

SUNBRIGHT Solar Kit



FEATURES

- High Output Solar Assembly
- Gray and Dark Bronze finishes
- Integrated Panel Mount Design
- Ready to Mount on any Pole or Tenon
- Charge Duration Six (6) Hours
- Fifteen (15) Hour Output Duration when 100% Output
- Built-In Motion Sensor can Extended Output Duration
- Sensor detects Motion up to 30 feet

APPLICATIONS

- Parking Lots
- Roadways
- Security Lighting
- Walkways
- Recreation

CONSTRUCTION

The SunBrite Solar Kit is made with an Aluminum Alloy housing in a Dark Gray finish. Paired with a Ternary Lithium Battery and an integrated Solar Panel Mounting Bracket, this kit is installation ready out of the box without any additional mounting brackets or hardware.

WARRANTY

- Limited Three (3) and Five (5) Year Warranty standard

Three year warranty on the Battery

Five year warranty on the Lighting Unit

For more information regarding the limited warranty please contact the factory at (844) 202-5606 or email Customer Service at LEDCustService@dascom.com.

ORDERING GUIDE

SERIES	WATTAGE	BEAM ANGLE	CRI	CCT	FINISH	VOLTAGE
SR-3	048 080	T3 TYPE III (135 x 65)	7 ≥70	30 40 50	GRY DB	L HY
	48W 80W			3000K 4000K 5000K	GRAY DARK BRONZE	12-24V DC HYBRID AC/DC

SUNBRIGHT Solar Kit

SPECIFICATIONS

LED SPECIFICATION			3000K		4000K		5000K		EPA* (ft ²)	BUG	TOTAL WEIGHT (lbs.)
MODEL	WATTS	OPTIC	LUMENS	EFFICACY	LUMENS	EFFICACY	LUMENS	EFFICACY			
SR-3048	48.4	T3	6,542	135 lm/W	6,681	138 lm/W	6,960	144 lm/W	7.27	B2-U1-G1	50.70
SR-3080	75.6	T3	10,905	144 lm/W	11,135	147 lm/W	11,600	153 lm/W	12.80	B3-U1-G2	69.22

* EPA Ratings listed assume fixture is mounted horizontally. EPA rating will vary based on mounting angle.

BATTERY SPECIFICATION	SR-3048	SR-3080
BATTERY TYPE	Ternary Lithium	
NOMINAL CAPACITY (AH)	42	63
BATTERY LIFE	Three (3) Years	
CYCLE LIFE	> 80% @ 25°C @ 2000	
NOMINAL VOLTAGE (V)	11.1	11.1
STANDARD DISCHARGE CURRENT (A)	8.4	12.6
DISCHARGE CUT-OFF VOLTAGE (V)	9.0	9.0
MAX CHARGE VOLTAGE (V)	12.5	12.5
OVERCHARGE DETECTION VOLTAGE (V)	4.25	4.25
OVERDISCHARGE DETECTION VOLTAGE (V)	2.5	2.5
OVERDISCHARGE DETECTION CURRENT (A)	10-20	10-20

PANEL SPECIFICATION	SR-3048	SR-3080
SOLAR PANEL RATED POWER (W)	100	160
NUMBER of SOLAR PANELS	1	1
MAXIMUM POWER VOLTAGE (V _{mp} V)	18.0	18.0
MAXIMUM POWER CURRENT (I _{mp} I)	5.56	8.89
SHORT-CIRCUIT CURRENT (V _{oc})	22.3	22.3
SHORT-CIRCUIT CURRENT (I _{sc})	6.1	9.7
SYSTEM VOLTAGE (V)	18.0	18.0
TOLERANCE	100-105	160-165
NUMBER OF SOLAR CELLS	36	36
DIMENSIONS (INCHES)	33.07 x 26.37 x 1.37	58.26 x 26.37 x 1.37

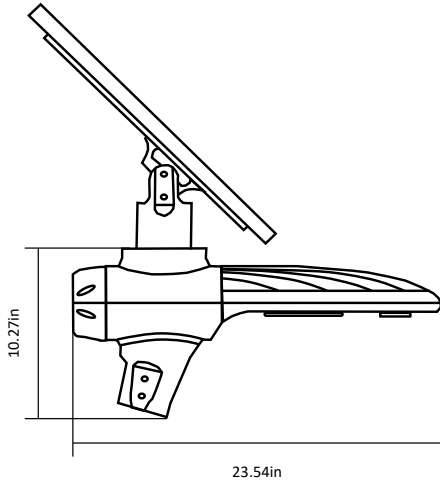
SPECIFICATION	VALUE	
PERFORMANCE	Power Consumption (W)	48 / 75
	Lumens Delivered (lm)	6,542 - 11,600
	Efficacy (lm/W)	135 - 153
	CRI	≥70
	Color Temperature (K)	3000 / 4000 / 5000
	Full Charge Duration (hr)	6
OPTICS	Lighting Output Duration (hr)	15
	Input Voltage	12-24V or 120-277V with HY model
	Dimming	Yes, using remote preset
	Photocell Sensor	Yes, integrated in Solar Panel
OPTICS	Motion Sensor	Yes, 40-50ft range
	Beam Angle	TYPE III
	Glare Shield	No
INSTALLATION	Standard Mount	3" OD Slipfitter for Pole Mount
	Optional Mount	None
	Tilt	Static 15°
CERTIFICATIONS	IP	65
	Environment	Outdoor / Wet
	Charging Operating Temp.	0°C ~ +40°C / 32°F ~ +104°F
	Discharging Operating Temp.	-10°C ~ +60°C / 14°F ~ +140°F
	Warranty	Battery: 3 year Lighting Unit: 5 year



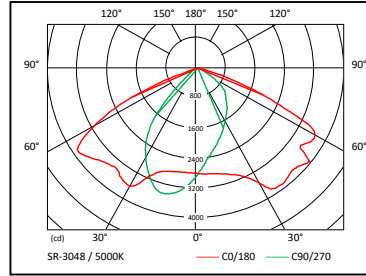
Battery is located in a sealed case on the end of the fixture.

SUNBRIGHT Solar Kit

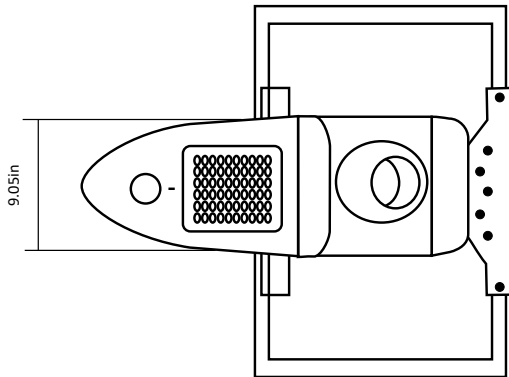
DIMENSIONAL DRAWINGS and PHOTOMETRICS



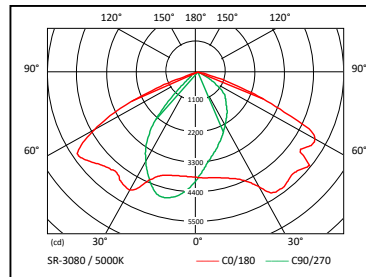
SR-3048



SR-3048 / 5000K / 135° x 65°		
1	2932	337
2	733	674
3	326	1011
4	183	1348
5	117	1685
H (m)	E (lx)	D (cm)

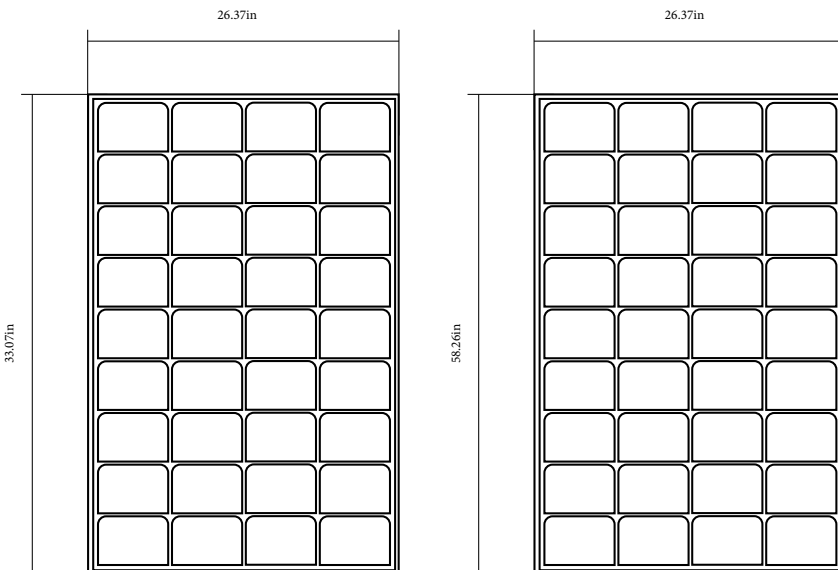


SR-3080



SR-3080 / 5000K / 135° x 65°		
1	3908	337
2	978	674
3	434	1011
4	244	1348
5	156	1685
H (m)	E (lx)	D (cm)

100W & 160W PANEL



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CONTROLLER



1. Magnet Power Switch

Before mounting this unit onto a pole, remove the magnetic button from the sensor.



2. Battery Power Indicators

The (4) blue LEDs in the upper row represent battery level.

- 1 indicator = < 25%
- 2 indicators = 26% - 50%
- 3 indicators = 51% - 75%
- 4 indicators = 76% - 100%



3. Status Indicators

SOLAR CONTROLLER STATUS INDICATORS		
Indicator Light	Status	Description
(1) YELLOW (Motion)	ON	Motion Detected
	OFF	No Motion Detected
(2) GREEN (LED)	ON	Light ON
	OFF	Light OFF
	FLICKER	LED Short Circuit
(3) BLUE (Battery)	ON	Battery Charged
	OFF	Battery Not Charged
	FLICKER	Battery Undervoltage
(4) RED (Panel)	ON	Battery Charged 100%
	OFF	Solar Panel Without Output
	FLICKER	Solar Panel Charging
(5) RED & GREEN & BLUE	CYCLE	Poor Cable Connection



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HANDHELD REMOTE CONTROLLER

One handheld remote controller is included with each assembly. Remote operates up to 50 feet away from the sensor. Sensor is located towards the front of the fixture. All units are shipped with the Demo mode by default.

MODES:

- L: 12 hours 100% illuminance
- T: 4 hours 100% illuminance, 8 hours 30% illuminance
- M: 2 hours 100% illuminance with motion detected
30% illuminance without motion detected
2 hours 80% illuminance with motion detected
25% illuminance without motion detected
8 hours 70% illuminance with motion detected
20% illuminance without motion detected
- U: 4 hours 100% illuminance
8 hours 70% illuminance with motion detected
20% illuminance without motion detected



AC/HYBRID MODEL

The Hybrid SunBrite Solar ensures that there will be no breaks in illuminance due to the system running both off of Solar Power and input line voltage. In addition to the insurance of being wired into line voltage, the Hybrid model has a +20% higher lumen output.

1. When the solar panel voltage is greater than the set optical control voltage, the assembly enters the charging state and stops charging when the charging level reaches the set overcharge voltage.
2. When the solar panel voltage is lower than the set optical control voltage, the assembly enters the discharge state.
3. When discharging, when the battery voltage is lower than the over-discharge return voltage and the main voltage is greater than the over-discharge voltage, the assembly is switched to main discharge. Unless the mains power is cut off, it is switched to battery discharge after charging the next day.
4. When the battery voltage is lower than the over-discharge voltage, the battery will stop discharging and display the state of low power. The battery can only be discharged after charging the next day.