

NERI

Light 500
Light source: discharge lamps

Serie **PN500** + SSS X YY ZZ
Mounting: post-top

Technical sheet
Rev. B 10-2015
Measures in mm

DESCRIPTION

Dimensions - Area exposed to wind pressure - Weight

| Height | Width | Length | Diameter | Area exposed to wind (S) | Weight ^(A) | Weight ^(B) |
|--------|-------|--------|----------|--------------------------|-----------------------|-----------------------|
| 700 mm | | | 470 mm | 0.216 m ² | 13.5 Kg | 11.5 Kg |

^(A) Max weight of light fixture with electromagnetic wiring.

^(B) Max weight of light fixture with electronic wiring.

Electrical characteristics (electromagnetic wiring)

| Voltage | Frequency | IP | Insulation class | Cos Φ | Oper. Temp. °C |
|---------|-----------|----|---|------------|----------------|
| 230V | 50Hz | 43 | CL II \square CL I \perp (on request) | > 0.9 | -30... +40 |

Electrical characteristics (electronic wiring)

| Voltage | Frequency | IP | Insulation class | Cos Φ | Oper. Temp. °C |
|----------|-----------|----|---|------------|----------------|
| 208-277V | 50/60Hz | 43 | CL II \square CL I \perp (on request) | > 0.9 | -30... +50 |

Conformity

| | | | | |
|--|---------------------|---------------------|----------------------|-------|
| | 2014/35/UE (LVD) | 2014/30/UE (EMC) | 2011/65/UE (RoHS) | (ErP) |
|--|---------------------|---------------------|----------------------|-------|

Mounting system

- Suitable for post-top mounting.
- Flange with a hole (28 mm) at the centre for mounting to the support.

Materials

- Sheet in aluminum.
- Die-cast aluminum (UNI EN 1706).
- Galvanized steel.
- Acrylic screen (PMMA).
- Polycarbonate (PC).
- Screws in stainless steel and brass.

Structure - Main components

- Upper tilting frame with circular shaped in die-cast and sheet aluminum, hinged to the lower frame and equipped with two small knobs for opening and a decorative element at the top.
- Lower frame in die-cast aluminum, for access to optical and wiring compartment, composed by a circular ring, three curved arms and a flange equipped with a hole (\varnothing 28 mm) at the centre for mounting on the support. The electric cable passes inside at a curved arm.
- Wiring plate in galvanized steel sheet, easily removable.
- Screen in a single piece in acrylic (PMMA) transparent or frosted finish, with support reflector in polycarbonate (PC) white color (optic compartment IP66). Shock resistance IK06.

Optics

- Reflector mod. 1 - street lighting - Installation on the side of street.
Installation on the side of street.

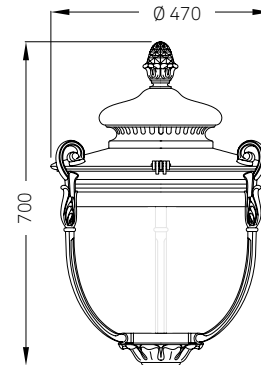
Operations and maintenance

- To opening the light fixture and access to wiring and optic compartment, loosen the two small knobs on cover and rotate the upper frame.
- To replace the lamp, rotate the support of lampholder on the reflector and pull out.
- During maintenance operations, no part or component is detached from the structure.
- During installation, follow the instructions for the correct optic orientation on the support.
- Periodic maintenance (about once a year) for external cleaning of the structure and screen from dust and smog, and the control of fastening of all screws, must be performed with light fixture switched off and cold.

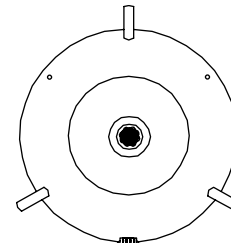
Painting

- Standard color is metalized matt dark gray, type Neri.
- Other colours of RAL range on request.
- Information about paint steps used on this product in specific technical sheet.

DRAWINGS AND TECHNICAL INFORMATIONS



Front - Side view



Plan view



Example with frosted screen



Details

Code construction

To configure the complete code of luminaire, add in sequence after **Serie** code, the others parts of code: Ballast-screen (**SSS**) + Optic (**X**) + Lamp predisposition (**YY**) + Wiring type (**ZZ**). See configurations tables on the following page.

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CONFIGURATION WITH ELECTROMAGNETIC WIRINGS

Screens

| Cod. SSS | Light fixture series | Materials | Finiture | Shock R. |
|------------|----------------------|----------------|-------------|----------|
| A09 | 500 | Acrylic (PMMA) | Frosted | IK06 |
| A11 | 500 | Acrylic (PMMA) | Transparent | IK06 |

Optics

| Cod. X | Type | Lighting classes | Classe IES |
|----------|---------------|------------------|------------|
| 1 | mod.1 - Fixed | Street lighting. | Cut-off |

- Reflector in sheet aluminum, polished and oxidized. (thickness 1 mm, purity 99.90%).
- Lampholder regulable for a optimal positioning of lamp.
- Height of installation: from 4.5 to 6.5 meters.

Wirings (Predisposition for lamps with optical and socket)

| Cod. YY | Lamps predisposition | W | Optics | Sockets |
|-----------|--------------------------------------|-----|--------|---------|
| 32 | (MT) Metal halide - (ST) Sodium H.P. | 70 | 1 | E27 |
| 33 | (MT) Metal halide - (ST) Sodium H.P. | 100 | 1 | E40 |
| 35 | (MT) Metal halide - (ST) Sodium H.P. | 150 | 1 | E40 |

- Electromagnetic ballast with high efficiency (CELMA class EEI=A3), with thermal protection.
- Electronic ignitor (pulses until to 4.5 KV).
- Power factor correction capacitor.
- Ceramic lamp holders in relation to the type of lamp.
- Automatic electrical disconnecter when opening the cover.
- Electric components on wiring plate easily removable.
- Terminal board for cables with max section of 2,5 mm².

Wirings (Characteristics)

| Cod. ZZ | Details |
|-----------|---|
| 14 | Insulation class CL II - Fuse 250V-T6.3A (5 x 20 mm) - Aut. disconnector |

Note

- Use lamps with efficiency \geq di 90 lm/W.
- The lamps are not included in the wiring.
- On request can be realized other wiring configurations.

CONFIGURATION WITH ELECTRONIC WIRINGS

Screens

| Cod. SSS | Light fixture series | Materials | Finiture | Shock R. |
|------------|----------------------|----------------|-------------|----------|
| E09 | 500 | Acrylic (PMMA) | Frosted | IK06 |
| E11 | 500 | Acrylic (PMMA) | Transparent | IK06 |

Optics

| Cod. X | Type | Lighting classes | Classe IES |
|----------|---------------|------------------|------------|
| 1 | mod.1 - Fixed | Street lighting. | Cut-off |

- Reflector in sheet aluminum, polished and oxidized. (thickness 1 mm, purity 99.90%).
- Lampholder regulable for a optimal positioning of lamp.
- Height of installation: from 4.5 to 6.5 meters.

Wirings (Predisposition for lamps with optical and socket)

| Cod. YY | Lamps predisposition | W | Optics | Sockets |
|-----------|----------------------|-----|--------|---------|
| C4 | CPO-TT (Philips) | 60 | 1 | E27 |
| C5 | CPO-TT (Philips) | 90 | 1 | E40 |
| D4 | (ST) Sodium H.P. | 70 | 1 | E27 |
| D5 | (ST) Sodium H.P. | 100 | 1 | E40 |

- Programmable electronic ballast with auto self diagnostics functions, protected against short circuit, over-temperature and over-voltages up to 10 kV (EN61547).
- Estimated life B10 a 80.000 h.
- Ceramic lamp holders in relation to the type of lamp.
- Automatic electrical disconnecter when opening the cover.
- Electric components on wiring plate easily removable.
- Terminal board for cables with max section of 2,5 mm².

Function of electronic ballast

| Cod. ZZ | Details |
|-----------|--|
| 06 | DALI - NCL (Neri Costant lumen) |
| 13 | NVL6H (automatic control integrated for lighting flux reduction) - 30% for 6 hours |

Note

- Use lamps with efficiency \geq di 90 lm/W.
- The lamps are not included in the wiring.
- On request can be realized other wiring configurations.

PHOTOMETRICS OF REFERENCE

Reflector mod. 1 - Transparent screen.

Asymmetric for street lighting - Cut off - Type III

