

# LED RETROFIT KIT

THE REVOLUTIONARY RETROFIT  
TO UPGRADE THE URBAN  
AND OUTDOOR LIGHTING  
WITH HIGH ENERGY-EFFICIENT  
AND FUNCTIONAL SOLUTION



# LED RETROFIT KIT

HIGH RELIABILITY  
AND PERFORMANCE



**LED RETROFIT KIT** represents the extremely functional solution that ensures high lighting levels in the street and outdoor applications.

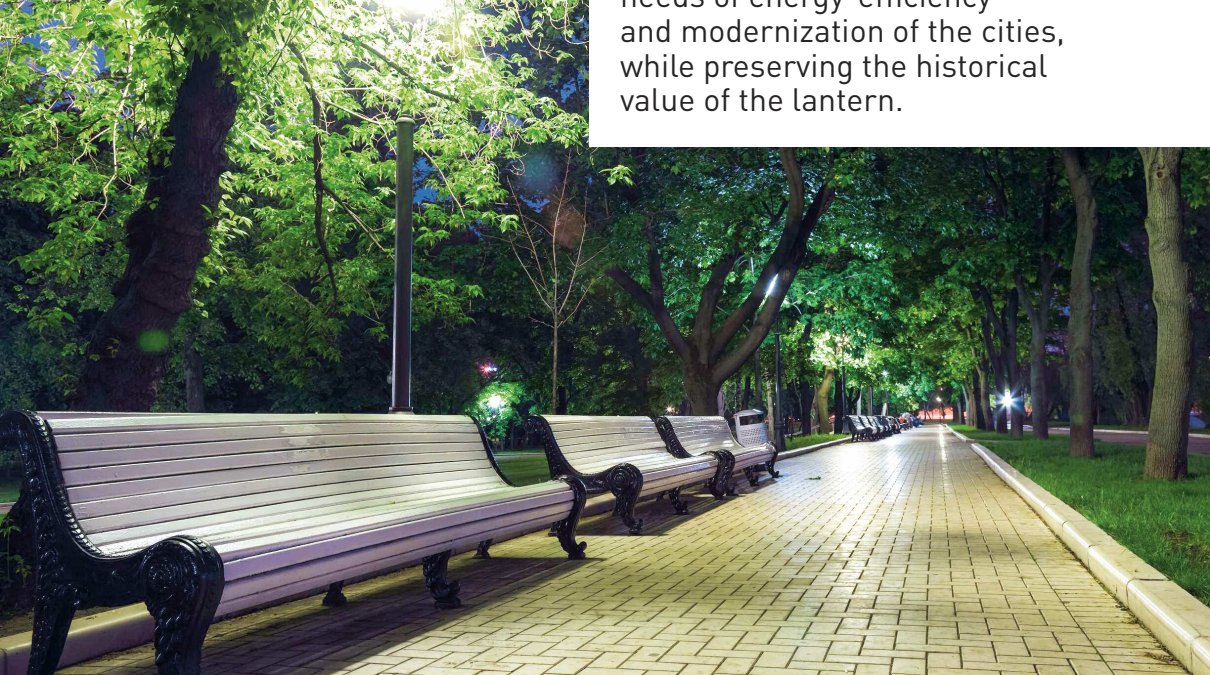
**LED RETROFIT KIT** perfectly fits inside the existing fixture, without structural changes, and ensures a quick and easy maintenance of all the electrical components.

The solution allows to upgrade the traditional inefficient technologies to a high-performing LED system, with a minimum investment.

**LED RETROFIT KIT** makes the lighting upgrade cost-effective both for energy savings, environmental sustainability and for the quality of the urban spaces.

# RETROFIT LED MODULE MAKES INCREDIBLY ENERGY-EFFICIENT THE URBAN LIGHTING

**LED KIT RETROFIT** allows to upgrade urban lighting, by exploiting the flexibility and the high performance of LEDs technology. The solution is engineered for simple and quick installation making easy to switch on LED. KIT can be mounted in existing installations, lanterns or decorative post-top luminaires meeting the needs of energy-efficiency and modernization of the cities, while preserving the historical value of the lantern.



## Benefits

- **Over 60% of energy savings** compared to the traditional technologies. Reduction of maintenance costs. Quick payback time and long-term economic benefits.
- **Modular system to perfectly answer to different lighting needs.** Excellent lighting distribution and high color rendering that ensures the proper lighting of the environment, complying with the standard.
- **Brilliant and long lifetime light.** No UV and IR. Instant-on with 100% of luminous flux. High visibility that improves the safety of pedestrian and vehicular traffic and making it easier the user orientation. Valorization of urban and public spaces.
- **Reducing the environmental impact** and lighting pollution.
- **Intelligent lighting control system**, with the possibility to integrate third-party and intelligent devices in order to create the Smart City.

## Applications

- Streets, roads, urban areas, parks, squares
- Historical centers
- Residential areas, pedestrian paths
- Logistic areas, industrial areas

# LED RETROFIT KIT

**Modular system designed to meet the different street lighting needs.**  
High-efficiency LEDs modules make LED retrofit kit perfect for multiple applications.

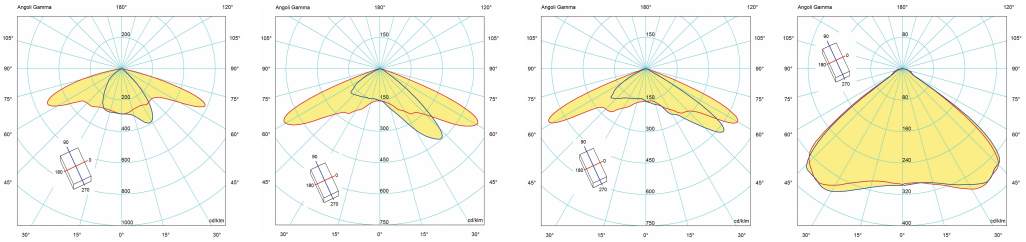
**Resistance ad high thermal dissipation**  
Fe 360 pre-galvanied mounting base.  
Heatsink in extruded aluminum for excellent heat dissipation. Powder coating RAL 9003.



**High energy-efficiency and lighting performance.**  
**Maximum luminous flux with minimum power consumption.**  
High-efficiency LEDs, lighting performance guaranteed over time.

**Optics for every lighting design need**  
Resistant and high-performance optics. They perfectly meet the needs of multiple street environments by guaranting brilliant light over time.  
High uniformity, maximum lighting control, no glare and reduction of lighting pollution.

## Photometric data



## Features

<b>Installation</b>	Outdoor
<b>Lumen package range</b>	From 4.200lm to 7.800 lm
<b>Power consumption</b>	From 35W to 65W
<b>Operating temperature range</b>	-40°C + 50°C
<b>Materials</b>	Fe 360 pre-galvanied mounting base Heatsink in extruded aluminum Optics in polycarbonate
<b>Ingress protection</b>	IP 66
<b>Impact Resistance</b>	IK 10
<b>Electrical safety class</b>	II (standard)-I (on request)
<b>Rated Voltage</b>	100÷240 V ac, 50/60Hz
<b>Driver</b>	Integrated
<b>Color temperature</b>	Warm white, Neutral white, Cool white
<b>Color rendering index</b>	CRI > 70 standard; CRI > 80 in opzione
<b>Photobiological safety</b>	Exempt Group
<b>Light degradation</b>	>100.000 h (L80/B10)
<b>Protections</b>	NTC protection (upon request, subject to feasibility check) Overvoltage, Over temperature, Electrical short circuit Surge protection: 6kV differential mode/ 10kV common mode
<b>Certifications</b>	CE
<b>Warranty</b>	6 years

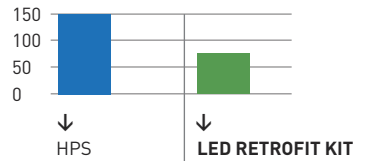
**Dimensions | mm    Weight | kg**

337x337x62	2,45
337x337x100,5	2,75

### TECHNOLOGIES COMPARISON

Traditional vs LED Retrofit kit

#### New lighting system



**Reduction of installed power 57%**

### Lighting control options

In the standard version, the luminaire is provided with a constant LEDs current. Analog dimming option (ex. 0-10V) is available upon request.

### Intelligent lighting control system

(option upon request, subject to feasibility check) The lighting fixtures can be equipped and integrated with the remote control system that allows to manage and monitor the lighting system. The remote control system also provides to enable value-added services and functions in order to create the SMART CITY. For more information, please visit our website [www.greenledindustry.com](http://www.greenledindustry.com) and download the brochure "Intelligent lighting control system".

Please visit [www.greenledindustry.com](http://www.greenledindustry.com) for complete and updated data sheet

## Case Study



### Municipality of Piancastagnaio (SI)

Installation of 1500 Greenled Industry's lighting fixtures. Installation of 250 LED RETROFIT KIT. Lighting remote control system "point-to-point".

#### Over 70% of energy savings achieved

thanks to high-efficiency luminaires and intelligent lighting control system

#### Reduction of maintenance costs

and lighting system complying with the standard.

Enabling value-added services for Smart City

**Greenled Industry** is an Italian company specialized in LED lighting systems that are suitable for industrial environments, also in harsh environmental conditions, street and large areas lighting, commercial lighting.

The company offers made in Italy solutions that ensure high quality, superior performance and long life time, guaranteeing excellent lighting results.

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*In order to guarantee a continuous updating of its products, Greenled Industry reserves itself the right to modify the contents without notice.*



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