

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



HIGH LUMEN
OUTPUT UP TO **220** lm/W

SAJ All in One Solar Street Light

Power: 40W-150W



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

Discover **SAJ** Series



For other certificates please request

**High & Low
Temperature**
Solution Optional
-20°C~60°C (-4°F-140°F)



Camera
Optional

Fixed Bracket (Customizable)
Wall mount/Round pole

Universal Bracket
Adjustable Angle($\pm 90^\circ$)



Adjustable Module($\pm 30^\circ$)
Solution Optional



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 3-5 rainy days under intelligent mode.
- Aluminum fixture housing for durability.
- UV stabilized polyester powder paint finish resists corrosion.
- 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 SAJ All in One Solar Street Light



**Monocrystalline
Silicon Solar Panel**



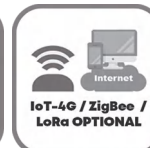
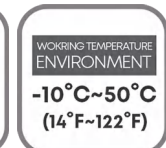
**Long Lifespan
Li-ion Battery & MPPT**



**Tool-less
Maintenance**



**Intelligent Lighting
Control**



Key Components



LiFePO4 Battery

Uses LiFePO4 batteries, enduring over 2000 charge/discharge cycles for safety, compactness, and longer lifespan.



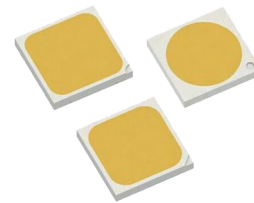
Remote Control

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.



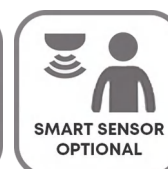
TYF LED Chips

It uses ultra-high brightness TYF 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.



LiFePO₄ Battery

Our lighting fixtures integrate industry-preferred Lithium Iron Phosphate (LiFePO₄) batteries, delivering superior longevity, safety, and performance for solar applications. With a lifespan exceeding 2,000 cycles at 50% Depth of Discharge (DoD), these batteries ensure reliable operation for over 10 years under daily cycling conditions.

Extreme Conditions Ready

-10°C to 50°C (14°F to 122°F)

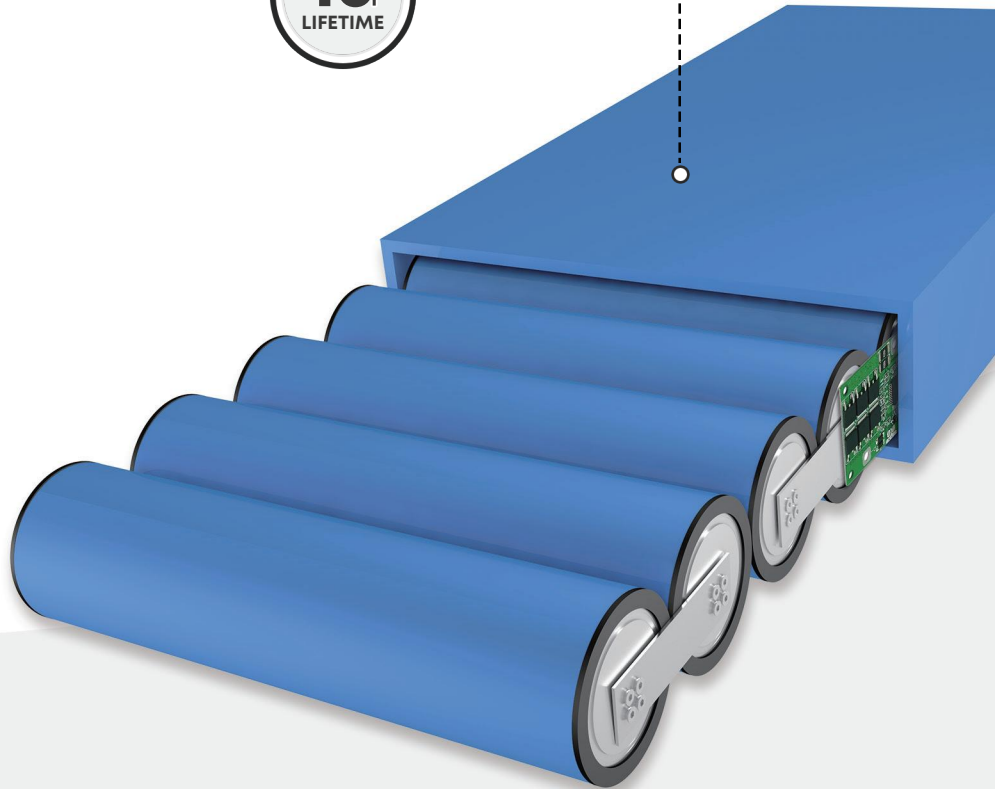
-20°C to 60°C (-4°F to 140°F) optional



LIFESPAN UP TO 5000 cycles

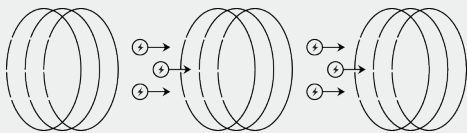
Final interpretation rights regarding operational achievement conditions are vested solely in AOK.

This figure is for reference only
Battery specifications vary slightly between different models. >>



BMS System

Our batteries integrate an advanced Battery Management System (BMS) with multi-layered hardware safeguards.



Over & Under Current - Overload

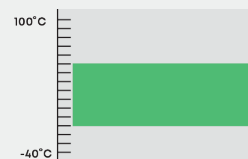
Over & Under Voltage - Over/Under Charge

Temperature Management

LiFePO₄

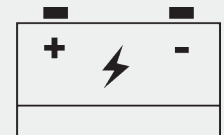


>2000 cycles

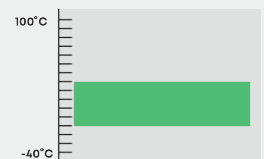


-10°C-50°C

NiMH



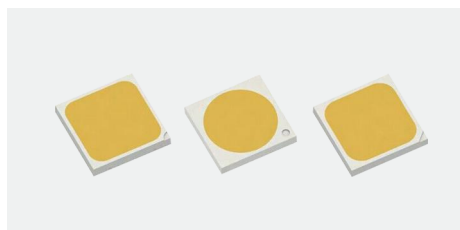
500 cycles



-10°C-30°C

Energy-efficient Lighting Systems

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



High Efficiency



Long Lifespan



Less Calorific Value

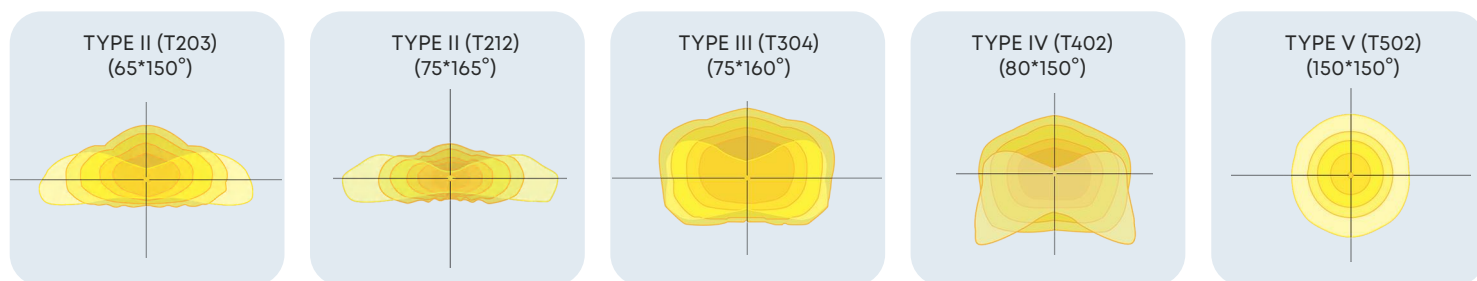


Low Light Decay

- 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

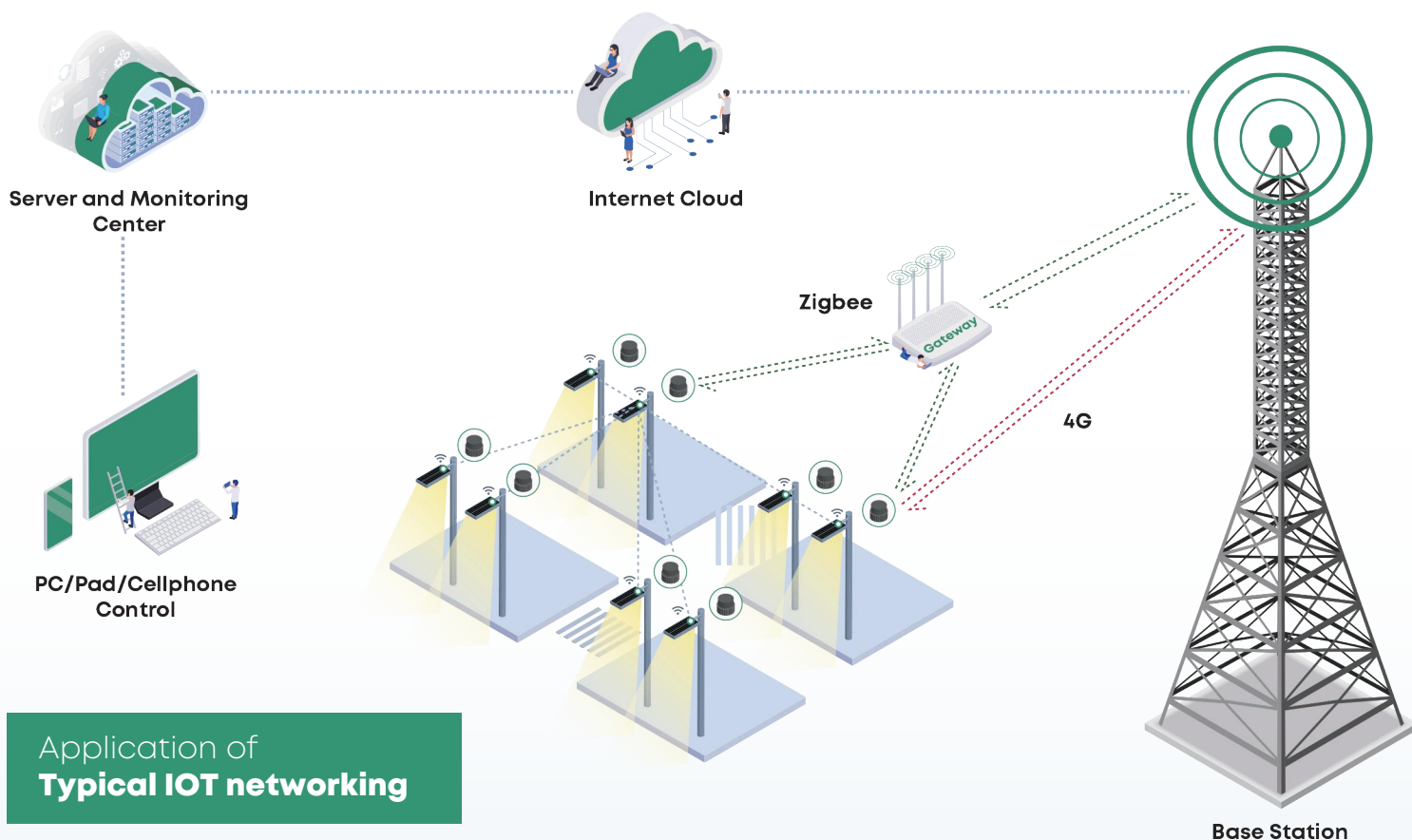
Support remote monitoring and remote control through PC web and mobile APP.



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.

IoT Connected Ready



Application of Typical IOT networking

- ◆ 2.5" Metal Pan-Tilt-Zoom IP Camera
- ◆ Pan Range: 0°~355°, Pan Speed: 30°/s, Tilt Range: 0°~110°, Tilt Speed: 20°/s
- ◆ Nano-tech IR LED: 28μ x 2pcs, IR Range: 30M
- ◆ Support onvif protocol GB/T28281, work with Hikvision, dahua, XM
- ◆ 2592(H)x1944(P)@25fps/30fps, Presets: 128
- ◆ Built-in Surge and Lightning Protection Devices
- ◆ Ingress Protection: IP67
- ◆ Other requirements can be customized

MAINTAIN PUBLIC SAFETY



Camera Optional

Application Reference

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





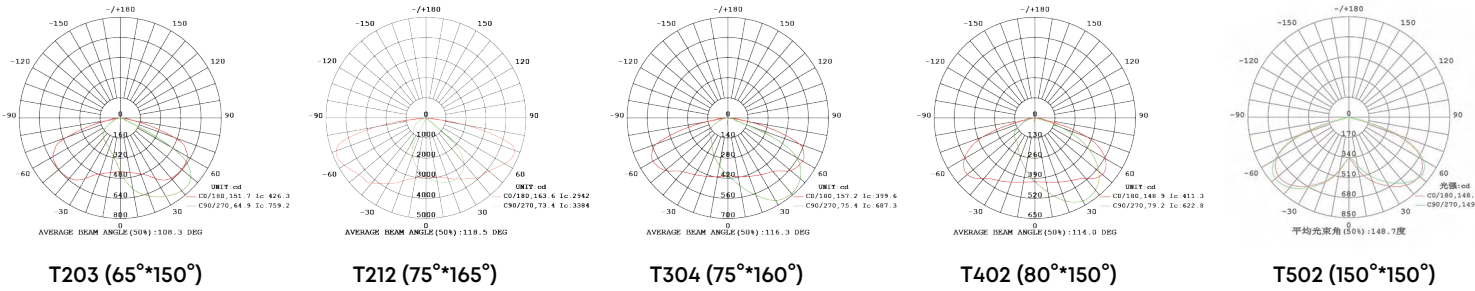
Parameter Table

Specification											
Model	AOK-40WSAJ		AOK-60WSAJ		AOK-80WSAJ		AOK-120WSAJ		AOK-150WSAJ		
Power	40W		60W		80W		120W		150W		
Control Option	Photocell ,Dimming,sensor, Zhaga Zigbee iot/4G iot										
Grid Hybrid Power Solution(optional) Driver	Inventronics/MOSO										
Work Mode	2H-Detected 100%, None 30% ;3H-Detected 70%, None 30% ;3H-Detected 50%, None 20%; 4H-Detected 30%, None 10%										
Photometric Data											
LED Manufacturer	A 5050										
Lens	PC										
Efficacy(lm/w, Std. Dev. ±5%)	200lm/W										
Luminous Flux(lm, Std. Dev. ±5%)	8000lm		12000lm		16000lm		24000lm		30000lm		
Efficacy(lm/w, Std. Dev. ±5%)-Super	220lm/W										
Luminous Flux(lm, Std. Dev. ±5%)-Super	8800lm		13200lm		17600lm		26400lm		33000lm		
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											
SCx (EPA)	Top View: 0.350m² (3.77ft²) Side View: 0.065m² (0.7ft²) Front View: 0.037m² (0.398ft²)		Top View: 0.463m² (4.98ft²) Side View: 0.081m² (0.872ft²) Front View: 0.038m² (0.409ft²)		Top View: 0.605m² (6.51ft²) Side View: 0.101m² (1.09ft²) Front View: 0.039m² (0.42ft²)		Top View: 0.605m² (6.51ft²) Side View: 0.101m² (1.09ft²) Front View: 0.039m² (0.42ft²)		Top View: 0.605m² (6.51ft²) Side View: 0.101m² (1.09ft²) Front View: 0.039m² (0.42ft²)		
IP Rating	IP65										
IK Rating	IK08(Except for solar panels)										
Housing	Die-casting aluminum,SPCC (optional SUS)										
Painting	Gray, Silver,Custom request										
Bracket	Universal bracket(±90°)/Fixed bracket										
Mounting	Universal bracket(Post top/Side entry), Fixed bracket(Wall mount/Round pole), Ø60mm										
Configuration Data											
Solar Panel Type	single side monocrystalline solar panel										
Solar Panel Voltage(W)	65W		90W		120W		120W		120W		
LiFePO4 Battery Capacity(WH)	384Wh		576Wh		768Wh		1152Wh		1152Wh		
Charing Time(@full power)	6.2Hrs		6.7Hrs		6.7Hrs		10.1Hrs		10.1Hrs		
Run Time(@full power)	8.6hrs		8.6hrs		8.6hrs		8.6hrs		6.9hrs		
Battery Lifespan	>2000 times cycle										
Ambient Temperature	-10°C to 50°C (14°F to 122°F) , -20°C to 60°C (-4°F to 140°F) optional										
Storage Temperature	-20°C to 45°C (-4°F to 113°F)										
Control System	MPPT/PWM/Hybrid optional, custom IOT or remote control on request										
Maximum Autonomy	3-5 days		3-5 days		3-5 days		3-5 days		2-3 days		
Others											
Lifespan	L90B10 - 100000 hrs, @Tq 25°C										
Warranty	3 years as standard (Warranty extension to 5 years on request)										
Certification	CE/FCC/RoHs,For other certificates please request										
Product Size	886*396*87mm (34.88*15.59*3.43")		1171*396*91mm (46.1*15.59*3.58")		1530*396*96mm (60.24*15.59*3.78")		1530*396*96mm (60.24*15.59*3.78")		1530*396*96mm (60.24*15.59*3.78")		
Net Weight	13kg (28.66 lbs)		16kg (35.27 lbs)		20kg (44.09 lbs)		22kg (48.5 lbs)		22kg (48.5 lbs)		
Carton Size	915*425*115mm (36.02*16.73*4.53")		1200*425*120mm (47.24*16.73*4.72")		1560*425*125mm (61.42*16.73*4.92")		1560*425*125mm (61.42*16.73*4.92")		1560*425*125mm (61.42*16.73*4.92")		
Gross Weight	14.5kg (31.97 lbs)		18kg (39.68 lbs)		23kg (50.71 lbs)		25kg (55.12 lbs)		25kg (55.12 lbs)		
Recommend Installation Height	5-7m		6-7m		6-8m		6-8m		6-8m		
Accessories(standard)	Microwave Sensor, Level Bubble, Charging Port, Switch, Breather Vent, Safety Rope										
Accessories(optional)	PIR Sensor, Iot-4G control, Hybrid Grid Power , Bird Spike										
Application Field	Road & street, residential area, garden, parks, parking lot, industrial and commercial parks, railway & station side, riverside & jogging track										
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.										

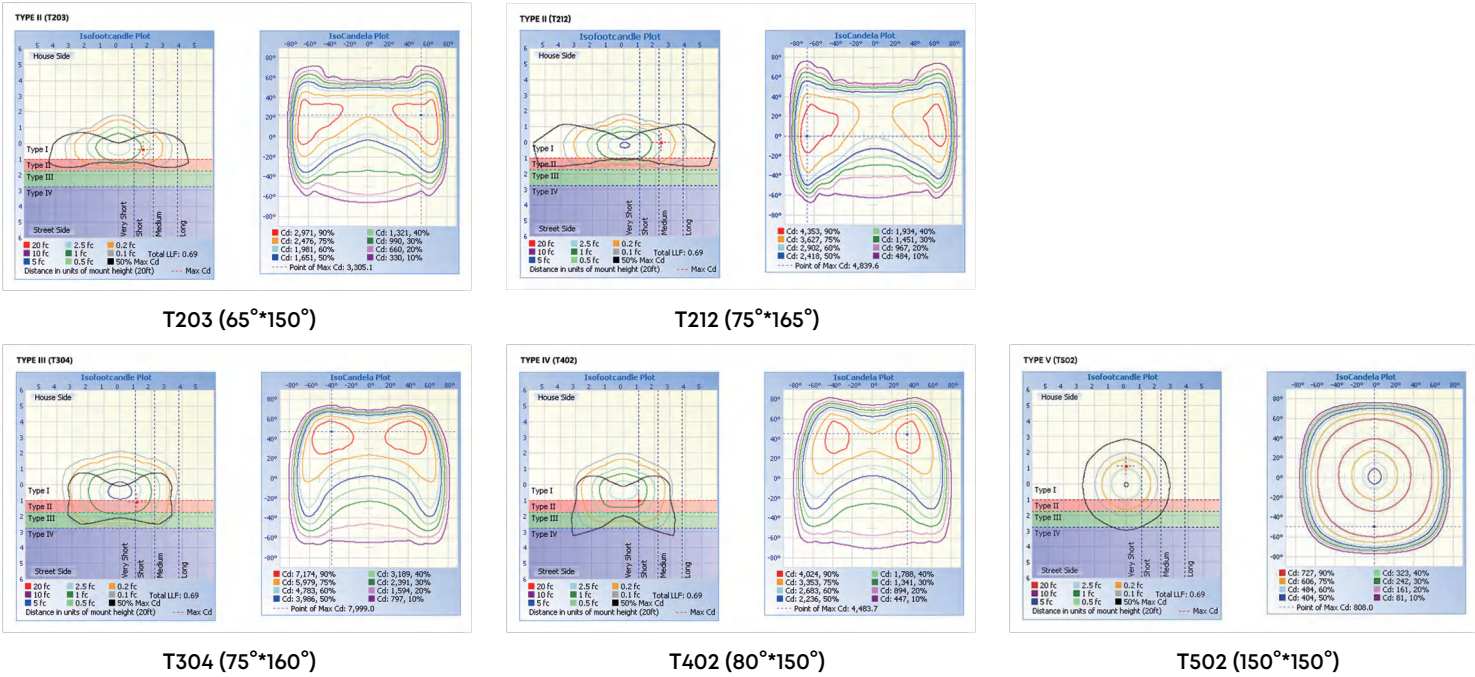
Ordering Information

AOK							
MODEL	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	BRACKET	HOUSING
40WSAJ	DC=Solar	A5=5050	00=Without Sensor	3070=3000K 70CRI	T203 (65°150°)	A=Universal	GR=Gray
60WSAJ	HB=Hybrid		PIR=PIR Sensor	4070=4000K 70CRI	T212 (75°165°)	B=Fixed	SI=Silver
80WSAJ			MS=Microwave Sensor	5070=5000K 70CRI	T304 (75°160°)		Custom request
120WSAJ				5770=5700K 70CRI	T402 (80°150°)		
150WSAJ				6570=6500K 70CRI	T502 (150°150°)		

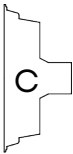
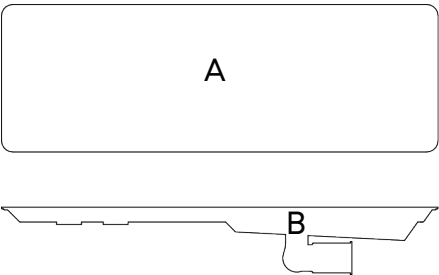
Photometry



Illuminance Diagram



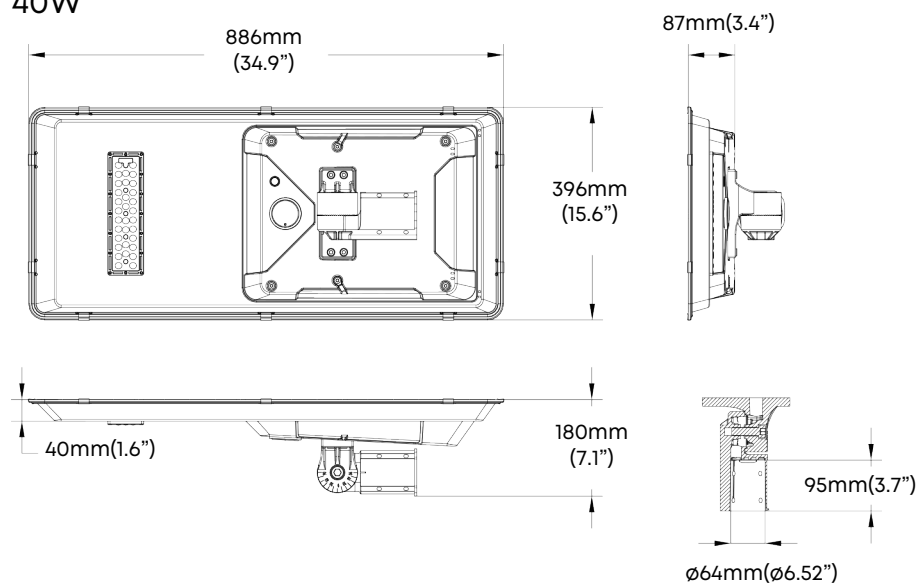
SCx (EPA)



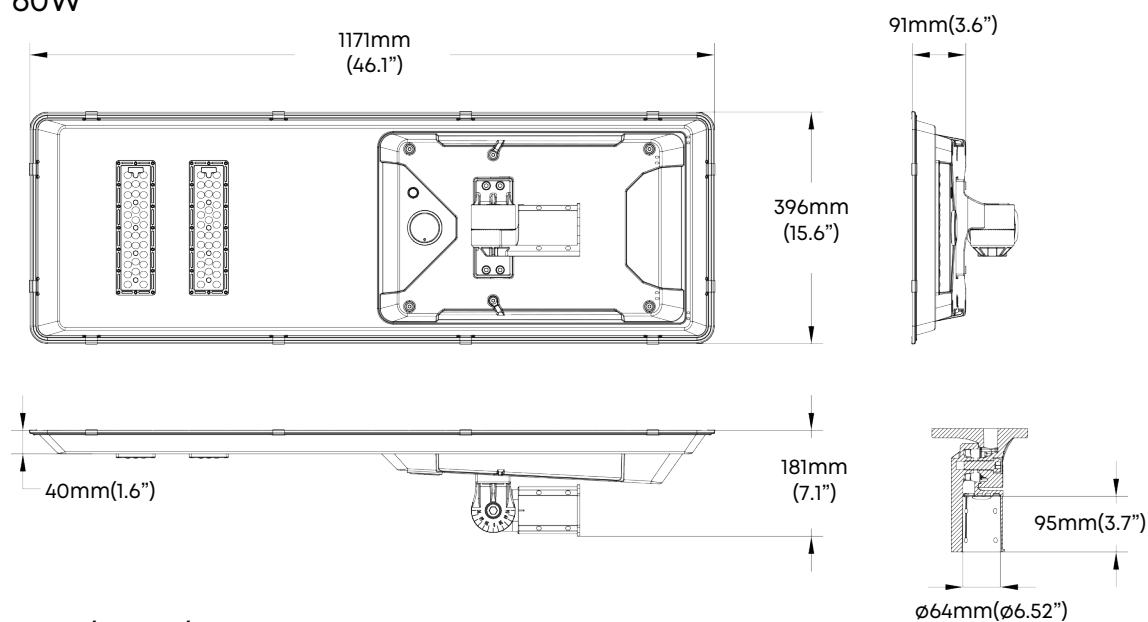
Power	40W	60W	80W	120W	150W
A (Top View)	0.350m² (3.77ft²)	0.463m² (4.98ft²)	0.605m² (6.51ft²)	0.605m² (6.51ft²)	0.605m² (6.51ft²)
B (Side View)	0.065m² (0.7ft²)	0.081m² (0.872ft²)	0.101m² (1.09ft²)	0.101m² (1.09ft²)	0.101m² (1.09ft²)
C (Front View)	0.037m² (0.506ft²)	0.038m² (0.409ft²)	0.039m² (0.42ft²)	0.039m² (0.42ft²)	0.039m² (0.42ft²)

Dimension

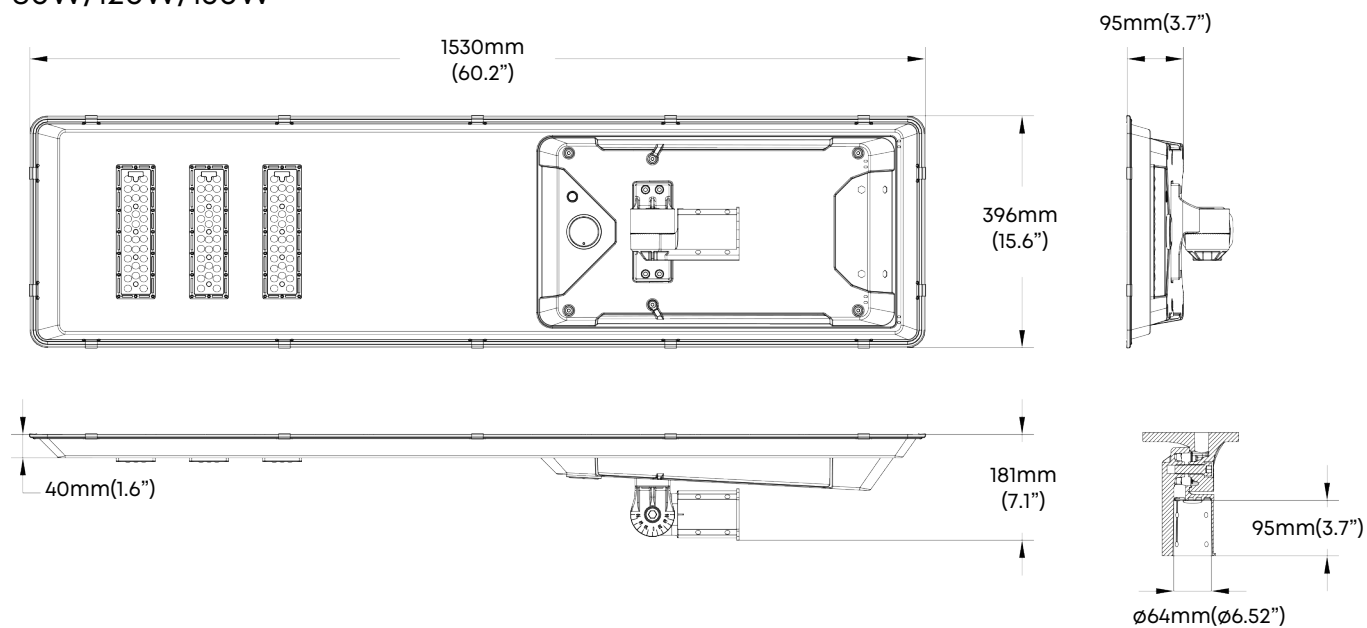
40W



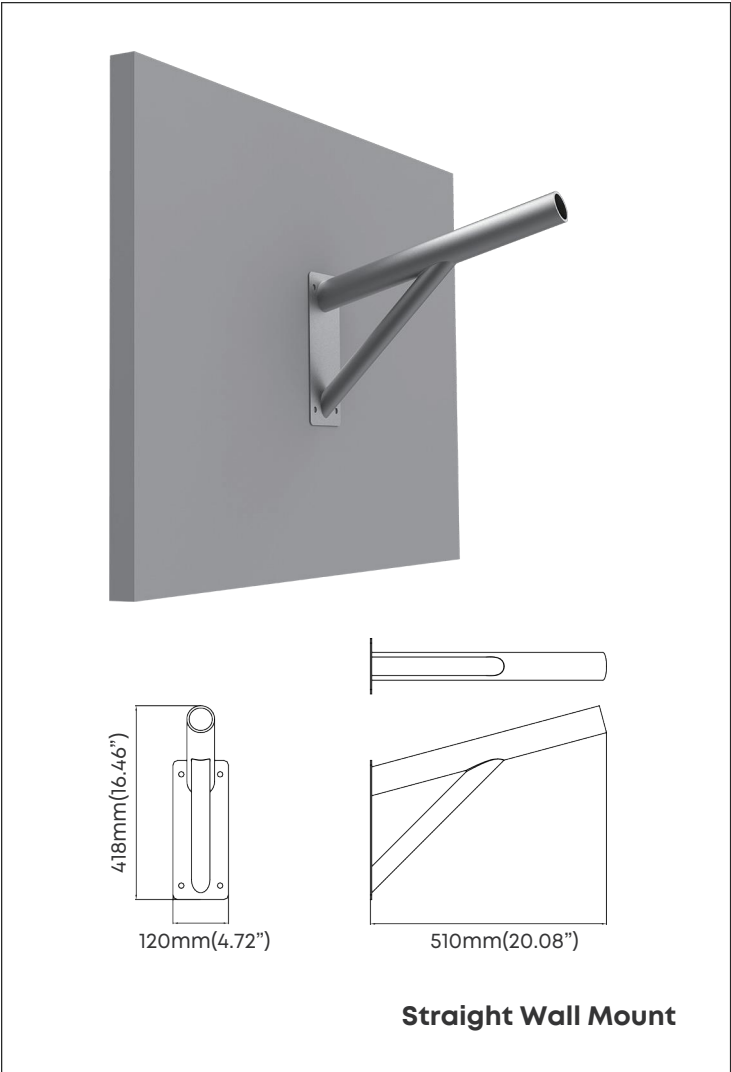
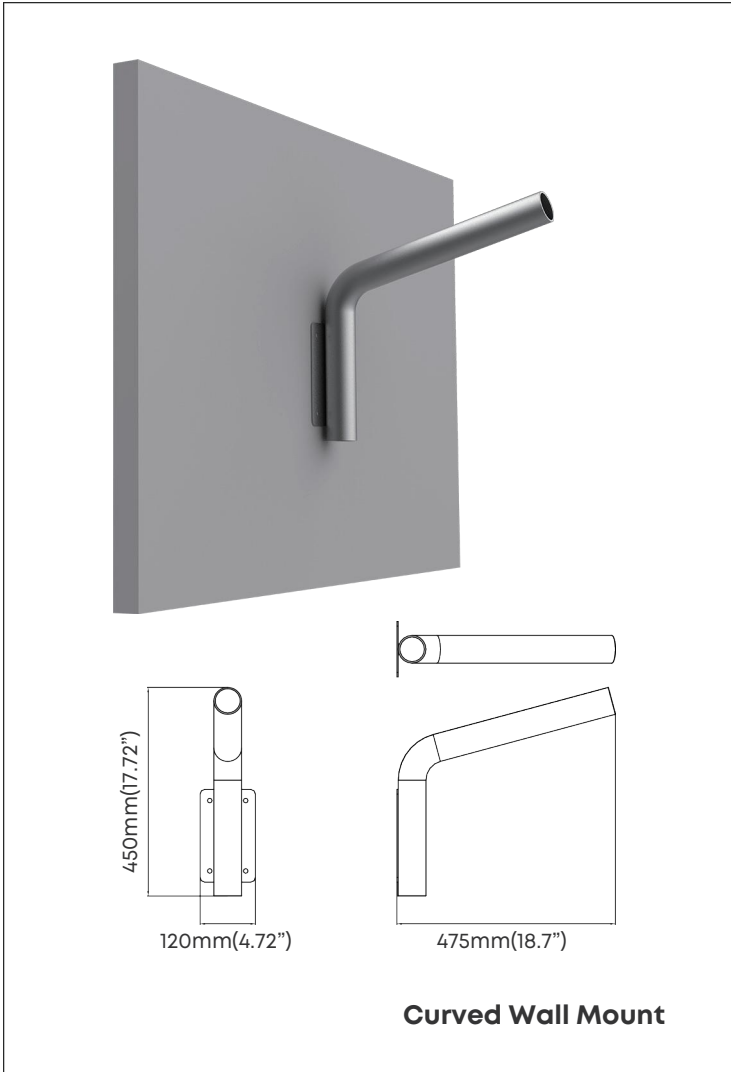
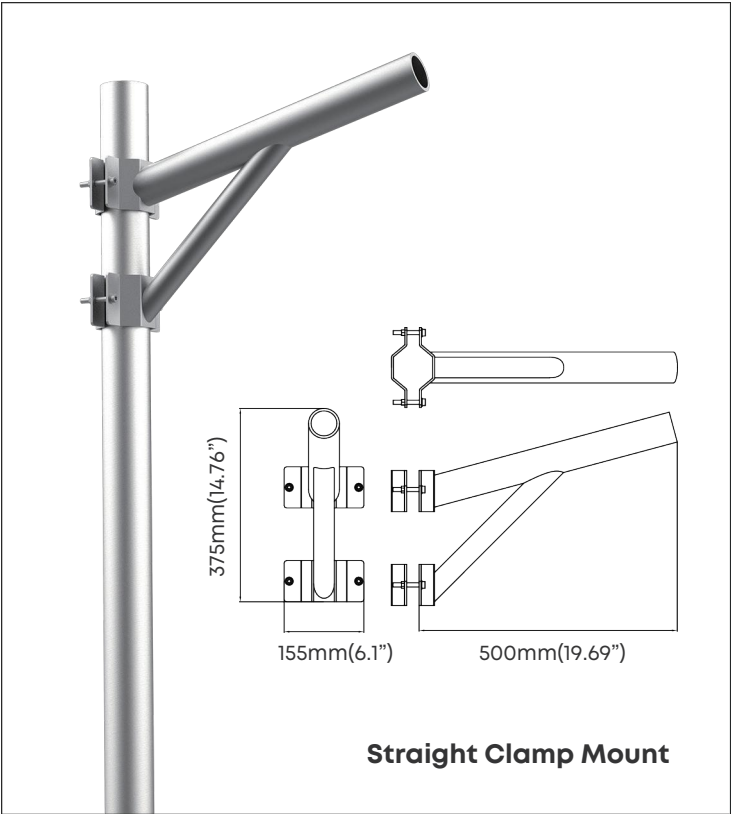
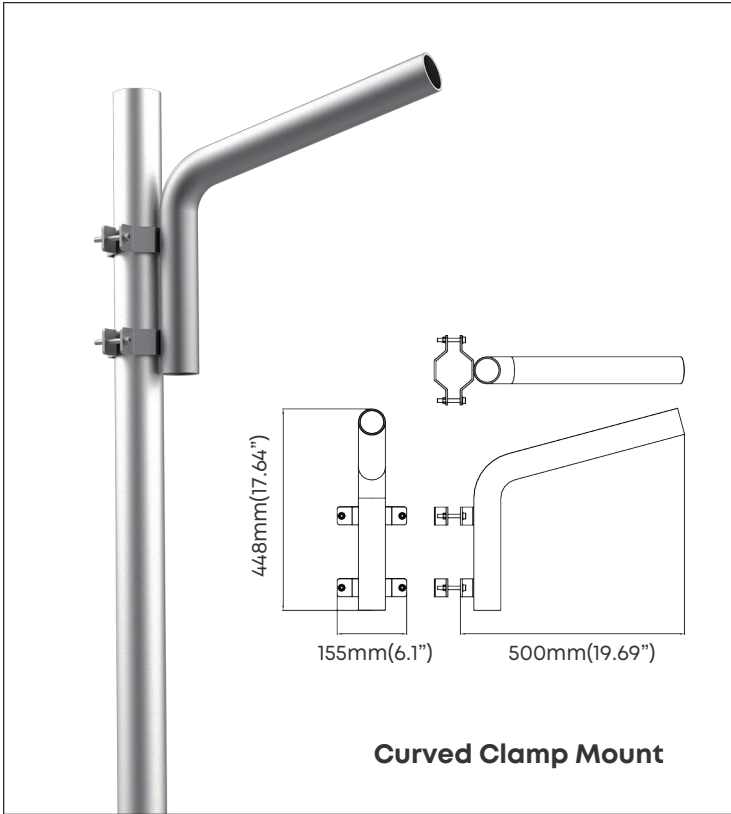
60W



80W/120W/150W



Optional Bracket Accessories





Innovative & Tailored Lighting Solutions for **Success**



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