

NITEKO 
ILLUMINAZIONE



2024
CATALOGUE



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THE COMPANY



We are masters of light

Niteko designs LED lighting systems for streets, urban spaces, large areas and sports facilities by paying close attention to reality, extremely respecting the man-nature relationship and using colours in an innovative way.



This is a perfect example of an Italian excellence combining manufacturing knowledge and constant ability in reinventing future, in order to conceive both long lasting fixtures and systems characterized by a perfect balance between aesthetics and functionality.

In **2005** we were **pioneers in proposing and installing the first street lighting prototypes with power LED technology in Puglia**. This study was published by our founders with the scientific article *Led-based Public Lighting System Reliability for a Reduced Impact on Environment and Energy Consumption*, presented in 2007 during the IEEE international conference in Hammamet, Tunisia.

After dealing brilliantly with issues related to the early stage of affirmation of this new technology,

we expanded our offer thanks to three ingredients: passion, high specialisation, and determination in facing new challenges.

Over time, we succeeded in positioning ourselves in a market dominated by big traditional players with classic and standardised offer.

Today we can say that our ability in providing innovative and personalised solutions makes Niteko's customers buying experience unique.

NITEKO FORMULA

We decided to focus exclusively on the production of lighting fixtures for streets and large areas; this allowed us to obtain specific skills and experience in this sector and offer customers exclusive services such as:

1. LIFETIME WARRANTY

By carefully choosing components from among the latest technologies, we are able to provide a solution for all operational requirements, and to offer high-quality products with a failure rate of less than 0.2% per year so guaranteed for their lifetime.

2. HIGH PRODUCT PERSONALIZATION

We design retrofits for the conversion of traditional lighting fixtures of historical/artistic value to LED and we conduct customised photometric studies to guarantee the optimal solution, minimise energy consumption and product cost.

3. FAST PRODUCTION SPEED

Niteko Lean Strategy enables us to:

- > minimise waste;
- > speed up production time with no minimum ordered quantity;
- > ensure on-time departures.



WARRANTY

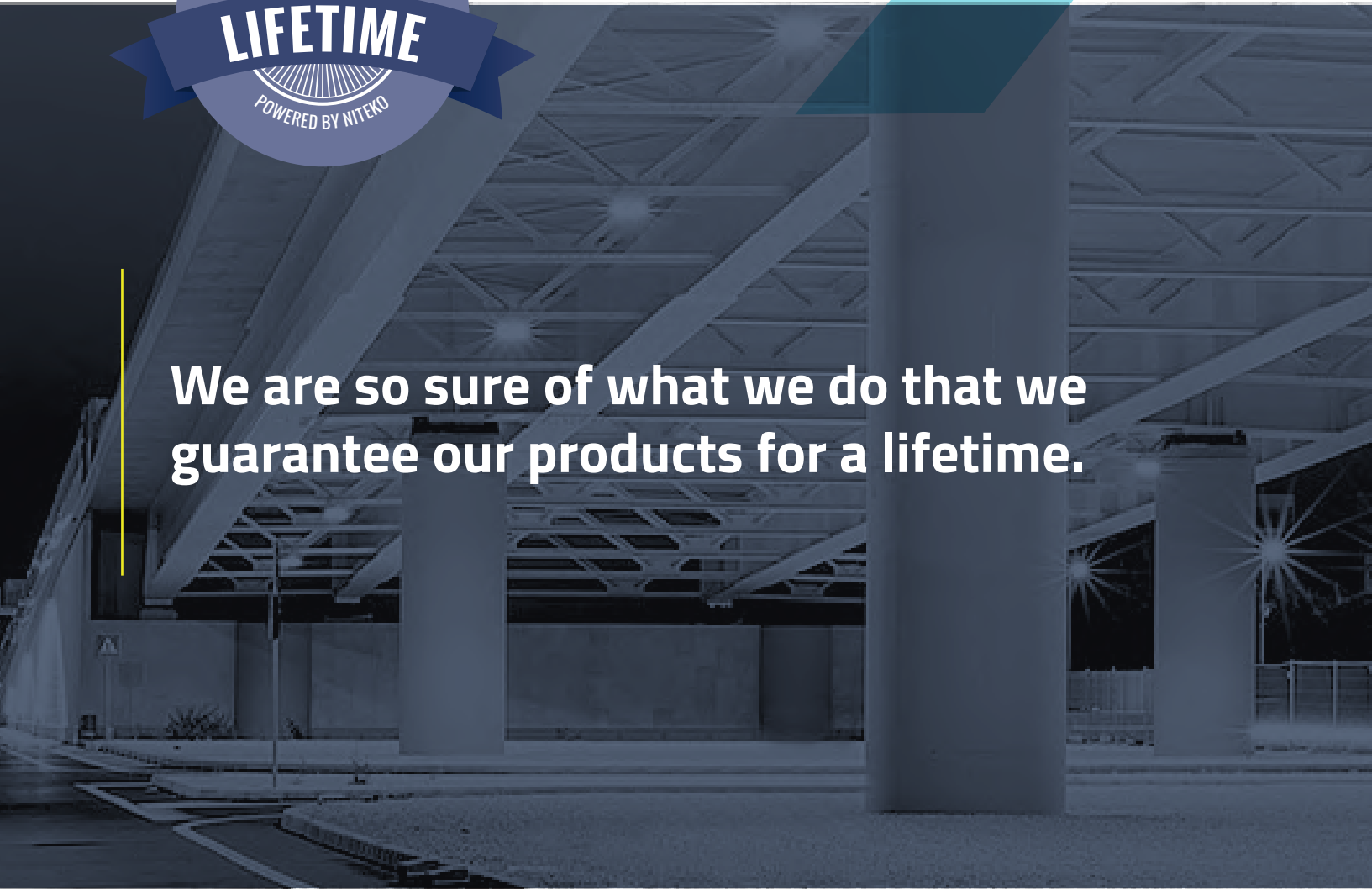
We believe no investment should ever be in the dark

We chose to design powerful LED lighting fixtures by investing on reliability and quality.

Our commitment, together with the continuous investment in innovation, enable us to guarantee our products over time.



We are so sure of what we do that we guarantee our products for a lifetime.



RESEARCH AND DEVELOPMENT

One of the most important department in Niteko



We continuously work updating and innovating existing lighting systems and finding answers to future problems. The products and solutions we design respond to the latest demands of the continuously changing market.



Our vision is constantly evolving, thus our team of experts keeps training in order to improve the skills acquired, in line with technological developments.

In fact, **we have always brought our idea of innovation into the spotlight**, still bearing in mind our research approach.

2016

We presented the compact and most powerful modular LED floodlight on the international scene at the Light + Building fair in Frankfurt.

2017

We designed and patented a composite heat sink for LED lighting fixtures made with carbon fiber; this is capable of improving dissipation with considerably reduced dimensions.

2018

We produced the first compact and high-power 5,000W floodlight with a special optic specifically designed for indirect lighting.

2019

We realised projects with the latest generation LEDs of 2,200K colour temperature, in full compliance with the regulations on light pollution.

2022

We studied the application of innovative and sustainable materials in public lighting. Part of this research is collected in the manual *Soluzioni contro la corrosione negli apparecchi di illuminazione urbana* published by Maggioli Editore.

TECHNOLOGY AND PATENTS



Our lighting fixture materials perfectly resist high temperatures, without releasing volatile organic compounds that are extremely harmful to LEDs.



The **Advanced EOS Protection System** technology protects LEDs from damages due to electrical overstresses. The failure rate of our installations is less than **0.2% per year**.

THE GONIOPHOTOMETER



The goniophotometer is the main instrument of our in-house photometric laboratory. It is equipped with very high precision probes (± 0.01 Lux) integrated with an optical-telescopic system able to acquire pin-point light, thus improving measurement accuracy.



Its hardware interface and powerful management software allow us to acquire and process measurement values via computer, so ensuring the possibility to manage the movement of the structure automatically.

PERSONALISED SERVICE

THE RETROFIT DESIGN

Our entire team is committed to offering a personalised service, the most appropriate for the specific case, so differing from the excessive market standardization.

We study and propose **retrofit custom solutions** and mounting systems in a short time, while providing specialised and highly qualified technical assistance.

Thanks to the attention and care that we reserve for this service, we are able to **satisfy any request** of energy efficiency and urban modernization, as well as the need of preserving the cultural value of the historical luminaires.



A TARGETED DESIGN

We shed light on spaces and objects to illuminate

We tailor the final project after a careful analysis of the economic, normative, energetic, aesthetic and environmental impacts.

We offer the possibility to evaluate in advance the outcome of the project, the number, type and positioning of the luminaires thanks to specialized softwares.



**CUTTING EDGE
SOFTWARE**



**DESIGN AND VIRTUAL
SIMULATION OF PROJECTS**



**TECHNICAL SUPPORT
AND REPORT**

Designing a lighting project requires the use of artificial light in full compliance with the current regulations in order to create the best conditions of comfort, efficiency and safety for users. The lighting design software we use permits us to carry out the necessary tests by processing

the entered data for producing calculations and photorealistic images of the illuminated environment (3-D visual representations, Isolux lines or false colour representations).

CERTIFICATIONS

ISO9001

ISO9001 is the internationally recognised reference standard for managing the quality of internal processes.

ISO14001

ISO14001 is an international standard with voluntary adhesion. It determines an in-depth knowledge of environmental aspects and defines the relevant company policy.

RoHS

The RoHS Directive is a regulation that imposes the restriction of the use of certain hazardous substances in electrical and electronic equipment.

ENEC

The ENEC is a voluntary quality mark; it testifies that the product complies with all European standards on electrical safety and low voltage.

ENEC +

ENEC+ is a voluntary quality verification mark; it can only be granted to products with ENEC mark and certifies performances of LED modules and LED luminaires.

ZHAGA D4i

Zhaga-D4i is a joint certification program from the DALI Alliance and the Zhaga Consortium. Certified Zhaga-D4i products guarantee plug-and-play interoperability of sensors, communication nodes and luminaires. The Zhaga-D4i ecosystem of lighting products enables smart, future-proof LED luminaires with IoT connectivity.

VIBRATION & SHOCK TEST

Vibration and shock testing ensures product performance under extreme conditions. Vibration testing and shock testing are used to simulate in a controlled laboratory static and dynamic stresses to which a luminaire is subjected during its lifetime.





NITEKO SRL

Viale della Libertà, 8
74020 Montemesola (TA) - ITALY

T. [+39] 099 567 12 19

F. [+39] 099 567 11 12

www.niteko.com
info@niteko.com