• **Support Municipal Electricity Supply**

ISC *AMENITY SOLAR LIGHT*
10W/20W/30W

> Features of SC Series

• The design of SC series LED solar light comes from the inspiration of art, it is combined with best the energy-saving parts--solar panel, LED light, and LiFePO4 battery. With the controller and MPPT, it realizes the functions of high brightness with low energy consumption, long lifespan, and easy maintenance. At the same time, streamlined appearance design blends with the surrounding environment smoothly, to create a beautiful urban landscape.

• Power range: from 10W to 30W;
• Municipal electricity supply optional;
• Deep cycle battery, charge and discharge over 2000 times.
• Continuously work 2-3 rainy days under intelligent mode.
• Die-cast aluminum fixture housing ;
• UV stabilized polyester powder paint finish for durability and corrosion resistance;
• Mounting options: Post Top installation;
• Streamlined design to reduce wind resistance;
• Optical systems maintain an IP65 rating;
• ULOR=0%, no up light pollution;
• MPPT intelligent controller.

UP TO 190 lm/W	L90B10 >100000hrs @ 25℃	ULR =0	•3000K •4000K •5000K •5700K •6500K
CRI 70	IP65	DIM	Working Temperature Environment −10℃~50℃ (14℉ ~ 122℉)

Charging port
Add power charging connector scheme for power charging

Intergreted Design
Solar Panel combined with Battery Box

25 Years Lifespan	Conversion Rate up to 21%	Integral Monocrystalline Silicon Solar Panel

Lifespan Cycle ≥2000 Times
Intelligent Temperature Control

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

ADD: 14831 Myford Road Tustin, CA 92780
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Antara Lighting
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> Photometrics Design

## Lumen efficiency >190lm/W achieve higher illumination

High Efficiency   **Long Lifespan**   **Less Calorific Value**   **Low Light Decay**

• The light engine takes advantage of the latest generation of mid-power LEDs and dedicated optics for professional applications.
• 5050 LED chips provide lighting solutions from high-level special lights to very cost-effective but excellent quality luminaires.

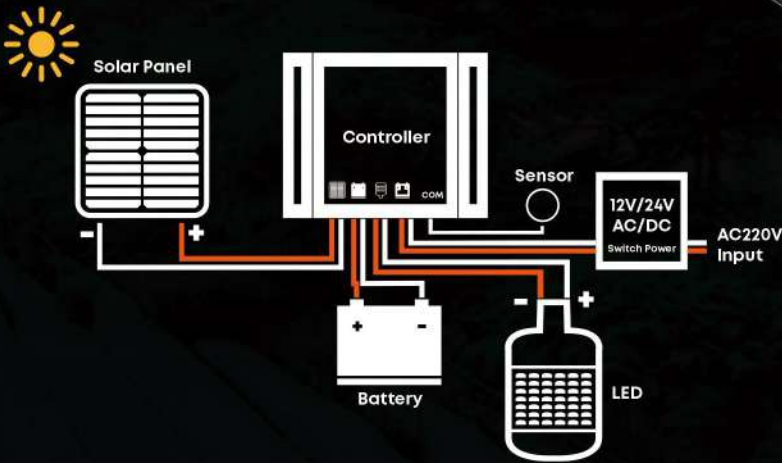## Photometry Design
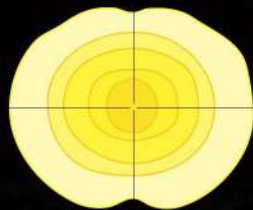
TYPE V (T502)

Pedestrian cityscape requires an architectural luminaire to enhance the site by day and to provide visual comfort and security by night.
SC series offers precise optical control up to 190 lumens per watt with distinct optimally designed distributions.
**Other optics types customizable.**

Working Way

Municipal Electricity Complementary Solution Optional

Solar Panel

Controller

Sensor

12V/24V AC/DC Switch Power

AC220V Input

Battery

LED

Standard Configuration Version

Municipal Electricity Complementary Solution, the power supply is placed internal, and it is easy to replace.

When the battery voltage is lower than the set value, the power supply will switch to mains power, and when the voltage is higher than the set value, it will switch to battery power. The standard configuration does not include mains complementary function.

Advantages of controller

Common controller working point

Maximum power point

Current

12.0V 17.5V 22.0V Voltage
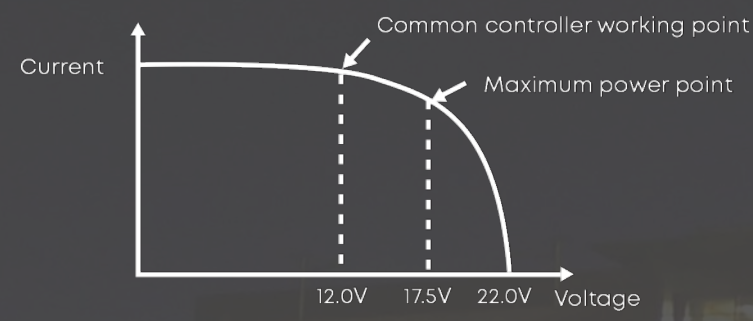
(take 12V battery system as an example)

1) Moving Track MPPT maximum power tracking technology is adopted to improve the tracking efficiency and speed by more than 20%;

2) UltraGreen power control technology with extremely low static power consumption and sleep current;

3) 10 time-periods programmable load power/time control;

4) Multiple intelligent power modes can be selected, and the load power can be automatically adjusted according to the battery power;

5) Multiple protection functions such as battery /PV reverse connection protection, LED short circuit/open circuit/power limit protection;

6) Aluminum metal housing, IP67 waterproof rating, can be used in a variety of harsh environments

7) Extensible IoT remote communication monitoring function;

Detection distance

Remote control distance 5-8 meters, installation height and environment and other factors will affect the controller sensitivity, please refer to the actual field.
Note: Please do not place 2 or more lights within 12 meters at the same time while using the remote controller, receiving or sending may fail.

Place the remote controller right under the fixture
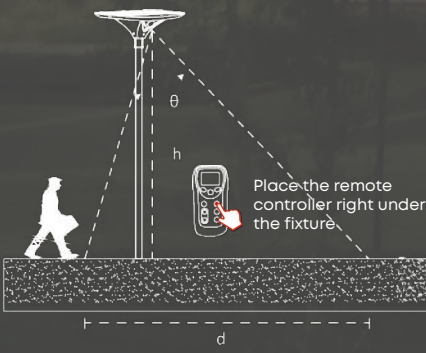
Inductive Type (alternative)	θ-Angle (X-axis rotation: 360°)	h (Height of lamp rod)	d (Inductive width)
IR (Infrared)	60°	6-8m	6-10m
WB (Microwave)	65°	6-10m	7-10m

*Remote control is optional

Parameter Table

Electrical Data

Model	SC10	SC20	SC30	
Power	10W	20W	30W	
Control function	MPPT intelligent controller			
Working mode	2H-Detected-100%, None-30%; 3H-Detected-70%, None-10%; Detected-40%, None-10% to dawn			

Photometric Data

LED model	5050		
Efficacy (lm/W, Std Dev ±3%) (CRI 70Ra, 4000K)	190lm/W	190lm/W	190lm/W
Luminous flux (lm, Std Dev ±3%) (CRI 70Ra, 4000K)	1900lm	3800lm	5700lm
Lens	Polycarbonate		
CCT	3000K, 4000K, 5000K, 5700K, 6500K		
CRI	70Ra		

Mechanical Data

IP Rating	IP65		
Housing	Aluminum		
Mounting	Round pole (Ø60mm)		
Painting	Black, Custom request		

Solar Panel Data

Solar Panel	18V, 35W	18V, 35W	18V, 35W
Battery voltage(AH)	12.8V 6AH	12.8V 12AH	12.8V 18AH
Li-ion Battery(WH)	76.8WH	153.6WH	230.4WH
Charing Time	2-3Hrs	4-5Hrs	7-8Hrs
Run Time(@full power)	6.9Hrs	6.9Hrs	6.9Hrs
Battery lifespan	>2000 times cycle		
Ambient & Storage Temperature	-10°C to 50°C (14°F to 122°F) / -20°C~45°C (-4°F to 113°F)		
Maximum Autonomy	Operate 2~3 rainy days under intelligent model.		

Others

SCx(EPA)	Top View - 0.249m² (2.68ft²); Front View - 0.045m² (0.48ft²); Side View - 0.042m² (0.45ft²)		
Certification	FCC / CE / RoHS (The company is ISO 9001 and ISO 14001 certified.)		
Product Size	570*370*180mm		
Carton Size	645*445*240mm		
Net Weight	4.8kg	5.4kg	6kg
Gross Weight	6.6kg	7.2kg	7.8kg
Warranty	3 years (Warranty extension on request)		
Recommend installation height	3-4m	3-6m	5-7m
Application field	Garden / Park / Side walk		

Ordering Information

MODEL	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	HOUSING
SC10	DC=Solar	A5=5050	00=Without Sensor	3070=3000K 70CRI	T5=TYPE V	A=Post Top	SL=Silver
SC20	HB=Hybrid		PIR=PIR Sensor	4070=4000K 70CRI			BK=Black
SC30	NV=Grid		MS=Microwave Sensor	5070=5000K 70CRI			
				5770=5700K 70CRI			
				6570=6500K 70CRI			

Dimension

570mm
180mm
85mm
Ø63mm
370mm

Housing Color

Black   Silver

Photometry

Type V

AVERAGE BEAM ANGLE(50%):168.0 DEG

Illuminance Diagram
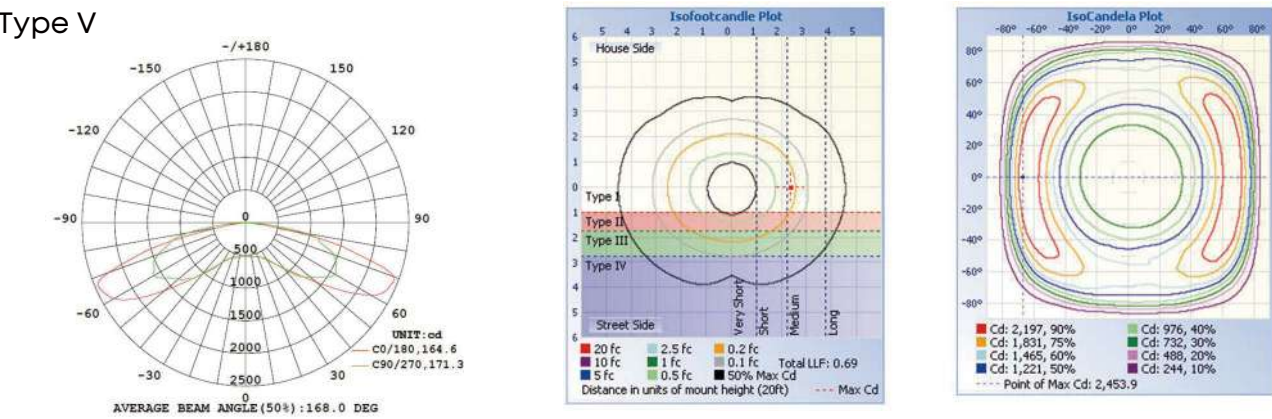
Autonomy Control Reference

2H-Detected-100%, None-30%;
3H-Detected-70%, None-10%;
Detected-40%, None-10% to dawn

Sunset — AUTO — Sunrise
Light on

30% None	100% Detected	30% None	10% None	70% Detected	10% None	10% None	40% Detected	10% None
	2H			3H			to dawn	

100% CONSTANT MODE
100% brightness from dusk to dawn.

70% CONSTANT MODE
70% brightness from dusk to dawn.
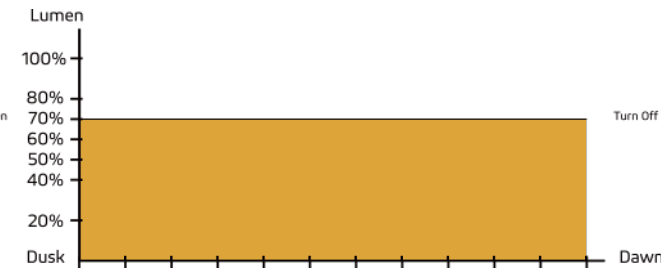
40% CONSTANT MODE
40% brightness from dusk to dawn.

SC Series Specification Sheet
*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.
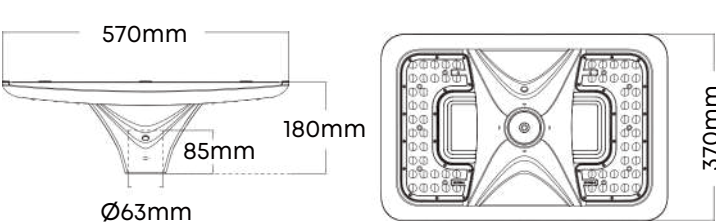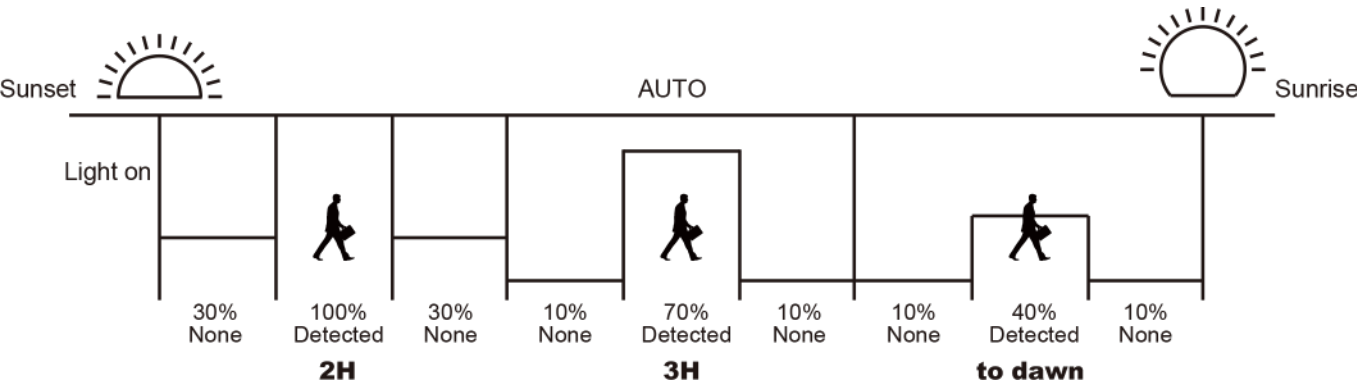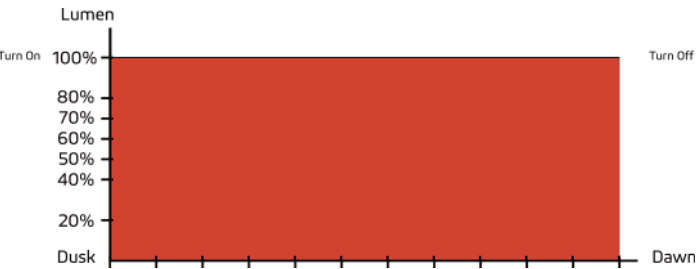
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