NERI





Neri: Smart Site-Specific Light

The intelligent, sustainable urban lighting system that promotes a higher quality of life for humans and the environment.



The challenge

Neri has long embraced the challenge of creating increasingly sustainable and efficient models.

The goal is to create a light that respects the environment and our needs, without compromising on quality and functionality.



The new renaissance oflight

The new renaissance of light helps to put people at the heart of the project.

Versatility

A model that allows us to remain consistent with our approach to designing elegant and functional lighting systems that seamlessly integrate with the style and context of cities, without neglecting the aesthetic aspect of urban lighting.

The intelligence solution

Innovation

It is an intelligent, constantly evolving solution that enables the reduction of energy consumption, CO2 emissions, and light pollution, while simultaneously ensuring greater safety, efficiency, and flexibility.

These results are continuously achieved through the use of innovative technologies such as latest-generation LEDs, sensors, solar panels, wireless networks, and machine learning models.

FAUNA

NERI SMART SITE-SPECIFIC LIGHT



DESIGNING WITH PEOPLE AND THE PLANET IN MIND





Portfolio

Kruithof Light

Adjustment Light

Q GEOGRAPHICAL POSITION Latitude and Longitude

AQ

A · URBAN CENTER

A system that adapts to the needs

of those living in urban environments,

respecting the natural rhythm of daylight.

KRUITHOF LIGHT

Every place has unique characteristics; therefore. Neri's technologies take geographical location into account to configure their lighting devices.

QQ (P)

B · SUBURBAN ZONE ADJUSTMENT LIGHT

A system that embraces the tranquility of residential areas, respecting the harmony of surrounding ecosystem.

NERI SMART SITE-SPECIFIC LIGHT

A light that benefits both the planet and people

NATURALAREAS

(C)

SUBURBAN ZONE

(B)

URBAN CENTER

(\mathcal{P})

C · NATURAL AREAS PURE AMBER

A system designed to protect nature and wildlife, offering a harmonious balance between human needs and species conservation.

 \bigoplus AREA OF INTEREST Installation zones

> The installation location determines the type of technology that can be applied to achieve the best possible results while respecting both people and the environment.

Pure Amber

- The photometric distribution is dynamic and light temperature can be adjusted to enhance comfort and reduce the environmental impact.
- The goal is visual comfort. By understanding the context, you can create a unique and harmonious bright experience respecting the local aesthetic.

- Discover our lighting solutions designed to enhance and respect urban, residential, and natural environments.
- Designed to seamlessly blend into urban environments, it adjusts light intensity and tone to suit both day and night needs, combining functionality and aesthetics.
- A versatile solution designed to enhance the ambiance of residential and natural areas within the city, adapting to the specific needs of each location while respecting the surrounding environment.
- Amber light helps protect wildlife, making it an environmentally friendly choice that minimizes disruption to natural habitats.

Neri: EnlightenMe

EnlightenMe is a research project funded by the European Commission that studies the effects of artificial light on citizens' health and well-being, in three cities: **Bologna** (Italy), **Amsterdam** (Netherlands), and **Tartu** (Estonia).

The intervention Piazza Lambrakis in Bologna is an example in which the involvement of the local community, the scientific approach of the design and the technical comparison with Neri have played a fundamental role in the entire design process.

The experimentation began with a sociological and urban planning study of the neighborhood that actively involved the local community.

Through workshops and meetings, the study highlighted the square's identity and guided the lighting design process. Interviews revealed that the square is a vital gathering place for the elderly population but suffers from poor lighting at access points, increasing feelings of insecurity.

The goal was to preserve the identifying atmosphere, making the system dynamic and adaptable to different needs. The project involved the retrofit of the historic lanterns with 803 Neri lanterns, the elimination of the ceiling lights and the insertion of new luminaires equipped with dimmable LEDs and Tunable White. This technical data is a fundamental part of the ENLIGHTENME project. Thanks to this feature, the square can change atmosphere in relation to the time of day and year, ensuring greater visual comfort for users and ensuring a dynamic nocturnal image of the square.

The intervention included the installation of Pictor models mounted on pillars for indirect lighting and Nebula models with three projectors for the statue area and the green area. Together with Neri's technical support, it was possible to create control groups, set lighting scenarios and programmed activations, controlling both the emitted flux and the color temperature.

The community can now actively manage the lighting.

		New lighting for with projecto	or the "Arcades" pro rs mounted on pilla
Private Area	Via Dallolio	Green Area	Illustration: Light

Arcades

Private Area

Multi-head posts in green areas and gathering points.

8 Neri · Smart Site-Specific Light

Bologna

Solution





ambrakis square

t Follow Behaviour





Neri: Ninja Turtles

	The life of a sea After about 60 d turtles would ins by the light refle
Context	Today, however, to ocean but from to most beaches. In these condition disoriented, losi
Analysis	The state of Flor the United State asignificant risk In recent years, about their perc electroretinogra
	ERG data shows and orange wave from 400 to 640 within these spe disorientation.
Solution	To address this, solution that co (for wildlife) and
Wavelengths - Amber Light	This innovative s switch between
Wavalangtha White Light	Once hatching ti amber, ensuring is complete, the
wavelengths · while Light	

The first project to adopt this groundbreaking solution is located in Fort Lauderdale (FL), following a redevelopment project by EDSA.

turtle begins in darkness. ays, under natural conditions, dozens of baby stinctively head towards the ocean, attracted ected on the water.

the brightest light doesn't come from the the hotels, condos, and restaurants crowding

ons, the littles ones quickly become ing their bearings, and risking their lives.

rida is home to 90% of the sea turtles in es, and the loss of so many individuals pose to the long-term survival of the species. researchers have attempted to learn more eption of brightness using a procedure called phy (ERG).

that turtles are more sensitive to yellow elengths of the visible spectrum, ranging nm. Using new LED lights that operate ecific ranges would drastically reduce

Neri has developed an STC-approved mbines the best of both worlds: Amber Light White Light (for pedestrians and vehicles).

system allows a single fixture to seamlessly the two light spectrums.

ime arrives, the white light transitions to safe passage for the turtles. After the process light returns to its original wavelength.

Product Portfolio



LIGHT 803 LANTERN

The iconic design of the Light 803 makes this lantern available with or without side diffusers, making it the ideal fixture for historically and architecturally significant settings. In addition to offering high energy savings, it ensure reduced glare and excellent lighting performance.

MATERIALS

Made of die-cast aluminum, it consists of two square-shaped elements with a stainless steel fastening system that allows for tool-free opening. The protective screen is made of flat tempered glass, with impact resistance rated at IK09 and IK07, available in transparent or prismatic versions.

Our range includes elegant and functional lighting solutions, ideal for historical, architectural, and urban contexts. A perfect balance between construction quality, refined design, and energy efficiency to adapt to the different lighting needs.

Our products integrate advanced technologies to offer excellent performance with a reduced energy impact, thus contributing to resource conservation.

We are committed to promoting solutions that not only meet aesthetic requirements but also ecological ones, supporting a more sustainable future for everyone.





POST TOP LUMINAIRES · POLIS COLLECTION

This product is designed to efficiently and discreetly illuminate residential areas, parks, squares, and city centers. Polis is the result of a design process aimed at achieving the perfect balance between aesthetics and performance. Timeless forms and high-quality construction are combined with innovative lighting solutions.

KEY FEATURES

· 8 photometric distributions and 9 lumen output options, from 2500 lm to 13500 lm;

· 3 standard correlated color temperatures: 2700K, 3000K, and 4000K;

• 6 different control options, with CCT 2200K available as an optional feature.



LANG LANTERN

Lang is characterized by two light sources positioned side by side. For each source, it is possible to select the distribution and flux, providing maximum flexibility and customization with a single lighting fixture.

MATERIALS

The product is made from cast and sheet aluminum in accordance with the UNI EN 1706 standard. It features extra-clear flat glass with a prismatic finish, stainless steel screws, and a polycarbonate (PC) reflector.



POSTS · PICTOR COLLECTION

Pictor, an urban lighting system developed by Neri, offers various solutions characterized by a minimalist and essential aesthetic that integrates seamlessly into any environment. The balance of forms and meticulous attention to construction quality are complemented by excellent performance. The LED engines are configurable in terms of color temperature and luminous flux.

KEY FEATURES

- \cdot 3 available pole system heights: 400 cm, 500 cm and 600 cm;
- · 3 available bollard system heights: 60 cm, 90 cm, and 250 cm;
- · 7 photometric distributions and 4 control options.

RECONFIGURE YOUR LIGHTING WITH REFITTING KIT

DESCRIPTION

KEY ADVANTAGES

KEY ADVANIAGES
LED Current < 400 mA;
Shield in extra-clear and prismatic tempered glass;
Ease installation and maintenance;
Flexibility installation, designed to fit all lighting fixtures;
Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II);
Smart City Ready - Zhaga Book 18 connector and remote management in compartment IP66 (on request);
Neri Kruithof System (Tunable White Technology);
Wide range of optical lighting distributions (on request);
NPSB - Neri passive safety board;
Visual Comfort;
Main body in Die-cast Aluminum;
Disassemblable.

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ENEC safety mark;
 In compliance with EN 60598-1; EN 60598-2-3; EN 62031;
 EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.

MECHANICAL INFORMATION

Height	Width	Lenght	Weight	IP	IK
100 mm	185 mm	245 mm	2,0kg	66	09

ELECTRICAL CHARACTERISTICS

Voltage	Frequency	Cos ¢	Operative Temp.				
220-240V	50/60 Hz	>0.95	-35°C/+50°C				
Wiring predisposition: for electrical insulation Class I or II							

(refer to the installation manual for the connection modes).

CONNECTION

COMPLIANCE

Refitting kit is set up for fixing on a 1,5mm thick flat plate. For installation on third parties lanterns please contact us.

MATERIALS

Die-cast aluminium (UNI EN 1706);
Extra clear transparent and prismatic tempered flat glass;
Polycarbonate;
Stainless steel fasteners;

· Polyamide PA6.

STRUCTURE - MAIN COMPONENTS

Integrated heat sink in cast aluminium;
 Shield in extra-clear tempered glass with impact resistance

- IK 09 (EN 62262); • Frame for fixing the kit to the plate in polycarbonate;
- Possibility to install auxiliary devices comply to Zhaga Book 18.

ELECTRICAL AUXILIARIES

Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000h and Standard surge protection for differential/common mode 10kV/10kV (CL I, CL II).

OPERATIONS AND MAINTENANCE

It is necessary to check in advance the state of the lighting fixture that will house the refitting kit and, if necessary, restore it;
The refitting kit can be installed only by qualified personnel, responsible for the intervention;

Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual;
It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

PAINTING

Powder coating;
 Matt white colour.

ACCESSORIES

PIR Presence detector;
Infrared programmer for presence detector (cod. 7019.030.002).

TECHNICAL SHEET



245mm



245mm





DESCRIPTION

OPTIC CONFIGURATION · TRANSPARENT SCREEN

LIGHTING DISTRIBUTION	DISTRIBUTION TYPE	LOR*	ULOR
Type II · D	Asymmetric	100%	0%
Type III • B	Asymmetric	100%	0%
Type III · C	Asymmetric	100%	0%
Type III • H	Asymmetric	100%	0%
Type I · A	Center road	100%	0%
Type IV · A	Forward throw	100%	0%
Type IV · C	Forward throw	100%	0%
Type V · A	Rotosymmetric	100%	0%

Modular (2 X 2) refractive lens in PMMA.

Maximum luminous intensity class $\gamma \ge 90^\circ$: < 0.49 cd/klm.

* Optical efficiency of the device due to physical shielding.

LED SOURCE FROM 2200K TO 4000K - TABLE DATA: 3000K

SYSTEM**			LED MO	LED MODUL		
lm	w	lm/W	mA	w	lm/W	
2500	24,0	104	300	19,9	126	
3500	33,8	104	430	29,1	120	
4500	44,0	102	565	38,3	117	

LED type: Nichia NVSLE21AT. Life time specification for gradual light output degradation (EN 62722-2-1, LM80 data) 100,000h L80B10 (Tq = 25° C). Colour Rendering Index: Ra \geq 80.

** The energetic values in the table are referred to the LED + Power supply.

CCT CONSUMPTION FACTORS TABLE

Correlated colour temperature (CCT)	2200K	2200K	2200K	2200K	2200K
Power factor	1,23	1,05	1,00	0,97	0,95
correction - PF CTT	(123%)	(105%)	(100%)	(97%)	(95%)

PF CTT

Absorbed power correction factor due to variation of correlated colour temperature (CCT).

OPZIONI DRIVER · FUNZIONI

NVLK + NCL (Ciclo mezzanotte virtuale schema Kruithof + Neri Constant Lumen)
DALI (DT8)* (Digital control) - *Prioritario rispetto a NVLK

PRESET LIGHTING SCENES

Preset lighting scenes can be programmed with DALI 1signal, creating one's own favourite composition.

01	02	03	04	05
4000K	3500K	3000K	2700K	2200K
(lm 100%)				
06 07		08	09	10
4000K	3500K	3000K	2700K	2200K
(lm 75%)				
11	12	13	14	15
4000K	3500K	3000K	2700K	2200K
(lm 50%)				



POLAR DIAGRAMS



TYPE III - C

Luminous intensity class · G*2

TYPE III - H Luminous intensity class · G*6



TYPE I - A

TYPE IV - A Luminous intensity class · G*2







For further information contact the company.

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