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

AOK®
Quality, Honesty, Service and Innovation

SAB All in One Solar Street Light

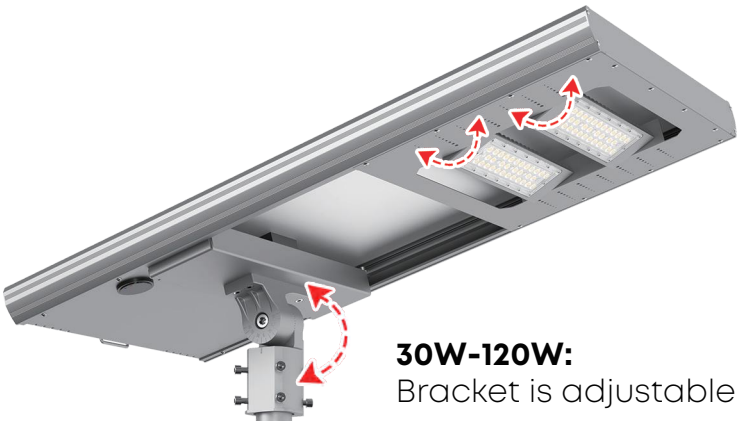
Power: 30W - 300W

Annual Replaced 150,000+ units Street Lighting

PROFESSIONAL TRUST WORTHINESS

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

Discover **SAB** Series



30W-120W:
Bracket is adjustable

5 10 15 20 25 30 35 40 45

Adjustable LED Module (±45°)
Built in scale for precise adjustment

150W-300W:
Bracket is unadjustable

Easy To Maintain
Battery Box pull-out for easy maintenance and high safety

3 ★★★★★ 5 ★★★★★

WARRANTY

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

- Charging time: 6.7 hours to 8.1 hours (standard).
- External power switch, optional external charging interface (requires additional configuration).
- Built-in/external grid complementary power supply.
- Lighting options: T203, T212 (T2M), T304, T402, T502;
- The controller uses IP67 waterproof connectors for easy assembly and disassembly. IP65 waterproof switch ensures minimal energy consumption during transportation.

Advantages of
SAB All in One Solar Street Light

Adjustable & Reinforced Bracket

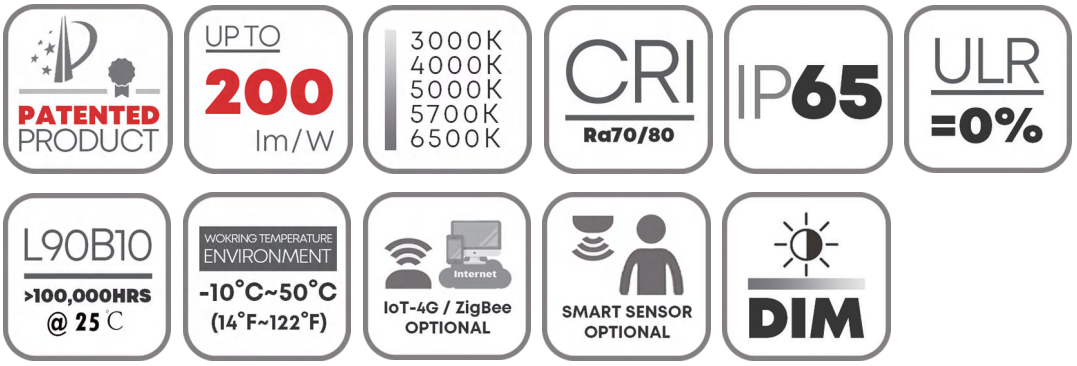
Monocrystalline Silicon Solar Panel

Long Lifespan Li-ion Battery & MPPT

Aviation Aluminum Profile Frame

Strong Corrosion Resistance

Intelligent Lighting Control



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AOK® Quality, Honesty, Service and Innovation

Key Components

LiFePO4 Battery

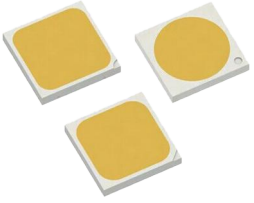
Uses LiFePO4 batteries, enduring over 2000 charge/discharge cycles for safety, compactness, and longer lifespan.

Romote 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

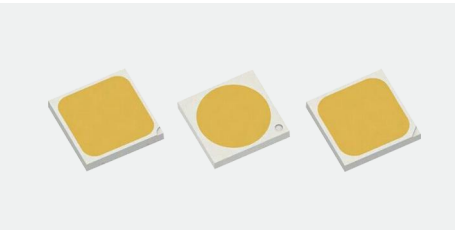
It uses ultra-high brightness TYF LED chips to provide the best lighting performance with minimal power consumption.

Optics Lens

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

Energy-efficient
Lighting Systems

Single lumen efficiency **>200lm/W** achieve higher illumination



High Efficiency

Long Lifespan

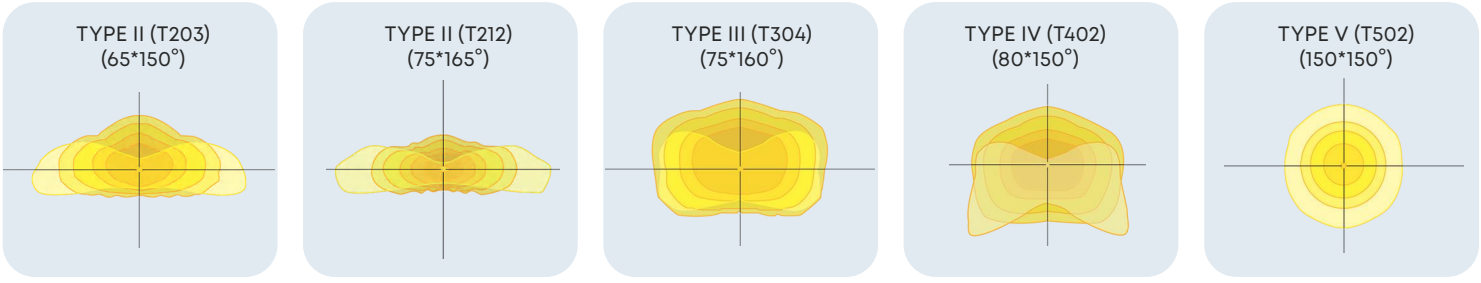
Less Calorific Value

Low Light Decay

· Aerospace aluminum profile frame, strong corrosion resistance, lightweight;
· Akzo powder neutral salt spray corrosion for 1000 hours;
· Featuring the 5050 LED chip, it serves as a top-tier light source up to 200lm/W;
· The well-optimized light distribution ensures a more uniform 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.

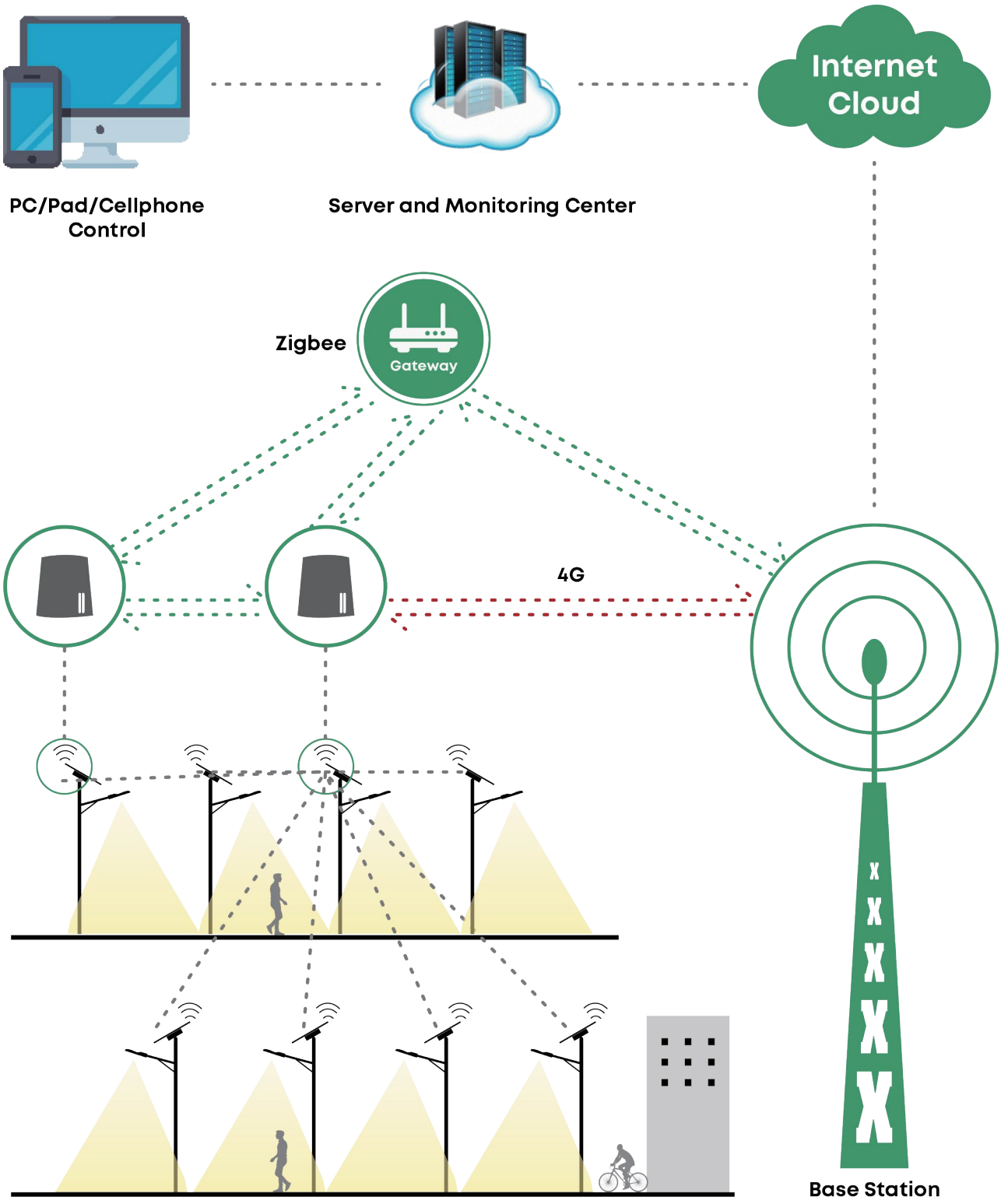
Intelligent monitoring

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 ligthing
- 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-30WSAB**	**AOK-40WSAB**	**AOK-50WSAB**	**AOK-60WSAB**	**AOK-80WSAB**
Power		30W	40W	50W	60W	80W
Control Option		Photocell sensor, Timing, dimming, intelligent power saving, microwave sensor or PIR sensor.				
Grid Hybrid power Solution(optional) Driver		Inventronics/Meanwell				
Work Mode		4H-Detected 100%, None 30% ;3H-Detected 70%, None 30% ;3H-Detected 50%, None 20%; 4H-Detected 30%, None 10%				
Photometric Data						
LED Model		5050, custom on request				
Lens		Polycarbonate				
Efficacy (lm/W, Std. Dev. ±5%)@CCT=5700K, CRI>70Ra	5050	200lm/W	200lm/W	200lm/W	200lm/W	200lm/W
Luminous Flux (lm, Std. Dev. ±5%)@CCT=5700K, CRI>70Ra	5050	6000lm	8000lm	10000lm	12000lm	16000lm
ULOR		= 0%, @ Luminaire inclination 0°				
CCT		3000K~6500K				
CRI		70Ra/80Ra optional				
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		Alluminum+SPCC				
Surface Treatment		Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).				
Painting		Grey, custom color on request, C5-grade painting.				
Mounting		Post Top				
Configuration Data						
Photovoltaic Panel		Single side monocrystalline solar panel				
Solar Panel Voltage(W)		18V 40W	18V 60W	18V 70W	18V 80W	18V 100W
Battery Voltage(AH)		12.8V 15AH	12.8V 30AH	12.8V 30AH	12.8V 45AH	12.8V 45AH
Li-ion Battery(WH)		192WH	384WH	384WH	576WH	576WH
Charging Time		5.1Hrs	6.7Hrs	5.8Hrs	7.6Hrs	6.1Hrs
Run Time (@full power)		6.1Hrs	9.1Hrs	7.3Hrs	9.1Hrs	6.8Hrs
Battery Lifespan		>2000 times cycle				
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		MPPT/PWM optional, custom IOT or remote control on request				
Maximum Autonomy		Operate 2~3 rainy days under intelligent model.				
Others						
Lifespan		L90B10 - 100000 hrs, @Tq 25°C				
Warranty		3 years as standard (Warranty extension to 5 years on request)				
Certification		Please consult for certification				
Product Size		625*378*62 mm 24.6*14.9*2.4 in	885*378*62 mm 34.8*14.9*2.4 in	1055*378*62 mm 41.5*14.9*2.4 in	1170*378*62 mm 46.1*14.9*2.4 in	1061*543*62 mm 41.8*21.4*2.4 in
Carton Size		855*435*140 mm 33.7*17.1*5.5 in	1112*435*140 mm 43.8*17.1*5.5 in	1290*435*140 mm 50.8*17.1*5.5 in	1395*435*140 mm 54.9*17.1*5.5 in	1305*620*140 mm 51.4*24.4*5.5 in
Net Weight		11.1 kg / 24.5 lbs	14.4 kg / 31.7 lbs	15.4 kg / 34 lbs	17.8 kg / 39.2 lbs	20.2 kg / 44.5 lbs
Gross Weight		12 kg / 26.5 lbs	15.3 kg / 33.7 lbs	16.6 kg / 36.6 lbs	19 kg / 41.9 lbs	21.9 kg / 48.3 lbs
Recommend Installation Height		4-7m	5-7m	5-7m	6-8m	7-9m
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 charge 30% for the battery, then discharge it for 2 to 3 hours. This should be done every 3 months to prevent battery damage and extend the battery lifespan.				
Important Note!		**The provided information is solely for reference; the o icial measurement report holds higher authority.**				

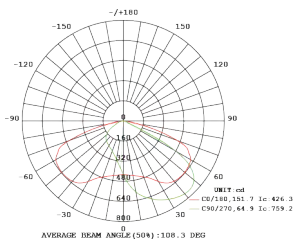
Parameter Table

Electrical Data						
Model		**AOK-100WSAB**	**AOK-120WSAB**	**AOK-150WSAB**	**AOK-200WSAB**	**AOK-300WSAB**
Power		100W	120W	150W	200W	300W
Control Option		Photocell sensor, Timing, dimming, intelligent power saving, microwave sensor or PIR sensor.				
Grid Hybrid power Solution(optional) Driver		Inventronics/Meanwell				
Work Mode		4H-Detected 100%, None 30% ;3H-Detected 70%, None 30% ;3H-Detected 50%, None 20%; 4H-Detected 30%, None 10%				
Photometric Data						
LED Model		5050, custom on request				
Lens		Polycarbonate				
Efficacy (lm/W, Std. Dev. ±5%)@CCT=5700K, CRI>70Ra	5050	200lm/W	200lm/W	200lm/W	200lm/W	200lm/W
Luminous Flux (lm, Std. Dev. ±5%)@CCT=5700K, CRI>70Ra	5050	20000lm	24000lm	30000lm	40000lm	60000lm
ULOR		= 0%, @ Luminaire inclination 0°				
CCT		3000K~6500K				
CRI		70Ra/80Ra optional				
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		Alluminum+SPCC				
Surface Treatment		Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).				
Painting		Grey, custom color on request, C5-grade painting.				
Mounting		Post Top				
Configuration Data						
Photovoltaic Panel		Single side monocrystalline solar panel				
Solar Panel Voltage(W)		36V 120W	36V 150W	36V 200W	36V 240W	36V 360W
Battery Voltage(AH)		25.6V 30AH	25.6V 45AH	25.6V 45AH	25.6V 60AH	25.6V 90AH
Li-ion Battery(WH)		768WH	1152WH	1152WH	1536WH	2304WH
Charging Time		6.7Hrs	8.1Hrs	6.1Hrs	6.7Hrs	6.7Hrs
Run Time (@full power)		7.3Hrs	9.1Hrs	7.3Hrs	7.3Hrs	7.3Hrs
Battery Lifespan		>2000 times cycle				
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		MPPT/PWM optional, custom IOT or remote control on request				
Maximum Autonomy		Operate 2~3 rainy days under intelligent model.				
Others						
Lifespan		L90B10 - 100000 hrs, @Tq 25°C				
Warranty		3 years as standard (Warranty extension to 5 years on request)				
Certification		Please consult for certification				
Product Size		1146*543*62 mm 45.1*21.4*2.4 in	1392*543*62 mm 54.8*21.4*2.4 in	1456*778*62 mm 57.3*30.6*2.4 in	1616*778*62 mm 63.6*30.6*2.4 in	1846*968*62 mm 72.7*38.1*2.4 in
Carton Size		1390*620*140 mm 54.7*24.4*5.5 in	1635*615*140 mm 64.4*24.2*5.5 in	1702*855*195 mm 67*33.7*7.7 in	1862*855*195 mm 73.3*33.7*7.7 in	2115*1045*195 mm 83.3*41.1*7.7 in
Net Weight		22.7 kg / 50 lbs	27.3 kg / 60.2 lbs	36.9 kg / 81.4 lbs	41.7 kg / 91.9 lbs	62.9 kg / 138.7 lbs
Gross Weight		24.4 kg / 53.8 lbs	29.2 kg / 64.4 lbs	40.3 kg / 88.8 lbs	45.4 kg / 100.1 lbs	67.4 kg / 148.6 lbs
Recommend Installation Height		8-10m	8-12m	10-12m	10-12m	10-12m
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 charge 30% for the battery, then discharge it for 2 to 3 hours. This should be done every 3 months to prevent battery damage and extend the battery lifespan.				
Important Note!		**The provided information is solely for reference; the official measurement report holds higher authority.**				

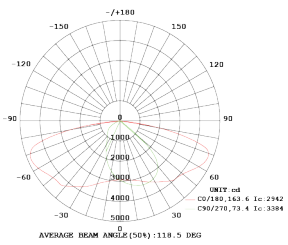
Ordering Information

AOK	-		-		-		-		-		-	
MODEL		**LED CHIPS**		**TYPE OF SENSOR**		**CCT&CRI**		**DISTRIBUTION**		**MOUNT**		**HOUSING**
30WSAB		A5=5050		00=Without Sensor		3070=3000K 70CRI		T203	(65*150°)	A=Post Top		GR=Gray
40WSAB				PIR=PIR Sensor		4070=4000K 70CRI		T212	(75*165°)			BK=Black
50WSAB				MS=Microwave Sensor		5070=5000K 70CRI		T304	(75*160°)			SI=Silver
60WSAB						5770=5700K 70CRI		T402	(80*150°)			Custom request
80WSAB						6570=6500K 70CRI		T502	(150*150°)			
100WSAB						3080=3000K 80CRI						
120WSAB						4080=4000K 80CRI						
150WSAB						5080=5000K 80CRI						
200WSAB						5780=5700K 80CRI						
300WSAB												

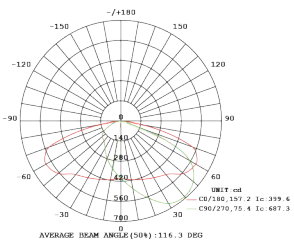
Photometry



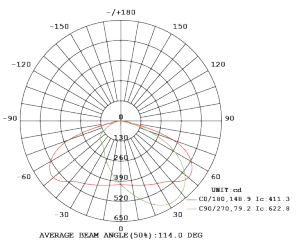
T203 (65°*150°)



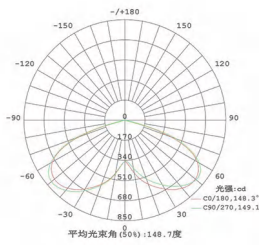
T212 (75°*165°)



T304 (75°*160°)

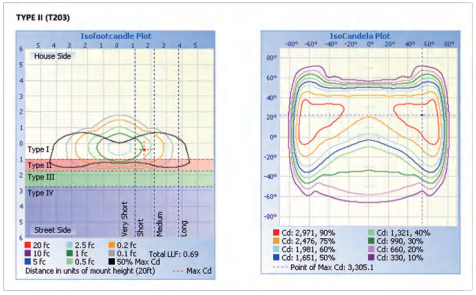


T402 (80°*150°)

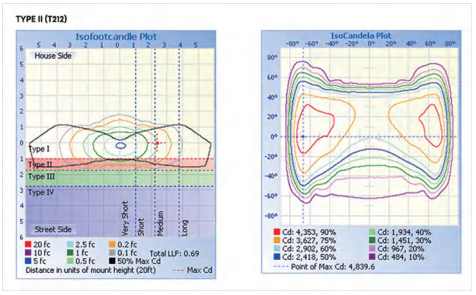


T502 (150°*150°)

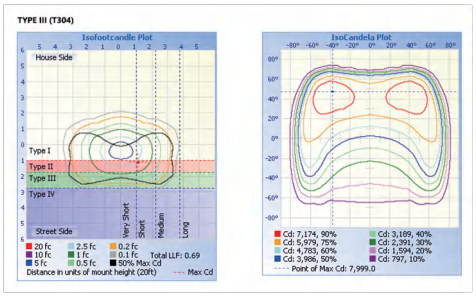
Illuminance Diagram



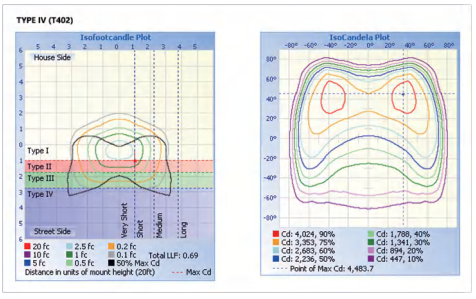
T203 (65°*150°)



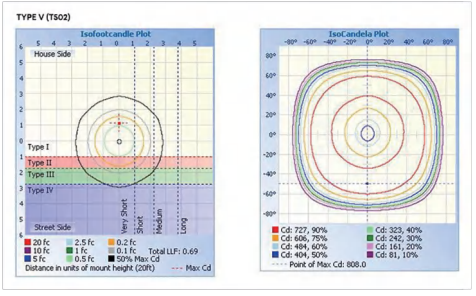
T212 (75°*165°)



T304 (75°*160°)



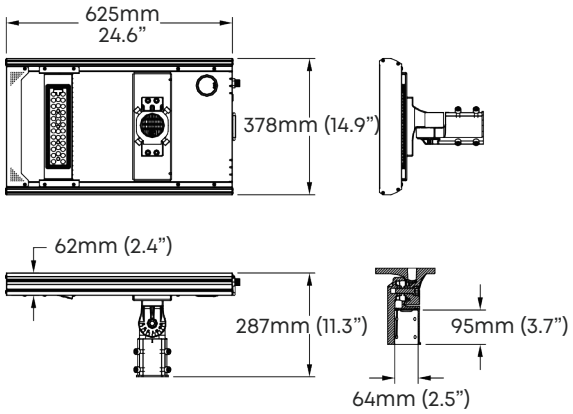
T402 (80°*150°)



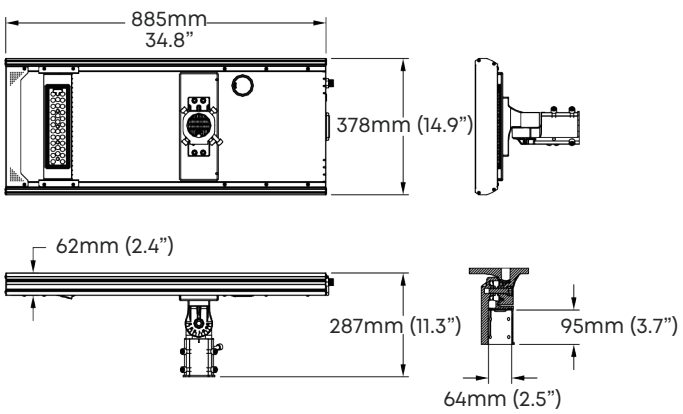
T502 (150°*150°)

Dimensions

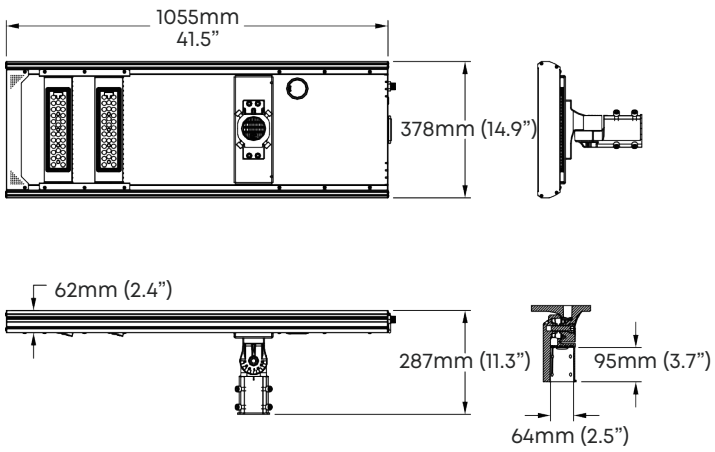
30W



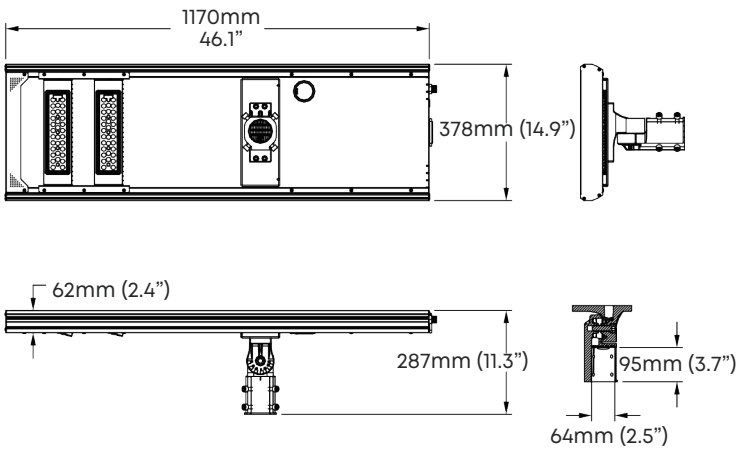
40W



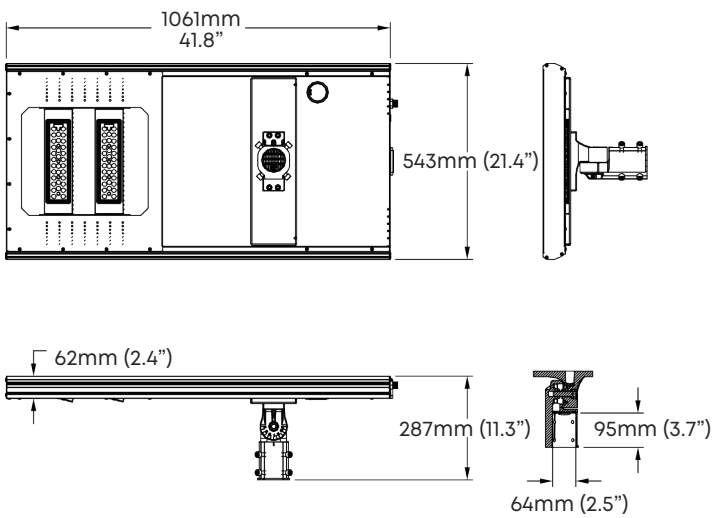
50W



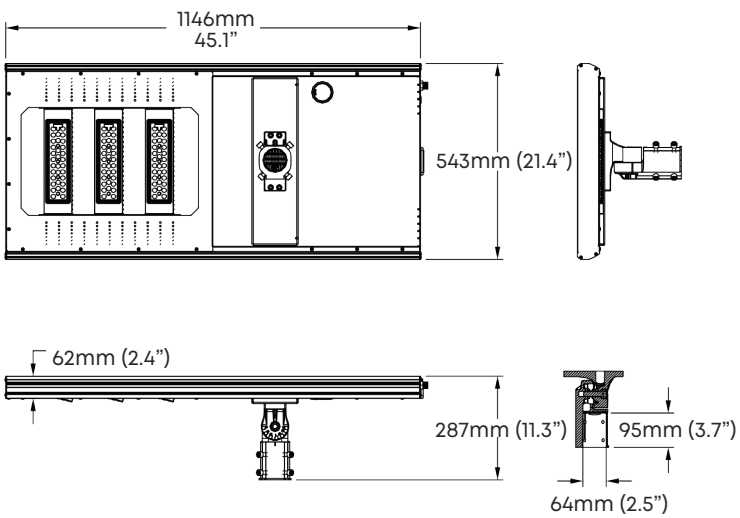
60W



80W

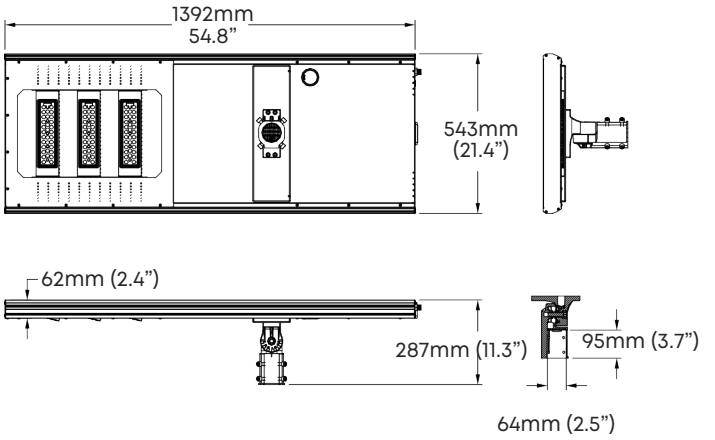


100W

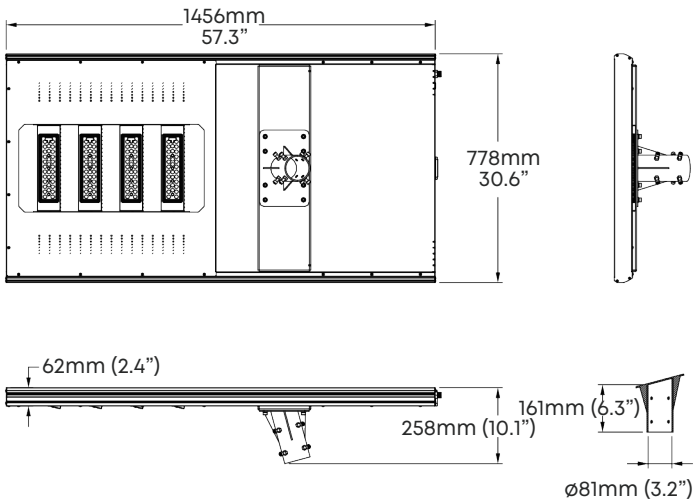


Dimensions

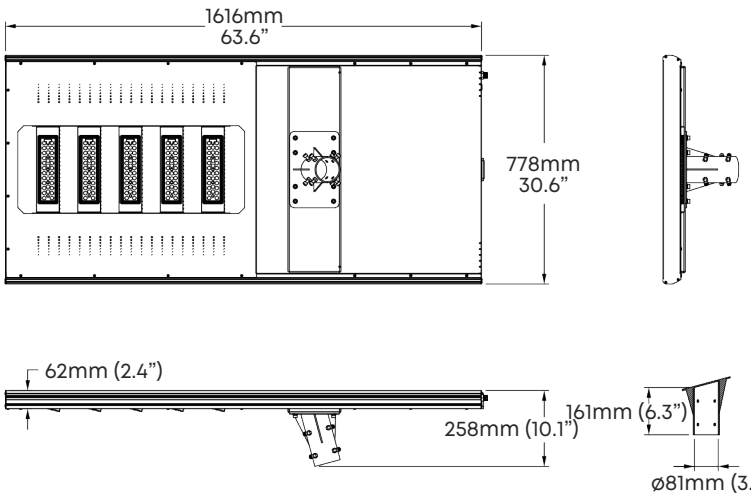
120W



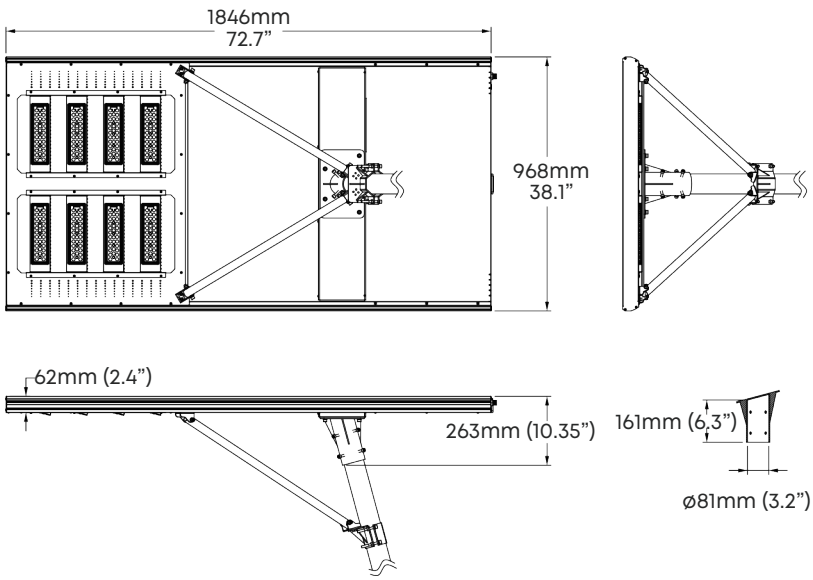
150W



200W



300W



Quality, Honesty, Service and Innovation

Innovative & Tailored Lighting Solutions for **Success**

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

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