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

AOK®
Quality, Honesty, Service and Innovation

SLB All in One Solar Street Light

Power: 40W - 100W

Annual Replaced 150,000+ units Street Lighting

PROFESSIONAL TRUST WORTHINESS

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

Discover **SLB** Series

3 5

WARRANTY

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

• Utilizing LiFePO4 batteries, providing over 2000 cycles of charge and discharge, ensures safety, compact size, and extended lifespan.
• Operates continuously for 2-3 rainy days under intelligent mode.
• Aluminum fixture housing for durability.
• UV stabilized polyester powder paint finish resists corrosion.
• Mounting options include Post Top.
• Streamlined design minimizes wind resistance.
• Optical systems maintain an IP65 rating.
• ULOR=0% eliminates up-light pollution.
• Induction dimmer intelligent controller with optional presence detection sensor. Features an energy-saving mode with adjustable levels to extend lighting duration and automatically adjust brightness.

Advantages of
SLB All in One Solar Street Light

All In One Design
Enhanced Structure

Adjustable &
Reinforced Bracket

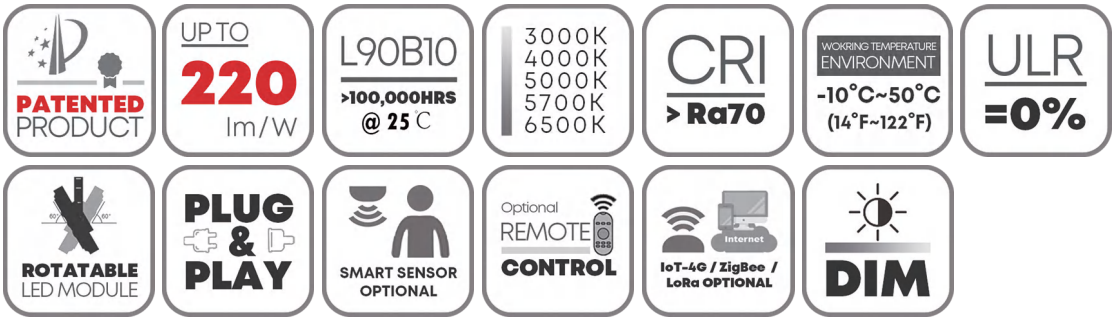
Monocrystalline
Silicon Solar Panel

Bificial
Solar Panels

Dual Battery
Protection
Supports 0V Charging

Long Lifespan
Li-ion Battery & MPPT

Tool-less
Maintenance



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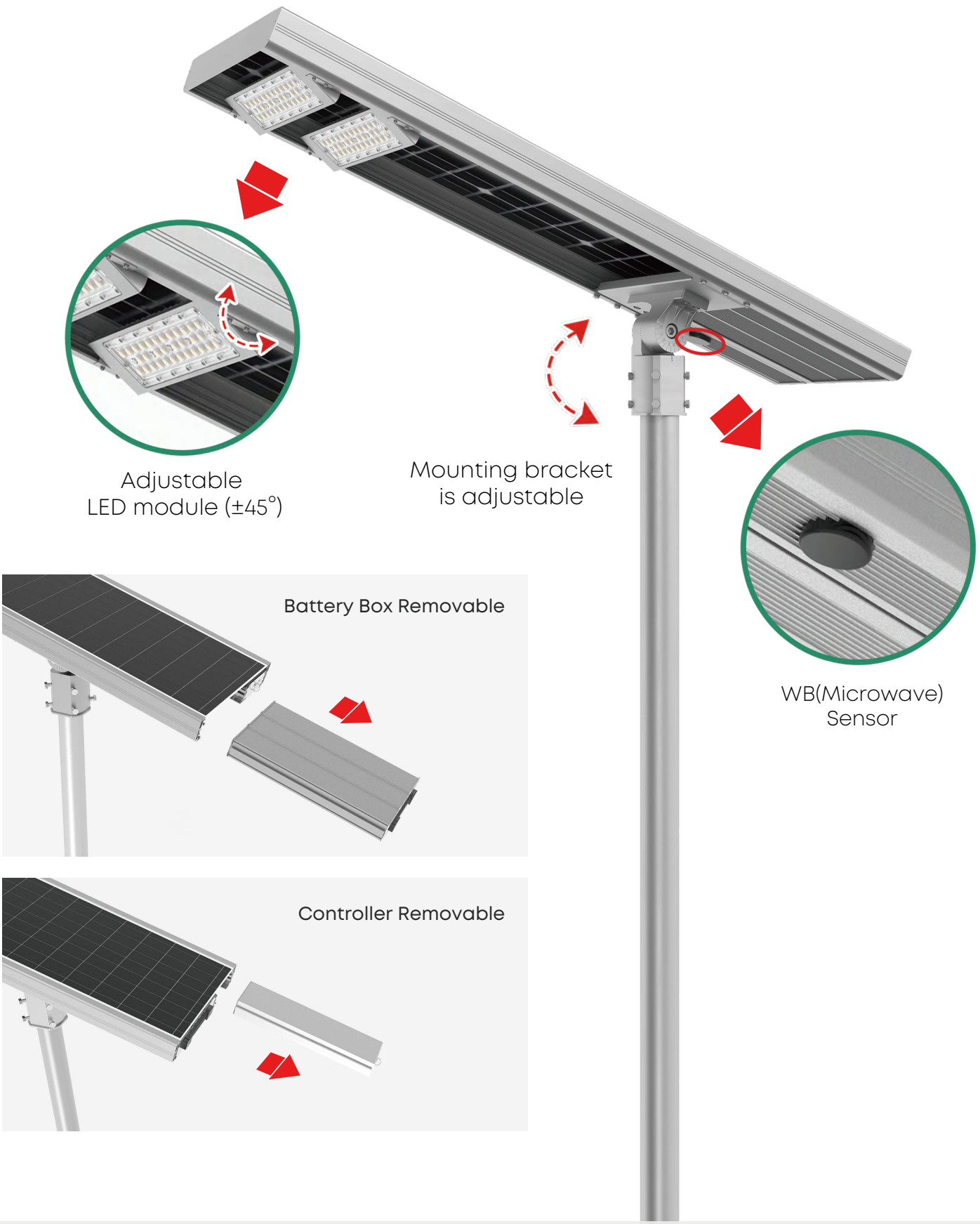
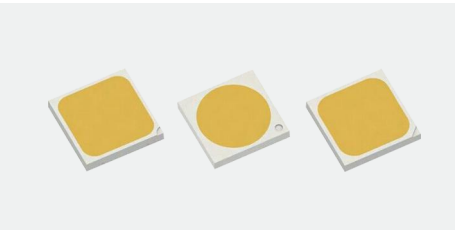
Plug & Play Design
Lower Maintenance Costs

The battery box, controller, and sensor box are designed as independent modular structures with strong replaceability and easy disassembly.



Energy-efficient
Lighting Systems

Single lumen efficiency **>220lm/W** achieve higher illumination



High Efficiency

Long Lifespan

Less Calorific Value

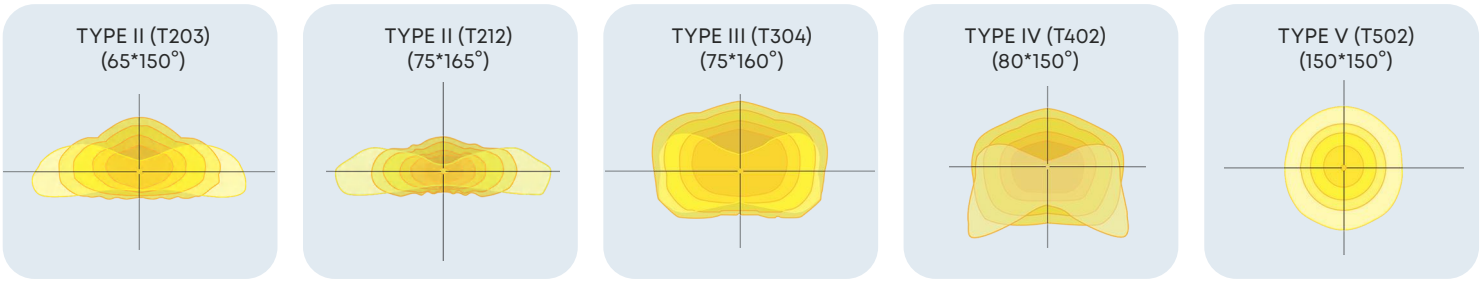
Low Light Decay

• The light engine utilizes cutting-edge energy-efficient LEDs and specialized optics tailored for professional use.

• Featuring 5050 LED chips, our lighting solutions range from high-level specialized lights to cost-effective luminaires of exceptional quality. Custom LED chip options are also available.

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.

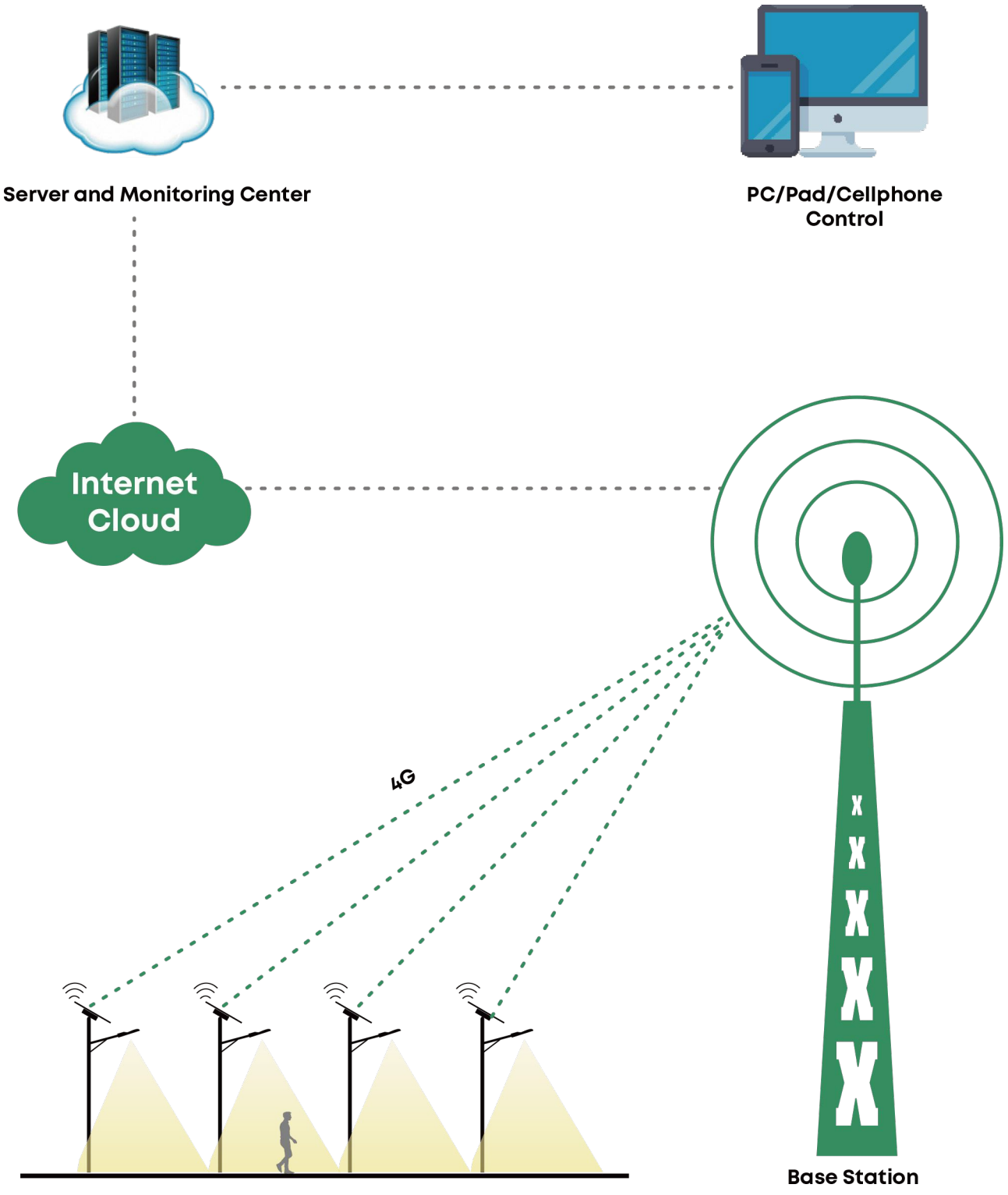
Intelligent monitoring

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.

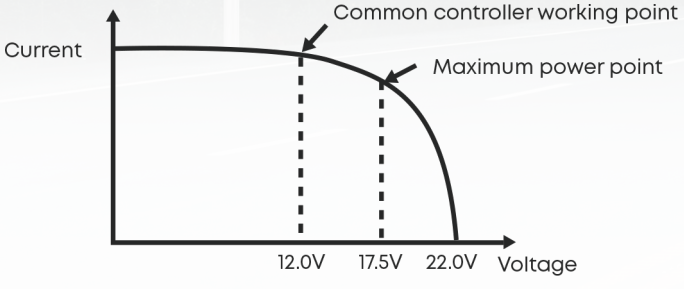
Application of
Typical IOT networking



Application Reference

- Road & highway lighting
- Urban road & street lighting
- Residential area ligthing
- Parks & perimeter lighting
- Parking lot lighting
- Riverside & jogging track

Advantages of Controller

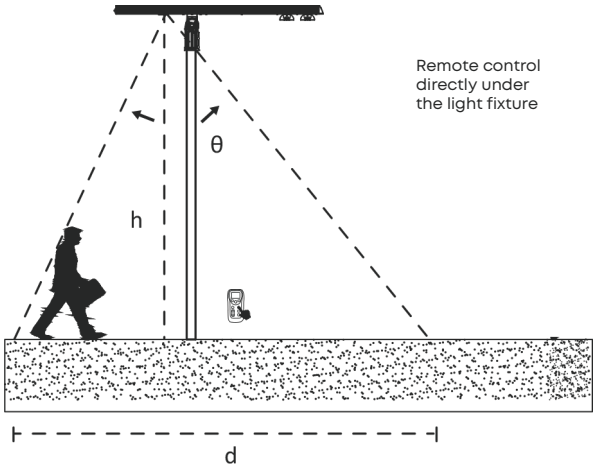


(take 12V battery system as an example)

1) Moving Track MPPT maximum power tracking technology is adopted to improve the tracking efficiency and speed by more than 20%;
2) UltraGreen power control technology with extremely low static power consumption and sleep current;
3) 10 time-periods programmable load power/time control;
4) Multiple intelligent power modes can be selected, and the load power can be automatically adjusted according to the battery power;
5) Multiple protection functions such as battery /PV reverse connection protection, LED short circuit/open circuit/power limit protection;
6) Aluminum metal housing, IP67 waterproof rating, can be used in a variety of harsh environments
7) Extensible IoT remote communication monitoring function;

The angle can be adjusted by the bracket to make the solar panel face the direction of the sun, thereby absorbing light sources

Detection distance



*Remote control is optional

Remote control distance 5-8 meters, installation height and environment and other factors will affect the controller sensitivity, please refer to the actual field.
Note: Please do not place 2 or more lights within 12 meters at the same time while using the remote controller, receiving or sending may fail.

Inductive Type (alternative)	θ-Angle (X-axis rotation: 360°)	h (Height of lamp rod)	d (Inductive width)
IR (Infrared)	60°	6-8m	6-10m
WB (Microwave)	65°	6-10m	7-10m

Parameter Table

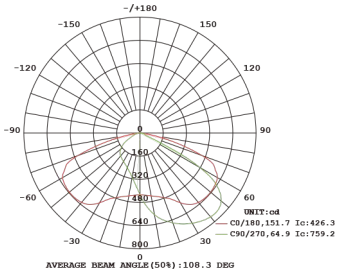
Electrical Data					
Model	**AOK-40WsLB**	**AOK-50WsLB**	**AOK-60WsLB**	**AOK-80WsLB**	**AOK-100WsLB**
Power	40W	50W	60W	80W	100W
Module	1	2	2	2	3
Control Option	Photocell sensor, timing, dimming, intelligent power saving; Microwave sensor or Infrared sensor(alternative).				
Standard Working Mode	4H-Detected 100%, None 30%; 3H-Detected 70%, None 30%; 3H-Detected 50%, None 20%; 4H-Detected 30%, None 10%				
Photometric Data					
LED Manufacturer	AOK				
LED Model	5050, custom on request				
Lens	Polycarbonate				
Efficacy(lm/W,Std. Dev. ±5%)	220lm/W	220lm/W	220lm/W	220lm/W	220lm/W
Luminous Flux (lm,Std. Dev. ±5%)	8800lm	11000lm	13200lm	17600lm	22000lm
ULOR	= 0%, @ Luminaire inclination 0°				
CCT	3000K, 4000K, 5000K, 5700K, 6500K				
CRI	70Ra				
Beam Angle	T203(65*150°) / T212(75*165°) / T304(75*160°) / T402(80*150°) / T502(150*150°)				
Mechanical Data					
IP Rating	IP65, according to standard EN 60529				
Housing	Aluminum				
Surface Treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).				
Painting	Cool Gray 5C, custom color on request.				
Mounting	Post Top				
Configuration Data					
Photovoltaic Panel	Bificial monocrystalline solar panels				
Solar Panel	60W	70W	80W	100W	120W
Li-ion Battery	307.2Wh	384Wh	460.8Wh	614.4Wh	768Wh
Charing Time	5.7Hrs	5.7Hrs	6Hrs	6.5Hrs	6.8Hrs
Run Time(@full power)	7.6hrs	7.2hrs	7.2hrs	7.2Hrs	7.2Hrs
Ambient Temperature	-10°C to 50°C (14°F to 122°F)				
Storage Temperature	-20°C to 45°C (-4°F to 113°F)				
Control System	Induction dimmer controller as standard, custom IOT and remote control on request				
Maximum Autonomy	Operate 2~3 rainy days under intelligent model.				
Others					
Warranty	3 years as standard (Warranty extension to 5 years on request)				
Product Size	1045*370*64mm / 42.14*14.57*2.52inch	1175*370*64mm / 46.26*14.57*2.52inch	1310*370*64mm / 51.57*14.57*2.52inch	1135*530*64mm / 44.69*20.87*2.52inch	1340*530*64mm / 52.76*20.87*2.52inch
Net Weight	14.7kg / 32.41lbs	16.3kg / 35.94lbs	19kg / 41.89lbs	23.6kg / 52.03lbs	27kg / 59.52lbs
Carton Size	1325*440*135mm / 52.17*17.32*5.31inch	1455*440*135mm / 57.28*17.32*5.31inch	1590*440*135mm / 62.60*17.32*5.31inch	1425*600*135mm / 56.10*23.62*5.31inch	1620*600*135mm / 63.78*23.62*5.31inch
Gross Weight	16.7kg / 36.82lbs	18.3kg / 40.34lbs	21kg / 46.30lbs	25.6kg / 56.44lbs	29kg / 63.9.lbs
Recommend Installation Height	5-7m	5-7m	6-8m	7-9m	8-10m
Application Field	Road & street, residential area, garden, parks, parking lot, industrial and commercial parks, railway & station side, riverside & jogging track				
EPA	Top View: 0.394m Side View: 0.072m Front View: 0.040m	Top View: 0.442m Side View: 0.081m Front View: 0.040m	Top View: 0.492m Side View: 0.087m Front View: 0.040m	Top View: 0.621m Side View: 0.082m Front View: 0.048m	Top View: 0.706m Side View: 0.082m Front View: 0.048m
Storage Instruction	For long-term storage, it is advisable to first fully charge the battery, then discharge it for 2 to 3 hours. This should be done every 3 months to prevent battery damage.				

Important Note! **The provided information is solely for reference; the official measurement report holds higher authority.**

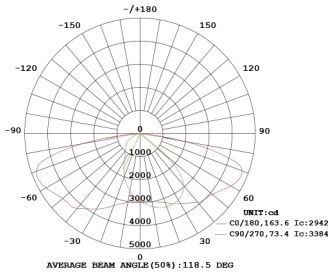
Ordering Information

AOK	-		-		-		-		-		-	
MODEL		LED CHIPS		TYPE OF SENSOR		CCT&CRI		DISTRIBUTION		MOUNT		HOUSING
40WsLB		A5=5050		00=Without Sensor		3070=3000K 70CRI		T203	(65*150°)	A=Post Top		GR=Gray
50WsLB				IR=Infrared		4070=4000K 70CRI		T212	(75*165°)			Custom request
60WsLB				WB=Microwave		5070=5000K 70CRI		T304	(75*160°)			
80WsLB						5770=5700K 70CRI		T402	(80*150°)			
100WsLB						6570=6500K 70CRI		T502	(150*150°)			

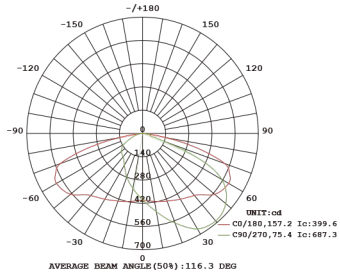
Photometry



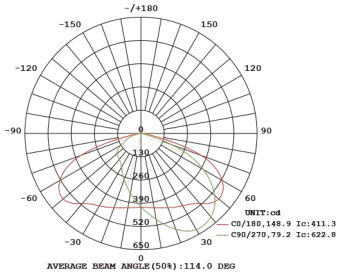
Type II (T203)
(65*150°)



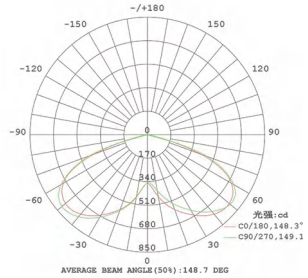
Type II (T212)
(75*165°)



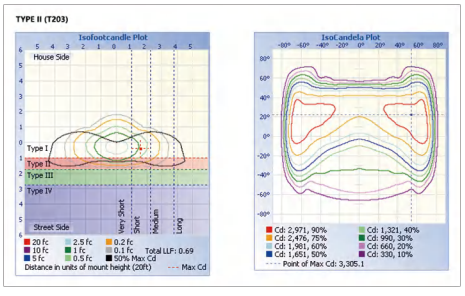
Type III (T304)
(75*160°)

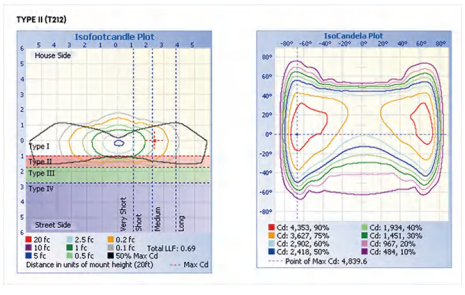


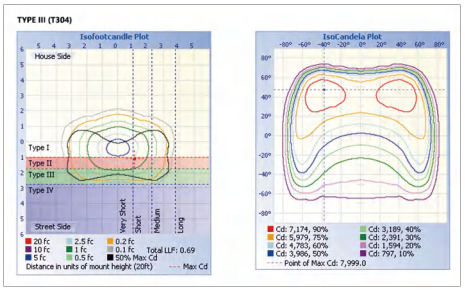
Type IV (T402)
(80*150°)

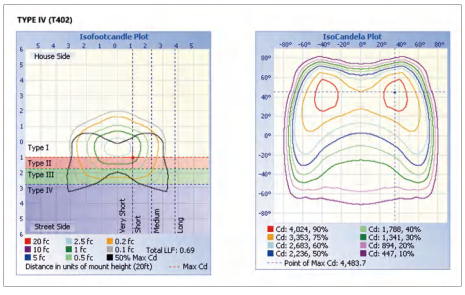


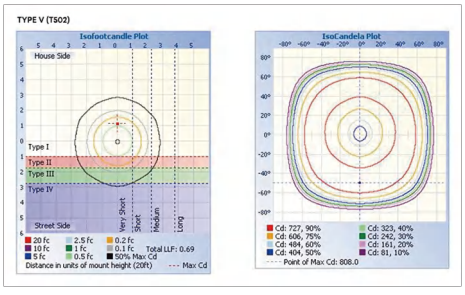
Type V (T502)
(150*150°)



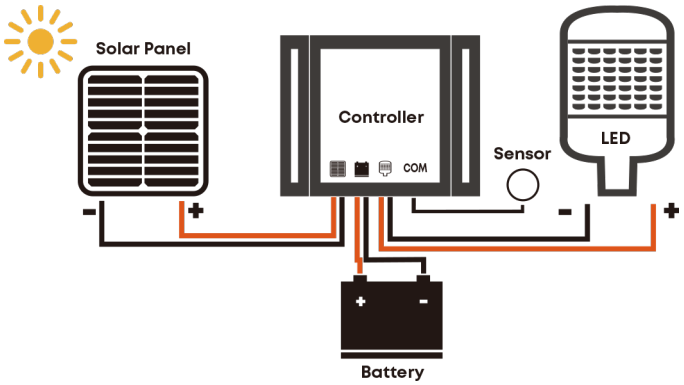








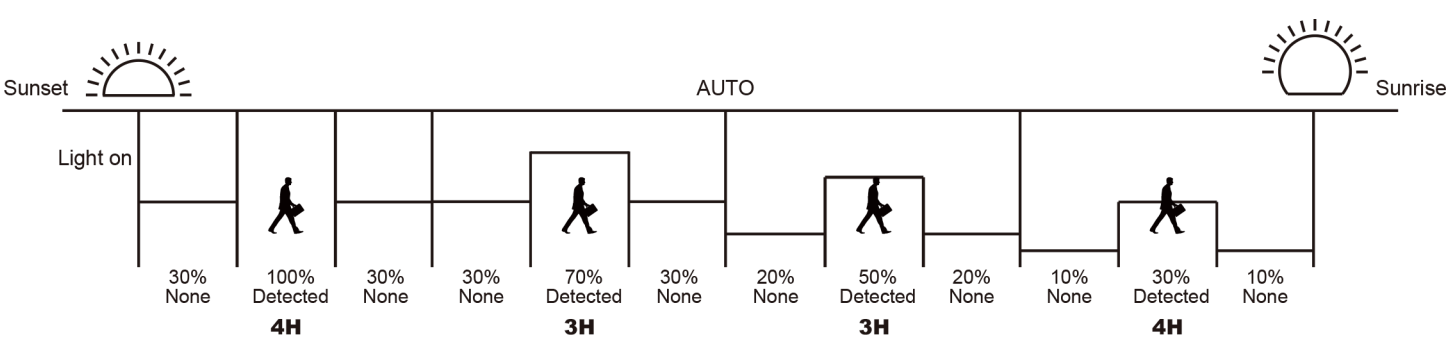
Working Way



Solar panels receive sunlight during the day to generate electricity, which is charged by a controller to a battery; When the solar panel voltage is lower than the set value (rated 5V), the controller will stop charging and drive the LED to emit light.

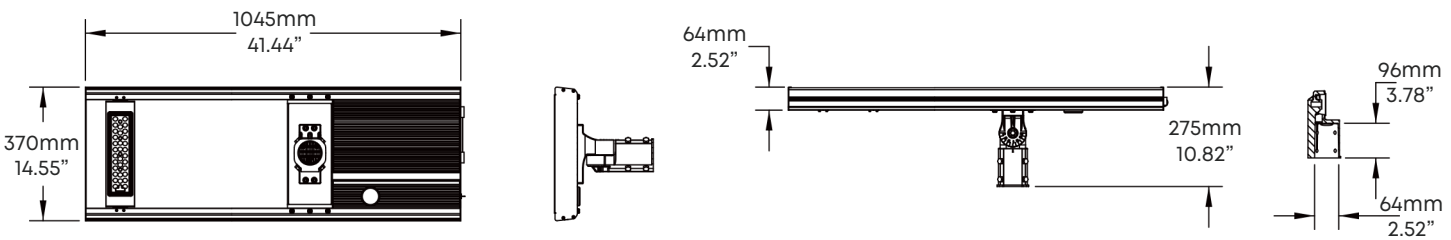
Autonomy Control Reference

4H-Detected 100%, None 30%;
3H-Detected 70%, None 30%;
3H-Detected 50%, None 20%;
4H-Detected 30%, None 10%;

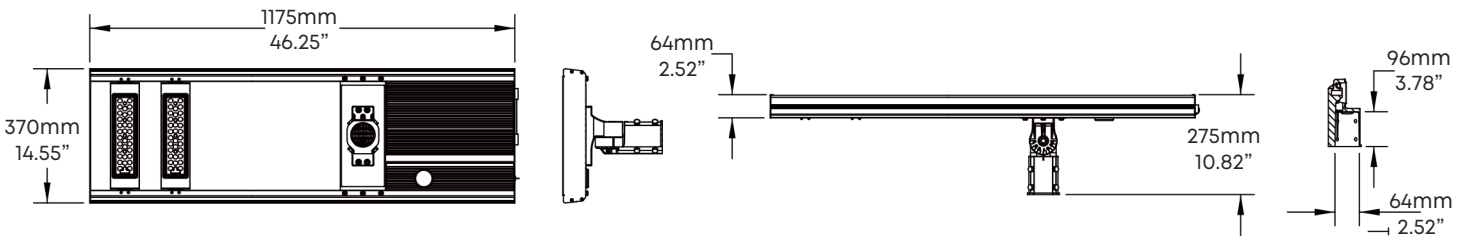


Dimension

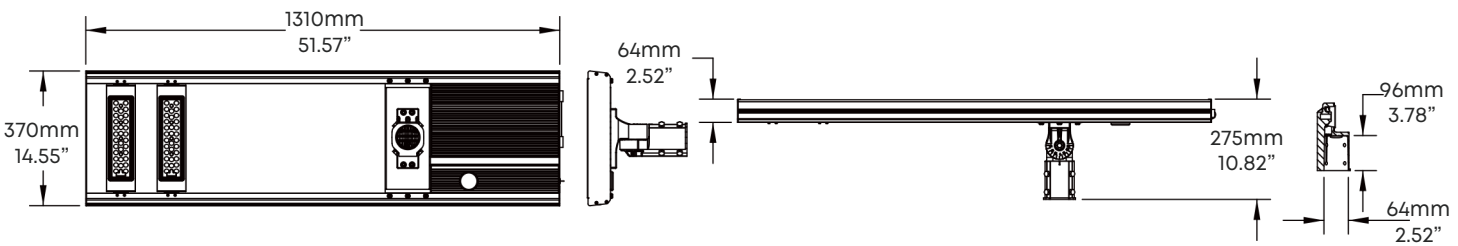
40W



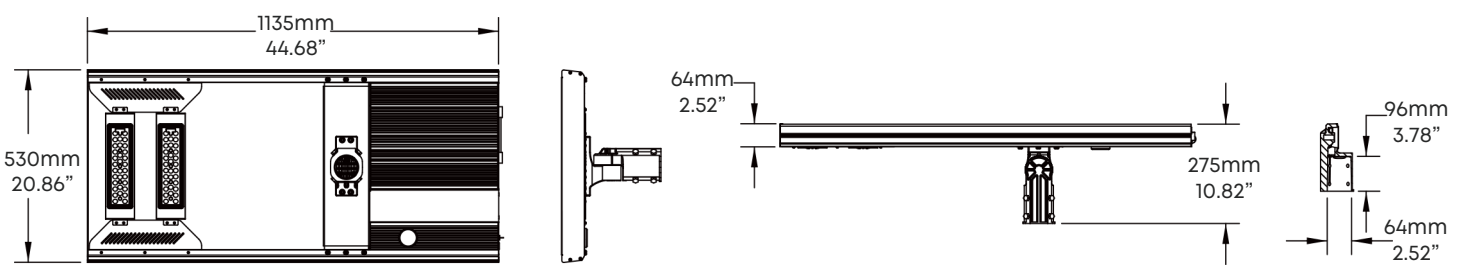
50W



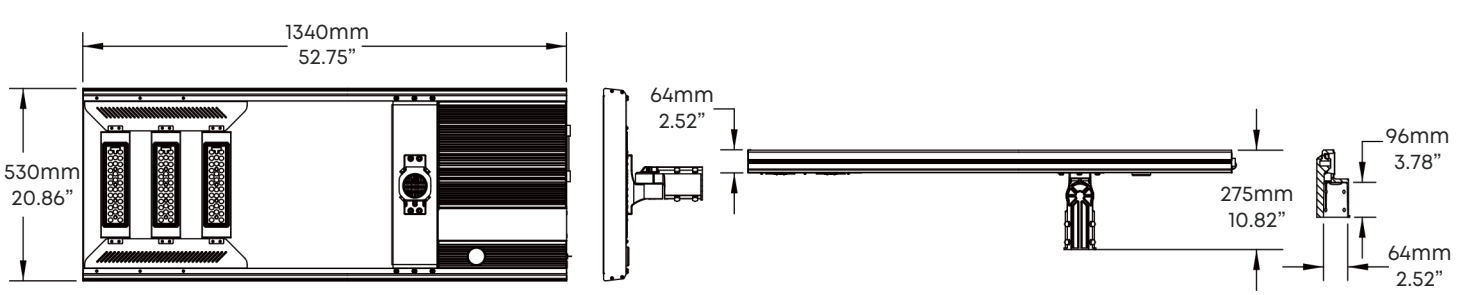
60W



80W



100W



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