



| SF Series

AIO Rotatable Solar Street Light

All-in-One, Adjustable, 3 Installation methods, Plug and Play Lighting.

SF Series is an all-in-one solar street lighting solution that delivers sustainable lighting without the burden of rising electricity cost and increasing carbon footprint.



SF Series AIO Rotatable Solar Street Light

The uniquely integrated design incorporates the LED light engine, adjustable photovoltaic panel and long lifespan LiFePO4 battery into one lighting system, thereby significantly simplifying installation and reducing cost – no trenching, no cabling or on site assembly required. An ideal plug and play system for off-grid applications.



Features

- Auto ON/OFF, working 12hrs per night, 3-5 back up rainy days
- 2000-13200 lumens @ initial
- Use Philip 5050 Led Chip
- High LED Luminous efficiency up to 200-220lm/w
- Two light distributions available
150 x 70 for road lighting, 150 x 80 for area lighting. Lighting area expanded by 40%, lighting uniformity increase to 200%
- -20°C +75°C operating temperature
- Post Top and side entry mounting
- 4 to 10 meters mounting height, Suitable for different type pole and wide range diamete(Φ50-80mm)

Benefits

- All-in-One adjustable design, plug and play, easy to install and maintains
- Innovative LiFePO4 battery allows more than 2000 deep cycles ensuring reduced maintenance and is eco-designed and fully recyclable
- Remoter+ 5 working modes
- Luminaire body made from all die-casting aluminum, anti-corrosion
- Smart lighting management system optimizes lighting program and enhances battery lifespan
- Options: Wireless intelligent lighting management system



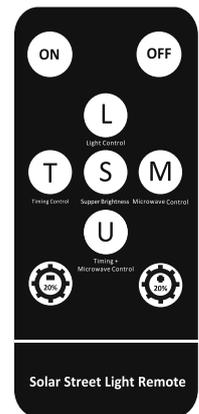
CE FC RoHS IP68

Product details

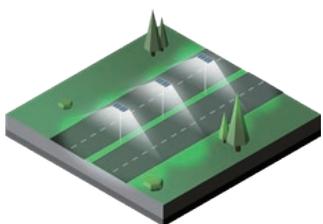


Remoter

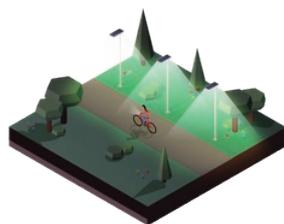
- ON** ON: Turn on the light
- OFF** OFF: Turn off the light
- L** L: 2hrs-100%, 2hrs-70%, 8hrs-20%;4 rainy back up days
- T** T: 1hrs-50%, 4hrs-100%, 3hr-50%, 4hr-25%;2 rainy back up days
- S** S: 6hrs-100%, 6hrs-50%; 1 rainy back up day
- M** M: 100% when detect any movement, 30% no movement; 5 rainy back up days
- U** U: 2hrs-100%, 2hrs-70%, 2hr-50%; sensor start working, when detect movement 50% , 20% no movement; 3 rainy back up days
- 20%** -20%: decrease 20% brightness based on original working mode
- +20%** +20%: increase 20% brightness based on original working mode



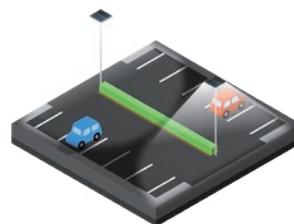
Applications



Roads / Boulevards



Bicycle lane / Path



Parking lot



Park

Construction Features

The Philip 5050 outdoor 5w LED delivers an average of 220lm/w which illuminates the area brighter than ever.



The spirit level is designed to facilitate the installation of lamps



A more precise scale makes it easier to adjust the angle of the solar panel to the sun.
(solar panel can rotate 180°)



Solar Panel Comparison



Double-Sided Solar Panel	
Lifespan	30 yrs
Power Generation efficiency	24%
Attenuation	0.5%

VS



Ordinary Solar Panel	
Lifespan	25 yrs
Power Generation efficiency	20%
Attenuation	0.7%

3 Installation Ways for Different Project Requirements



Vertical installation



Horizontal installation



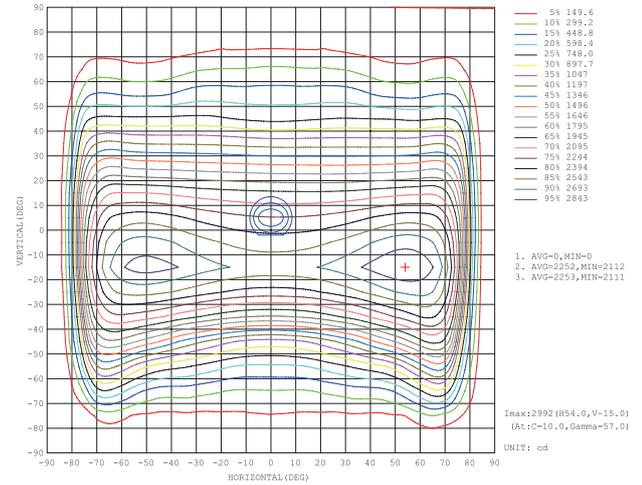
Split installation

Light distribution curve

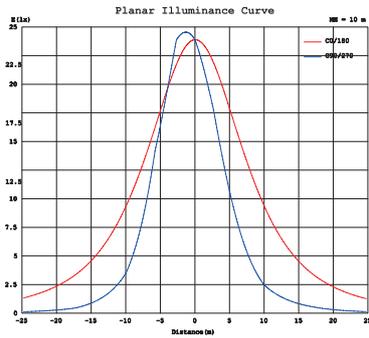
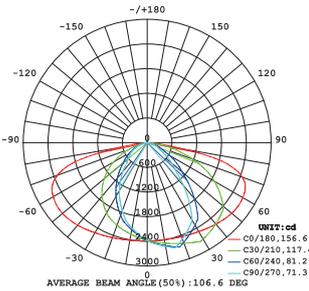
STREET LIGHT PHOTOMETRIC TEST REPORT(5050)

DATA OF LAMP		PHOTOMETRIC DATA Eff: 202.93 lm/W			
MODEL	1W8C1B SA2235	Imax (cd)	2986	h street_up(%)	0.0
NOMINAL POWER (W)	40	LOR (%)	100.0	h street_down(%)	58.8
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	7190	h house_up(%)	0.0
NOMINAL FLUX (lm)	8117.2	MAXIMUM θ (C,g)	10,57.0	h house_down(%)	41.2
LAMPS INSIDE	1	h up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	48	h down (%)	100.0	SLI	21.325

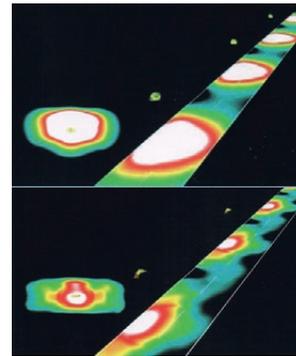
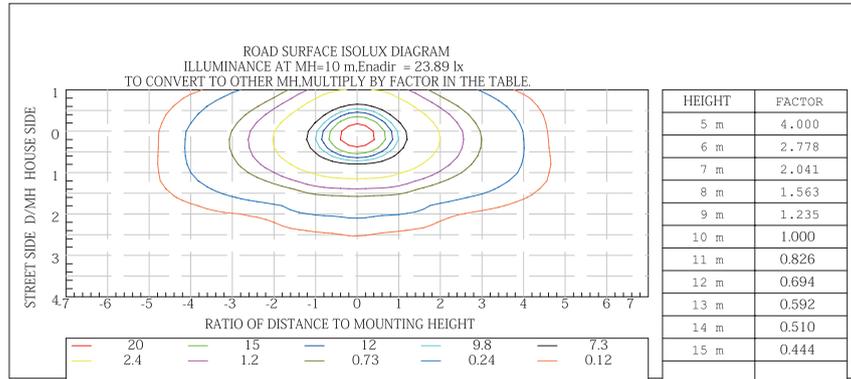
STREET LIGHT ISOCANDELA DIAGRAM(5050)



INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



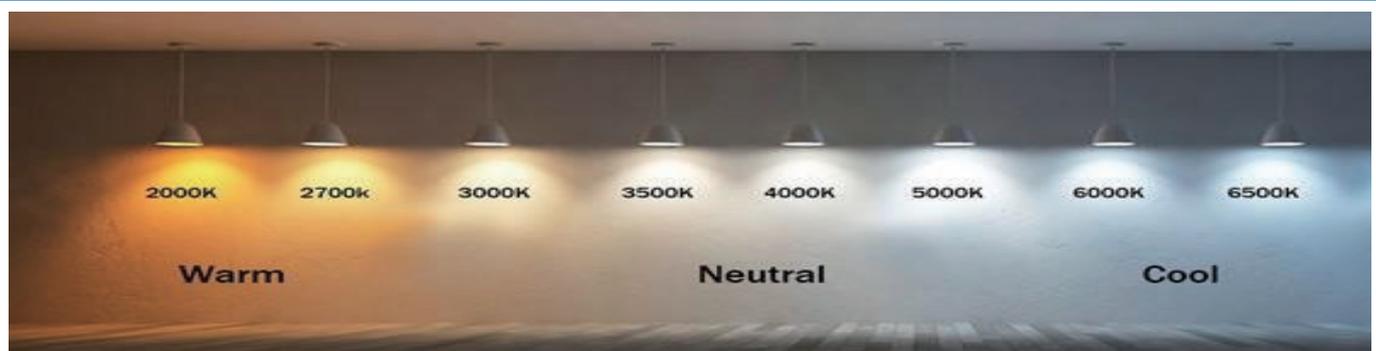
Photometric analysis



Type II suits general road lighting requirements. i.e country road, emergency exit, residential area.

Type III suits wide road lighting requirements. i.e express way, parking lot, shopping plaza, scenic park.

Optional CCT



Technical Data

Model	LED Power	Luminous Flux	Mono Solar Panel	LiFePO4 Lithium Battery	Working Time	Mounting Height (m)	Installation Distance (m)
SF-10	10w	2000-2200lm	40W/18V	8AH/12.8V	12 hrs per night 3-5 rainy days	3-5M	10-13M
SF-20	20w	4000-4400lm	50W/18V	12AH/12.8V		4-6M	16-19M
SF-30	30w	6000-6600lm	60W/18V	18AH/12.8V		5-6M	19-23M
SF-40	40w	8000-8800lm	80W/18V	24AH/12.8V		6-7M	20-25M
SF-50	50w	10000-11000lm	100W/18V	30AH/12.8V		7-8M	23-27M
SF-60	60w	12000-13200lm	120W/18V	35AH/12.8V		8-9M	27-31M