

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
690 mm			550 mm	0.105 m ²	10.5 Kg

Electrical characteristics

Voltage	Frequency	P. Rating IP	CL II	CL I	Cos Φ	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 mm².

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.

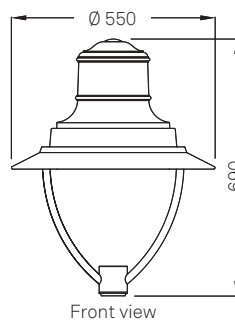
Symbols

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

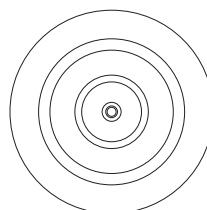
Code costruction

- 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: **PN213L31 1F4 02**
- Classe I of insulation (in this case the product code is to be requested).

DRAWINGS AND TECHNICAL INFORMATIONS



Front view



Plan view



LED module - Philips Fortimo LLM



DESCRIPTION

Optics

Cod. XX	Type	Lighting class	Class IES
31	Reflector	CE/S - road and mixed areas	Cut-off
32	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
1F3	●	3.000	38	68
1F4	●	4.500	53	73

4000K				
Cod. YYY		lm	W	lm/W
3F3	○	3.000	36	72
3F4	○	4.500	50	77
3F5	○	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
02	● 1-10V + NCL (Analogic control + Neri constant lumen)
06	● DALI + NCL (Digital control + Neri constant lumen)
14	● 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

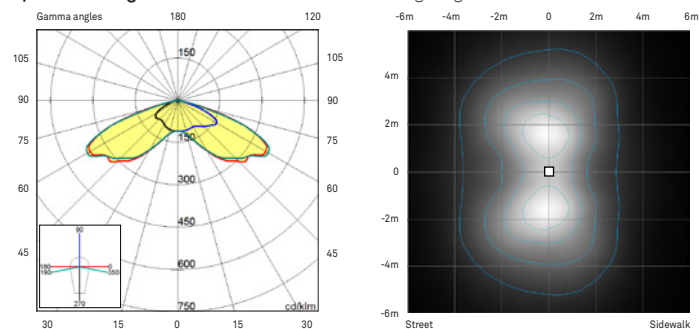
Costruzione del codice

- 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.

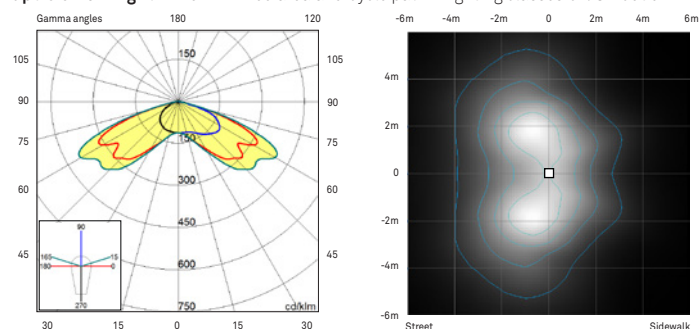
Example: base code of light fixture 00000L + **03** + **1F3** + **02** = **00000L031F302**

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