

## Compliance

- This lantern carries the ENEC 03 Mark.
- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 62471



## Mounting

- Suitable for mounting on head post or bracket.
- Central flange with hole  $\varnothing$  28 mm on the bottom frame..

## Dimensions - Weight - Area exposed to wind pressure

Height	width	length	Diameter	Weight	Area
710 mm	445 mm	445 mm		10,5 Kg	0,100 m <sup>2</sup>

## Materials

- Structure made in extruded and die-cast aluminum.
- Stainless steel fasteners.

## Structure - Main components

- Bottom frame with 4 curved uprights combined with a central flange with 28 mm hole for fastening to the support. Electric cable inside to a upright.
- Upper square tilting frame, for access to the electric auxiliary and optical compartment.
- Silicone gasket between the upper and lower frames.
- LED module Philips Fortimo LED™ LLM, with thermic dissipation directly on the frame.
- Protection screen made in tempered transparent extra-clear silk-screened glass (IK 08 - EN 62262).
- Electronic power supply unit with auto diagnostics functions.
- Automatic electrical disconnecter at the opening.

## General features

Voltage V	Frequency Hz	Insulation class	Protection rating IP	Cos. $\phi$ (PFC)	Operating temperature
230	50	II	66	0,95	-30°C +50°C
Rated power from 36 to 75 W (variable depending on configuration).					
Terminals for wires with a max. section of 2,5 mm <sup>2</sup>					

## LED source - Optic system - Height of utilization - Classifications

LED Module	Thermic dissipation	Estimated life-expectancy	Optic type Geometry	Lens - reflector material
Philips Fortimo LLM	Directly on the frame	70.000 h L80 - Ta 25°C	NLG 31 Roadway	Reflector Pre-anodized Aluminum
Flux from 3.000 to 6.000 lm (variable depending on configuration)				
Height of installation from 3,5 to 5 meters				
CE-S - Lighting classes (Roadway geometry)				
Full cut-off - IES Classification				
Colour Rendering Index CRI > 70				
Minimum efficiency of the individual LEDs > 107 lm/W.				
No photobiological risk				

## Configurations (Colour temp. - Flux - Power - Efficiency)

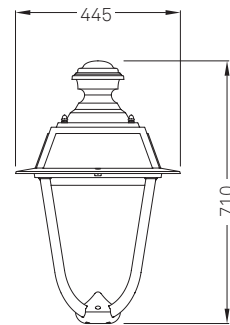
The energetic values in the table are referred to the complete system.

Colour Temperature 3,000K				Colour Temperature 4,000K *			
Code	Flux (lm)	Watt	lm/W	Code	Flux (lm)	Watt	lm/W
1F3	3,000	38	78.9	3F3	3,000	36	83.3
1F4	4,500	53	84.9	3F4	4,500	50	90
1F5	6,000 **	75	80.0	3F5	6,000 **	67	89.5

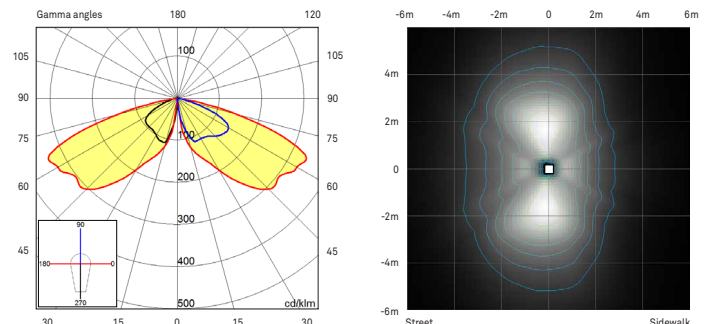
## Functions driver configuration

Electronic driver with self-diagnostic functions and monitoring for dangerous temperatures.

Cod.	Function
02	1-10V control + constant flux control (1-10V + NCL)
06	DALI control + constant flux control (DALI + NCL) ***
14	6 hours flux reduction + constant flux control (NVL 6H + NCL)



LED module Philips Fortimo LLM



NLG-31 Optics for CE-S lighting classes - Full cut-off

## Operation and Maintenance

- For access to the optical and gear compartment, unscrew one screw and rotate the bottom frame.
- On opening a disconnecter switch automatically cuts of the power supply.
- Separate electronic driver from LED module, individually replaceable.
- During installation, follow the instructions for the correct orientation on the support.
- No maintenance required except for periodical cleaning of the screen to remove dust and dirt.

## Code construction

- To get the complete code of the product configured, replace the X's at the top of the code, by entering in sequence the parts of the code from the configuration tables of the LED module and driver. Example: **PQ804L31 3F2 02**

## On demand - Features on request

- Classe I of insulation (in this case the product code is to be requested).
- (\*) 4.000 K Color light temperature

## Note

- (\*\*) For some configurations, the ENEC mark is on required. In this case, the second character of code is "N". Example: **PN804L31 3F2 02**
- (\*\*\*) For the configurations with 6,000 lm, is available also the driver function 06.

## Compliance

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## Mounting

- Suitable for mounting on head post or bracket.
- Central flange with hole Ø 28 mm on the bottom frame.

## Dimensions - Weight - Area exposed to wind pressure

Height	width	length	Diameter	Weight	Area
710 mm	445 mm	445 mm		10,5 Kg	0,100 m <sup>2</sup>

## Materials

- Structure made in extruded and die-cast aluminum.
- Stainless steel fasteners.

## Structure - Main components

- Bottom frame with 4 curved uprights combined with a central flange with 28 mm hole for fastening to the support. Electric cable inside to a upright.
- Upper square tilting frame, for access to the electric auxiliary and optical compartment.
- Silicone gasket between the upper and lower frames.
- LED module Philips Fortimo LED™ LLM, with thermic dissipation directly on the frame.
- Protection screen made in tempered transparent extra-clear silk-screened glass (IK 08 - EN 62262).
- Electronic power supply unit with auto diagnostics functions.
- Automatic electrical disconnecter at the opening.

## General features

Voltage V	Frequency Hz	Insulation class	Protection rating IP	Cos. φ (PFC)	Operating temperature
230	50	II	66	0,95	-30°C +50°C
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Terminals for wires with a max. section of 2,5 mm <sup>2</sup>					

## LED source - Optic system - Height of utilization - Classifications

LED Module	Thermic dissipation	Estimated life-expectancy	Optic type Geometry	Lens - reflector material
Philips Fortimo LLM	Directly on the frame	70.000 h L80 - Ta 25°C	NLG 32 Mixed areas	Reflector Pre-anodized Aluminum
Flux from 3.000 to 6.000 lm (variable depending on configuration)				
Height of installation from 3,5 to 5 meters				
S - Lighting classes (Geometry for mixed areas - cycle paths)				
Full cut-off - IES Classification				
Colour Rendering Index CRI > 70				
Minimum efficiency of the individual LEDs > 107 lm/W.				
No photobiological risk				

## Configurations (Colour temp. - Flux - Power - Efficiency)

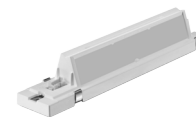
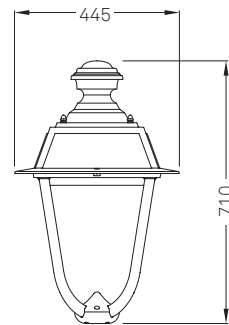
The energetic values in the table are referred to the complete system.

Colour Temperature 3,000K				Colour Temperature 4,000K *			
Code	Flux (lm)	Watt	lm/W	Code	Flux (lm)	Watt	lm/W
1F3	3,000	38	78.9	3F3	3,000	36	83.3
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1F5	6,000 **	75	80.0	3F5	6,000 **	67	89.5

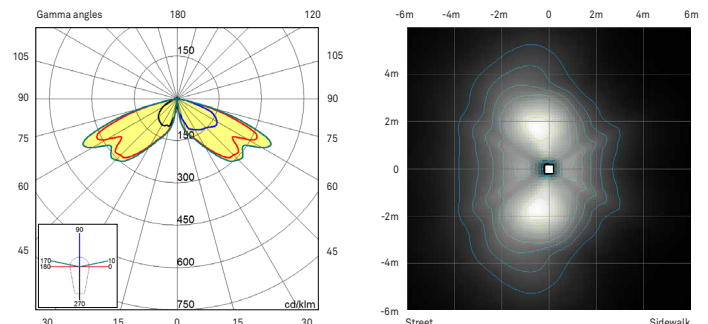
## Functions driver configuration

Electronic driver with self-diagnostic functions and monitoring for dangerous temperatures.

Cod.	Function
02	1-10V control + constant flux control (1-10V + NCL)
06	DALI control + constant flux control (DALI + NCL) ***
14	6 hours flux reduction + constant flux control (NVL 6H + NCL)



LED module Philips Fortimo LLM



NLG-32 Optics for S lighting classes - Full cut-off

## Operation and Maintenance

- For access to the optical and gear compartment, unscrew one screw and rotate the bottom frame.
- On opening a disconnecter switch automatically cuts of the power supply.
- Separate electronic driver from LED module, individually replaceable.
- During installation, follow the instructions for the correct orientation on the support.
- No maintenance required except for periodical cleaning of the screen to remove dust and dirt.

## Code construction

- To get the complete code of the product configured, replace the X's at the top of the code, by entering in sequence the parts of the code from the configuration tables of the LED module and driver. Example: **PQ804L32 3F2 02**

## On demand - Features on request

- Classe I of insulation (in this case the product code is to be requested).
- (\*) 4.000 K Color light temperature

## Note

- (\*\*) For some configurations, the ENEC mark is on required. In this case, the second character of code is "N". Example: **PN804L32 3F2 02**
- (\*\*\*) For the configurations with 6,000 lm, is available also the driver function 06.

## Compliance

- This lantern carries the ENEC 03 Mark.
- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 62471

## Mounting

- Suitable for suspended installation.
- Thread tube 3/4"G (UNI 338 - ISO 228/1 BSP/G).

## Dimensions - Weight - Area exposed to wind pressure

Height	width	length	Diameter	Weight	Area
770 mm	445 mm	445 mm		10,5 Kg	0,100 m <sup>2</sup>

## Materials

- Structure made in extruded and die-cast aluminum.
- Stainless steel fasteners.

## Structure - Main components

- Tilting bottom frame, for access the electric auxiliary and optical compartment with 4 curved uprights joint with a central flange.
- Upper square frame with threaded tube 3/4"G for fixing to suspended support, with cable gland inside.
- Silicone gasket between the upper and lower frames.
- LED module Philips Fortimo LED™ LLM, with thermic dissipation directly on the frame.
- Protection screen made in tempered transparent extra-clear silk-screened glass (IK 08 - EN 62262).
- Electronic power supply unit with auto diagnostics functions.
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## General features

Voltage V	Frequency Hz	Insulation class	Protection rating IP	Cos. φ (PFC)	Operating temperature
230	50	II	66	0,95	-30°C +50°C
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Terminals for wires with a max. section of 2,5 mm <sup>2</sup>					

## LED source - Optic system - Height of utilization - Classifications

LED Module	Thermic dissipation	Estimated life-expectancy	Optic type Geometry	Lens - reflector material
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Height of installation from 3,5 to 5 meters				
CE-S - Lighting classes (Roadway geometry)				
Full cut-off - IES Classification				
Colour Rendering Index CRI > 70				
Minimum efficiency of the individual LEDs > 107 lm/W.				
No photobiological risk				

## Configurations (Colour temp. - Flux - Power - Efficiency)

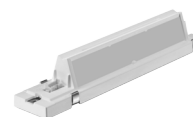
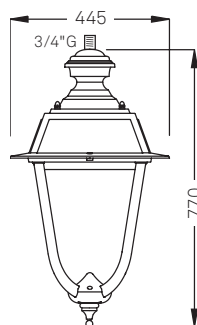
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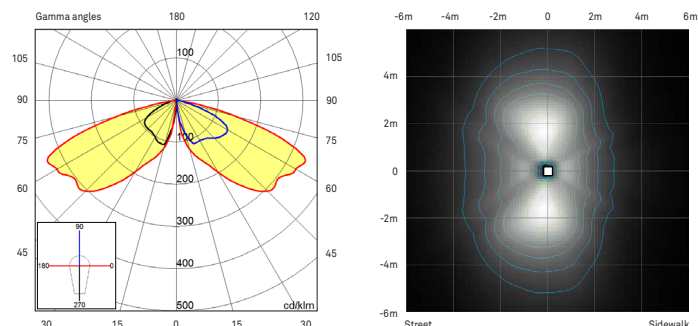
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NLG-31 Optics for CE-S lighting classes - Full cut-off

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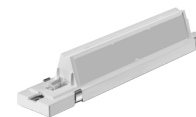
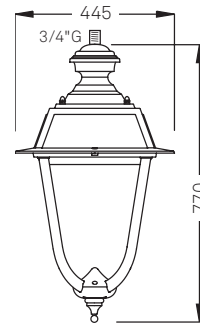
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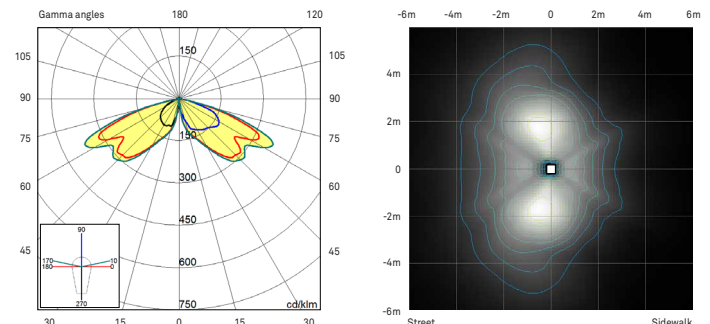
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