SOCR Series

The SOLAR CORE™

Solar Powered LED Area Lighting

SOLAS RAY™ LIGHTING

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

Cat. #	Type
Notes	

CERTIFICATIONS / RATINGS

IP66 · RoHS compliant · CE · IK08 IMPACT RATING

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.
- 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 L_{70}
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)

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
☑ SOCR

Watts
☑ 030B - 30W

Kelvin
☐ 30 - 3000K
☐ 40 - 4000K
☐ 50 - 5000K

Distribution Pattern
☐ T5 - Type V Short (Standard)
☐ T2 - Type II Short

Color
☐ BK - Black (RAL9005)
☐ CU - Custom*
*Consult Factory

Mounting Options
☐ TS - Twin Strut
☐ SS - Single Strut
☐ SA - Straight Arm

Specifications and data are subject to change without notice.

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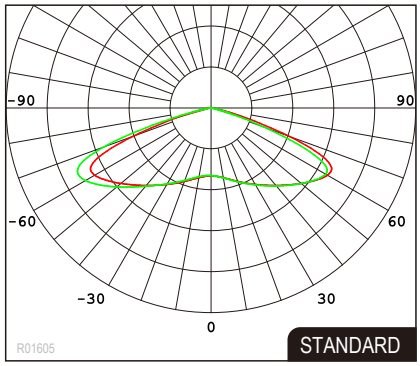
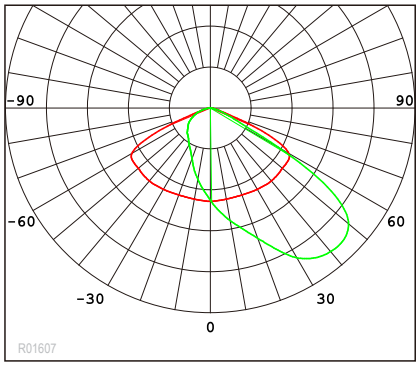
MOUNTING OPTIONS

#TS - Twin Strut	#SS - Single Strut	#SA - Straight Arm
2.44" ID - Fits 2 ⅜" tenon or 60mm pole	2.44" ID - Fits 2 ⅜" 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.

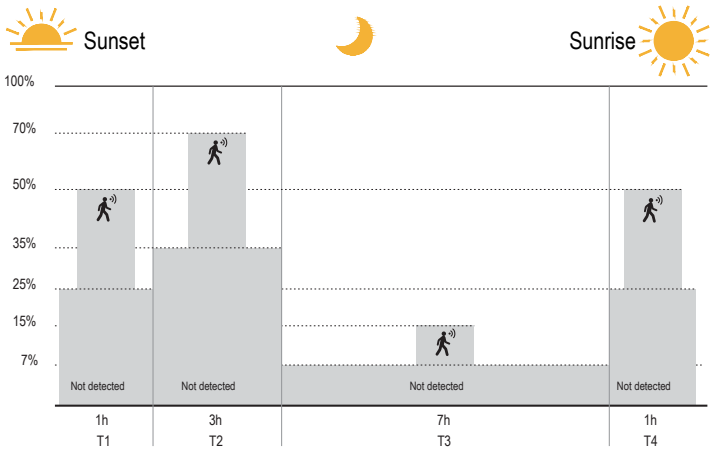
Zone 2 - May be used in this zone. We recommend reducing intelligent control settings to 1/2 brightness of factory default settings.

Zone 3 - Recommended for this zone.

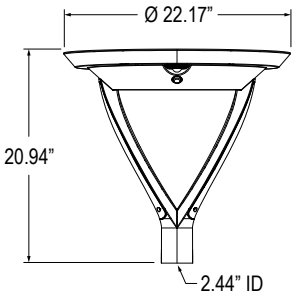
INTELLIGENT CONTROL MODE

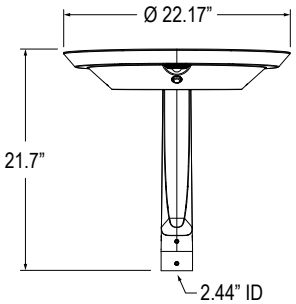
Factory default settings of intelligent control mode. Total run time = 12 hours.
Use optional remote to change settings (purchased separately).

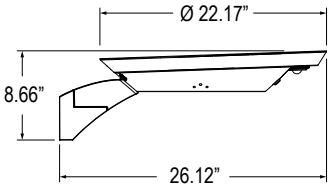
Time Period	T1	T2	T3	T4
Length	1 hour	3 hours	7 hours	1 hour
Motion Not Detected	25%	35%	7%	25%
Motion Detected	50%	70%	15%	50%
When motion is detected, light brightens for 30 seconds				



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

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