

## DESCRIPTION

### Dimensions - Area exposed to wind pressure - Weight

| Height | Width | Length | Diameter | Area exposed to wind (S) | Weight <sup>(A)</sup> | Weight <sup>(B)</sup> |
|--------|-------|--------|----------|--------------------------|-----------------------|-----------------------|
| 390 mm |       |        | 700 mm   | 0.120 m <sup>2</sup>     | 11.5 Kg               | 9.5 Kg                |

<sup>(A)</sup> Max weight of light fixture with electromagnetic wiring.

<sup>(B)</sup> Max weight of light fixture with electronic wiring.

### Electrical characteristics (electromagnetic wiring)

| Voltage | Frequency | IP | Insulation class                          | Cos $\Phi$ | Oper. Temp. °C |
|---------|-----------|----|---|------------|----------------|
| 230V    | 50Hz      | 66 | CL II $\square$ CL I $\perp$ (on request) | > 0.9      | -30... +40     |

### Electrical characteristics (electronic wiring)

| Voltage  | Frequency | IP | Insulation class                          | Cos $\Phi$ | Oper. Temp. °C |
|----------|-----------|----|---|------------|----------------|
| 208-277V | 50/60Hz   | 66 | CL II $\square$ CL I $\perp$ (on request) | > 0.9      | -30... +50     |

## Conformity

|    |                     |                     |                      |       |
|----|---------------------|---------------------|----------------------|-------|
| CE | 2014/35/UE<br>(LVD) | 2014/30/UE<br>(EMC) | 2011/65/UE<br>(RoHS) | (ErP) |
|----|---------------------|---------------------|----------------------|-------|

## Mounting system

- Threaded tube G3/4" male in galvanized steel, with inside cable gland PG16.
- Suitable only for suspended mounting.

## Materials

- Die-cast and sheet aluminum (UNI EN 1706).
- Tempered glass.
- Screws in stainless steel and brass.

## Structure - Main components

- Upper frame composed by an element with bell shape in die-cast aluminum with a visor in aluminum sheet, equipped with threaded tube G3/4" male in galvanized steel for mounting to the support.
- Lower tilting frame with circular shape in die-cast aluminum, for access to the auxiliary and optical compartment, composed of a ring with support function for the screen, the optical system.
- Wiring plate in sheet aluminum, easily removable.
- Neoprene gasket between frames.
- Screen in tempered transparent flat glass. Shock resistance: IK08.

## Optics

- Reflector mod. 5 - Street lighting. - Installation on the side of street.
- Reflector mod. 7 - Cycle-pedestrian / center street lighting.

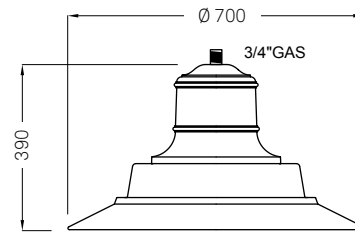
## Operations and maintenance

- To open the light fixture and to access to the wiring and optic compartment, unscrews two knobs and rotate the lower frame.
- Electric auxiliaries individually replaceable.
- 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.

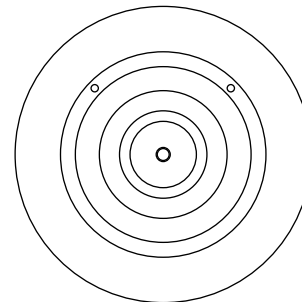
## Painting

- Standard color is metalized matt dark gray, type Neri.
- The ring for support of reflector and screen is white color.
- Other colours of RAL range on request.
- Information about paint steps used on this product in specific technical sheet.

## DRAWINGS AND TECHNICAL INFORMATIONS



Front view



Plan view



## 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.

## CONFIGURATION WITH ELECTROMAGNETIC WIRINGS

### Screens

| Cod. SSS | Light fixture series      | Materials              | Finiture    | Shock R. |
|----------|---------------------------|------------------------|-------------|----------|
| A21      | 223                       | Transparent flat glass | Transparent | IK08     |
| A09      | 220-221-222               | Acrylic(PMMA)          | Frosted     | IK06     |
| A11      | 220-221-222               | Acrylic (PMMA)         | Transparent | IK06     |
| A41      | 221 (only with wiring 36) | Polycarbonate o (PC)   | Transparent | IK10     |
| A42      | 221 (only with wiring 36) | Polycarbonate (PC)     | Frosted     | IK10     |

### Optics

| Cod. X | Type           | Lighting classes                          | Classe IES   |
|--------|----------------|---|--------------|
| 5      | mod. 5 - fixed | Street lighting.                          | Full cut-off |
| 7      | mod. 7 - fixed | Cycle-pedestrian / center street lighting | Full cut-off |

- Reflector mod. 5 and 7 in pressed aluminum sheet, polished and oxidized (thickness 1 mm - purity 99.90%).
- Lampholder regulable for a optimal positioning of lamp.
- Height of installation: from 5.0 to 9.5 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  | 5 7    | E27     |
| 33      | (MT) Metal halide - (ST) Sodium H.P. | 100 | 5 7    | E40     |
| 35      | (MT) Metal halide - (ST) Sodium H.P. | 150 | 5 7    | E40     |
| 36      | (MT) Metal halide - (ST) Sodium H.P. | 250 | 5 7    | 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.
- Electric components on wiring plate easily removable with plug-in connections.
- Automatic disconnecter when extracting the wiring plate.
- Terminal board for cables with max section of 2,5 mm<sup>2</sup>.

### Wirings (Characteristics)

| Cod. ZZ | Details   |
|---------|---|
| 14      | Insulation class CL II  - Fuse 400V-6.0A gG (8.5 x 31.5 mm) - Disconnecter |

### 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. |
|----------|----------------------|---------------------|-------------|----------|
| E21      | 223                  | Tempered flat glass | Transparent | IK08     |
| E09      | 220-221-222          | Acrylic (PMMA)      | Frosted     | IK06     |
| E11      | 220-221-222          | Acrylic (PMMA)      | Transparent | IK06     |

### Optics

| Cod. X | Type           | Lighting classes                          | Classe IES   |
|--------|----------------|---|--------------|
| 5      | mod. 5 - fixed | Street lighting.                          | Full cut-off |
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- Reflector mod. 5 and 7 in pressed aluminum sheet, polished and oxidized (thickness 1 mm - purity 99.90%).
- Lampholder regulable for a optimal positioning of lamp.
- Height of installation: from 5.0 to 9.5 meters.

### Wirings (Predisposition for lamps with optical and socket)

| Cod. YY | Lamps predisposition | W   | Optics | Sockets |
|---------|----------------------|-----|--------|---------|
| C5      | CPO-TT (Philips)     | 90  | 5 7    | E40     |
| C6      | CPO-TT (Philips)     | 140 | 5 7    | E40     |
| D5      | (ST) Sodium H.P.     | 100 | 5 7    | E40     |
| D6      | (ST) Sodium H.P.     | 150 | 5 7    | 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.
- Electric components on wiring plate easily removable with plug-in connections.
- Automatic disconnecter when extracting the wiring plate.
- Terminal board for cables with max section of 2,5 mm<sup>2</sup>.

### 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 |

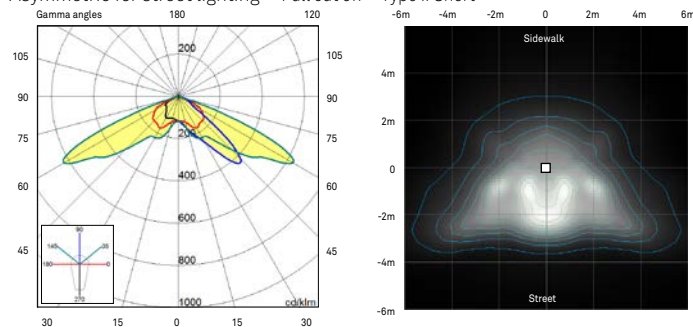
### Note

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- On request can be realized other wiring configurations.

## PHOTOMETRY OF REFERENCE

### Reflector mod. 5 - Transparent flat screen.

Asymmetric for street lighting - Full cut off - Type II Short



### Reflector mod. 7 - Transparent flat screen.

Asymmetric for street centre lighting or cyclepath lighting - Full cut off - Type I Short.

