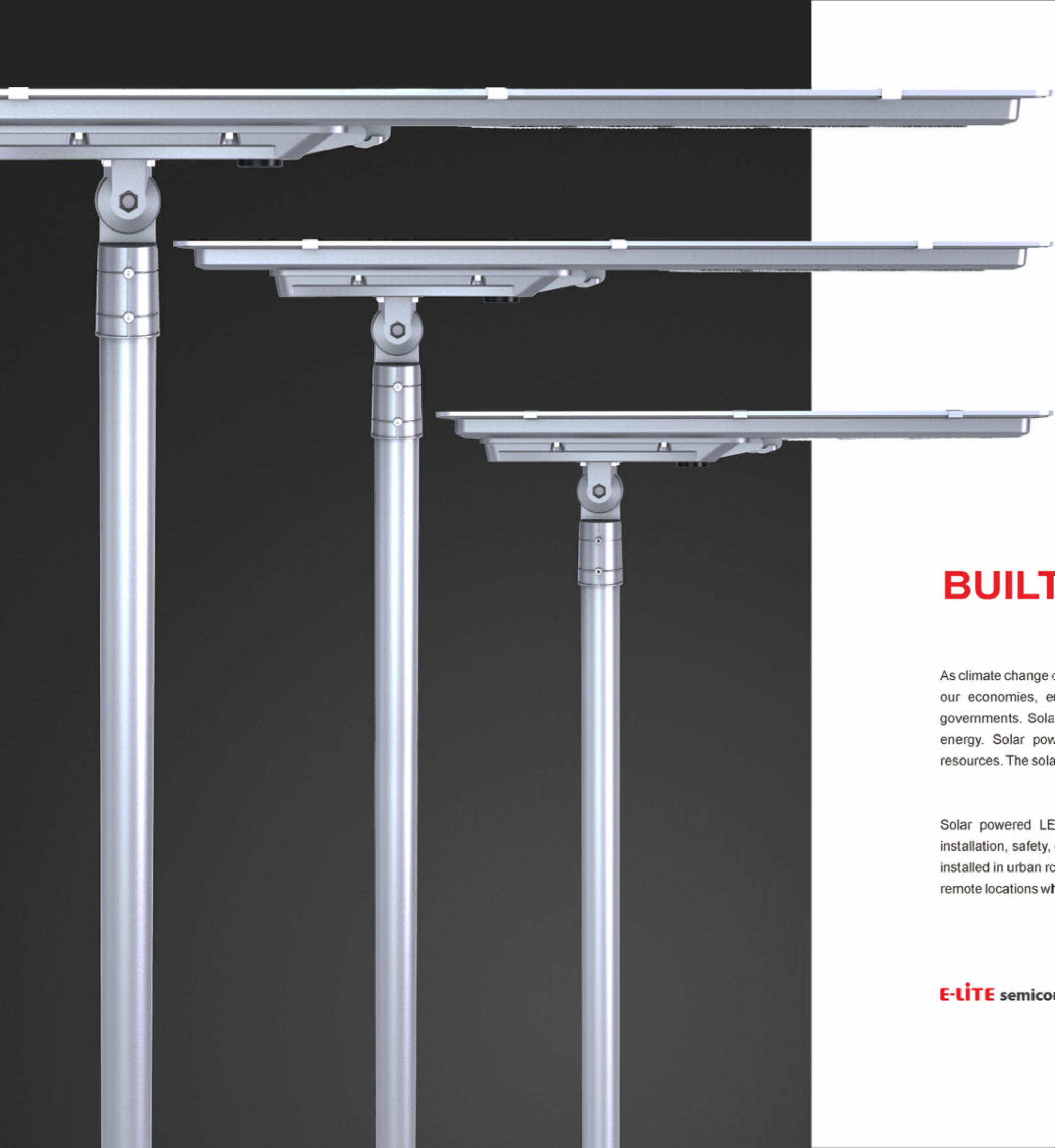


**E-LITE** semicon

# HELIOS<sup>TM</sup> SERIES

Integrated  
Solar  
Street Light





## BUILT FOR GREEN

As climate change continues to have a more severe impact on the world's safety and the health of our economies, energy efficiency continues to grow as a priority for municipalities and governments. Solar power is energy from the sun that is converted into thermal or electrical energy. Solar power is a kind of inexhaustible and environmentally-friendly new energy resources. The solar street light is one of the applications of solar power.

Solar powered LED street light has the advantages of stability, long service life, simple installation, safety, great performance and energy conservation. This kind of light can be widely installed in urban roads, living districts, factories, tourist attractions, parking lots and the area in remote locations where the electricity is unavailable or erratic.



## KEY FEATURES



All-in-one design.



Environment friendly - 100% powered by the sun, solar panels reduce fossil fuel consumption, eliminating pollution



Off-grid roadway lighting made electric bill free.



Self-contained solution - Light on/off controlled by automatic daylight sensing.



Ip66 Luminaire ensures long lasting and consistent high performance.



No trenching or cabling work needed.



Five Years Warranty.



Easy to install and maintain.





## APPLICATIONS

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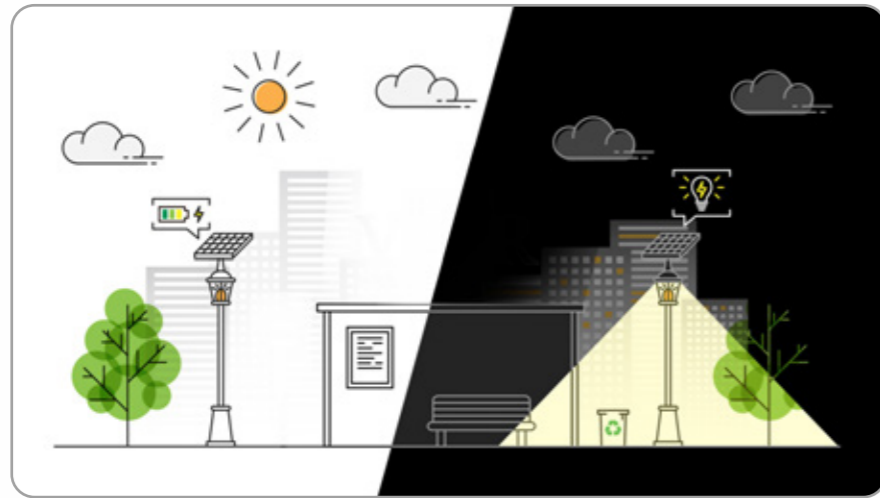
- Street Lighting
  - Roadway Lighting
  - Pathway Lighting
  - Ramp Lighting
  - Sidewalk Lighting
  - Private Road Lighting
  - Farm Lighting
  - Wildlife Area Lighting
  - Perimeter Security
  - Lighting
  - Park Lighting
  - Railway Yard Lighting
  - Fence Lighting
  - Campus Lighting
  - Ship Dock Lighting
  - Remote Area Lighting
  - Military Base Lighting
  - Gate Lighting
  - Jogging Path Lighting
- 





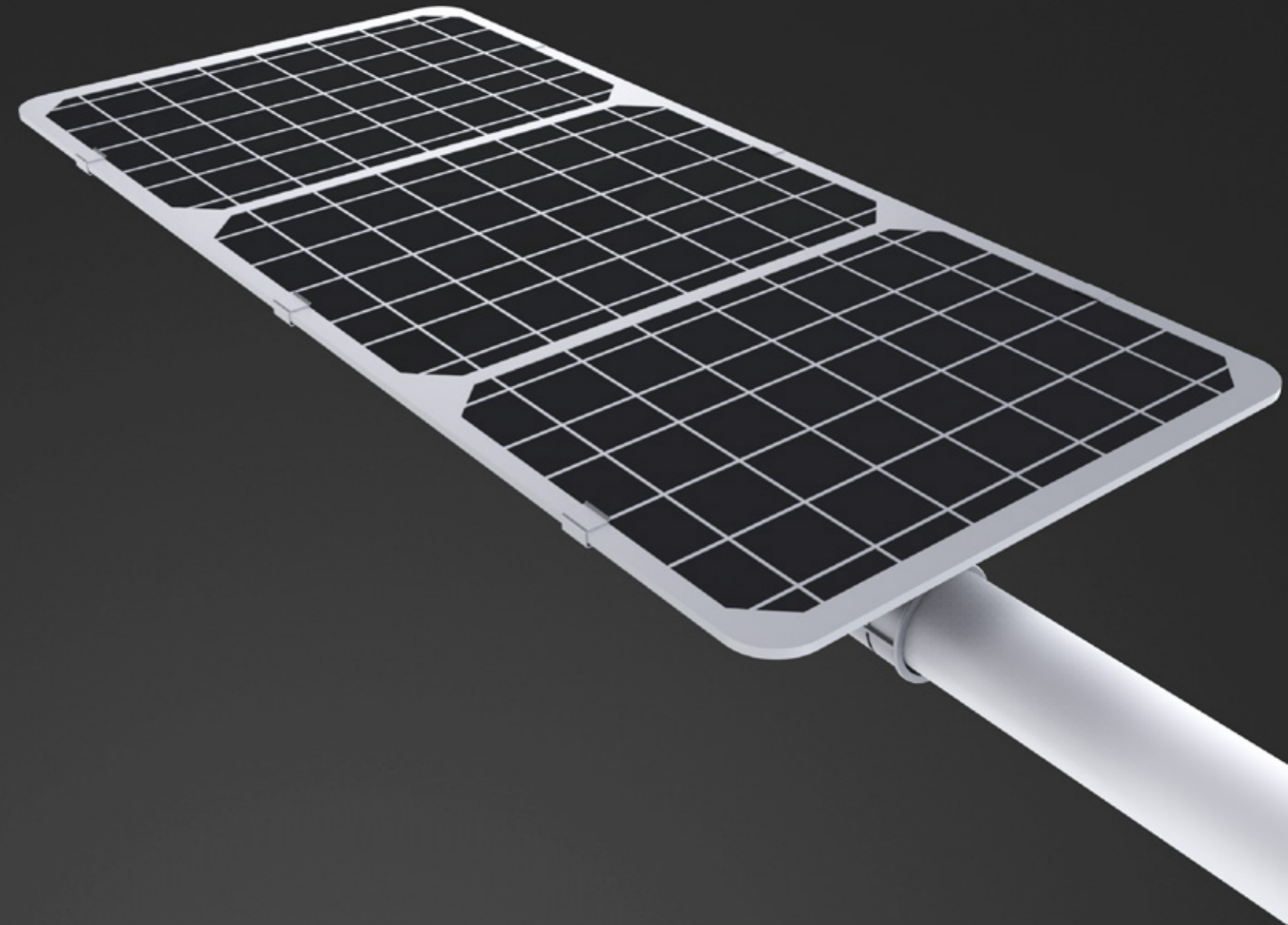
## DAYTIME OPERATION

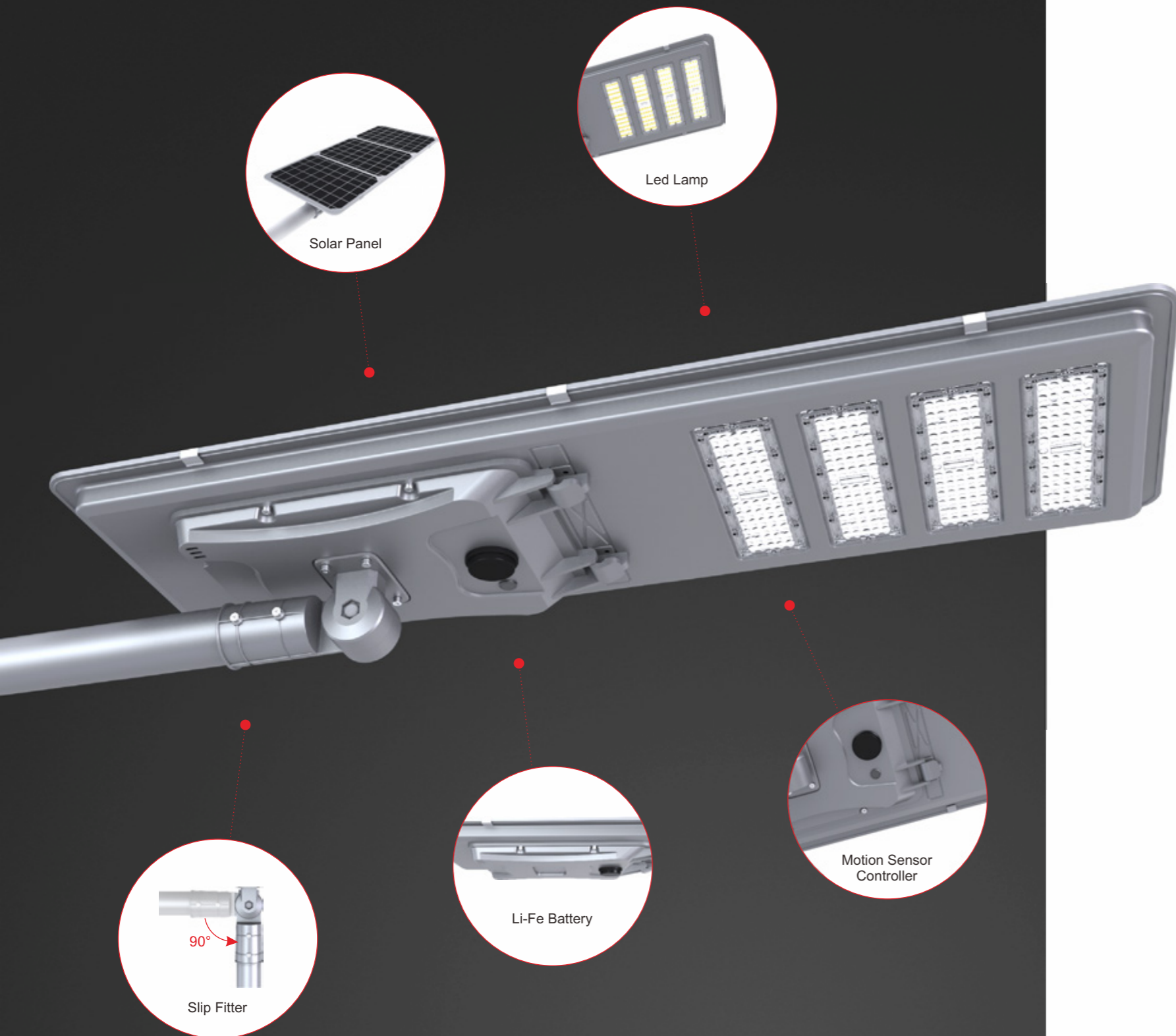
The solar panels absorb the sunlight energy, then transmit it to electricity and store it in the battery during the day. Generally, solar panels convert average 20% of sunlight energy into electrical energy



## NIGHT TIME OPERATION

At night, the stored electrical energy power the light for the whole night or based on a user determined operating, 4hours-30%, 2hours-100%. The light turns off when the sun rise up, and the day/night operation cycle starts again.





## RELIABILITY UNEXPECTED VALUE



Only top quality mono - crystalline silicon solar panels with high efficiency and long lifetime are used.



Quality lithium batteries are used to store the energy, provide energy for immediate requirements, and enable a back-up for days when there is little or no sun.



High Lumen LED for maximum efficacy. Dedicated designed low-voltage solar controller technology with dimming capabilities for power-save management. Lifetime > 50,000 hrs and CRI nominal 70.



Microprocessor managed algorithms autonomously determine sunrise and sunset.



Easy to install without buying cables and rectifiers, directly on pole with an adjustable spigot 0°~90°.

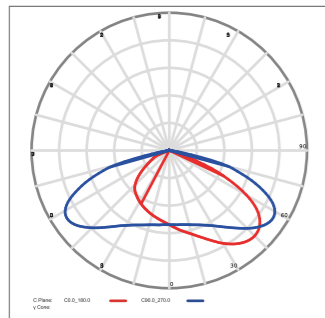
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# PHOTOMETRICS

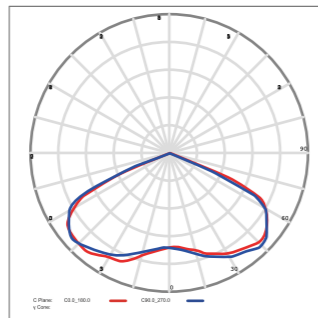
## Optimized Comfort

In all road applications, comfort is a key standard. The optics of Helios series light is designed to enhance comfort with reduced glare.

90x150 DEGREE (Type III -S)



130 DEGREE (Type V -S)
















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# PERFORMANCE

	50W / 60W / 70W
	160lm/W
	Philips Lumileds
	3 consecutive rainy days
	PIR & Timer Dimming
	5000K ( 2500~6500K optional )
	Type II / Type III
	IP66
	IK09
	Monocrystalline silicon photovoltaic panels
	LiFeP04 battery
	Slip fitter
	Operating Temperature:-30°C to +45°C (-22°F to 113°F) Storing Temperature:-40°C to +80°C (-40°F to 176°F)

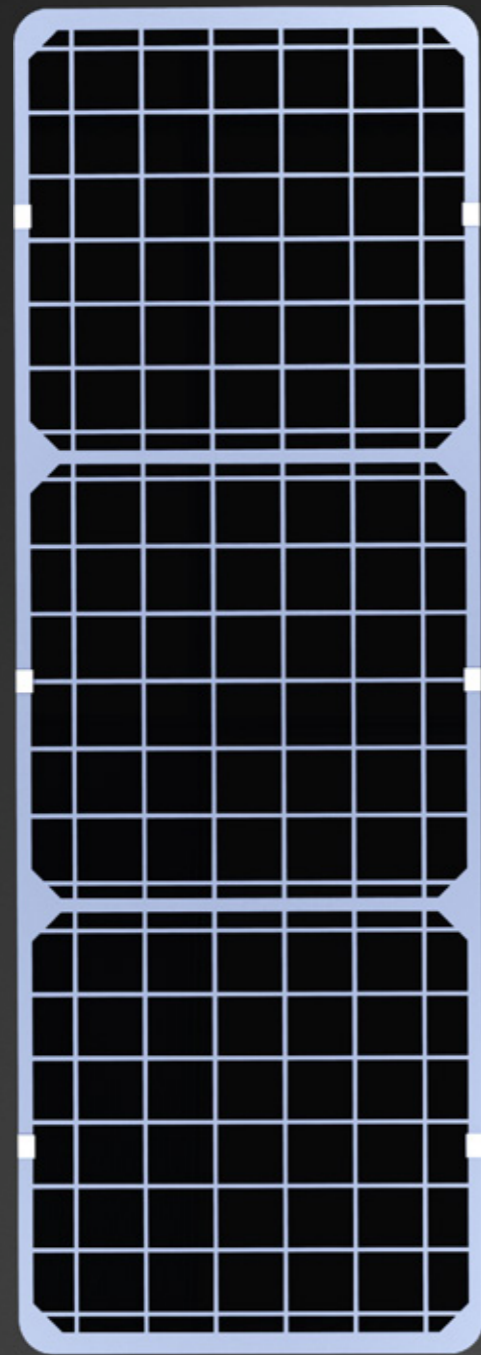


# SPECIFICATIONS

Part#	Power	Solar Panel	Battery	Efficacy (IES)	Total Lumen	Product Dimensions
EO-HST-50	50W	60W/18V	90AH/12V	160 lm/W	8,000lm	887×401×158mm
EO-HST-60	60W	130W/18V	120AH/12V	160 lm/W	9,600lm	1160×401×158mm
EO-HST-70	70W	160W/18V	150AH/12V	160 lm/W	11,200lm	1420×401×158mm







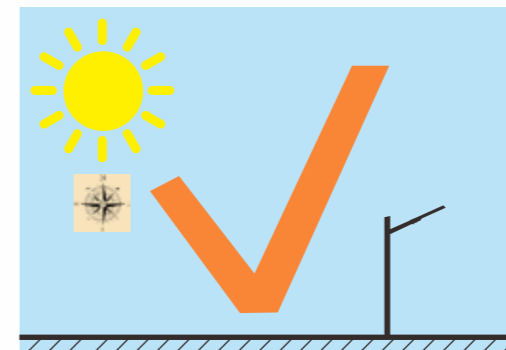
## ENERGY SAVING

Replacement Reference		Energy Saving
50W HELIOS STREET LIGHT	100 Watt Metal Halide or HPS	100% saving
60W HELIOS STREET LIGHT	120 Watt Metal Halide or HPS	100% saving
70W HELIOS STREET LIGHT	150 Watt Metal Halide or HPS	100% saving

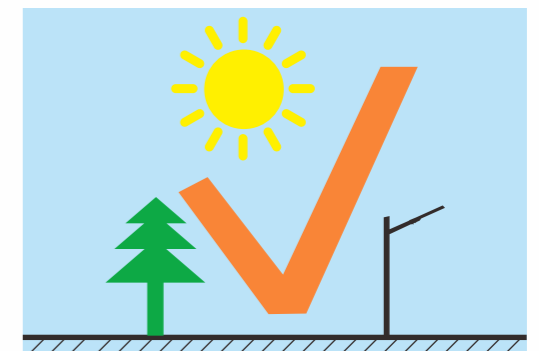
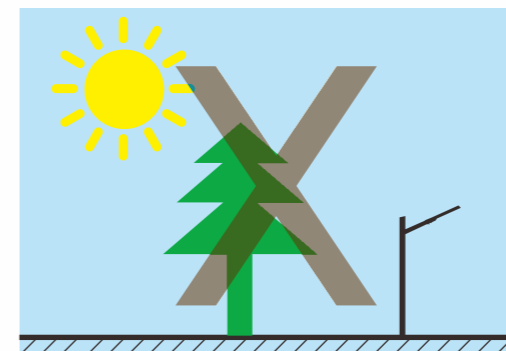




## INSTALLATION



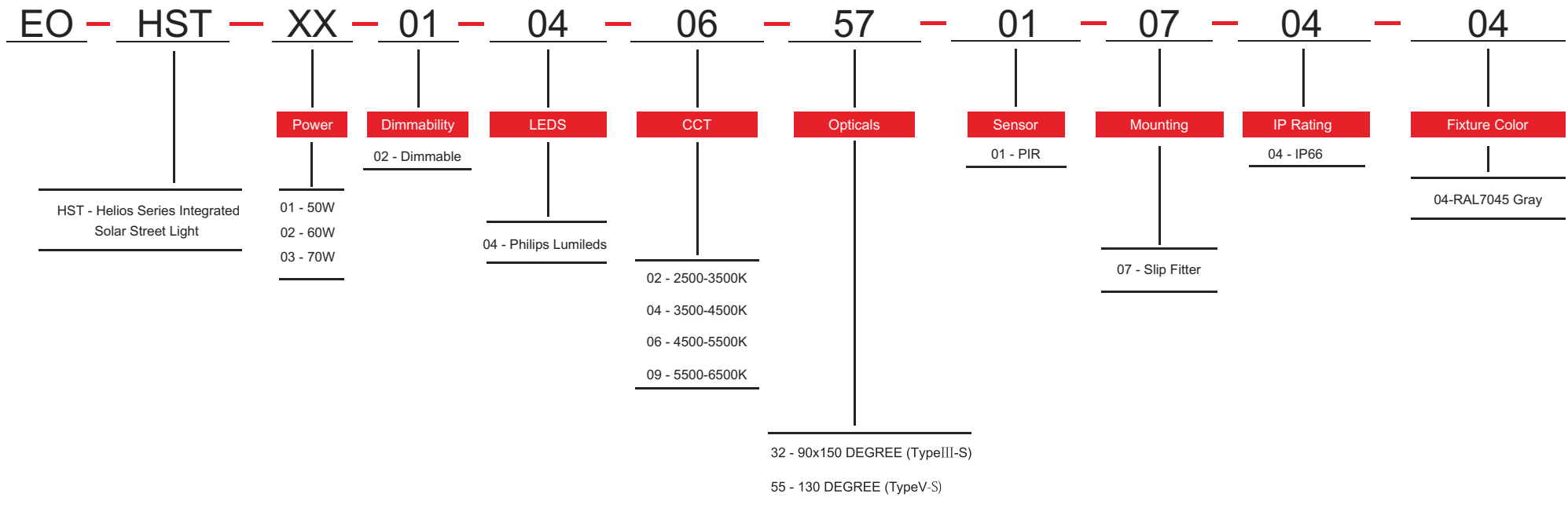
The solar panel can be adjusted to the best angle where it is able to absorb maximum sunshine. The most optimum direction to face the solar panel is somewhere between south and west. It is at this location that the panel will receive the maximum sunlight throughout the day.



The solar panel must not be installed in a shaded or part shaded location and never indoors.



# ORDERING INFORMATION



E-Lite Semiconductor Co., Ltd.  
Headquarter & Factory  
Website: <http://www.elitesemicon.com>