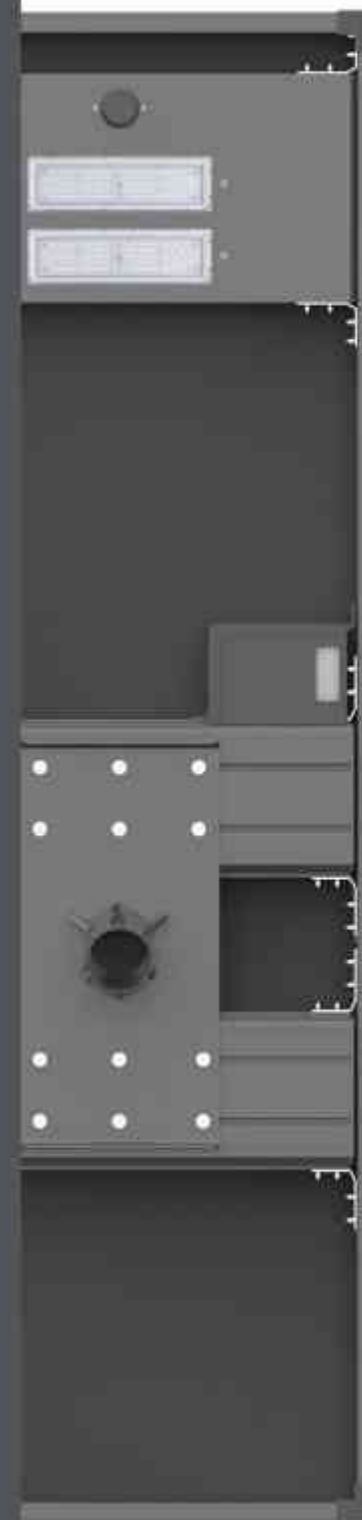


**SOKOYO®**

**COOLEX SERIES**  
All In One Solar Street Light

SOLAR STREET LIGHT

Utility Model Patent Number: 20192221135609



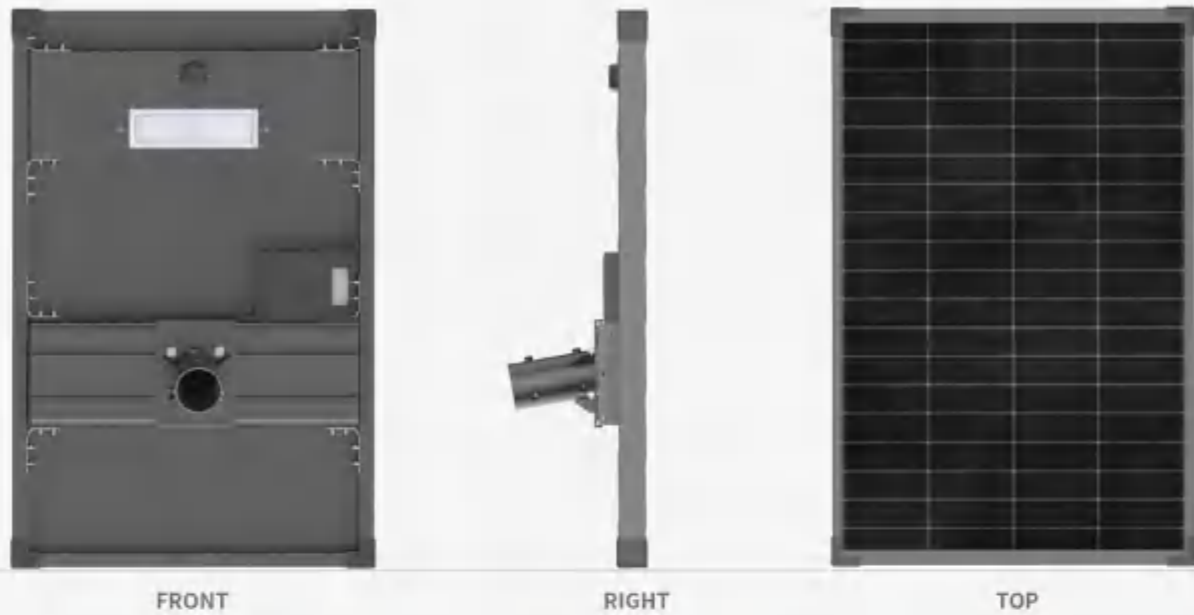
China free hot line: 0086-514-8216-6606

Tel: 0086-514-87914128

Web: [www.sokoyosolar.com](http://www.sokoyosolar.com)

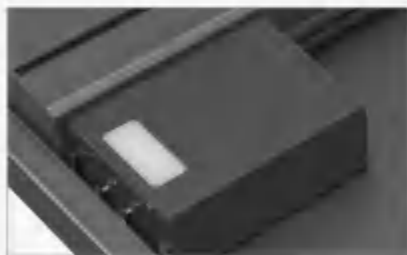
Factory address: #3 district, Guoji Industrial park, North suburb,  
Yangzhou, Jiangsu Province, China

Sales Headquarter: Floor 4, Building 2, Guotai Building, No. 450,  
West Wenchang Road, Hanjiang District, Yangzhou city



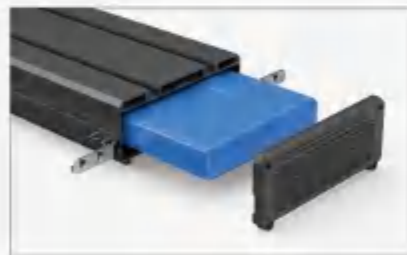
## SIMPLE STYLE EASY TO INSTALL ENERGY SAVING

COOLEX Series all in one solar street light is a solar lighting system integrating high conversion rate monocrystalline silicon solar panel, high luminous efficiency LED light module, intelligent battery management system, and high-efficiency controller. Intelligent regulation, microwave sensor, energy saving and environmental protection, effectively prolong the life of the whole lamp. The appearance is simple and elegant. It is suitable for road lighting in cities, villages, industrial parks and other places.



### Visual control system

With intelligent control of lighting time, overcharge, overdischarge, electronic short circuit, overload protection, anti-reverse connection protection and other functions, it can adapt to cold, high temperature, humidity and other environments.



### Built-in LiFePO4 battery

The cycle life is more than 2000 times, Safe to use, no fire and no explosion; High temperature resistance, large capacity, Green and environmentally friendly, non-toxic, non-polluting.

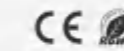


### Mounting Sleeve

Kit for connecting to light pole.



## KY-Y-YJ DC COOLEX All-in-one solar led street light

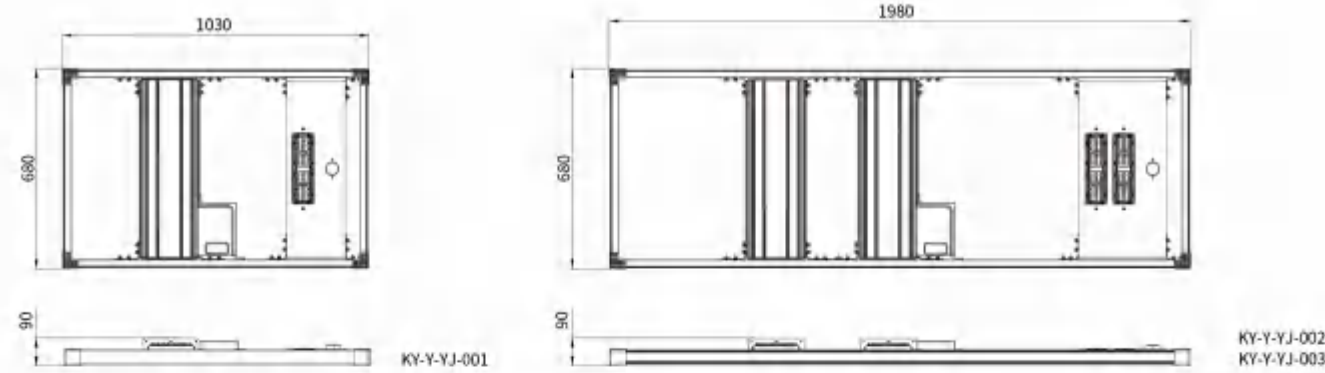


Premium quality, integrated design, elegant appearance;  
Modular design for easy installation and maintenance;  
Intelligent energy saving, the latest microwave sensor technology, to achieve brightness adjustment, regular discharge, double protection of charge and discharge, flexible switching of multiple modes. Adopt bat-wing light distribution design to provide uniform light distribution.



Model No.	KY-Y-YJ-001	KY-Y-YJ-002	KY-Y-YJ-003
Rated Power	60W	80W	120W
System Voltage	DC12V	DC24V	DC24V
Lithium Battery	12.8V/48AH 614.4WH	25.6V/36AH 921.6WH	25.6V/48AH 1228.8WH
Solar Panel	Monocrystalline:120W/18V	Monocrystalline:240W/36V	Monocrystalline:240W/36V
Light Source	PHILIPS(LUMILEDS) 3030/5050		
Light Distribution	Bat-Wing light distribution(150°x75°)		
Light Efficiency	≥130LM/W		
Color Temperature	3000K/4000K/5700K/6500K		
CRI	≥Ra70		
IP Rate	IP65		
IK Rate	IK08		
Working Temperature	-10°C~+60°C		
Lamp Weight	24.9kg	40.3kg	43.4kg
LED Lifespan	>50000H		
Controller	15A/20A		
Mount Diameter	φ89mm	φ102mm	
Lamp Dimension	1030×680×90mm	1980×680×90mm	
Package Dimension	1107×750×217mm	2057×750×217mm	
Suggested Mount Height	6m/8m	8m/12m	
Movement Sensor	Microwave		

## PRODUCT DIMENSION

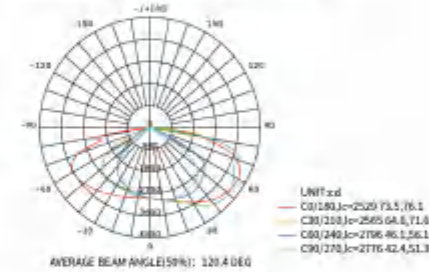


## LIGHT DISTRIBUTION CURVE

### Street Light Intensity Test Report(60W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA				E#156.47 lm/W	
MODEL	KY-Y-YJ-001	Imax (cd)	4269	η street up (%)	0.3		
NOMINAL POWER (W)	60	LOR (%)	100.0	η street down (%)	57.0		
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	9388	η house up (%)	0.4		
NOMINAL FLUX (lm)	9388.39	MAXIMUM θ (C, γ)	165°, 57.0°	η house down (%)	42.3		
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m²)	0.00100		
TSET VOLTAGE (V)	46.4	η down (%)	99.3	STL	19.160		

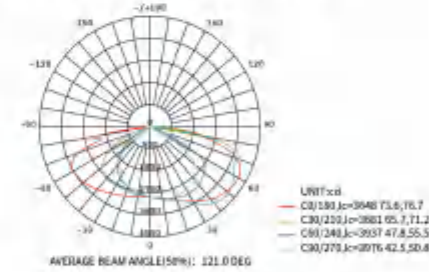
Meridian Light Distribution Curve(60W Parameter)



### Street Light Intensity Test Report(80W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA				E#168.15 lm/W	
MODEL	KY-Y-YJ-002	Imax (cd)	6097	η street up (%)	0.3		
NOMINAL POWER (W)	80	LOR (%)	100.0	η street down (%)	56.0		
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	13452	η house up (%)	0.4		
NOMINAL FLUX (lm)	6726.19	MAXIMUM θ (C, γ)	165°, 55.0°	η house down (%)	43.3		
LAMPS INSIDE	2	η up (%)	0.7	76 FLASHAREA (m²)	0.00100		
TSET VOLTAGE (V)	46.2	η down (%)	99.3	STL	20.398		

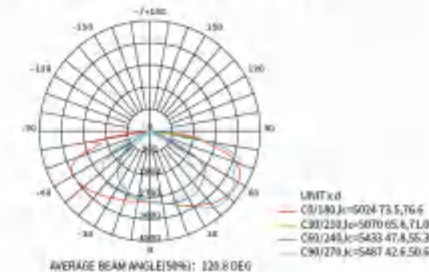
Meridian Light Distribution Curve(80W Parameter)



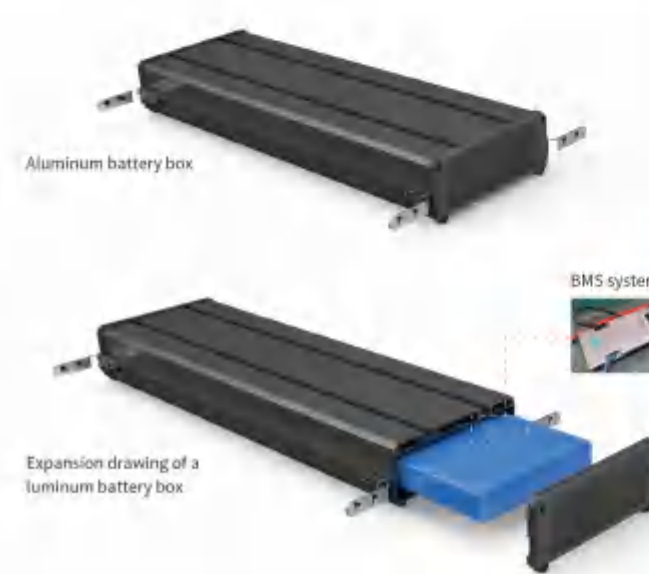
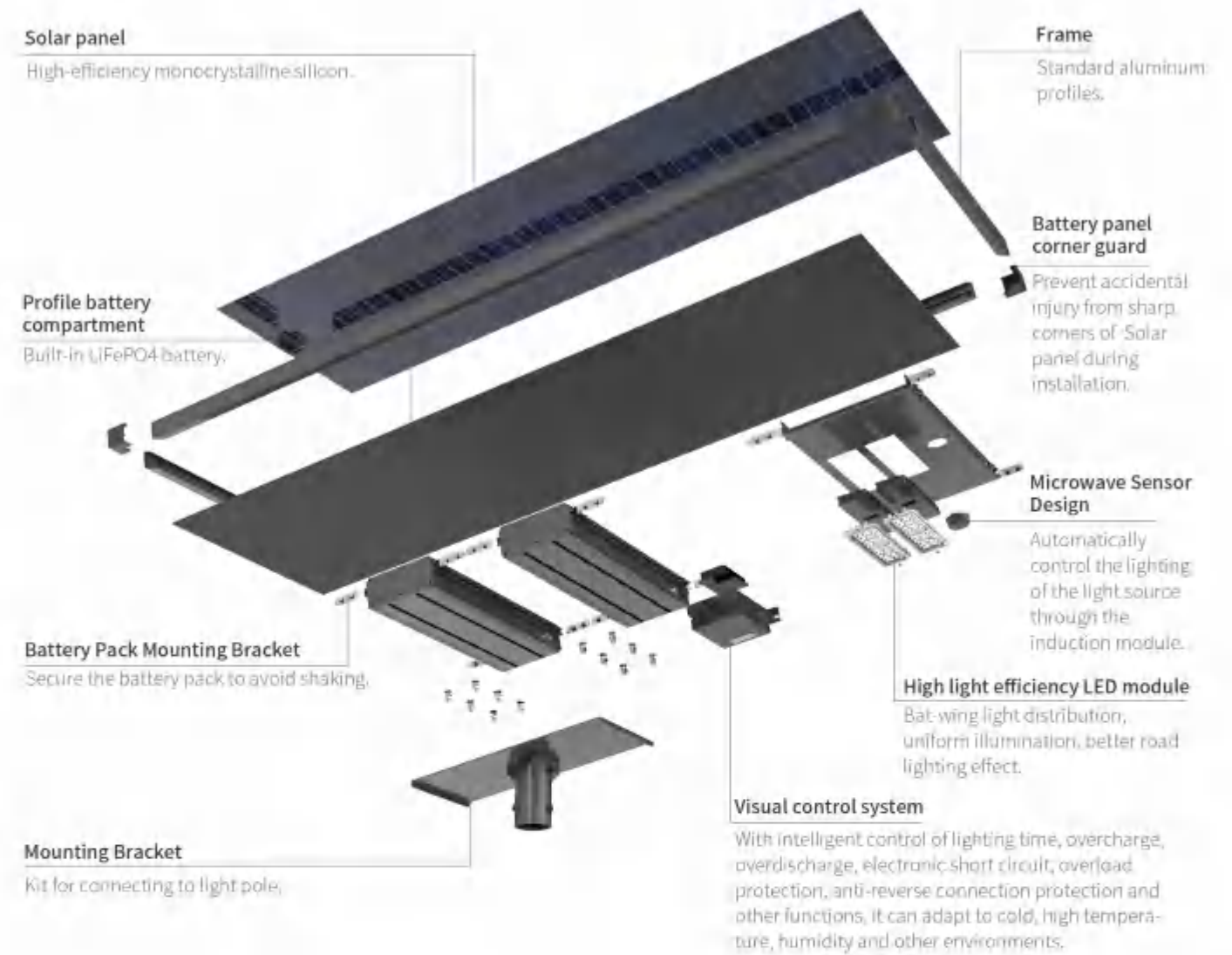
### Street Light Intensity Test Report(120W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA				E#154.61 lm/W	
MODEL	KY-Y-YJ-003	Imax (cd)	8519	η street up (%)	0.3		
NOMINAL POWER (W)	120	LOR (%)	100.0	η street down (%)	56.0		
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	18553	η house up (%)	0.4		
NOMINAL FLUX (lm)	9276.61	MAXIMUM θ (C, γ)	165°, 55.0°	η house down (%)	43.4		
LAMPS INSIDE	2	η up (%)	0.7	76 FLASHAREA (m²)	0.00100		
TSET VOLTAGE (V)	48.4	η down (%)	99.3	STL	20.398		

Meridian Light Distribution Curve(120W Parameter)



## PRODUCT STRUCTURE DISPLAY



## MODULAR BATTERY BOX DESIGN

The integrated battery control unit is portable modular design. The housing using heat sink profile with excellent thermal conductivity, large heat-exchange surface can achieve ideal heat dissipation effect. Built-in Lithium Iron Phosphate Battery is high efficient, light and convenient, with long life span. Soft pack battery cell and 32650 battery cells are optional. Built-in BMS system intelligently manages the battery, prevents overcharging and over-discharging to prolong lifespan. The unit's installation and/or maintenance can be quick and convenient without tools, by using quick-release shaft screws and modular integrated design.

## BATTERY CELLS



