

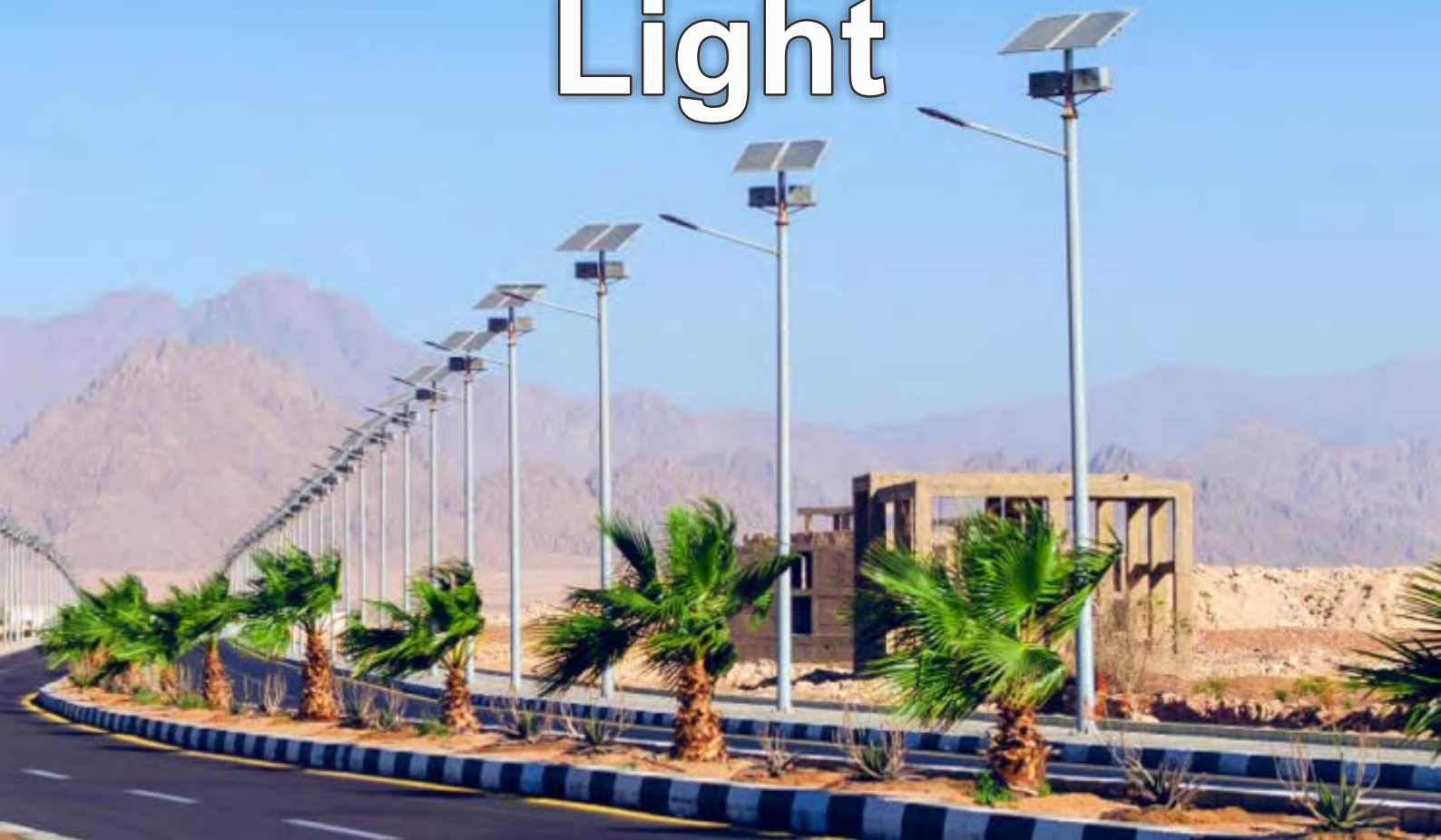
E-LITE semicon

STARTM

SERIES

LED

Solar Street Light





LIGHTING THE WAY

SOLAR meets LEDs

The sunshine is a sustainable, reliable, non-polluting source of power. Concerns over global climatic change, local air pollution and resource scarcity make photovoltaic (PV) an increasingly attractive energy supply technology. Using solar energy with LEDs instead of HID/MH/CFL provides a very efficient solution in lighting industry.

Solar powered outdoor lighting products are ideal for lighting the area in remote locations where the electricity is unavailable or erratic. Even in urban areas, these find great usage to reduce dependency on conventional power and contribute towards green energy. Reliable and long life makes this solution effective in fulfilling our present and future lighting requirements.

E-LITE semicon / [Hello@elitesemicon.com](mailto>Hello@elitesemicon.com) / www.elitesemicon.com

KEY FEATURES



System Light Efficacy 170~175LPW with high performance LED chips.



Highly efficient monocrystalline silicon photovoltaic panels.



Solar powered-No need for any other power supply or electrical cabling.



Easy to Install and Maintain.



Automatic dusk to dawn operation(or timer options).



Five years warranty.



APPLICATIONS

- Car park and Perimeter Lighting.
- Security and Entrance Lighting.
- Signage and Billboard Lighting.
- Temporary & Event Lighting.
- Strata & Public Area Lighting.
- Construction Sites.
- Rural & Remote Area Lighting.
- Mining & Industrial sites.
- Coastal Areas and Jetties.



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



Highly efficient controller to charge your batteries and intelligent microprocessor controlled algorithms for light management ensure maximum uptime.



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.



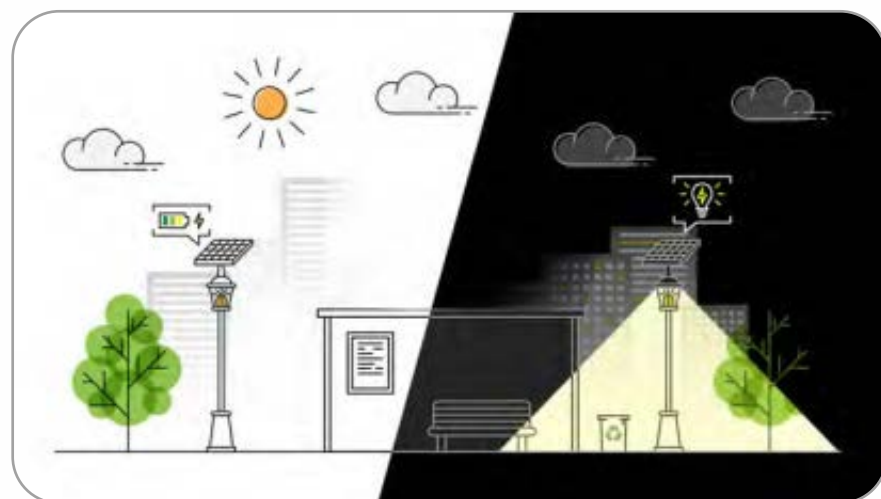
High Lumen LED for maximum efficacy. Dedicated designed low-voltage solar controller technology with dimming capabilities for power-save management. Lifetime > 50,000 hrs and CRI nominal 70.



Microprocessor managed algorithms autonomously determine sunrise and sunset

DAYTIME OPERATION

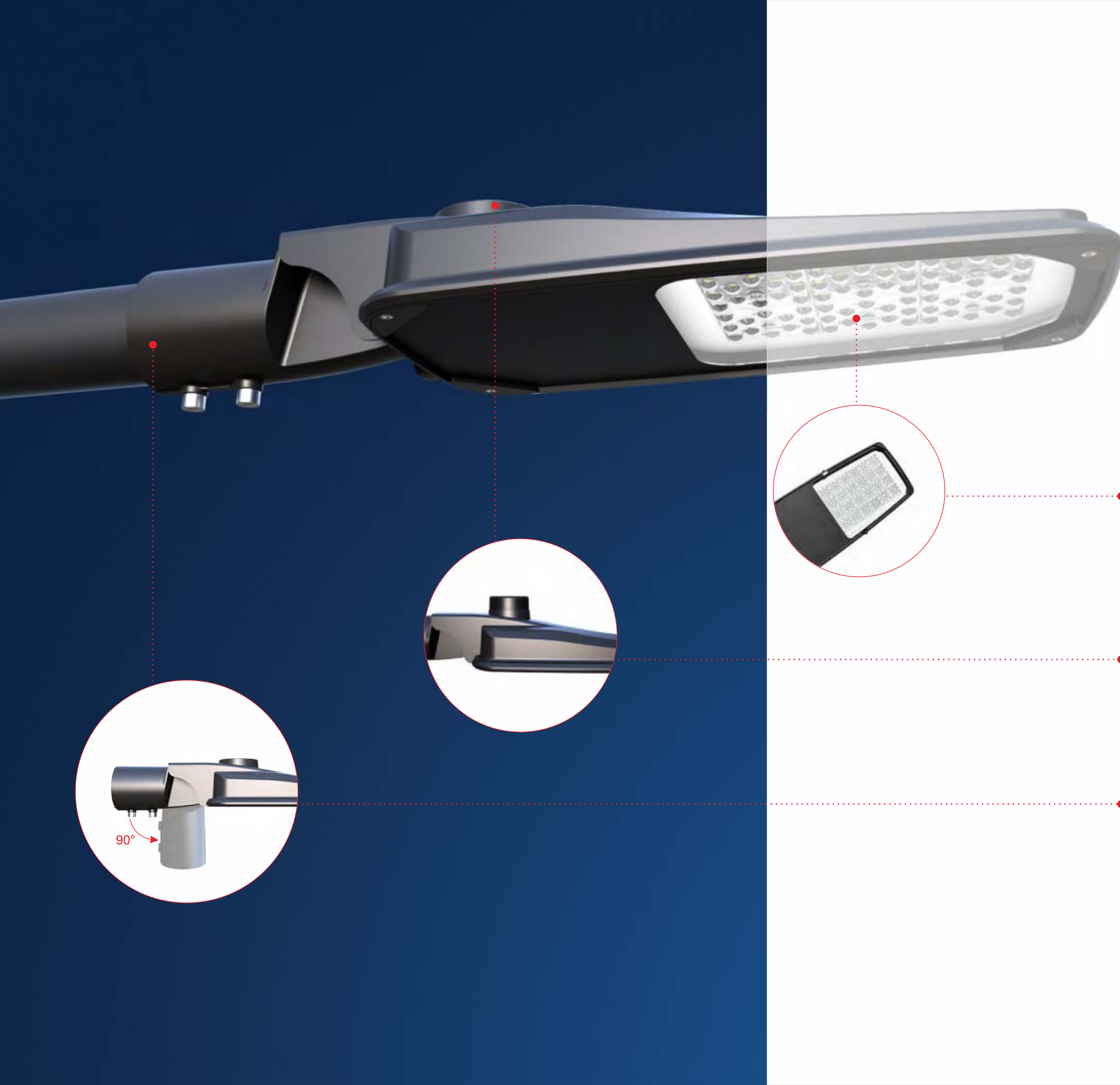
The solar panels absorb the sunlight energy, then transmit it to electricity and store it in the battery during the day. Generally, solar panels convert average 20% of sunlight energy into electrical energy



NIGHT TIME OPERATION

At night, the stored electrical energy power the light under the PIR sensor working mode: Keep 10% power lighting when nobody around, 100% full power lighting when people or car coming. The light turns off when the sun rise up, and the day/night operation cycle starts again.





RELIABILITY UNEXPECTED VALUE

Optics:

Optical systems for outdoor luminaires must be designed to satisfy several criteria in terms of luminaire performance. With a variety of light distributions, Star light engine features best in class optical performances. It is designed for convenience and economics, achieving wide column spacing, excellent uniformity plus no waste or obtrusive light.

Ready To Connect:

Future proof luminaire with removable control gear and optic also compatible with any existing IoT options on the market thanks to the NEMA socket option. There are also 3/5/7 pins for you to choose from.

Installation:

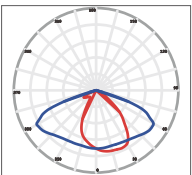
Star series street lights are easy to install without burying cables, rectifiers, and so on. They can be directly installed on the lamp pole. There is adjustable spigot 0° /90° .

PHOTOMETRICS

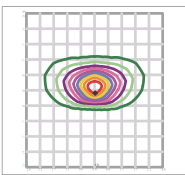
Optimized Comfort

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

70 x 140 (TYPE II-S)

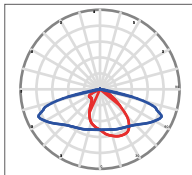


0.0~180.0
90.0~270.0

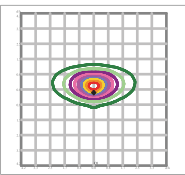


Mount Height(m): 6

70 x 150 (TYPE II-M)

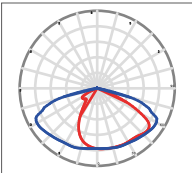


0.0~180.0
90.0~270.0

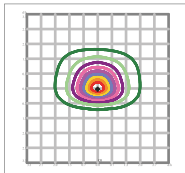


Mount Height(m): 8

95 x 150 (TYPE III-S)



0.0~180.0
90.0~270.0















Mount Height(m): 6



Much more than a budget-friendly outdoor luminaire with the latest generation of LED modules, Star is highly convenient yet. Available in different discrete sizes, it is designed to maximize lighting performance, and realize an economic and convenient dual road strategy. At the same time, it limits carbon emissions and achieves a green cycle.

Thanks to Star's high performance and substantial benefits, it is the perfect answer to the current and future project needs.

PERFORMANCE

	20W~70W
	170lm/W~175lm/W
	Philips Lumileds
	One consecutive rainy day
	PIR, dimming to 20% from 22PM to 7 AM
	≥70
	5000K (2500~6500K optional)
	L70>120,000hours
	Type II / Type III
	IP66
	IK09
	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

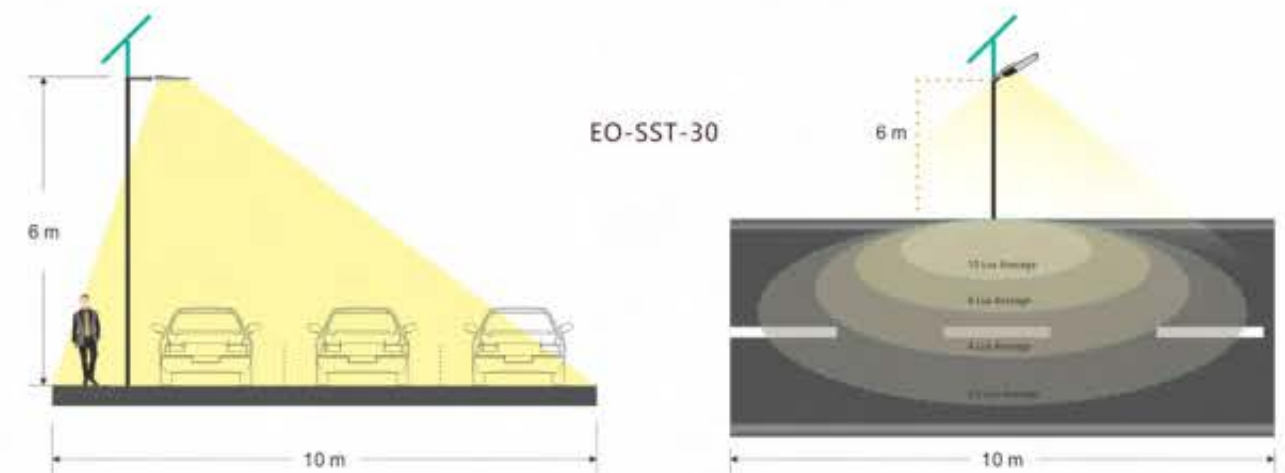
Part#	Power	Solar Panel	Battery	Efficacy (IES)	Total Lumen	Product Dimensions
EO-SST-20	20W	20W/18V	18AH/12.8V	175 lm/W	3,500lm	513x180x85mm
EO-SST-40	40W	30W/18V	36AH/12.8V	170 lm/W	6,800lm	613x206x84mm
EO-SST-50	50W	50W/18V	42AH/12.8V	170 lm/W	8,500lm	633x279x87mm
EO-SST-70	70W	80W/36V	30AH/25.6V	175 lm/W	12,250lm	776x309x89mm

Index Parameter Comparison							
E-Lite Solar Street Light				VS	General Solar Street Light		
Power	Efficacy	Total Lumen	Housing Dimentions		Power	Efficacy	Total Lumen
20W	175Lm/W	3,500lm	513x180x85mm		30W	130Lm/W	3,900lm
40W	170Lm/W	6,800lm	613x206x84mm		50W	130Lm/W	6,500lm
50W	170Lm/W	8,500lm	633x279x87mm		60W	130Lm/W	7,800lm
70W	175Lm/W	12,250lm	776x309x89mm		90W	130Lm/W	11,700lm
					Housing Dimentions		
					513x180x85mm	513x180x85mm	513x180x85mm



LIGHT DISTRIBUTION

E-Lite in development with Lumileds have created a new LED lens that provides greater Luminous uniformity and offers the ultimate in design flexibility. The beam pattern is perfect for lanes, pedestrian promenades, bicycle paths as well as minor roads and Carparks. As an added service, E-Lite also has its own internal lighting design team that use the latest Lighting Simulation software for projects requiring calculation of lighting levels and photo-metric reports. This will ensure that the correct quantity of fittings, pole heights and spacings are offered for our customers specific needs.

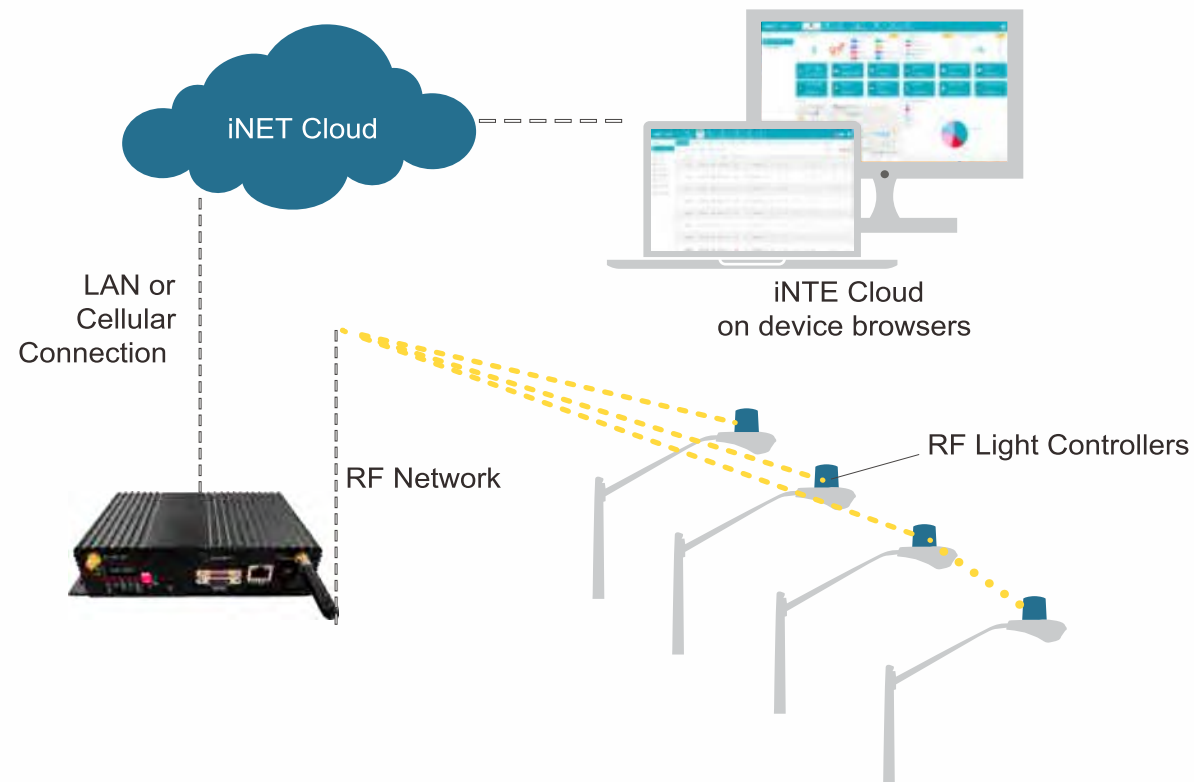


A FUTURE PROOF SOLUTION

Smart City

iNET™ Intelligent Lighting Monitor & Control System is a cloud based wireless smart system designated for lighting management.

With gateways + control node., iNET™ System monitors lights performance status, collects operation data, controls lights on/off or dimming, and sends alarm in case of fault detected.



System & Hardwares



Automatic Light On/Off & Dimming Control

- By time setting
- On/off or dimming with motion sensor detection
- On/off or dimming with photocell detection



Accurate Operation & Fault Monitor

- Real-time monitor on each light working status
- Accurate report on fault detected
- Provide location of fault, no patrol required
- Collect each light operation data, such as voltage, current, power consumption



Extra I/O Ports for Sensor Expandability

- Environment Monitor
- Traffic Monitor
- Security Surveillance
- Seismic Activities Monitor



Reliable Mesh Network

- Self proprietary wireless control node
- Reliable node to node, gateway to node communication
- Up to 1000 nodes per network
- Max. network diameter 2000m

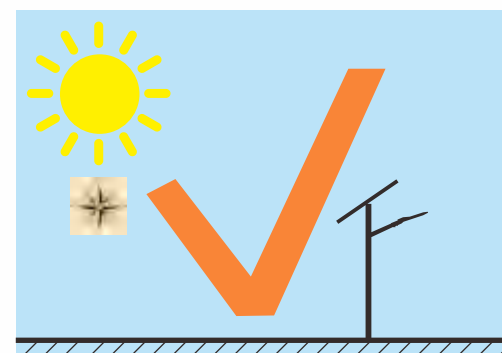


Easy-to-use Platform

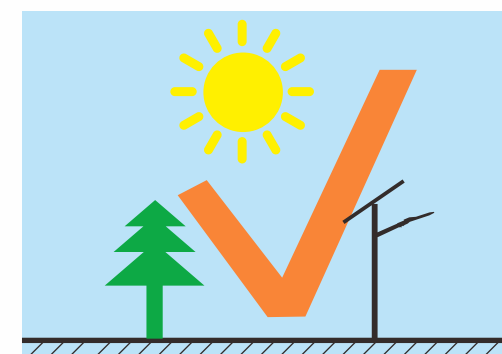
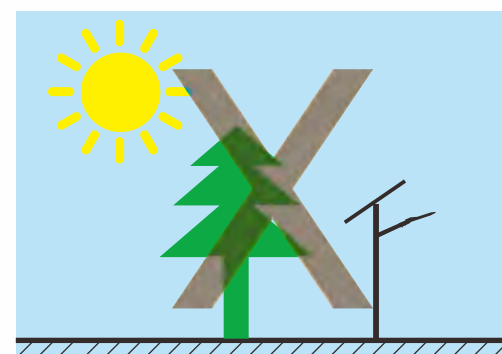
- Easy monitor on each and all lights status
- Support lighting policy remote set-up
- Cloud server accessible from computer or hand held device



INSTALLATION



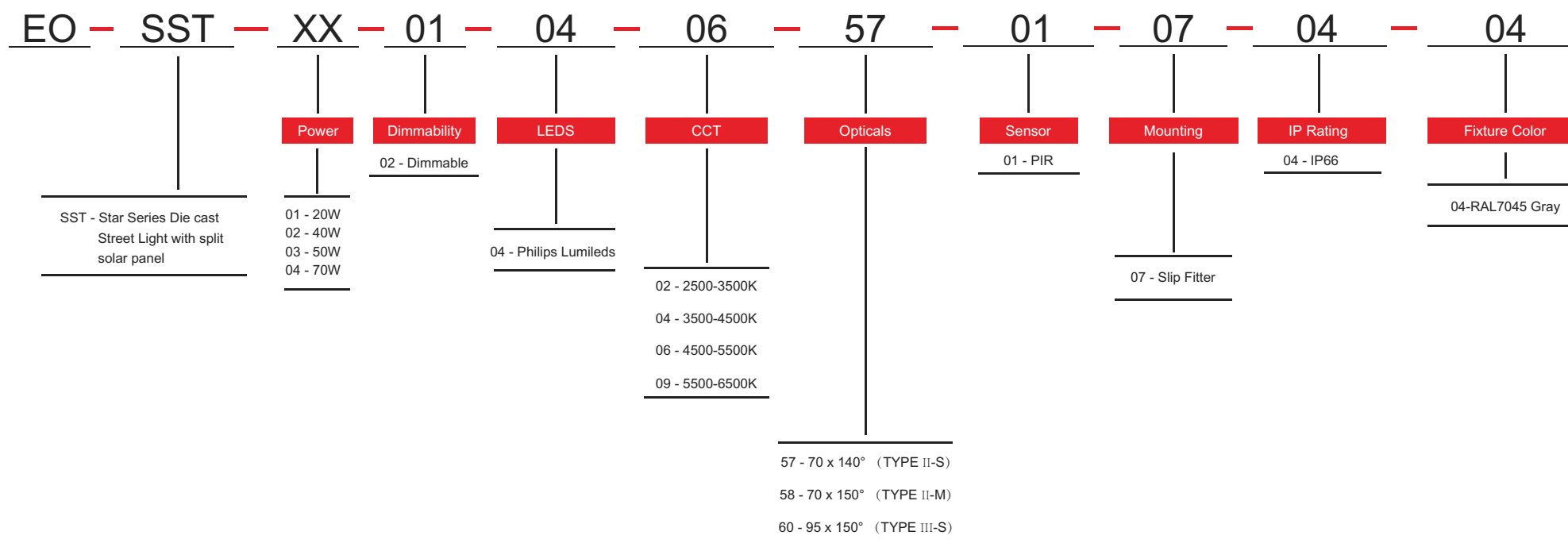
The solar panel can be adjusted to the best angle where it is able to absorb maximum sunshine. The most optimum direction to face the solar panel is somewhere between south and west. It is at this location that the panel will receive the maximum sunlight throughout the day.



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

ORDERING INFORMATION

E-LITE semicon



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