





> Features of SL Series

Outdoor solar lighting systems use solar cells which convert sunlight into electricity. Electricity is stored in batteries for use at night. Using them won't increase your electric bill.

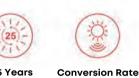
• SL Solar LED Street Light features a typical street light that is powered by solar energy, low profile design, with photocell sensor , timing, dimming, intelligent power saving, morning light, microwave sensor available.

- Deep cycle battery, charge and discharge over 2000 times.
- Continuously work 2-3 rainy days in intelligent mode.
- Die-cast aluminum fixture housing ;
- UV stabilized polyester powder paint finish for durability and corrosion resistance;
- Mounting options: slide entry installation;
- Streamlined design to reduce wind resistance;
- Reserved sensor location for easy installation;
- Powdering / PC + Tempered glass cover.



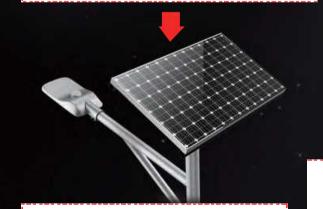


Solar Panel Integrated with Battery Box





25 Years Co Lifespan e Integral Monocrystalline Silicon Solar Panel



up to 30%



3 5 6 WARRANTY **3** Year Limited Warranty, **5** Year Preferred Warranty. **Please consult with our sales for detailed agreement.**



> Photometrics Design

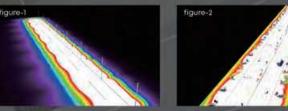
Lumen efficiency >177lm/W achieve higher illumination

High Long Lifespan Efficiency

Less Low Calorific Light Value Decay



Lumileds 3030/5050 LED chip creates a first-class light source. By choosing it, single lumen efficacy >177lm/W, with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of strong UV-protected PC and are aging and shock-resistant; The well-optimized light distribution makes for a more uniform and wider lighting area.



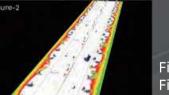
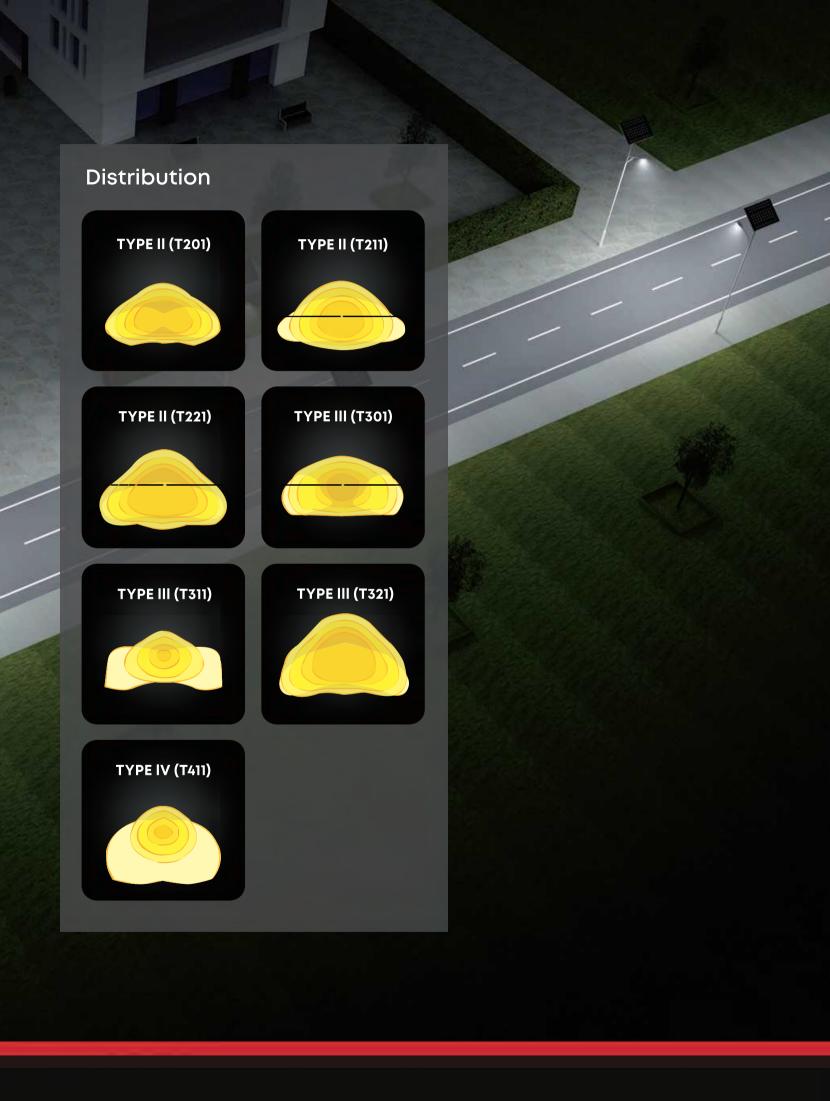


Figure-1: Example of rural branch road Figure-2: Example of mian road or avenue

Planning and analysis of street lights can be done by using lighting simulation & design software, which allows the lighting effect a more intuitive display. It uses rendering, the process of generating an image from a model, by means of computer programs resulting in different tools for measuring the simulated light levels.





- Road lighting
 Area lighting
 Perimeter lighting

specifications are subject to change without notice.



> Application Reference

- Road lighting Area lighting Perimeter lighting

specifications are subject to change without notice.



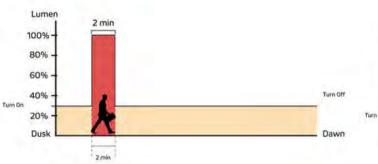
> Smart City Starts with Smart Lighting

AUTONOMY CONTROL REFERENCE

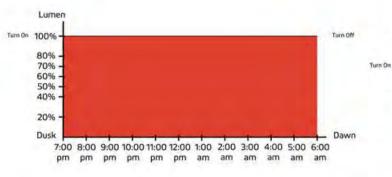
30%~100% MOTION SENSOR MODE

Constant 30% brightness (turns on at dusk, turns off at dawn):

100% brightness turns on for 2 minutes when motion is

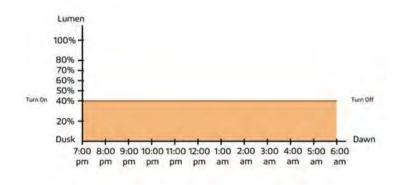


100% CONSTANT MODE 100% brightness from dusk to dawn.



40% CONSTANT MODE

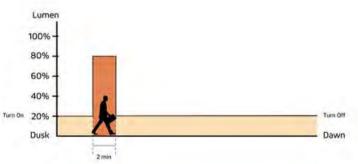
40% brightness from dusk to dawn.



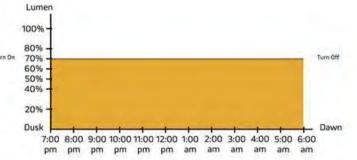
20%~80% MOTION SENSOR MODE

Constant 20% brightness (turns on at dusk, turns off at dawn):

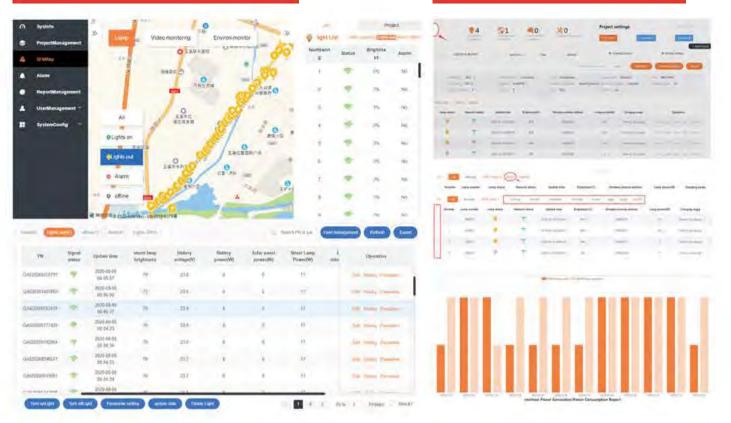
80% brightness turns on for 2 minutes when motion is



70% CONSTANT MODE 70% brightness from dusk to dawn.



SMART LIGHTING CONTROL SYSTEM



• The Internet of Things solar street light management system can pre-set one or more lighting modes according to the different time of day and traffic flow, automatically turn on or off any light, and adjust the switching time and illumination according to environmental requirements to achieve the purpose of energy-saving and consumption reduction.

• The integrated system is mainly composed of a street light component a centralized controller, a single light controller, and a smart cloud platform. The centralized controller and the single light controller aggregate the data collected by the single light via the GPRS/NB-IoT wireless communication network. The centralized controller uploads data to the system cloud platform through GPRS data flow, providing data dependence for mobile phone and computer terminal access.

APP CONTROL







Remote control

Remote monitoring real time monitoring

Automatic fault alarm

With wireless communi-Real-time monitoring of cation function, through the intelligent management system of solar street light and wireless module, have remote monitoring and real-time nonitoring.

Support remote switch on/off dimmer and bat-

modification.

solar panel voltage, current, power, battery charaina and discharaing current, voltage, load working state, controller working state data, and fault automatic alarm.

DATA & PROJECT MANAGEMENT



> Application of Typical Networking of Smart Street Light

🔆 Strategy Control

By installing the node of the street light controller on the ambient light sensor, electric energy metering unit to collect to the street light power (voltage, current, power), and the ambient light conditions, according to the administrator deployment strategy to mobilize installed on the street light controller of the automatic control system to control the street light switch, adjust brightness, color temperature adjustment, etc.;

🔁 Gateway Control

The Lora Light wireless system with strong anti-interference ability is adopted in the wireless transmission unit of the street light controller to realize the communication between nodes and gateways. The data of various sensors on the node street lamp controller is sent back to the gateway, and the control command of the gateway is also sent to the node street light controller.

👛 Cloud Platform

The gateway controller transmits the street light control information of all nodes under the gateway to the cloud platform through GPRS/3G/4G/NBIOT (optional) wireless mode, and at the same time sends the instructions of the cloud platform to the street light controller of each node.

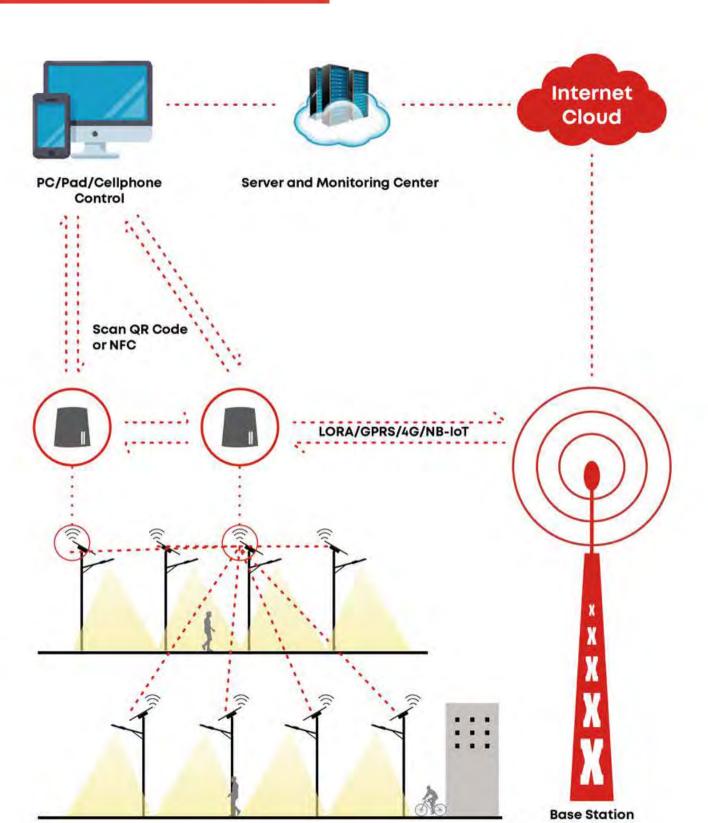
Controller GPRS/NB-IoT Inside



• Built-in IoT module (GPRS/ NB-IOT)

- Adopt Moving Track MPPT maximum power tracking technology, with higher tracking efficiency and faster speed;
- Lead-acid battery and lithium battery are universal. Operating parameters can be set by remote controller;
- Ultra green power control technology with extremely low static power consumption and dormant current;
- · Lead acid battery multi-stage temperature compensated constant voltage charging;
- ·10 Programmable load power/time control setting;
- \cdot Battery charging and discharging high and low temperature protection function, working temperature can be set;
- A variety of intelligent modes can be selected, automatically adjust the load power according to the battery power;
- High precision digital booster constant-current control algorithm, high efficiency and high constant-current precision;
- 2.4G wireless communication, can set read parameters, read status, etc;
- Battery/PV reverse connection protection, LED short circuit/open circuit/limited power protection and other multiple protection functions.

APPLICATION OF TYPICAL IOT NETWORKING



Parameter Table

Electrical Data

Electrical Data									
Model		20WsL	40WsL	60WsL	80WsL	100WsL			
Power		20W	40W	60W	80W	100W			
nput voltage				12-24V DC					
Control Option		Photocell sen	isor, timing, dimming, intelligent		ensor. LoRa, NB-loT Smart Li	ghting Control			
Driver brand		Meanwell							
Surge Protection	4kV optional								
Photometric Data									
ED Manufacturer				LUMILEDS					
LED model Lumileds 3030/Lumileds 5050									
ens				Polycarbonate					
Luminous flux(lm, Std. Dev. ±3%)	3030	3520lm	6640lm	10020lm	13360m	16700lm			
	5050	3540lm	6680lm	10080lm	13440lm	16800lm			
	3030	176lm/w	166lm/w	167lm/w	167lm/w	167lm/w			
fficacy(Im/W, Std. Dev. ±3%)	5050	177lm/w	167lm/w	168lm/w	168lm/w	168lm/w			
ILOR			=	0%, @ Luminaire inclination ()°				
СТ		3000K, 4000K, 5000K, 5700K, 6500K							
RI				70Ra, 80Ra, 90Ra optional					
leam angle				Type II/Type III/Type IV/Type V					
Mechanical Data									
P Rating			IP65	, according to standard EN 60	529				
Cx(Fixture)		F	ront: 0.014 m²; Side: 0.0214 m	r²	Front: 0.0219 m	²; Side: 0.035 m²			
Cx (Solar Panel)		Front: 0.45m ² ; Front-side: 0.32m ² ; Side: 0.08m ² ;	Front: 0.71m ² ; Front-side: 0.47m ² ; Side: 0.09m ²	Front: 1.14m ² ; Front-side: 0.73m ² ; Side: 0.09m ² :	Front: 1.59m ² ; Front-side: 0.99m ² ; Side: 0.12m ² :	Front: 1.59m ² ; Front-side: 0.99m ² ; Side: 0.12m ² :			
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lousing			Heavy-d	uty die-cast aluminum (FNAC	-46100)				
Housing			Heavy-d	uty die-cast aluminum (ENAC	-46100)				
•		Anti-UV thermosetting	Heavy-d polyester / 80 micron epoxy p			rrosive environments).			
Surface treatment		Anti-UV thermosetting				rrosive environments).			
Surface treatment		Anti-UV thermosetting	polyester / 80 micron epoxy p	primer + Anti-UV thermosettin	g polyester (for extremely co	rrosive environments).			
Surface treatment Painting Nounting		Anti-UV thermosetting	polyester / 80 micron epoxy p	orimer + Anti-UV thermosettin Silver gray, Custom request	g polyester (for extremely co	rrosive environments).			
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Surface treatment Painting Adventing Solar Panel Data Photovoltaic panel Solar		18V/72W 691.2WH 12.8V 54AH 25.8V 818*493*468mm 25.5kg Fixture: 520*270*135mm Box: 402*400*290mm Panel: 898*573*125mm Fixture: 3kg	polyester / 80 micron epoxy p Silde e Silde e 18V/130W 1305.6WH 12.8V 102AH 12.8V 102AH 12.8V 102AH	orimer + Anti-UV thermosettin Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs 10°C to 50°C (-14°F to 122°F) -0°C to 45°C (32°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days 190B10 - 52 000 h, @Tq 25°C rranty extension up to 5 years ompany is ISO 9001 and ISO 1613°653°508mm 45.5kg Fixture: 520°270°135mm Box: 691*400°290mm Panel: 1693°733°125mm Fixture: 3kg	g polyester (for extremely con panel) el 36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 26.6V 1	36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 1500*990*593mm 73kg Fixture: 825*360*200m Box: 1186*400*290mm Panel: 1560*1050*125m Fixture: 8.1kg			
Surface treatment Painting Adventing Solar Panel Data Photovoltaic panel Solar		18V/72W 691.2WH 12.8V 54AH 2.8V 54AH 818*493*468mm 25.5kg Fixture: 520*270*135mm Box: 402*400*290mm Panel: 898*573*125mm Fixture: 3kg Box: 19kg	polyester / 80 micron epoxy p Silde e Silde e 18V/130W 1305.6WH 12.8V 102AH 12.8V 102AH 3 (02A) 5.6W 12.8V 102AH 12.8V 12.8V 1	orimer + Anti-UV thermosettin Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs 10°C to 50°C (-14°F to 122°F) -0°C to 45°C (32°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days L90B10 - 52 000 h, @Tq 25°C ranty extension up to 5 years ompany is ISO 9001 and ISO 1613*653*508mm 45.5kg Fixture: 520*270*135mm Box: 691*400*290mm Panel: 1693*733*125mm	g polyester (for extremely con banel) el 36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 25.6V 102AH 102AH 25.6V 102AH 25.6V 102AH 26.6V 102AH 2	36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 1500*990*593mm 73kg Fixture: 825*360*200m Box: 1186*400*290mm Panel: 1560*1050*125m Fixture: 8.1kg Box: 46kg			
Surface treatment Painting Vounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Vorking Temperature Charing Tempera		18V/72W 691.2WH 12.8V 54AH 25.8V 818*493*468mm 25.5kg Fixture: 520*270*135mm Box: 402*400*290mm Panel: 898*573*125mm Fixture: 3kg	polyester / 80 micron epoxy p Silde e Silde e 18V/130W 1305.6WH 12.8V 102AH 12.8V 102AH 12.8V 102AH	orimer + Anti-UV thermosettin Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs 10°C to 50°C (-14°F to 122°F) -0°C to 45°C (32°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days 190B10 - 52 000 h, @Tq 25°C rranty extension up to 5 years ompany is ISO 9001 and ISO 1613°653°508mm 45.5kg Fixture: 520°270°135mm Box: 691*400°290mm Panel: 1693°733°125mm Fixture: 3kg	g polyester (for extremely con panel) el 36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 26.6V 1	36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 1500*990*593mm 73kg Fixture: 825*360*200m Box: 1186*400*290mm Panel: 1560*1050*125m Fixture: 8.1kg			

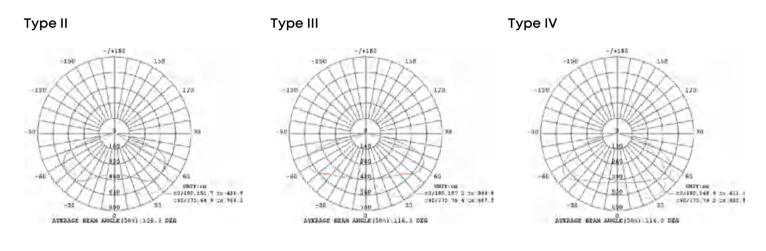
SL Series Specification Sheet

*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

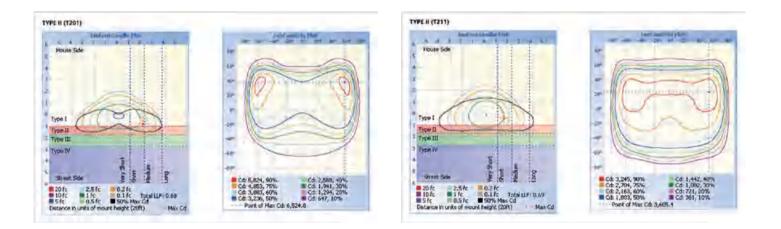
Ordering Information

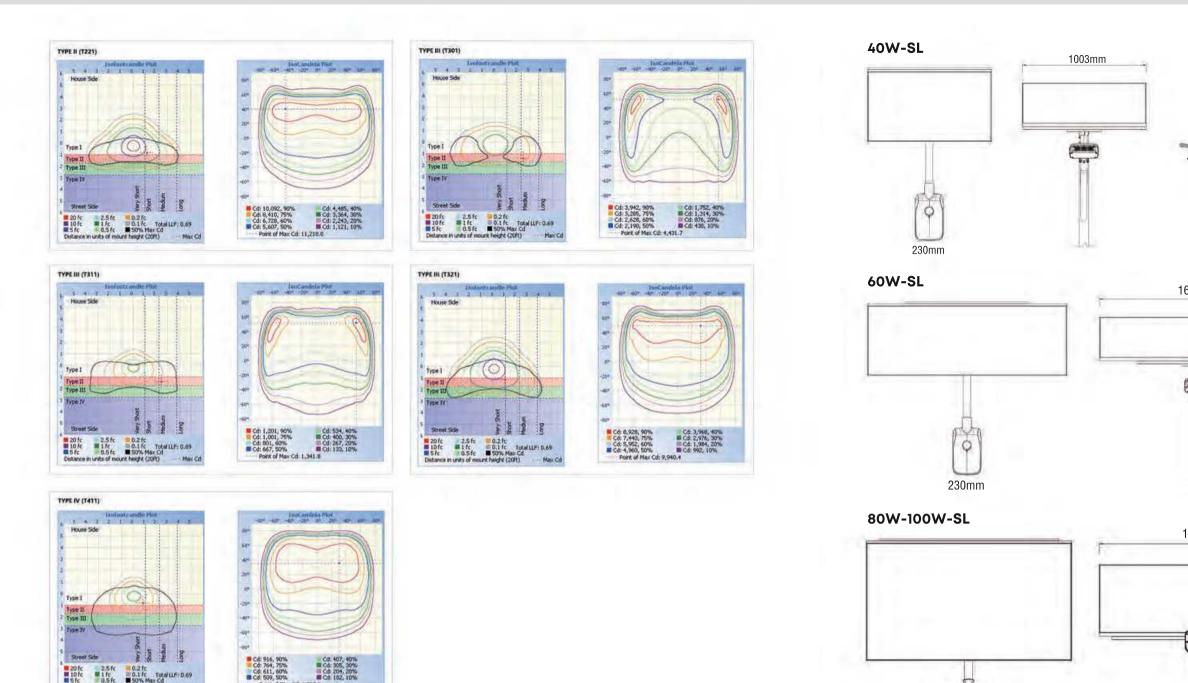
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	OPTION
20WsL	NV=12/24V DC	L3=LUMILEDS 3030	00=Without Sensor	3070=3000K 70CRI	T2=TYPE II	A=Top Post	4KV SPD
40WsL		L5=LUMILEDS 5050	SN=Motion Sensor	4070=4000K 70CRI	T3=TYPE III		Intelligent Control
60WsL			PH=Photocell	5070=5000K 70CRI	T4=TYPE IV		
80WsL			DV=Dimmable	5770=5700K 70CRI	T5=TYPE V		
100WsL				6570=6500K 70CRI			
				3080=3000K 80CRI			
				4080=4000K 80CRI			
				5080=5000K 80CRI			
				5780=5700K 80CRI			
				6580=6500K 80CRI			

Photometry



Illuminance Diagram

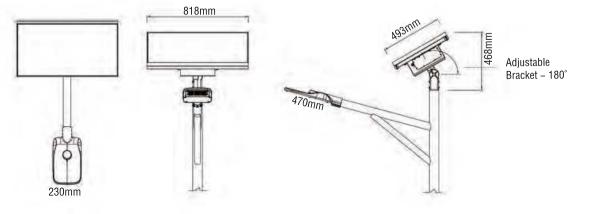




Dimensions

20 fc 2.5 fc 0.2 fc 10 fc 1 fc 0.1 fc Tetal LLF: 0.69 5 fc 0.5 fc 50% Max.Cd





Accessories

3 pin/7 pin receptacle

NO

0

240mm

Photocell

*As the products are upgraded, the accessories may differ from those described in the pictures. Please consult with our sales team for updated details and order separately.

SL Series Specification Sheet

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