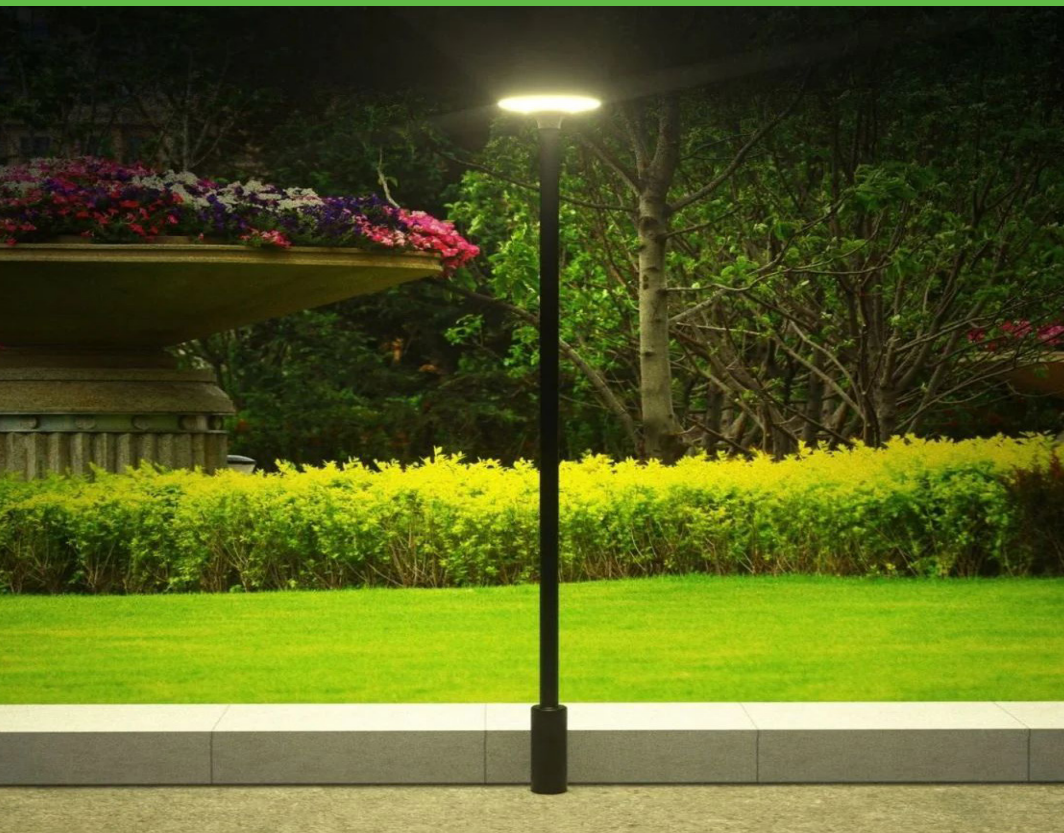




LED®

Solara

americanlite®

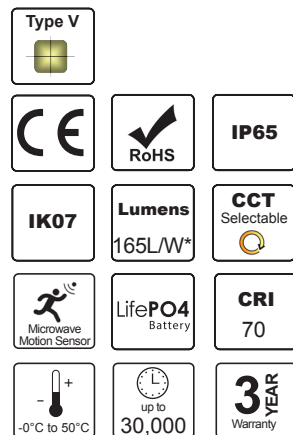
We light your world™





Solara™ Series

CCT Selectable
23w/40w/50w



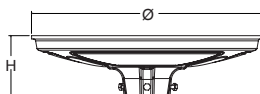
The sun rises daily providing a consistent and renewable energy source. Solar street lighting systems are applicable for recreational parks, rural and residential streets, and secondary roads, offering enhanced visibility and safety while improving the aesthetic of public spaces. Unlit pathways and roads pose potential hazards for pedestrians and vehicles.

Exterior lighting plays a critical role in public safety by reducing risk and acting as a deterrent to criminal activity. Solar-powered LED lighting ensures illumination independent of grid failures, offering resilience against blackouts and brownouts. These systems are designed for autonomous operation in diverse environments, eliminating the need for trenching and additional utility infrastructure.

The Solara™ Series "All in One" Solar Post Top is engineered for budget-sensitive installations across a variety of low-traffic or decorative lighting applications. The unit activates automatically when ambient light levels fall below ≤ 50 lux, delivering 100% light output. After 18 seconds of no motion detection, the output reduces to 10% to conserve energy. A full operating cycle ranges from 10 to 12 hours, with a typical recharge time of 6–8 hours. The system includes energy storage sufficient to function up to 2 days without full solar input. Recommended installation height: 3–4 meters. Effective coverage area: up to 15m².

The Solara™ Series requires minimal routine maintenance and offers straightforward installation compared to conventional grid-powered systems. Unlike traditional lighting, which often involves underground cabling, on-site transformers, and electrical enclosures, the Solara Series simplifies deployment with no trenching or external wiring required. Built on efficient LED technology, it reduces replacement frequency, supports intelligent control features, and delivers long-term energy savings.

Dimensions (mm)



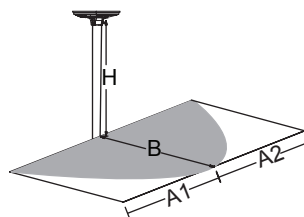
Model	D	H	Arm Ø
23w	420	123	60
40w	520	137	60
50w	520	137	60

Suitable for pole 58-60mm

Specifications

Nominal Power	230w	400w	500w
Working Power	14w	24w	30w
Fixture (lumens)	2300	4000	5000
Solar Panel	15w	24w	24w
Battery	3.2V 12AH	3.2V 20AH	3.2V 20AH
Voltage	3.2v	3.2v	3.2v
Charging time	6-8 Hrs	6-8 Hrs	6-8 Hrs
Cloudy days	1-2	1-2	1-2
Working hours	10-12 Hrs	10-12 Hrs	10-12 Hrs

Sensor Range



H(m)	A1(m)	A2(m)	B(m)
3	5	5	4
4	4	4	3.5

Ordering information

Item	Watts	Lumens	CCT Selectable
AL577130	23w	2300	3K/4K/65K
AL577131	40w	4000	3K/4K/65K
AL577132	50w	5000	3K/4K/65K

Components Lifetime

Solar Panel	3 years
Battery	2000 cycles / 3 Years
LED Chip	60,000 hours

Ensure battery is fully charged every six months to prevent degradation.

Notes

- Lumens: 165 lxw* Based on working power
- Lumens tolerance 10%
- LED Chips: SMD 2835
- LED Chips Qty: 23w = 156 pcs, 40w/50w = 248 pcs
- Battery needs to be 100% charged for correct operation
- Manufactured to comply with CE & RoHS
- Battery: Lithium phosphate / LifePO4
- Microwave Motion Sensor: 5.8G
- Housing Color: Pantone Cool Gray 11U
- Housing: ABS
- Lens: PC
- Remote Control included (batteries not included)



Remote Functions with Sensor:

- At Sunset 10% / motion** = 100% (Auto & L Mode, 18 sec, approx 10-12 hours of operation when fully charged and low traffic mode)
- At Sunset 20% / motion** = 100% (M Mode, 18 sec, approx 6 hours of operation when fully charged and low traffic mode)
- At Sunset 30% / motion** = 100% (H Mode 18 sec, approx 4 hours of operation when fully charged and low traffic mode)

Remote Functions with sensor disabled:

- Dim:** On at 40% for first half hour, 20% next 2.5 hours, 10% output until battery is low up to 12 hours lighting time with fully charged battery
- Full:** On at 100% until battery is low up to 1.5 hours lighting time with fully charged battery
- Partial:** On at 20% until battery is low up to 10 hours lighting time with fully charged battery

Packing information

Model	CBM (Master)	Pieces/master	Box Dimensions (cm)	Gross weight (kg)
23w	0.0363	2	46.5 x 16.8 x 46.5	3.6
40w	0.0517	2	56.5 x 16.2 x 56.5	5.5
50w	0.0517	2	56.5 x 16.2 x 56.5	5.5



Warranty

Americanlite® is pleased to provide a 3 year limited warranty covering the LED fixtures on this catalogue. Americanlite® warrants that the LED fixtures comply with Americanlite®'s published specifications and are free from defects in materials and workmanship.

All our equipment is CE, ETL or UL approved and manufactured with approved components. Americanlite® reserves the right to change or improve the design or components of any of its products due to parts availability or changes in standards, without assuming any obligation to modify any product previously manufactured and without notice. All equipment is tested and inspected before shipment.

This warranty is void if the product is operated outside of its normal operating conditions. The foregoing warranty does not apply to failures caused by acts of God or as a result of any abuse, misuse, abnormal use, or use in violation of any applicable standard, code or instructions for use in installations, including, but not limited to, those contained in the Standards for the International Electrotechnical Commission. Americanlite® reserves and has the right to examine failed fixtures to determine the cause of failure, excessive lumen depreciation and patterns of usage.