



# Innovation in LED Lighting

company profile

**NITEKO**  
ILLUMINAZIONE

High power LED fixture  
for outdoor applications and large areas lighting

# About us

## Niteko | Innovation in LED Lighting

**N**iteko is a company specialized in the design and construction in Italy of LED lighting fixtures for outdoor and large areas. The production chain, entirely located in the national territory, ensures the delivery of the products within 3 weeks.

Production processes are organized according to the LEAN PRODUCTION method in order to drastically reduce waste by allowing careful and constant control over the quality offered to the customer.

The continuous investment in innovation and exclusive patents in possession enable the creation of high-power LEDs that are reliable over time, designed and manufactured specifically for outdoor and large areas lighting.

The founders were the first in the world to propose a solution for a power LED street lighting application in 2005, resulting in the scientific article **“Led based public Lighting system reliability for a reduced impact on environment and energy consumption”** presented at the IEEE SSD 2006 International Conference in Hammamet (Tunisia).

# Our history

The founders, Giuseppe Vendramin, Emiliano Petrachi and Alessandro Deodati met when they were still university students.

They began as a university spin-off, working together in the field of renewable energies and lighting systems, with the aim of using LED lamps for public and street lighting.

They worked as consultants for other companies until they met the **Finsea Group Executives**, which have been operating for over 30 years in the energy and services fields and have decided to invest in the ambitious project to produce power LED lamps.

It was 2011 and Niteko was born. Since then, it has always been an ascending path, becoming a pillar in the field of LED lighting systems.

## 2014

Niteko was included in "Corriere della Sera" among the 21 "1 million Euro Italian Startups".

## 2015

The company joined the top 100 "STARTUPITALIA" and won the Castrum Minervae prize.

## 2016

Niteko presented the compact modular LED floodlight, the most powerful in the international scene with its 1.200W, during the Light + Building trade fair in Frankfurt.

## 2017

it presented an ambitious project related to a LED Heatsink for LED devices made of innovative materials that can improve dissipation with considerably reduced footprints.

# R&D division

**The R&D Department is one of the most important ones in Niteko**

The technicians created the first LED street lighting application in 2004, resulting in the scientific article "Led based public lighting system reliability for a reduced impact on environment and energy consumption" presented at the IEEE SSD 2006 International Conference in Hammamet (Tunisia) by Giuseppe Vendramin, Alessandro Deodati and Emiliano Petrachi.

Within this department, our designers and engineers continually work on the research and experimentation of new, technologically advanced and quality controlled products.

They boast an innovative design and are in conformity with the norms related to light pollution. A dynamic organization, made up of highly qualified and trained personnel, offers constant monitoring of quality products and works on the experimentation of new technologies.

Our vision is constantly evolving and our team of experts continues their training path in order to build upon the acquired skills, in line with the technological developments.

# OS Certifications



RoHS



## Business Certification

In 2012 Niteko obtained and still holds the ISO9001:2008 Certification (Quality Management System) with the authority Rina SpA.

RINA adheres to the international agreement IQNet, which represents the largest international network of certification authorities. Niteko obtained in 2015 the ISO14001: 2004 Certification (Environmental Management System) with the Dasa-Rägister SpA authority.

## Product Certification (Urano)

The Urano floodlight is certified with the brand TÜV SÜD, authority present in more than 60 countries and 800 locations around the world. The brand guarantees Urano conformity to the Safety and EMC regulations. In particular:

**EN 60598-2-3: 2003 + A1: 2011 / EN 60598-1: 2008 + A11: 2009 / EN 62493: 2010.**

## Product Certification (Guida)

The street lighting fixture Guida has the **CE Marking**, obtained from the certification authority Nemko SpA, which is represented in more than 20 locations and 12 countries. The certification guarantees Guida conformity to the **Safety regulations (60598-2-3), Electromagnetic Compatibility and Photobiological Safety.**

# Technology and patents



Niteko LED lighting fixtures boast a failure rate of less than the annual 0.2% thanks to the exclusive proprietary system of protection against electrical overstress (Advanced EOS Protection System).



Thanks to several chemical tests carried out on the lamp components, it was possible to identify materials compatible with LEDs that do not release volatile organic compounds (VOC), considered to be one of the main causes of performance decline and light colour stability. All Niteko products are 100% **"VOC FREE"**.



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

We have chosen to design power LED lighting fixtures by focusing on reliability and quality. Niteko's quality is the result of the perfect management of different stages of product development: from design to production, to sale and post-sales service of each device.

This commitment, together with the continuous investment in innovation, allows us to guarantee the total reliability of our lamps over time.

# Services

## The photometric laboratory

Thanks to the presence of a photometric laboratory, Niteko guarantees its customers measured and reliable information regarding the luminous flux and the photometric distribution of the lighting fixtures themselves.



The goniophotometer is the main instrument of this laboratory: it is equipped with high precision probes ( $\pm 0.01$  Lux), integrated with a telescopic optical system that makes the acquisition source localized, improving the precision of measurement. It has a hardware interface and a powerful management software that allow the user to capture and process measurement values through a computer, ensuring the possibility of automatically managing the handling of the structure.

Remote management allows extreme precision during the measurement phase, as it does not involve lamp handling or manual operation on the instrument. The acquired data is then stored in formats compatible with all major lighting software.



# Customized lighting design

The setting up of a lighting system means creating the best conditions for comfort, efficiency and safety of the recipients of a space where visual activity is carried out employing a certain amount of artificial light in full compliance with the current regulations.

The Niteko Lighting Design Division consists of a staff of experts who, starting from the analysis of objects to be illuminated and the places where they are located, by carrying out normative, economic, energetic, environmental and aesthetic assessments, comes to determine type, number and position of the lighting fixtures to be installed in order to achieve the desired effect.

Applied lighting design software allow the user to make the necessary calculations by processing the input data and producing as result photorealistic calculations and images of the illuminated environment (3-D visual representations, Isolux lines or scattered colour representations).



Using avantgarde software



Design and virtual simulation of projects



Technical support and Report



**We provide technical support and report on the calculation of the time needed to make up for the initial investment.**



**Niteko S.r.l.**

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