

RETROFIT



# RETROFIT



Historical and monumental



Calles residenciales



Residential streets



Pedestrian areas



Parks and gardens



Bicycle lane

# RETROFITHISPALED





## Tailor-made solution for retrofitting existing streetlight to LED technology

### VERSATILITY AND COST-EFFECTIVENESS

HispaLED's Retrofit series is an optical compartment that allows direct and customized adaptation to existing ornamental lanterns, both classic and modern.

Practical and economical solution for the renovation of traditional discharge luminaires, which allows to reduce energy costs and enjoy all the advantages of LED lighting, with a very low investment.



#### TECHNICAL DATA SHEET

CE; RoHS; EN 60598-1:2009 + A1:2009; EN 60598-2-3:2003 + Corr:2005 + A1:2011; EN 62031:2009 + A1:2011; EN 62471:2008; IES LM-80; EN 61347-1:2008; EN 61347-2-13:2006; EN 55015:2006 + A1:2007 + A2:2009; EN 61547:2009; EN 61000-3-2:2006 + A1:2009 + A2:2009; EN 61000-3-3:2008; EN 61000-4-2,3,4,5,6,8,11; UL 8750; IEC 60598-1:2008; IEC 60598-2-3:2002; IEC 62031:2008; IEC 62471:2008; IES LM-80; IEC 61347-1:2008; IEC 61347-2-13:2006; IEC 55015:2006 + A1:2007 + A2:2009; IEC 61547:2009; IEC 61000-3-2:2006 + A1:2009 + A2:2009; IEC 61000-3-3:2008; IEC 61000-4-2,3,4,5,6,8,11; UL 8750;

The Retrofit Series offers solutions of up to 80W of power, allowing its easy integration in classic streetlights and urban luminaires, which makes it the simplest and most economical alternative for the adaptation to LED technology.

Its aluminum structure and its high degree of watertightness and protection against impacts make it an anti-vandalism and durable product, guaranteeing a useful life of the components of more than 100,000 hours of operation. It is usually installed in classic ornamental lanterns, but it can also be adapted to urban and pedestrian style luminaires.

This kit offers multiple lighting packages, with a wide range of photometric distributions and operating currents. Likewise, the closure of the optical compartment offers two different types of finishes, transparent or satin. The former guarantees maximum efficiency in lm/W and the latter significantly improves the visual comfort of pedestrians and drivers, giving this lantern an element of extraordinary personality, unique in the market.



# RETROFIT

## RETROFIT\*

Structure	Aluminum injection
Diffuser	Polycarbonate/tempered glass
Dimensions and weight	Tailor-made to existing lantern
Anchoring systems	Supported, bolted, suspended, etc.
Gradual inclination	Optional
Degree of protection	IP66, IK10
Warranty	5/7/10 years
Certification	CE; RoHS
Safety class	I/II

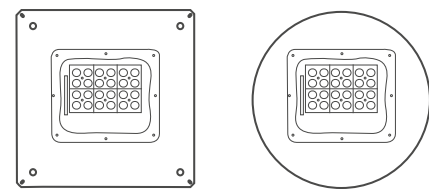
## SPECIFICATIONS

## OPTIONAL CONTROL SYSTEMS

Programmable regulation of up to 8 levels  
 Time programming module  
 (35 programs | reprogrammable from CM | winter-summer distinction)  
 Point to point remote management RFLight<sub>2</sub>  
 DALI2/D4i, 1 -10V  
 CLO (constant light level)  
 Dimming at the head-end  
 Control line dimming  
 Photocell  
 Socket NEMA 7 / Zhaga book 18  
 Others: PLC, GPRS, 3G, NFC, NFC, Bluetooth, Narrow Band 5G

## FEATURES\*

Power	10W-80W
Efficiency lm/W	Up to 170 lm/W
Input voltage	90-305 V / ~ 50-60Hz (depending on model)
Power supply	PF > 0.95, Efficiency > 88% (depending on model)
Lifetime	>100,000 hours (L90B10)
LED Type	Cree®, Nichia®, Osram®
Color temperature	1,800 K - 6,000 K / PC-Amber / RGB
Minimum CRI	70/80
FHS	0%



custom dimensions

## VERSIONS\*

	ECO	STANDARD	PREMIUM	
<b>OVERVOLTAGE PROTECTION</b>				● Included ○ Optional ✗ Not available
10 kV (en f. alim.)	●	✗	✗	
10 kV (SPD ext.)	✗	●	●	
20 kV (SPD ext.)	✗	○	○	
<b>REGULATION</b>				
8 Levels	●	●	✗	
MPH (reprogrammable)	✗	○	●	
<b>OPERATING CURRENT</b>				
500 mA	○	○	●	
700 mA	○	●	○	
1000 mA	●	○	○	

## OPTICAL BLOCK

(Consult for more optical options)



<b>ROAD I</b> Recommended distribution on tracks with extreme spacings up to 6 times the pole height	<b>ROAD II</b> Recommended layout for roadways with a track width similar to the height of the pole	<b>ROAD III</b> Recommended layout for roadways with up to two lanes with spacings up to 4 times the pole height.	<b>ROAD IV</b> Recommended distribution on tracks with high clearances of up to 5 times the height of the pole	<b>URBAN 360</b> Recommended distribution for medium-height omnidirectional lighting, such as parks and squares
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\* Specifications are subject to change



PRINCIPALITY OF ASTURIAS  
LASTRES CITY COUNCIL (ASTURIAS)  
RETROFIT installation of HispaLED