

# NERI

LIGHT 801  
LIGHT 803





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**Light 801 and 803 are LED lanterns, with and without screen. Their distinctive shape, which is Neri signature, makes them the ideal fixture for areas of historic and architectural interest. Along with energy savings, Light 801 and 803 guarantee reduced glare and high performances.**

DECORATIVE



COMFORT



PERFORMANCE



**LIGHT 801**  
**LIGHT 803**

Scale 1:20  
Dimensions in mm

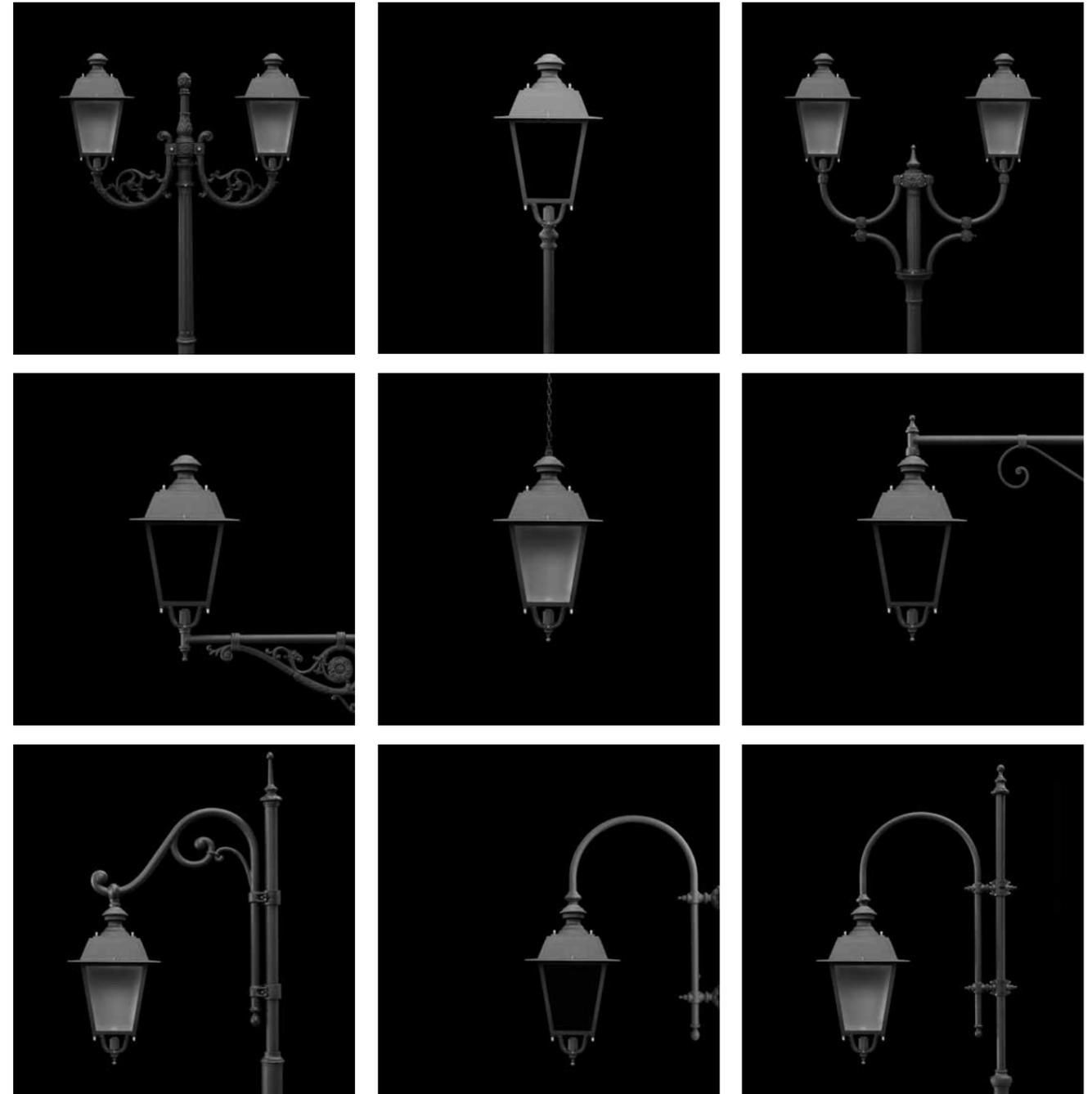
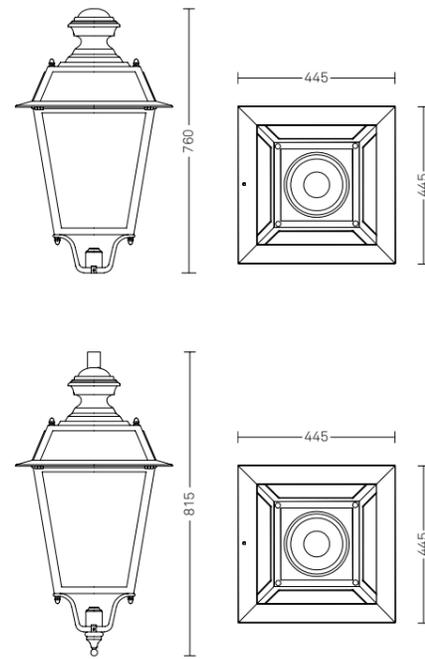
Light 801 and 803 can be installed in either post top or suspended configuration. Fixing methods are compatible with the most common post, wall and ceiling systems.

**Materials**

With both lanterns made from die-cast aluminium, the main difference between the two is the frosted basket screen made of PMMA (Light 801) or the extra-clear transparent flat-glass screen with a thickness of 4mm and mechanical strength index IK09 (Light 803).

**Finishes**

The standard colour is the so-called Neri Grey that is obtained from a chromatic combination, which has been developed after a long aesthetic research.





## Performance

- Electrical insulation: class II, class I
- Enclosure protection\*: IP66, IK09
- LED optics: multilayer lenses
- CCT: 2,200K-3,000K-4,000K
- High efficiency: up to 120lm/W
- Reflector for flow recovery and reduced glare
- Surge protection: up to 10kV/10kV
- Estimated life: 100,000h, L90B10

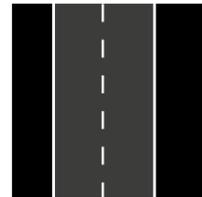
\* LED module

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## APPLICATIONS

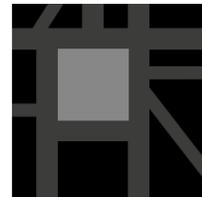
### Roads

High efficiency and reduced glare are guaranteed for the different road optics.



### Squares and parks

Uniform light with high colour rendering makes public spaces pleasant and safe to enjoy.



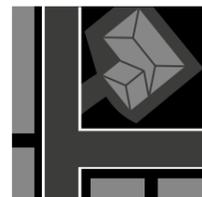
### Pedestrian and cycling paths

Light is concentrated on the path, so that disturbances and visual pollution of green areas are prevented. Effective illumination is guaranteed in harmony with the surroundings.



### Residential areas, retail, offices

The combination of functionality and aesthetics allows the product to integrate easily in architectural contexts, either outdoors or indoors.



## MULTILAYER TECHNOLOGY

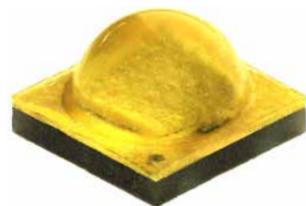
The optical system is composed of overlapping PMMA lenses with high performance and constant light transmission.

Light 801 and 803 are equipped with highly efficient latest generation of LED Cree XP-G3 positioned on a ceramic base to provide high thermal conductivity and electrical insulation for a longer service life.

The wide emission surface and the perimeter reflector increase the emission efficiency maintaining reduced glare values.

Customised distributions of light can be obtained thanks to the flexibility in composing the lenses.

Reduced glare thanks to the wide emission surface. Latest generation LED Cree XP-G3 and PMMA multilayer lenses provide high and constant performance over time, even in case of failure of a single source.



LED Cree XP-G3



**PERFORMANCE:  
ENERGY SAVING**

Proper management of electronic luminous flux means benefits in terms of energy saving and life cycle of the product.

Thanks to electronic ballasts equipped with intelligent systems, the lighting management guarantees high energy savings. The driver chosen for Light 801 and 803 can be equipped with the features below:

**NCL (Neri Constant Lumen)**

**Keeping flows consistent**

The driver allows the initial flow to be kept consistent throughout the product life cycle by calibrating the current supply of the LEDs and ensuring the same luminous flux over time.

**NVL (Neri Variable Lighting)**

**Stand-alone setting**

The driver is equipped with a stand-alone control that automatically adjusts the light flow to one or more levels during the operational period, which is automatically set according to the seasons.

**DALI, 1-10V**

**Remote lighting management system**

With the two-way digital DALI protocol lighting levels can be adjusted, consumption and system diagnostics monitored. By the analog signal 1-10V, the illumination levels regulation is enabled. Inside the products on the cabling board, space has been made to accommodate an electronic unit for remote management functionalities.

**AmpDim**

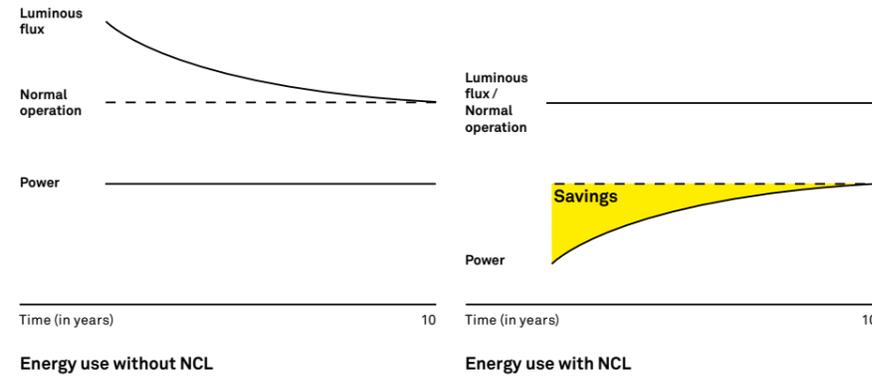
**Flux regulator**

Product dimming in electrical systems already furnished with flux regulator, where the feed voltage is linearly modulated. The percentages of flux reduction are specified in relation to the existing logic.



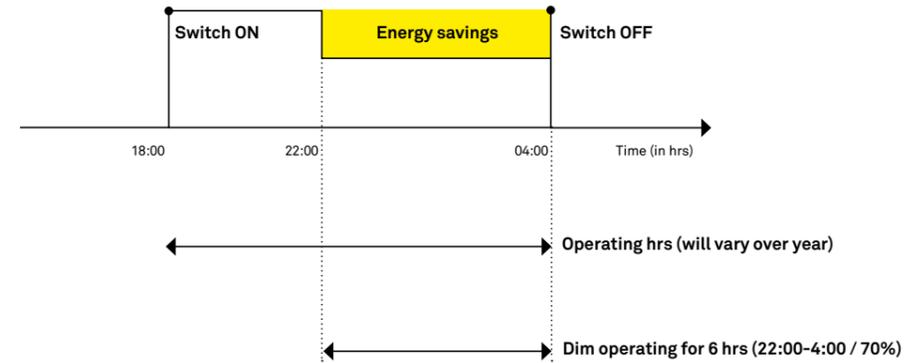
Philips Xitanium Constant Current

**NCL - KEEPING FLOWS CONSISTENT**



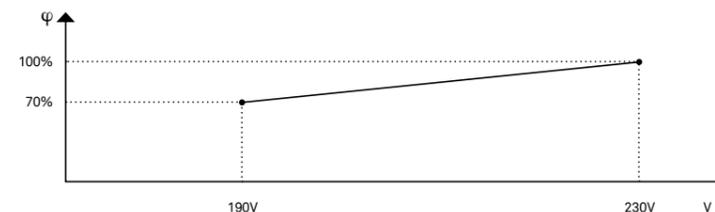
The light output of the system is kept consistent throughout the life of the product by acting on the current supplied and compensating for the decay of the source.

**NVL - STAND-ALONE SETTING**



Dimming preset cycle: from the switching on to 22:00 the 100% of luminous flux is guaranteed; from 22:00 until shut-down the guaranteed flux is 70%.

**AMPDIM - FLUX REGULATOR**



Example of AmpDim setting: with a feed voltage of 230V, the product is at 100% of its flux; the flux regulator reduces the feed voltage to 190V, thus reaching 70% of its flux.



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## TECHNICAL FEATURES

### Fixing

- Post top with flange with 28mm Ø central hole for fixing the lantern to the support
- Suspended with G3/4" male threaded attachment

### Materials

- Die-cast aluminium
- Extra-clear transparent flat glass
- Brass and stainless-steel fixing components
- Internal reflector made of PC
- Screen made of PMMA (Light 801)

### Finishes

- Standard colour Neri Grey

### Main components

- Swinging frame for access to wiring and optics compartment
- Silicone gaskets between the lower and upper frame
- Flat-glass screen with IK09 impact resistance
- Plastic reflector for flow recovery and reduced glare
- 2x2 modular refractive lenses made of PMMA
- Easily removable wiring board

### Electrical auxiliaries

- Programmable electronic power supply with auto diagnostic function
- Automatic disconnecter when opening

- Terminals wires max. section of 2.5mm<sup>2</sup>
- Power supply cable intake through Ø 14mm tube
- PG16 cable gland
- Protection from short-circuiting, overheating and differential/common surges up to 6kV/10kV (CL I, CL II) and with additional 10kV/10kV (CL I, CL II) protection (on request).

### Power supply

- Estimated life (EN 62722-2-1, LM80 data): 100,000h L90B10 (Tq= 25°C)

## TECHNICAL FEATURES: LED MODULE

### Performance

#### MAIN TECHNICAL DATA



#### SUPPLY VOLTAGE

220V-240V, 50/60Hz frequency

#### SURGE PROTECTION

6kV L-N / 10kV L/N-frame

#### POWER SUPPLY

Programmable electronic

#### POWER FACTOR CORRECTION

PFC > cos φ 0.9

#### ELECTRICAL INSULATION

Class II, Class I

#### ENCLOSURE PROTECTION

LED Module IP66

Mechanical impacts IK09

#### PLANNING INFORMATION

For information related to the combinations between flux size options, power and colour temperature see the website.

Neri SpA reserves the right to modify its products and documentation without obligation to give prior warning.

#### SCREEN SHAPE

EXTRA-CLEAR TRANSPARENT FLAT GLASS – Full Cutoff

#### OPTIC SYSTEM

TYPE I – SYMMETRIC ROAD (NLG 19)

TYPE II – ASYMMETRIC ROAD OR CYCLE PATH (NLG 20)

TYPE III – ASYMMETRIC ROAD (NLG 21)

TYPE IV – STRONG ASYMMETRIC (NLG 17)

TYPE V – ROTOSYMMETRICAL (NLG 18)

#### COLOUR TEMPERATURE

2,200K

3,000K

4,000K

#### FLUX SIZES OPTIONS

COLOUR TEMPERATURE	FLUX	POWER	EFFICIENCY
2,200K	2,500lm	27W	93lm/W
2,200K	3,500lm	39W	90lm/W
2,200K	4,500lm	52W	52lm/W
3,000K	2,500lm	23W	108lm/W
3,000K	3,500lm	34W	104lm/W
3,000K	4,500lm	45W	100lm/W
3,000K	6,000lm	63W	95lm/W
4,000K	2,500lm	21W	120lm/W
4,000K	3,500lm	30W	117lm/W
4,000K	4,500lm	40W	113lm/W
4,000K	6,000lm	56W	107lm/W

#### DRIVER FUNCTIONS

1 - 10V + NCL

AmpDim + NCL

DALI + NCL

NVL+NCL

#### ELECTRICAL DEVICES

AUTOMATIC DISCONNECTOR

### Planning (Light 801)

#### TYPE I – SYMMETRIC ROAD (NLG 19)

CLASS	H 4m, L 3m		H 5m, L 6m	
	Spacing	Flux	Spacing	Flux
P2	20m	3,500lm	19m	4,500lm
P3	19m	2,500lm	-	-
C4	18m	3,500lm	-	-

#### TYPE II – ASYMMETRIC ROAD OR CYCLE PATH (NLG 20)

CLASS	H 4m, L 3m		H 5m, L 3m	
	Spacing	Flux	Spacing	Flux
P1	-	-	16m	4,500lm
C3	15m	3,500lm	16m	4,500lm
C4	16m	2,500lm	-	-

#### TYPE III – ASYMMETRIC ROAD (NLG 21)

CLASS	H 4m, L 3m	
	Spacing	Flux
P1	15m	3,500lm
C2	14m	4,500lm
C3	15m	3,500lm
C4	16m	2,500lm

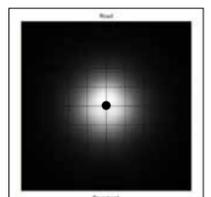
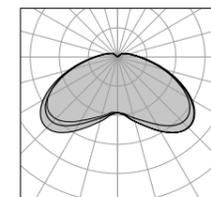
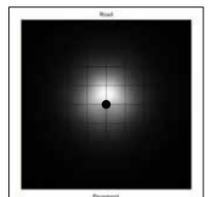
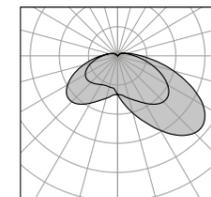
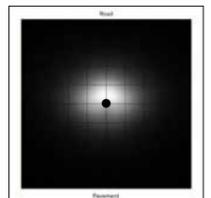
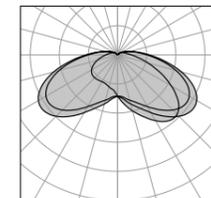
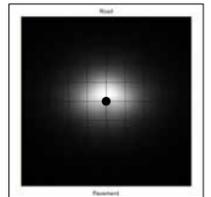
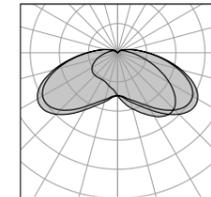
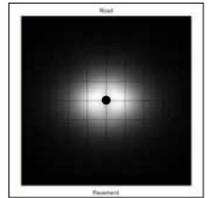
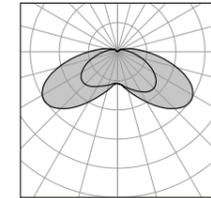
#### TYPE IV – STRONG ASYMMETRIC (NLG 17)

CLASS	H 4m		H 5m	
	Spacing	Flux	Spacing	Flux
P2	-	-	15x17m	3,500lm
P3	15x17m	2,500lm	15x22m	3,500lm
C4	-	-	15x17m	3,500lm

#### TYPE V – ROTOSYMMETRICAL (NLG 18)

CLASS	H 5m		H 5m	
	Spacing	Flux	Spacing	Flux
P3	12x12m	3,500lm	15x15m	4,500lm
P4	14x14m	3,500lm	-	-

### Photometric light distribution



## Planning (Light 803)

### TYPE I – SYMMETRIC ROAD (NLG 19)

CLASS	H 4m, L 3m		H 5m, L 6m	
	Spacing	Flux	Spacing	Flux
C3	20m	3,500lm	-	-
P1	22m	3,500lm	-	-
P2	23m	2,500lm	-	-
P3	-	-	23m	2,500lm

### TYPE II – ASYMMETRIC ROAD OR CYCLE PATH (NLG 20)

CLASS	H 4m, L 3m	
	Spacing	Flux
C0	14m	6,000lm
C1	14m	4,500lm
C2	15m	3,500lm
C3	18m	2,500lm
P1	18m	2,500lm

### TYPE III – ASYMMETRIC ROAD (NLG 21)

CLASS	H 4m, L 3m		H 5m, L 6m	
	Spacing	Flux	Spacing	Flux
C1	15m	4,500lm	16m	6,000lm
C2	17m	3,500lm	-	-
C3	17m	2,500lm	-	-
C4	-	-	19m	2,500lm
P1	18m	2,500lm	-	-
P2	-	-	24m	2,500lm

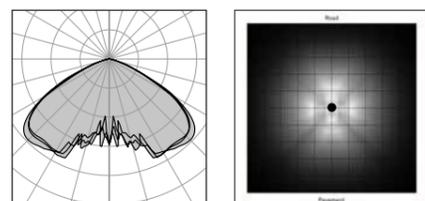
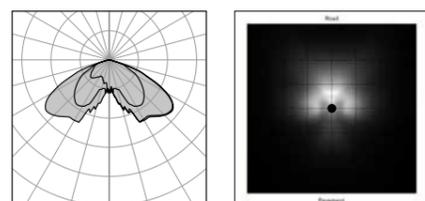
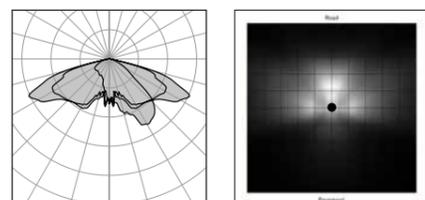
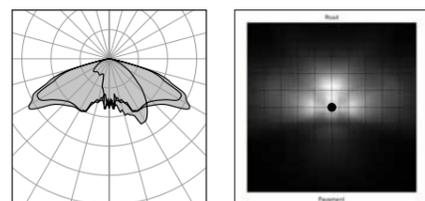
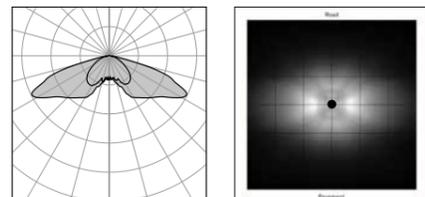
### TYPE IV – STRONG ASYMMETRIC (NLG 17)

CLASS	H 4m		H 5m	
	Spacing	Flux	Spacing	Flux
P1	-	-	15x18m	3,500lm
P2	15x19m	2,500lm	-	-
C3	-	-	15x18m	3,500lm
C4	-	-	15x18m	2,500lm

### TYPE V – ROTOSYMMETRICAL (NLG 18)

CLASS	H 5m	
	Spacing	Flux
P2	14.5x14.5m	2,500lm
P3	15.5x15.5m	3,500lm
P4	17x17m	3,500lm

## Photometric light distribution





## HIGHLIGHTS

### Main features

- Light 801 and 803 are 'Performance' category devices
- Designed in full compliance with the lighting standards, with minimal energy consumption, using LEDs and high performance optical solutions
- Designed to reduce glare, without compromising the lighting effectiveness

### Flux sizes

- The main factor in lighting design is system flux and photometry
- Neri presents products with their flux sizes, to ensure these values remain constant over time

### The flux sizes approach permits:

- Same light regardless of the number of LEDs
- Using the best technology on the market (easy upgrade)

### Multilayer

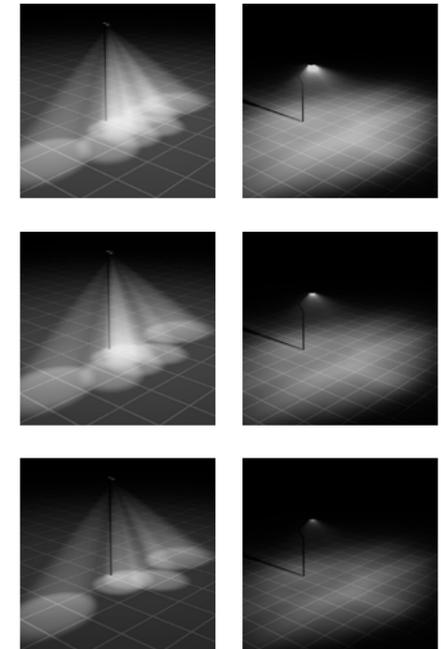
Light 801 and 803 adopt a technology with multilayer lenses:

- Each LED is associated with a lens
- All lenses are equal and cover the entire area to be illuminated; in case of failure of a single source, there is no loss in the uniformity of illumination on the ground

### Light emitting area

The glaring effect, typical of the individual point sources, is drastically reduced due to some technical devices:

- White color PCB
- Perimeter reflector
- Large light emitting area



On the left, from top to bottom, diagrammatic views of LEDs without multilayer lenses.  
On the right, from top to bottom, LEDs with multilayer lenses.

## VERSIONS AND CODES

In order to configure the luminaire, type of optic, luminous flux related to colour temperature and driver functions need to be chosen. Their related codes have then to be added in sequence, one after another, following the order of the tables below, starting from type of mounting (**PN801L**), optic (eg: **17**), luminous flux (eg: **111**) and driver (eg: **02**). The code of the chosen configuration will be: **PN801L 17 111 02**.

### Light 801 – Performance

CODE	Mounting	CODE	Optic	CODE	CCT	Flux	CODE	Driver functions
PN801	Post top	17	Type IV	510	2,200K	2,500lm	02	1-10V + NCL
SN801	G3/4	18	Type V	511	2,200K	3,500lm	04	AmpDim + NCL
		19	Type I	512	2,200K	4,500lm	06	DALI + NCL
		20	Type II	110	3,000K	2,500lm	14	NVL + NCL
		21	Type III	111	3,000K	3,500lm		
				112	3,000K	4,500lm		
				113	3,000K	6,000lm		
				310	4,000K	2,500lm		
				311	4,000K	3,500lm		
				312	4,000K	4,500lm		
				313	4,000K	6,000lm		

### Light 803 – Performance

CODE	Mounting	CODE	Optic	CODE	CCT	Flux	CODE	Driver functions
PN803	Post top	17	Type IV	510	2,200K	2,500lm	02	1-10V + NCL
SN803	G3/4	18	Type V	511	2,200K	3,500lm	04	AmpDim + NCL
		19	Type I	512	2,200K	4,500lm	06	DALI + NCL
		20	Type II	110	3,000K	2,500lm	14	NVL + NCL
		21	Type III	111	3,000K	3,500lm		
				112	3,000K	4,500lm		
				113	3,000K	6,000lm		
				310	4,000K	2,500lm		
				311	4,000K	3,500lm		
				312	4,000K	4,500lm		
				313	4,000K	6,000lm		



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