

## DESCRIPTION

### Compliance

- In compliance with EN 60598-1; EN 60598-2-3; EN 62031;  
EN 55015 EMC; EN 61547 EMC; EN 62471



### Dimensions - Area - Weight

Height	Width	Lenght	Diametre	Area exposed to wind (S)	Weight
740 mm			550 mm	0.12 m <sup>2</sup>	12.5 Kg

### Electrical characteristics

Voltage	Frequency	P. Rating IP	CL II	CL I	Cos $\Phi$	Operative Temp.
230V $\pm$ 5%	50-60 Hz	66			> 0.9	-30°C...+40°C

### Connection

- Flange with a hole diam. 28 mm, on bottom frame.
- Suitable for head pole.

### Materials

- Die-cast and sheet aluminum (UNI EN 1706).
- Hot galvanized steel.
- Screen in flat tempered transparent glass.
- Stainless steel fasteners.

### Structure - Main components

- Upper frame tilting for access to wiring and optic compartment, made in die-cast and sheet aluminum (thickness: 2.5mm).
- Bottom frame with ring made in die-cast aluminum and two arms made in hot-galvanized steel, with flange for fixing equipped of a hole (diam. 28 mm).
- Wiring plate easily removable.
- Gasket between the upper and bottom frames.
- Screen in flat tempered transparent glass. Impact resistance IK08.

### Optics

- Reflector mod. 31 - road and mixed areas - Lighting classes CE-S.
- Reflector mod. 32 - road and mixed areas - Lighting classes CE-S.

### Electrical auxiliaries

- Programmable electronic power supply for LED module.
- Electrical disconnecter.
- Terminals for wires with a max. section of 2,5 mm<sup>2</sup>.

### Operations and maintenance

- To access the optical and wiring compartment, unscrew the two screws on upper frame and rotate it.
- Disconnecter switch cuts the power supply when remove the wiring plate.
- Separate electronic driver from LED module, individually replaceable.
- During installation, follow the instructions for the correct orientation on the support.
- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog (the operations must be performed with the line power off and with luminaire cold).

### Painting

- Standard color is dark gray, type Neri.
- Information about paint steps used on this product in specific technical sheet.

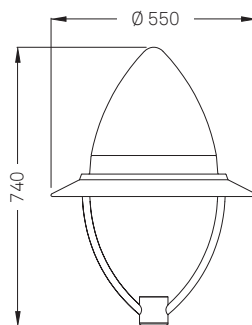
### Symbols

- : standard characteristics
- : On demand - on request characteristics

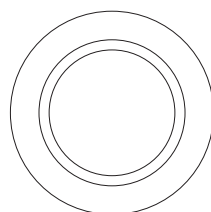
### Code costruction

- To create the complete code of the configuration, insert sequential parts of the code on the configuration of the optics, LED modules and functions of the power supply. Example: **PN313L31 1F4 02**
- Classe I of insulation (in this case the product code is to be requested).

## DRAWINGS AND TECHNICAL INFORMATIONS



Front view



Plan view



## DESCRIPTION

### Optics

Cod. XX	Type	Lighting class	Class IES
<b>31</b>	Reflector	CE/S - road and mixed areas	Cut-off
<b>32</b>	Reflector	CE/S - pedestrian, cycle path and mixed areas	Cut-off

- Reflector in sheet aluminum anodized.
- Screen in tempered transparent flat glass. Impact resistance IK08.
- Height of installation: from 3.5 to 6.0 meters.

### LED Module

3000K				
Cod. YYY		lm	W	lm/W
<b>1F3</b>	●	3.000	38	68
<b>1F4</b>	●	4.500	53	73

4000K				
Cod. YYY		lm	W	lm/W
<b>3F3</b>	○	3.000	36	72
<b>3F4</b>	○	4.500	50	77
<b>3F5</b>	○	6.000	67	77

- The energetic values in the table are referred to the complete system.
- LED module: Philips LLM Fortimo.
- NTC sensor on LED plate for control of dangerous temperatures.
- Estimated life: 80.000 h (L85 - Ta 25°C).
- Colour Rendering Index: CRI > 70
- Minimum efficiency of individual LEDs: > of 100 lm/W
- No photobiological risk (EN 62471).

### Power supply - characteristics and functions

Cod. ZZ	Functions
<b>02</b>	● 1-10V + NCL (Analogic control + Neri constant lumen)
<b>06</b>	● DALI + NCL (Digital control + Neri constant lumen)
<b>14</b>	● NVL6H + NCL (autodimming -30% x 6h + Neri constant lumen)

- Programmable electronic power supply with auto self diagnostics functions.
- Protected against short circuit, over-temperature and over-voltages up to 4 kV.
- Estimated life: B10 a 80.000 h.
- Voltage input: 230V ± 5%
- Frequency: 50-60 Hz
- Cos φ: > 0,9

### Symbols

- ● : standard characteristics
- ○ : On demand - on request characteristics

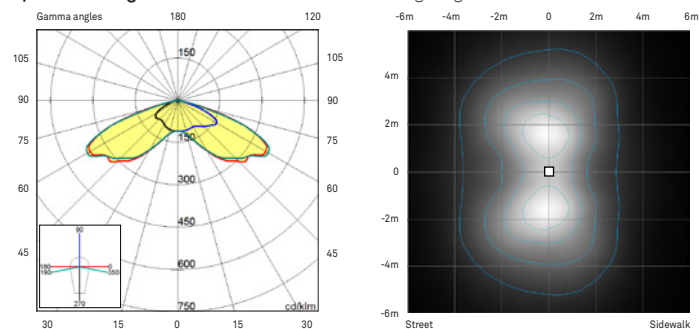
### Costruzione del codice

- To create the configuration code, insert sequential parts of the code of the optical configuration (XX) + LED module (YYY) + power supply functions (ZZ), to be added to the base code of the light fixture.

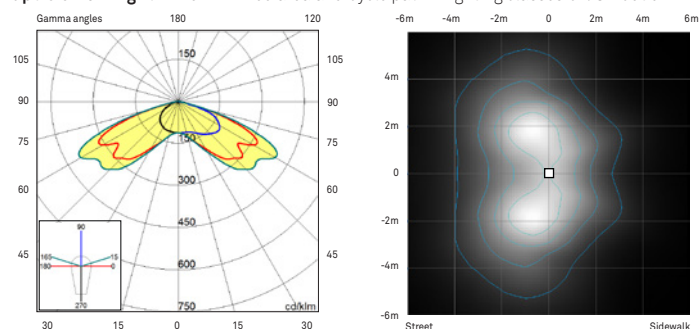
Example: base code of light fixture 00000L + **03** + **1F3** + **02** = **00000L031F302**

## PHOTOMETRIC CURVES

### Optic 31 on Light 21-31 - Road and mixed area - Lighting classes CE/S - Cut off.



### Optic 32 on Light 21-31 - Mixed area and Cycle path - Lighting classes CE/S - Cut off.



31



32