

## ALYA

Alya was designed on the occasion of Neri's 50th anniversary. With its cutting-edge LED technology, it is the modern version of a lantern with maximum comfort standards with:

- High colour rendering and warm light
- Excellent glare control
- Light distribution for street and cycle path lighting, considering semi-cylindrical surfaces
- No light pollution, eco compatible, maximum efficiency and reduced CO<sub>2</sub> emissions

The coating has been developed to achieve the best possible dissipation of the heat from the standard LED modules used in street lighting. Alya has two standard LED modules that have been designed to provide a constant amount of lumen throughout the product's life cycle, combined with light quality and energy savings. The cutting-edge REF2 optical concept offers the possibility to use intense standard LED modules, which avoids immediate perception of the emitted light. The light in the multi-LED module, placed parallel to the street, is guided by a combination of reflection and then refraction, meaning that the lit area is larger than the module and the refraction plate makes the light more even and reduces the intensity of the LED lighting directed towards the eyes. What this also means is guaranteed even lighting in colour terms. The module is based on next-generation LEDs with high energy efficiency and low power consumption. Neri has prepared Alya for a Wi-Fi access system and video camera with IP address, all integrated into the equipment.

## Characteristics

- Colour temperature 3000K - 4000K
- Flux system from 4500lm a 6000lm
- Light point used at a height of 4m - 5m
- The heat dissipation system is an essential part of the top cover on the lighting system
- Electronic systems that can be adjusted with a self-diagnostic system, temperature and light flux control management with independent regulation, DALI or 1-10V signal to allow the insertion of outdoor lighting management devices
- UNI 11248 – EN 13201 standard classification, town and city centre streets, CE marking for street and road lighting and S marking for cycle paths and pedestrian areas
- No photo-biological risk
- LED modules guaranteed for up to 60 months
- Wi-Fi (LAN input) access system
- Integrated IP HD camera
- Base with LEDs as an optional extra



## HYDRA

Hydra is the very concept of extreme comfort: it decorates urban centres, creating pleasing atmospheres with light and shadow and reaches the highest standards of comfort with:

- Maximum colour rendering and warm light
- No glare thanks to its wide emission surface
- High-efficiency remote phosphor glass directed outwards

The shape provides “architectural” lighting to cover urban areas with an atmosphere that is almost scenographic. The inner part can be formed with different materials and finishes, so as to create different looks to suit the area. The coating has been devised for maximum dissipation of the heat produced by the LED module, which is made for remote phosphor technology. The LED module consists of a blue LED with a high reflection mixing chamber and phosphor glass that looks white when switched off, so there is no unsightly yellow colour. The standard LED module has been designed to provide constant lumen output throughout the lamp post’s useful life, together with maximum light quality and energy savings. Neri has also prepared HYDRA to fit a Wi-Fi access system.

## Characteristics

- Colour temperature 3000K - 4000K
- Flux system from 2500lm to 4500lm
- Light point used at a height of 3m - 4m
- The heat dissipation system is an essential part of the top cover on the lighting system
- Electronic systems that can be adjusted with a self-diagnostic system, temperature and light flux control management with independent regulation, DALI or 1-10V signal to allow the insertion of outdoor lighting management devices
- No photo-biological risk
- LED modules guaranteed for up to



## MATAR

In terms of performance, Neri has developed specific products such as Matar to achieve the following targets:

- High efficacy, lm/W ratio
- Conformity with EN and IES for street and urban lighting, i.e., the minimum value required for the amount of light, uniformity and glare.
- Light quality with low angle of colour deviation and a standard colour temperature of 4000K
- Light distribution for street lighting, both for luminance (optic NLG - 11, cd/m<sup>2</sup>) and illuminance (optic NLG - 12, lx)
- No light pollution, eco compatible, maximum efficiency and reduced CO<sub>2</sub> emissions

The cover has been engineered for the best possible dissipation of the heat produced by a LED module comprised of 60 power LEDs, all driven at constant current. Neri is attentive to creating harmony between its installations and the context in which they are placed; for example, the proportions between the post and the width of the street, to the extent that it uses photometric techniques to guarantee that post height is less than the width of the street. The Matar LED module has been engineered to provide constant lumen output throughout the lamp's life cycle, combined with quality lighting and energy savings, which is why it uses next-generation LEDs for maximum power efficiency and low consumption.

## Characteristics

- Colour temperature 4000K - 3000K
- 5 system flux steps from 4500lm to 10800lm, with steps respected for any temperature colour
- Light point used at a height of 6m - 8m
- Post height < street width
- The heat dissipation system is an essential part of the top cover on the lighting system
- Electronic systems that can be adjusted with a self-diagnostic system, temperature and light flux control management with independent regulation, DALI or 1-10V signal to allow the insertion of outdoor lighting management devices
- UNI 11248 – EN 13201 standard classification, ME and CE marking for street and road lighting
- No photo-biological risk
- LED modules guaranteed for up to 60 months
- Inner perimeter lit with LED, coloured lighting effects at night (nocturnal)



## ATLAS

In terms of performance, Neri has developed specific products such as Atlas to achieve the following targets:

- High efficacy, lm/W ratio
- Conformity with EN and IES for street and urban lighting, i.e., the minimum value required for the amount of light, uniformity and glare.
- Light quality with low angle of colour deviation and a standard colour temperature of 4000K
- Light distribution engineered for street lighting (topic lighting, lx) and for large areas such as squares and car parks
- No light pollution, eco compatible, maximum efficiency and reduced CO<sub>2</sub> emissions

Atlas can be fitted with a maximum of two fittings per arm. These can even have different types of optic: one for street lighting and the other for large areas. The covers have been designed for the best possible dissipation of the heat produced by the two standard LED modules for street lighting. The standard LED modules engineered to provide constant lumen output throughout the lamp's life cycle, combined with maximum quality lighting and energy savings. Neri is attentive to creating harmony between its installations and the context in which they are placed: for example, the proportions between the post and the width of the street, which is why it uses photometry, a measurement that helps to calculate pole height to ensure it is less than the width of the street.

## Characteristics

- Temperatura del colore 4000K - 3000K
- System flux steps from 8000lm to 32000lm per arm
- Light point use at a height of 7m - 9m
- Post height < street width
- The heat dissipation system is an essential part of the top cover on the lighting system
- Electronic systems that can be adjusted with a self-diagnostic system, temperature and light flux control management with independent regulation, DALI or 1-10V signal to allow the insertion of outdoor lighting management devices
- UNI 11248 – EN 13201 standard classification, CE marking for lighting streets and large areas
- No photo-biological risk
- LED modules guaranteed for up to 60 months
- Arm lit by internal LEDs to show off the structure, colours and lighting effects at night



## 804 FORTIMO LANTERN

The 804 lantern with LED Fortimo LLM module, is Neri's proposal for renewing historic town centres, achieving comfort through:

- High colour rendering index and warm light
- Excellent glare control
- Light distribution to light up streets and cycle paths, considering semi-cylindrical surfaces
- No light pollution, eco compatible, maximum efficiency and reduced CO<sub>2</sub> emissions

The cover has been engineered for the best possible dissipation of the heat produced by the Fortimo. The 804 lantern allows the Fortimo to work at 10°C less than the temperature of the Philips Lifetime, Ta 25°C. The Fortimo LLM LED module has been devised to provide constant lumen performance throughout the life cycle of the post, combined with maximum quality light and energy savings. Remote phosphors offer an excellent level of visual comfort, controlling glare and ensuring even light colour. The module has been built using next-generation LEDs to guarantee the highest level of energy efficiency throughout the item's lifetime. Optic systems with anodized material technology have increased efficiency and reduced the problem of glare that often occurs with traditional LED systems. The special shape of the source, together with maximum efficiency lighting solutions, are a further guarantee of excellent performance.

### Characteristics

- Colour temperature 3000K - 4000K
- Fortino flow from 3000lm to 4500lm for both colour temperatures
- Light point used at a height of 3.5m - 4.5m
- The heat dissipation system is an essential part of the top cover on the lighting system
- Electronic systems that can be adjusted with a self-diagnostic system, temperature and light flux control management with independent regulation, DALI or 1-10V signal to allow the insertion of outdoor lighting management devices
- UNI 11248 - EN 13201 standard classification, town and city centre streets, CE marking for street and road lighting (optic NLG-31) and S marking for lighting cycle paths and pedestrian areas (optic NLG-32)
- No photo-biological risk
- LED module guaranteed up to 60 months



## ASTER

Aster is the concept of a new type of bench offering hospitality, shelter, interactive lights and other utilities, such as Wi-Fi connection. Aster can also emit a soft sound of birdsong during the day, replaced by crickets after sunset. And on the subject of night-time atmosphere, this “bright” idea is based on OLED (Organic Light Emitting Diode) technology, which led Neri, through the Emo design studio, to create this original street furniture solution. The OLED, which is on the leading edge in terms of thickness and performance, is housed inside a fine glass surface, where it enhances and optimises the light source, which can be controlled by touch screen. The idea of a transparent cover, with forty-four “organic diodes” that can be controlled by the user, means that you can think years ahead, to when light will totally and without technological constraints mean luminescent surfaces able to offer record-beating performance, unthinkable just a few years previously. The smart city accessories mean thanks to bluetooth, anyone (with a Smartphone, for example) can listen to their own music through the vibrations of the structure. Preparation for Wi-Fi connection also means that the bench can dialogue online as well as allow people to navigate using their pc, tablet or Smartphone. The seat is in three parts, each of which can be used separately as a table and chair. The top part of the surface is angled to recover water, which can easily be channelled to a collection point. All materials have been selected and used with an eye to protecting the environment and to recycling, from the cement seats to the water-based paint process.

### Characteristics

- OLEDs with colour temperature of 2700K
- Four different light scenarios, with touch control (DMX protocol)
- Bluetooth connection
- Audio system derived from

