EN 60598-2-3; EN 62031; EN 61347;  
EN 55015; EN 61000-3-2; EN 61000-3-3; EN 61547; UL 1598; FCC CFR-47;  
ANSI C.62.41.

## Mechanical information

Height	Width	Length	Weight	IP	IK	Area
645mm	507mm	507mm	57kg	65	08	116,292mm <sup>2</sup>

## Electrical characteristics

Voltage	Frequency	Cos φ	Insulation class	Operative Temp.
120V-240V	50/60Hz	> 0.9	CL II 	-40°C/+45°C

## Fixing

- On the ground
- Distance between holes 185mm x 185mm (n.4 holes M10).

## Materials

- Concrete (NeriConcrete)
- Stainless steel fastening elements.

## NERICONCRETE

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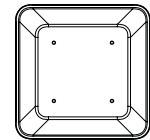
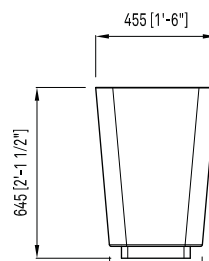
## Operations and maintenance

Use a soft cloth dampened with water and neutral detergents for routine cleaning. Do not use power washing, sandblasting, brushing and scraping, denaturated alcohol, products containing bleach or highly basic pH.

## Finish

- Concrete
- The smooth finish is the result of a very fluid mixture and the quality and type of the molds used.

## PHOTOMETRIC CURVES



# NERI

Brenta  
Planter  
Size M

Categoria: Decorative

Technical sheet

Rev.02 - 2018/12/06

Preliminary

## DESCRIPTION

### Optic

- LED strip

### Luminous flux

3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
UP	294	12	25	4 strip	24	10
DOWN	195	9	22	4 strip	24	8

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3000K	System*			LED Module		
Cod. YYY	lm	W	lm/W	n.LED	mA	W
UP	294	12	25	4 strip	24	10
DOWN	195	9	22	4 strip	24	8

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### Driver functions

1-10V

- Electronic power supply
- Standard surge protection for differential/common mode 6kV/8kV (CL I, CL II).
- Estimated life B10 at 80,000 h.

## PHOTOMETRIC CURVES

### LED strip

