

SOCR Series

The SOLAR CORE™

Solar Powered LED Area Lighting



5935 West 84th St. | Indianapolis, IN 46278 | 1-888-391-4822 | www.SolasRay.com

Cat. #	Type
Notes	



SOLAR
POWERED

CERTIFICATIONS / RATINGS

IP66



KEY FEATURES AND BENEFITS

- Convenient LED light, solar panel, and battery integrated into a single unit.
- 5,550 lumens in a 30W package with a high capacity battery.
- Highly efficient 185 lm/W
- High conversion efficiency mono-crystalline photovoltaic solar panel.
- Long life and high temperature resistance LiFePO4 battery.
- 10.1 hour charge can power light 4 to 6 days in intelligent control mode with factory settings.
- Built in microwave motion sensor.
- 2° tilt to reduce dust and rainwater accumulation.
- Highly durable with IP66 ingress protection and IK08 impact resistance.
- C3 (ISO 9223:2012) rated corrosion resistance.
- Hybrid dual-powered option available - AC power takes over if battery is low.
- Highly efficient MPPT type charge converter.

SPECIFICATIONS

Wattage	30W
Color Temp	3000 / 4000 / 5000 Kelvin
Housing	Aluminum Alloy
Color	Black RAL9005
Lens	Polycarbonate
Lifetime	102,000 hrs L70
Distribution Pattern	Type V Short / Type II Short
CRI	Ra80
Working Mode	Intelligent control
Control	Timer dimming / microwave sensor
Ambient Temperature	0°C (32°F) to 50°C (122°F) recommended, for colder temps - see Application Guide
Warranty	3 Year Limited Warranty

LUMENS

Model	30W
Lumens	5,550

BATTERY (Built-In - non-hybrid models)

With their high temperature resistance, large current discharge and long life cycle rating, LiFePO4 batteries are preferable for use in solar powered lights.

Type	LiFePO4 (Lithium Iron Phosphate)
Run Time	4-6 days (intelligent control) on full charge
Life Cycle	>2,000 cycles (D.OD. 80%)
Capacity	24Ah / 307.2Wh
Charge Time	10.1 hours

SOLAR PANEL (Built-In)

Mono-crystalline is the preferred type of panel for solar powered lights due to their superior efficiency and lifespan. Features a 21% conversion rate, which is 30% higher compared to traditional solar panels.

Type	High efficiency mono-crystalline (Grade A)
Charge Controller	MPPT (Maximum Power Point Tracking - DC to DC converter that finds the exact voltage/current where panel produces max power)

PRODUCT ORDERING SELECTION

SOCR	030B				
Series	Watts	Kelvin	Distribution Pattern	Color	Mounting Options
☒ SOCR	☒ 030B - 30W	☐ 30 - 3000K ☐ 40 - 4000K ☐ 50 - 5000K	☐ T5 - Type V Short (Standard) ☐ T2 - Type II Short	☐ BK - Black (RAL9005) ☐ CU - Custom* *Consult Factory	☐ TS - Twin Strut ☐ SS - Single Strut ☐ SA - Straight Arm

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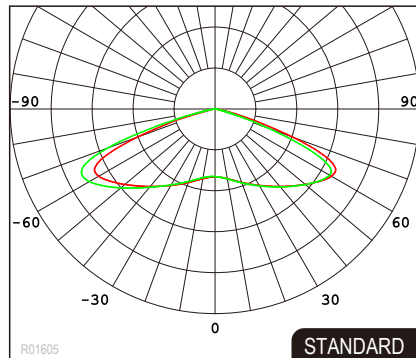


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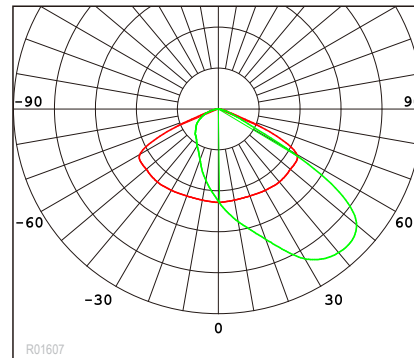
MOUNTING OPTIONS

#TS - Twin Strut	#SS - Single Strut	#SA - Straight Arm
		
2.44" ID - Fits 2 3/8" tenon or 60mm pole	2.44" ID - Fits 2 3/8" tenon or 60mm pole	Fits 3" (74mm) round or square pole

DISTRIBUTION PATTERNS



Type V Short (148x148°)



Type II Short (58x134°)

OTHER OPTIONS

#SOCR-REM - Remote Control	
Remote Control (Optional) Allows user to customize factory programmed intelligent controls. Must be ordered separately. P/N: SOCR-REM	 It is highly recommended leaving the fixture set to factory programming. If reprogramming, special attention must be paid to power vs battery run-time tradeoff. Run-time at 100% power is 7 hours max. Include 1 SOCR-REM Remote Control
NOTE: lights are factory programmed - remote not required	

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APPLICATION GUIDE

TEMPERATURE ZONE MAP



Temperature affects battery performance reducing the total output of a fully charged battery as it gets colder. Recommended use of the Solar Core™ for the above temperature zones are as follows:

Zone 1 - Not recommended for use in this zone.

Zone 2 - May be used in this zone. We recommend reducing intelligent control settings to 1/2 brightness of factory default settings.

Zone 3 - Recommended for this zone.

INTELLIGENT CONTROL MODE

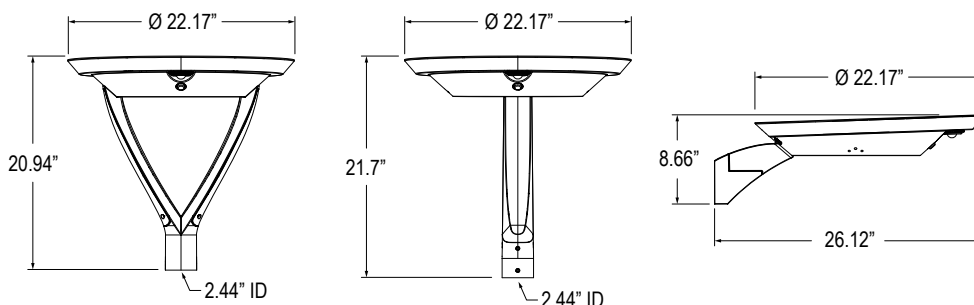
Factory default settings of intelligent control mode. Total run time = 12 hours.
Use optional remote to change settings (purchased separately).

Time Period	T1	T2	T3	T4
Length	1 hour	3 hours	7 hours	1 hour
Motion Not Detected	25%	35%	7%	25%
Motion Detected	50%	70%	15%	50%

When motion is detected, light brightens for 30 seconds



WEIGHTS, EPA AND DIMENSIONS



WEIGHTS / EPA

Model	30W		
Mount	Twin Strut	Single Strut	Straight Arm
Weight	24.7 lb	25.2 lb	23.8 lb
EPA	1.51 ft²		

BUG

Mount	Twin Strut		Single Strut		Straight Arm	
Type	V Short	II Short	V Short	II Short	V Short	II Short
B (Back)	3	1	2	1	3	1
U (Up)	2	2	2	2	2	2
G (Glare)	3	1	2	1	1	1