

200+ Patent Certificates
\$1,000,000+ Annual Energy Saving
20,000+ Projects Successfully Installed



SL Split Solar Street Light

Power: 20W - 100W



Innovative & Tailored
Lighting Solutions for **Success**
www.aokledlight.com

Discover **SL** Series










WARRANTY


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

The SL Solar LED Street Light features a classic street light design, utilizing solar energy for power while maintaining a discreet profile. It comes with dimming capabilities and incorporates intelligent IoT control functionality.

- Deep cycle battery with the ability to charge and discharge over 2000 times.
- Sustained operation for 2-3 consecutive rainy days in intelligent mode.
- Die-cast aluminum fixture housing.
- UV-stabilized polyester powder paint finish ensures durability and corrosion resistance.
- Installation options include side entry.
- Streamlined design to minimize wind resistance.
- Reserved sensor location for ZigBee.
- Powder coating/PC + Tempered glass cover.

Advantages of SL Split Solar Street Light

 <p>Fixture Customization Optional</p>	 <p>Adjustable & Reinforced Bracket</p>	 <p>Monocrystalline Silicon Solar Panel</p>	 <p>Solar Panel Integrated with Battery Box</p>
 <p>Adjustable Battery Box Position</p>	 <p>Long Lifespan Li-ion Battery & MPPT</p>	 <p>Intelligent Lighting Control</p>	

 <p>PATENTED PRODUCT</p>	<p>UP TO</p> <p>177 lm/W</p>	<p>L90B10</p> <p>>100,000HRS @ 25°C</p>	<p>3000K 4000K 5000K 5700K 6500K</p>	<p>CRI</p> <p>Ra70/80/90</p>	<p>WORKING TEMPERATURE ENVIRONMENT</p> <p>-10°C~50°C (-14°F~122°F)</p>	<p>ULR</p> <p>=0%</p>
<p>IP65</p>	<p>TEMPERED Glass</p>	<p>SMART SENSOR OPTIONAL</p>	<p>Optional REMOTE CONTROL</p>	<p>IoT-4G / ZigBee OPTIONAL</p>	<p>DIM</p>	

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AOK[®]
Quality, Honesty, Service and Innovation

Key Components



LiFePO4 Battery

The light fixture includes a high-capacity LiFePO4 battery pack, offering over 10 years of maintenance-free use.



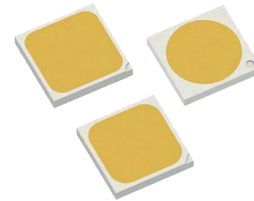
Remote Control

The lighting program can be easily modified to save more energy and extend working time during low sunlight, thereby prolonging battery life.



MPPT Charge Controller

All street lights use the MPPT solar controller, boosting charging efficiency by 30% compared to PWM and ensuring more stable performance.



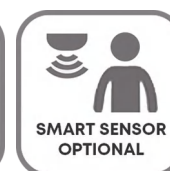
LUMILEDS LED Chips

It uses ultra-high brightness LUMILEDS LED chips to provide the best lighting performance with minimal power consumption.



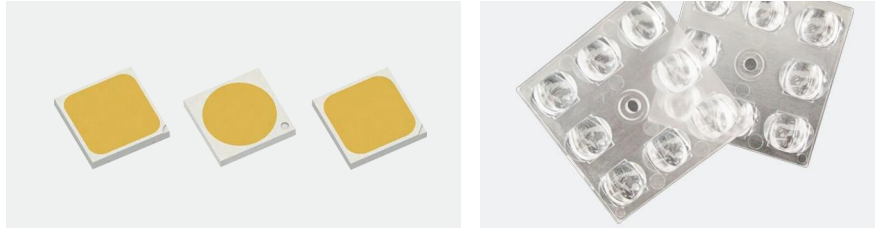
Optics Lens

The distributions design focused on the road's center, reducing light pollutions. Various lens patterns are available to meet different project needs.



Energy-efficient Lighting Systems

Single lumen efficiency **>177lm/W** achieve higher illumination



High Efficiency



Long Lifespan



Less Calorific Value



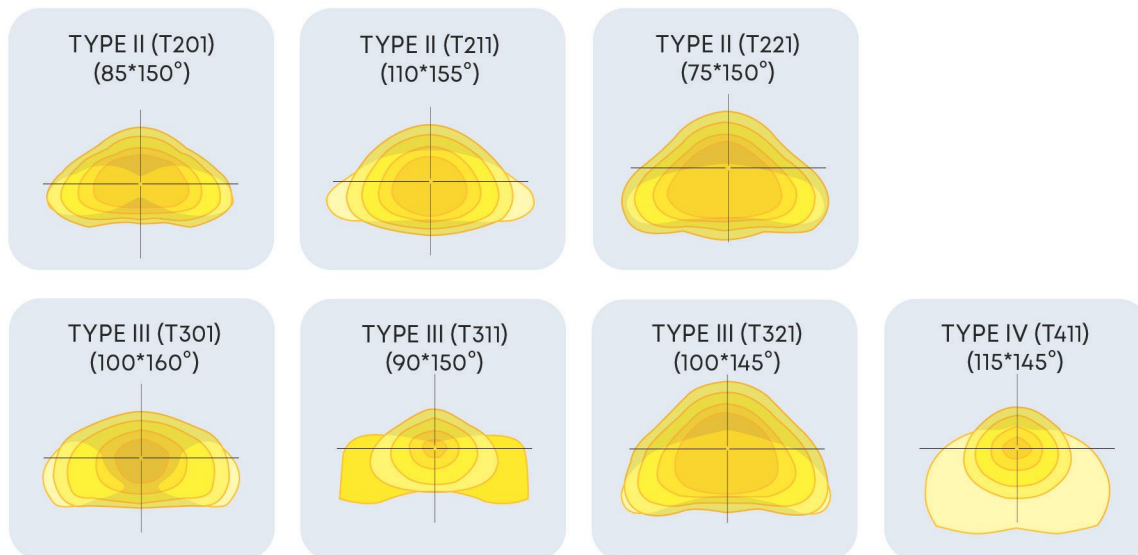
Low Light Decay

Low-copper aluminum cast under high pressure. It has a protection rating of IP65 and an impact resistance rating of IK08. The high-quality Polyester Powder Coating from AKZO NOBEL ensures excellent resistance to salt, humidity, and ultraviolet rays, maintaining color retention for this product.

Featuring the PHILIPS Lumileds 3030 or 5050 LED chip, it serves as a top-tier light source. The well-optimized light distribution ensures a more uniform and expansive illuminated area, minimizing upper light pollution.

Multiple Distribution Options

General solution, accurate light distribution design, flexible to match the project requirements:



* Due to working temperature and CCT/CRI adjustments, actual photometric values may vary slightly. Please consult the measured IES file for accurate data. The above information is for reference purposes only.

Smart Control Ready For Efficient Management

Application of **Typical Networking** of Smart Street Light (optional)



Single lamp control

Control street light switch, brightness adjustment, current acquisition. Voltage acquisition, power calculation and power factor functions.



Wireless network

From the device to the cloud, NB-IoT, GPRS, LTE and other cellular networks are used, without cabling.



Fault management

The street light can automatically report fault information, troubleshoot faults through the platform, and query historical faults.



Energy management

Supports online monitoring and storage of energy consumption and configuring energy saving policies.



Intelligent monitoring

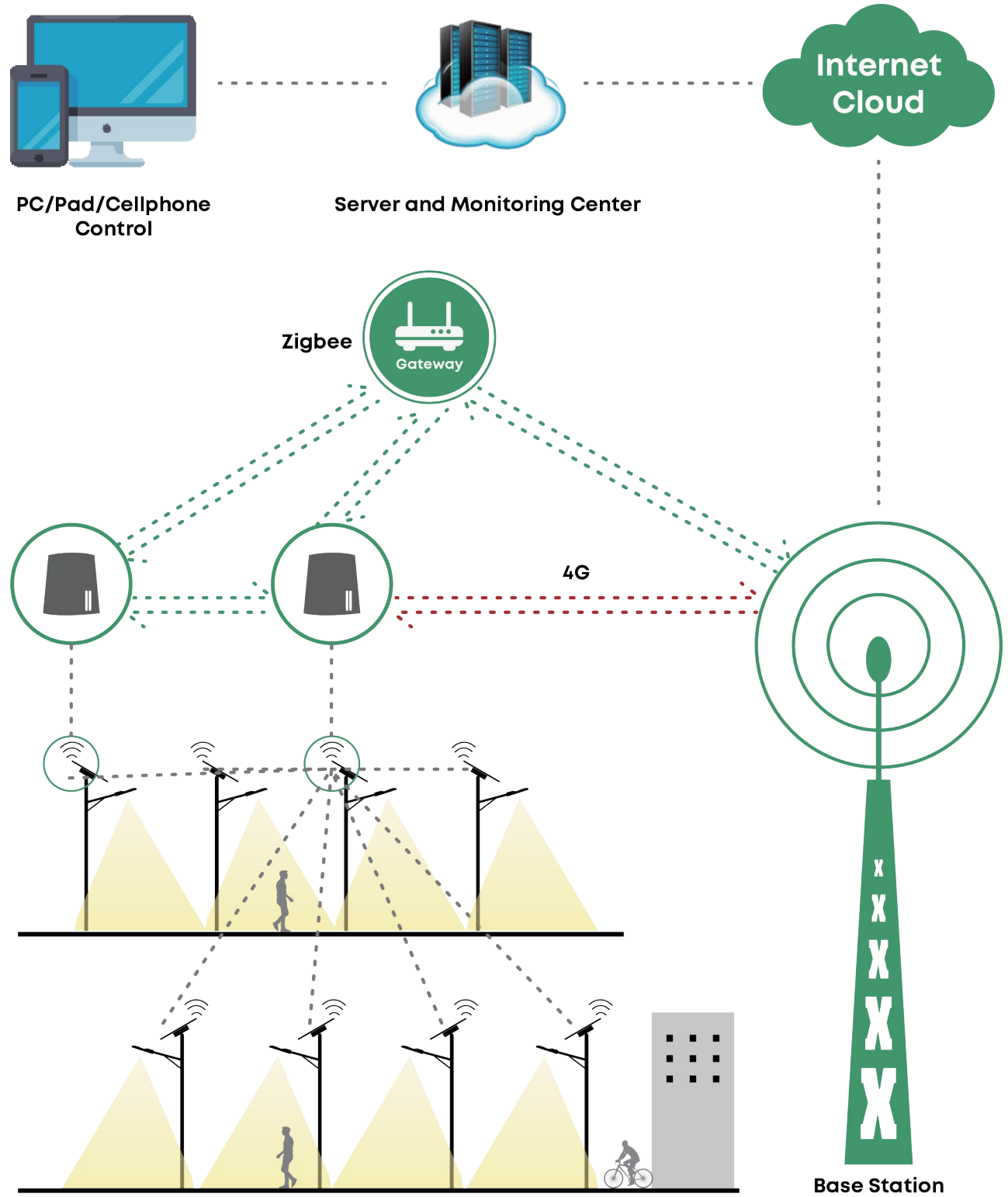
Support remote monitoring and remote control through PC web and mobile APP.



Big data analysis

Based on the massive data of the platform, street light fault analysis and energy consumption analysis can be carried out to provide a basis for the maintenance of street light equipment to save energy and reduce consumption.

Application of Typical IOT networking



Application Reference

- Road & street lighting
- Residential area lighting
- Garden, parks & perimeter lighting
- Parking lot lighting
- Industrial and commercial park lighting
- Railway & station side lighting
- Riverside & jogging track lighting





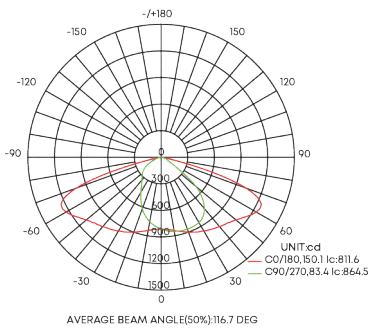
Parameter Table

Electrical Data						
Model	AOK-20Wsl	AOK-40Wsl	AOK-60Wsl	AOK-80Wsl	AOK-100Wsl	
Power	20W	40W	60W	80W	100W	
Input Voltage	12-24V DC					
THD	<20%					
PF	>0.95					
Control Option	Dimming, Zigbee/4G					
Photometric Data						
LED Manufacturer	LUMILEDS					
LED Model	Lumileds 3030/Lumileds 5050					
Lens	Polycarbonate					
Luminous Flux (lm, Std. Dev. ±5%)	3030 5050	3520lm 3540lm	6640lm 6680lm	10020lm 10080lm	13360m 13440lm	16700lm 16800lm
Efficacy (lm/W, Std. Dev. ±5%)	3030 5050	176lm/W 177lm/W	166lm/W 167lm/W	167lm/W 168lm/W	167lm/W 168lm/W	167lm/W 168lm/W
ULOR	= 0%, @ Luminaire inclination 0°					
CCT	3000K, 4000K, 5000K, 5700K, 6500K					
CRI	70Ra, 80Ra, 90Ra optional					
Beam Angle	Type-II (85°150°, 110°155°, 75°150°) / Type III (100°160°, 90°150°, 100°145°) / Type IV (115°145°)					
Mechanical Data						
IP Rating	IP65, according to standard EN 60529					
SCx(Fixture)	Front: 0.014 m²; Side: 0.0214 m²		Front: 0.0219 m²; Side: 0.035 m²			
SCx (Solar Panel)	Front: 0.45m²; Front-side: 0.32m²; Side: 0.08m²;	Front: 0.71m²; Front-side: 0.47m²; Side: 0.09m²;	Front: 1.14m²; Front-side: 0.73m²; Side: 0.09m²;	Front: 1.59m²; Front-side: 0.99m²; Side: 0.12m²;	Front: 1.59m²; Front-side: 0.99m²; Side: 0.12m²;	
Housing	Heavy-duty die-cast aluminum (EN AC-46100)					
Surface Treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).					
Painting	Silver gray, Customized Color					
Mounting	Side entry (fixture) Post top(Solar panel)					
Configuration Data						
Photovoltaic Panel	Single crystal photovoltaic panel					
Solar Panel	18V/72W	18V/130W	36V/200W	36V/280W	36V/280W	
Li-on Battery	691.2WH	1305.6WH	1996.8WH	2611.2WH	2611.2WH	
	12.8V 54AH	12.8V 102AH	25.6V 78AH	25.6V 102AH	25.6V 102AH	
Charing Time	8hrs					
Battery Lifespan	>2000 times cycle					
Run Time(@full power)	30hrs					
Ambient Temperature	-10°C to 50°C (-14°F to 122°F)					
Storage Temperature	-20°C to 45°C (-4°F to 113°F)					
Charing Temperature	-0°C to 45°C (32°F to 113°F)					
Control System	MPPT intelligent controller					
Maximum Autonomy	Operate under 3-5 rainy days					
Motion Sensor Mode	30%-100% 102hrs (Max), 20%-80% 155hrs (Max)					
Constant Mode(Full Charge)	100% 30hrs, 70% 45hrs, 40% 78hrs					
Others						
Lifespan	L90B10 - 10000hrs, @Tq 25°C					
Warranty	3 years in standard, 5 years optional					
Certification	CE RoHS (The company is ISO 9001 and ISO 14001 certified.)					
Product Size (Solar panel)	818*493*468mm / 32.2*19.4*18.4 inches	1003*653*508mm / 39.5*25.7*20 inches	1613*653*508mm / 63.5*25.7*20 inches	1500*990*593mm / 59.1*39.0*23.3 inches	1500*990*593mm / 59.1*39.0*23.3 inches	
Net Weight	25.5kg / 56.22 lbs	35.5kg / 78.26 lbs	45.5kg / 100.31 lbs	73kg / 160.94 lbs	73kg / 160.94 lbs	
Carton Size	Fixture: 520*270*135mm / 20.1*10.6*5.3 inches Box: 402*400*290mm / 15.8*15.7*11.4 inches Panel: 898*573*125mm / 35.4*25.6*4.9 inches	Fixture: 520*270*135mm / 20.1*10.6*5.3 inches Box: 620*400*290mm / 24.4*15.7*5.3 inches Panel: 1083*733*125mm / 42.6*28.9*4.9 inches	Fixture: 520*270*135mm / 20.1*10.6*5.3 inches Box: 691*400*290mm / 27.2*15.7*5.3 inches Panel: 1693*733*125mm / 66.7*28.9*4.9 inches	Fixture: 825*360*200mm / 32.5*14.2*7.9 inches Box: 1186*400*290mm / 46.7*15.7*11.4 inches Panel: 1560*1050*125mm / 61.4*41.3*4.9 inches	Fixture: 825*360*200mm / 32.5*14.2*7.9 inches Box: 1186*400*290mm / 46.7*15.7*11.4 inches Panel: 1560*1050*125mm / 61.4*41.3*4.9 inches	
Gross Weight	Fixture: 3kg / 6.61 lbs Box: 19kg / 41.89 lbs Panel: 8kg / 17.64 lbs	Fixture: 3kg / 6.61 lbs Box: 25kg / 55.12 lbs Panel: 12kg / 26.46 lbs	Fixture: 3kg / 6.61 lbs Box: 38kg / 83.78 lbs Panel: 16kg / 35.27 lbs	Fixture: 8.1kg / 17.86 lbs Box: 46kg / 101.41 lbs Panel: 25kg / 55.12 lbs	Fixture: 8.1kg / 17.86 lbs Box: 46kg / 101.41 lbs Panel: 25kg / 55.12 lbs	
Recommend Installation	3-4M(10-13ft)	5-6M(16-19ft)	7-8M(22-26ft)	9-10M(29-32ft)	11-12M(36-39ft)	
Application Field	Road & street, residential area, garden, parks, parking lot, industrial and commercial parks, railway & station side, riverside & jogging track					
Important Note!	The provided information is solely for reference; the official measurement report holds higher authority.					

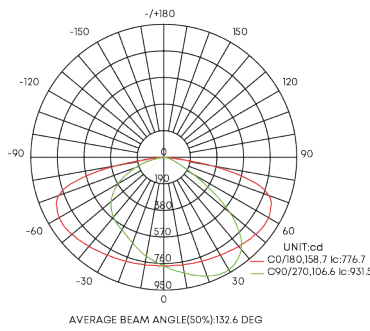
Ordering Information

AOK						
WATTS	VOLTAGE	LED CHIPS	CCT&CRI	DISTRIBUTION	MOUNT	OPTION
20WsL	NV1=12.8V DC	L3=LUMILEDS 3030	3070=3000K 70CRI	T201 (85*150°)	A=Top Post	Intelligent Control
40WsL	NV2=25.6V DC	L5=LUMILEDS 5050	4070=4000K 70CRI	T211 (110*155°)		
60WsL			5070=5000K 70CRI	T221 (75*150°)		
80WsL			5770=5700K 70CRI	T301 (100*160°)		
100WsL			6570=6500K 70CRI	T311 (90*150°)		
			3080=3000K 80CRI	T321 (100*145°)		
			4080=4000K 80CRI	T411 (115*145°)		
			5080=5000K 80CRI			
			5780=5700K 80CRI			
			6580=6500K 80CRI			

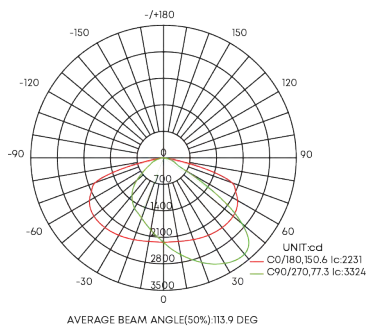
Photometry



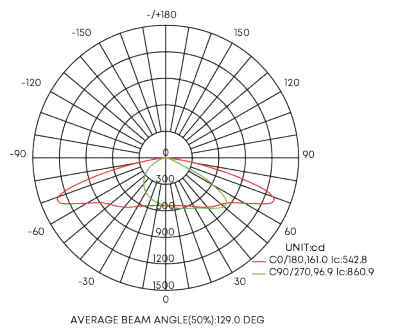
T201 (85*150°)



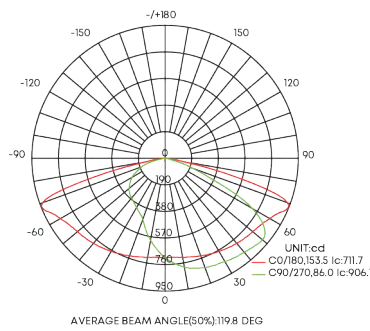
T211 (110*155°)



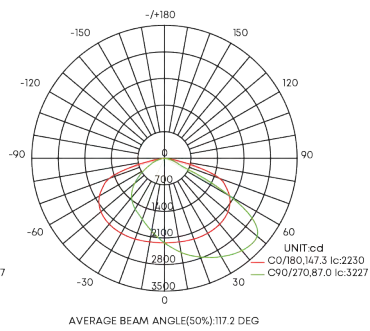
T221 (75*150°)



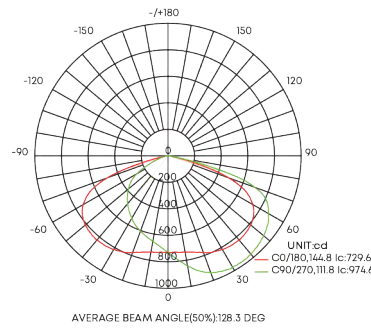
T301 (100*160°)



T311 (90*150°)

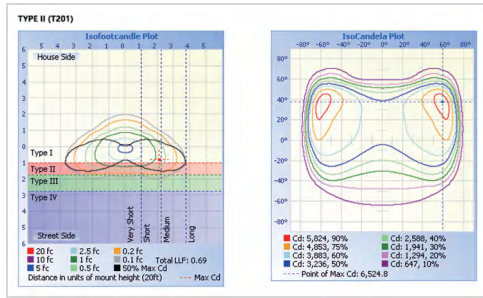


T321 (100*145°)

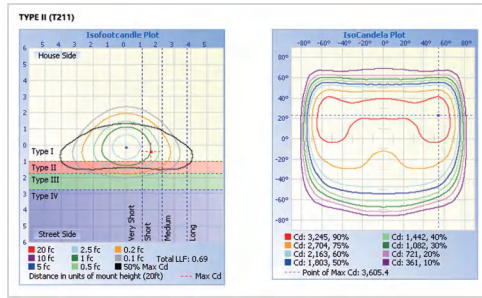


T411 (115*145°)

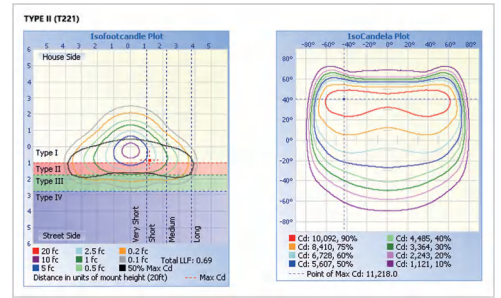
Illuminance Diagram



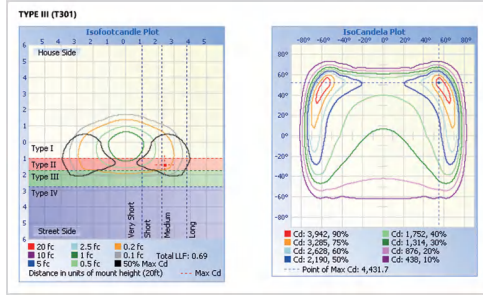
T201 (85*150°)



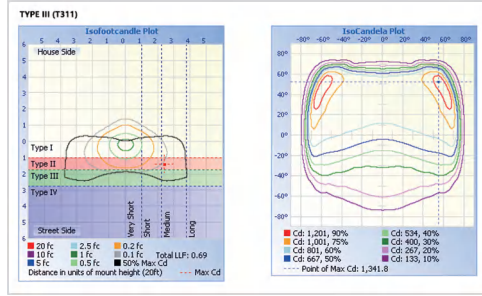
T211 (110*155°)



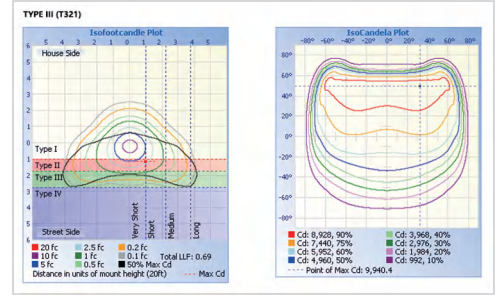
T221 (75*150°)



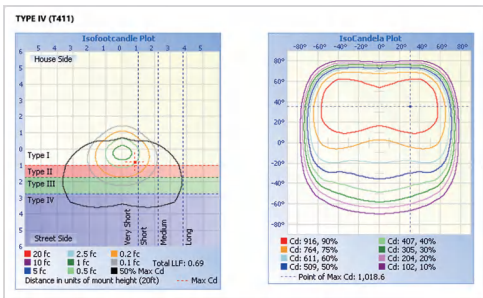
T301 (100*160°)



T311 (90*150°)



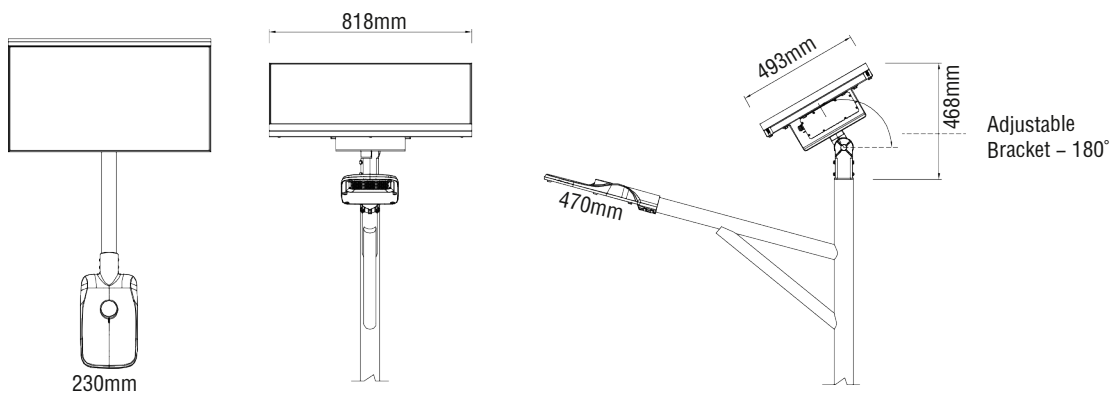
T321 (100*145°)



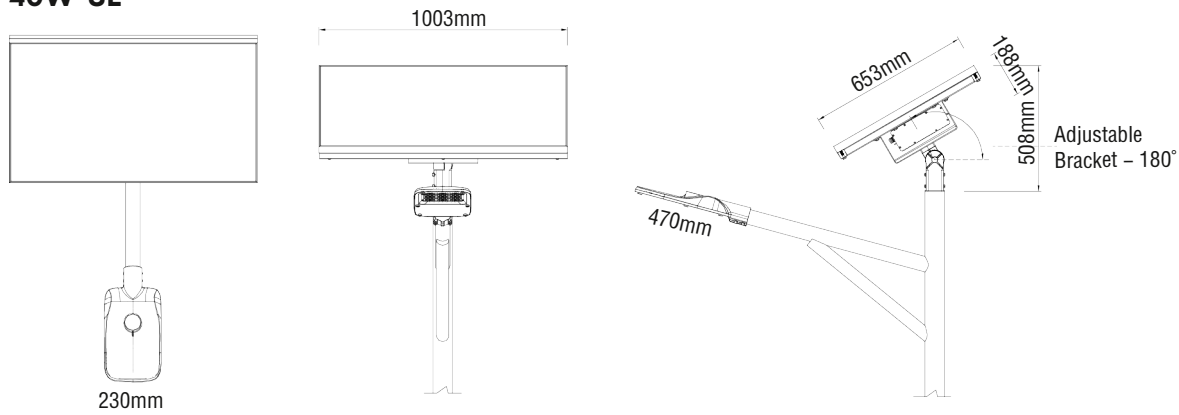
T411 (115*145°)

Dimensions

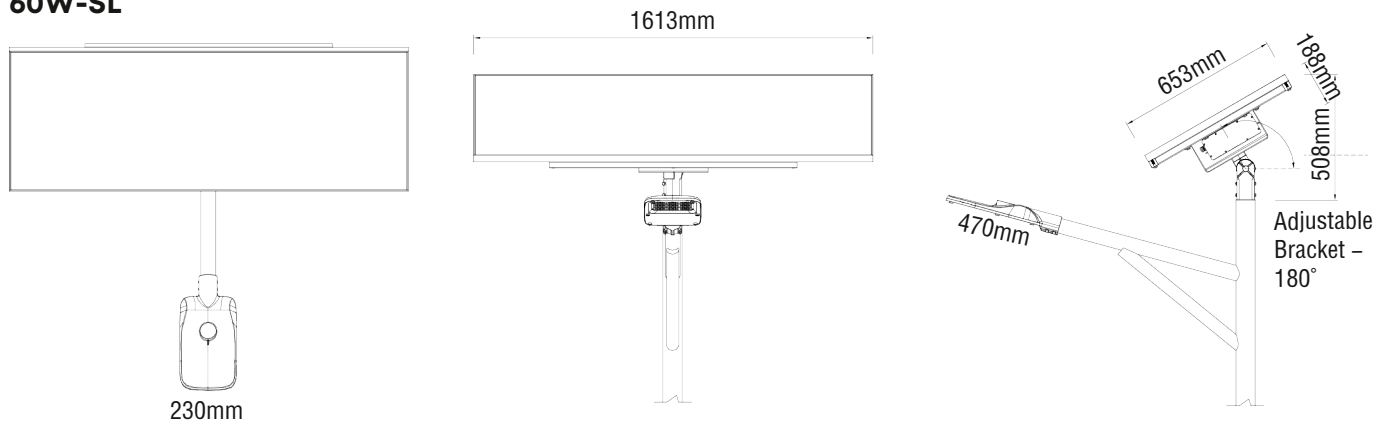
20W-SL



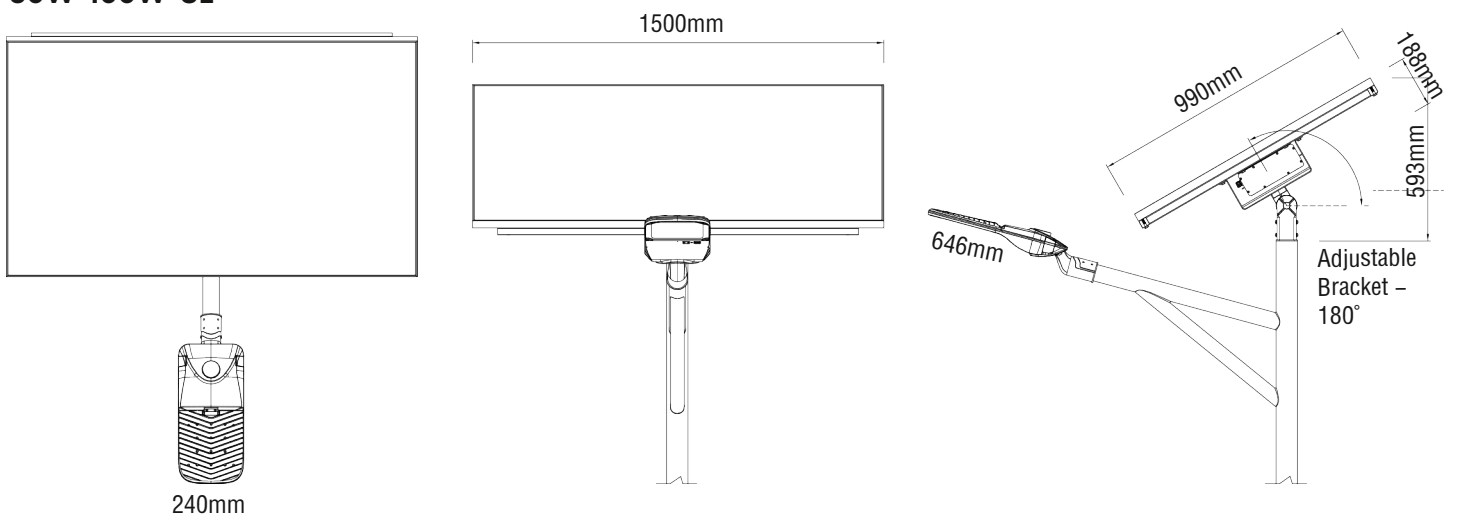
40W-SL



60W-SL



80W-100W-SL



Accessories



MPPT
4G/Zigbee-IoT



Programable
Remote Control
(optional)

Caution:

Accessories need to be ordered separately.

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.



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WARRANTY

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

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