



SolarPath Bird Light

Spec Sheet for SP-BIRD



Advantage:

- Wireless Application-Integrated solar panel, LED, lithium battery, micro-controller and other accessories into one system, simple and stylish.
- Micro-computer Controlled-Combine light control system and time control system perfectly, ensure whole system more energy-efficient.

Easy installation-No power required, no cables required, easy installation in 5 minutes.
- Solar panel angle adjustable. Adjustable in vertical and horizontal direction, ensure maximum efficiency of solar energy conversion.
- Good heat Dissipation-Solar panel, battery and light body do not connect directly, they will not conduct heat to each other, to support good heat dissipation and long lifetime.
- Extreme Light-Light efficiency reach 210lm/w, at same illumination, lower watt available.

Lithium Battery-Adopt lithium battery to replace traditional gel battery, longer lifetime.
- Modular design-All components are modular design and in standardized production. Battery can be easily replaced if needed.
- Low Cost-Compared with traditional solar led lights, much lower cost, easy to transport.

Feature:

- Beautiful and modern appearance, simple and fashionable. Use of solar green energy, environment friendly, saving more.
- Low voltage driving, meet the Europe standard of CE RoHS FCC.
- No Hg, Pb or other hazardous materials, no radiation, human safety.
- IP65 grade, TVS lighting protection.
- Long lifetime of whole lamp, low maintenance costs.

Details:

Monocrystalline



- 18% photoelectric conversion efficiency
- Tempered glass cover
- 20-25 years lifetime

Birdgelux led chip



- 45mil led chip, 210lm/w
- Bat wing lens with polarized light
- ≥ 50000 hrs lifetime
- ≥ 70 Ra CRI

SolarPath Smart Controller



- SolarPath unique design
- Combine microwave sensor light control and time control perfectly, ensure whole system more energy efficient
- Smart control, saving more and system works stably

LiFePO4 Battery



- High capacity
- No pollution and stable
- 5-8 years lifetime, ≥ 2000 times charge & discharge
- High temperature resistance

Perfect structure design



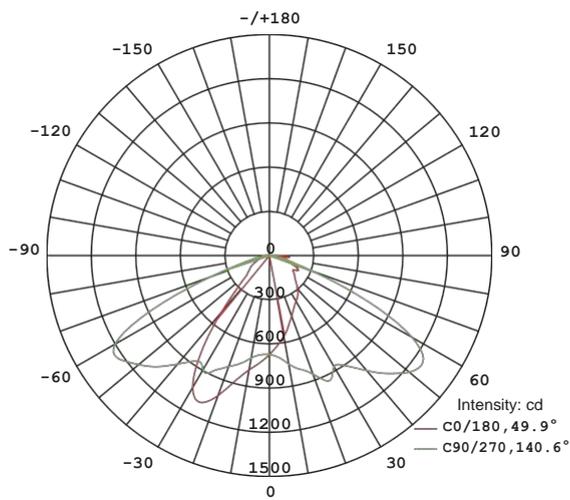
- No screw on face of light
- IP65 waterproof
- Match different style of poleresistance

Applications:

Widely used in Rural road, Courtyard, Villa, Park, Square, Farm, School, Factory, Slow lane etc. Places where outdoor lighting is needed the most

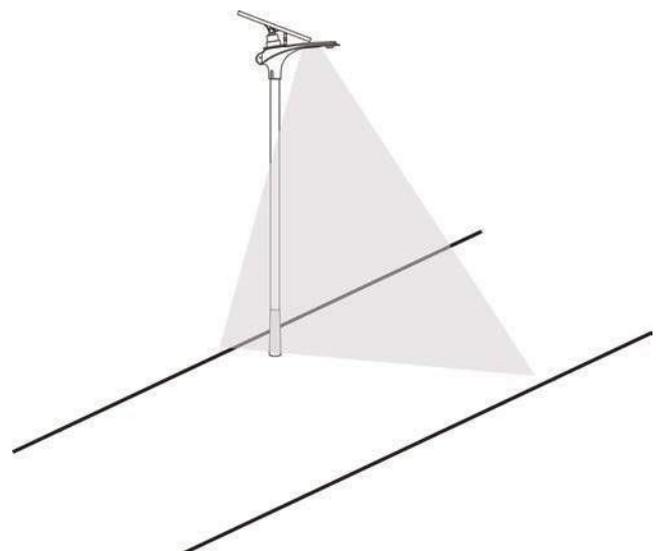


Luminous intensity distribution curves:



Average Beam Angle(50%): 95.3

Bat wing lens with polarized light

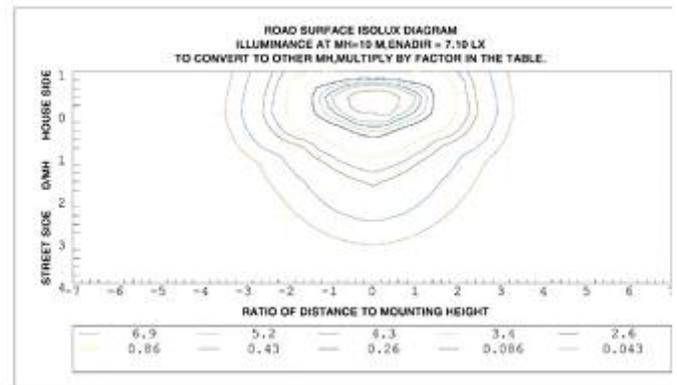


Solar panel angle adjustable schematic diagram:



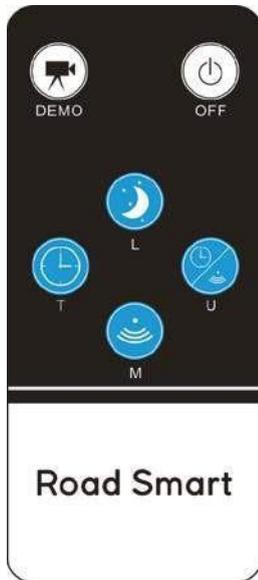
Spec Sheet:

Type	SP-BIRD-50
LED Power	15W
Solar panel	50W/18V
Lithium battery	170WH/12.8V
LED qty	24pcs
Luminous flux	2260lm
Charge time(full sunlight)	5.5hrs
LED chip	Bridgelux
Color temperature	3000-6500K
CRI	≥70Ra
Light control voltage	5V
Light distribution	Bat wing with polarized light
Lighting time	Depends on Programming
Sensor distance	16.4- 32.8FT
Sensor time	20-30s
Working temperature	68F~+140F
Lifetime	≥50000hours
Material	High quality aluminum alloy, die-cast aluminum
Pole top diameter	2.3 in
Mounting height (recommendation)	16.4-19.6FT
Installation spacing (recommendation)	32.8-98.4FT



The working time will be affected by its surroundings.

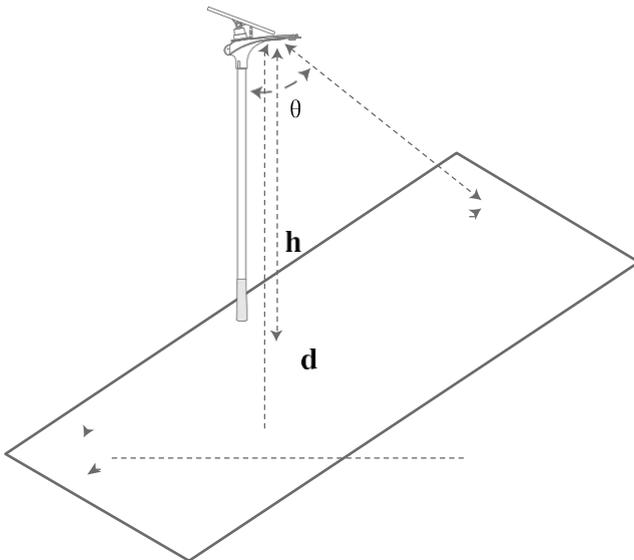
Working mode



- DEMO:** No matter day or night, light "on" for 1 minute. Only for test use.
- OFF:** Light "off", no matter day or night.
- L:** At night, 100%-1hr, 70%-3hrs, 20%-dawn.
- T:** At night, 100%-5hrs, 50%-7hrs(dawn)
- M:** At night, 50%-1hr, 100%-3hrs, 20%-dawn.
- U:** At night, 100%-2hrs, 60%-2hrs, then sensor working, 60% if activated, 20% stand-by.

Remark: Default is L mode, can choose best mode according to different sunshine radiation.

Attentions of motion sensor function



θ (Angle)	h (Height)	d (width)
65°	19.6FT	32.8FT

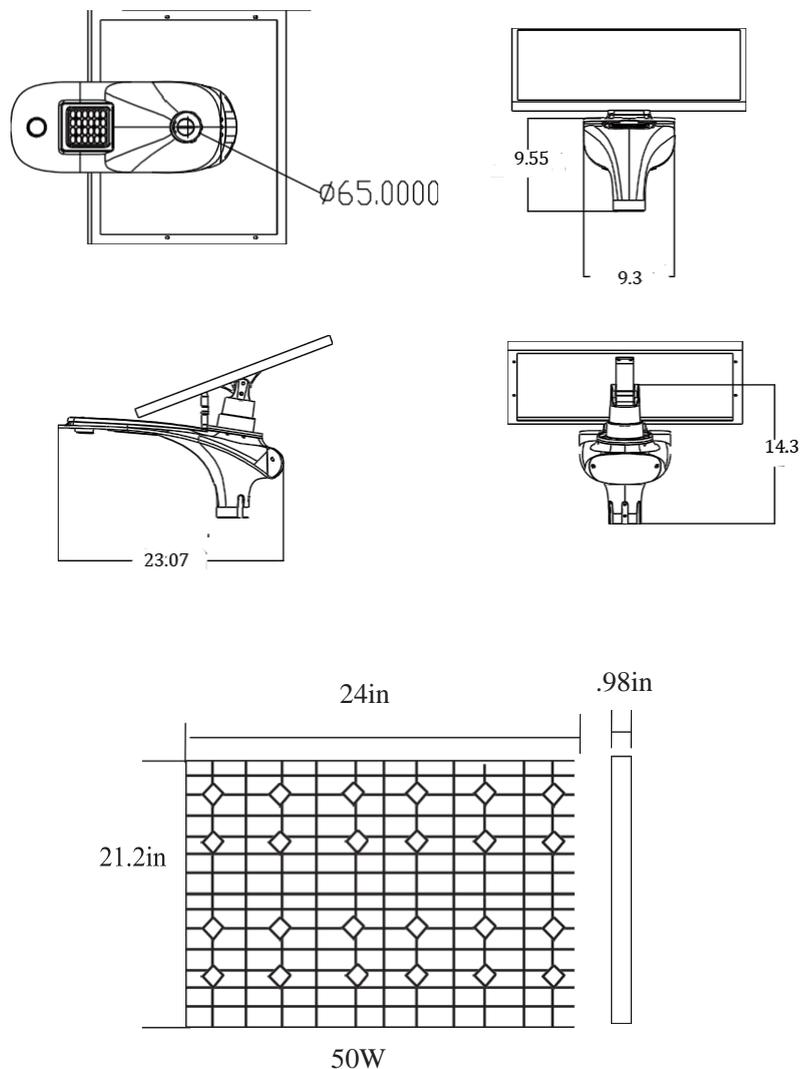
1. Sensor should be installed under 19.6 Ft height.

Instructions:

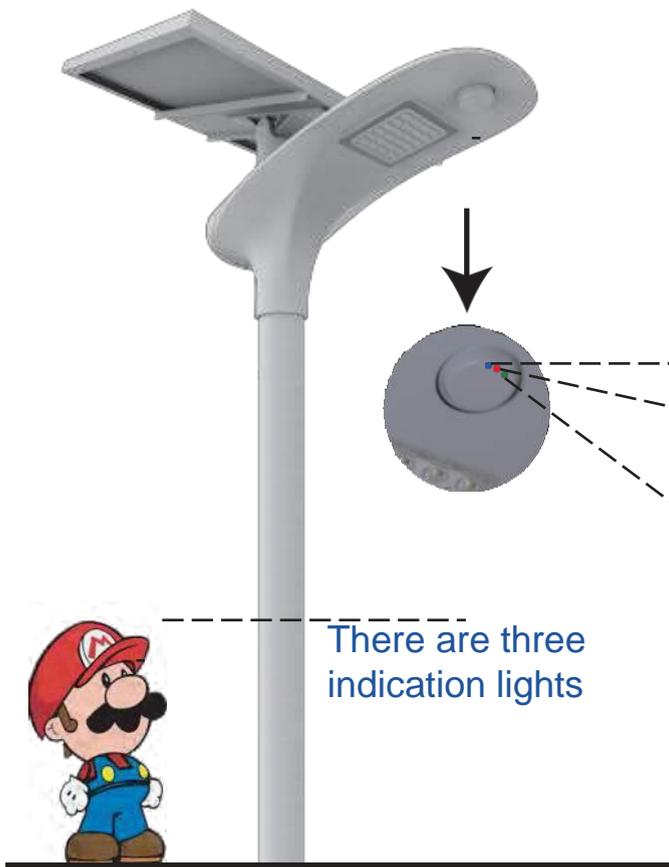
SolarPath Bird light, need solar power to charge battery, please select appropriate model based on local sunshine conditions.

- Please avoid solar panel be block by building, trees or other obstructions, otherwise it will reduce efficiency of solar panels working, resulting in lower efficiency of system.
- Charging temperature of Lithium battery is 32F to 131F the discharging temperature is --4F to 140F make sure that ambient temperature is in this range when used, avoid to damage lithium battery.
- Please cleaning surface of solar panels regular, such as dirt, leaves, oil, etc., ensure high photoelectric conversion efficiency.

SolarPath Bird light dimension:



Controller status instructions



SP-Bird-50

LED light	Indications	Status	Functions
 	Charging indication	Long Term On	The solar panel voltage is higher than light control voltage
		Long Term Off	The solar panel voltage is lower than light control voltage
		Slow Twinkling	Be on charging
		Fast Twinkling	System overvoltage
 	Battery indication	Long Term On	Battery works normally
		Long Term Off	Battery is not connected/No power
		Fast Twinkling	Battery is over discharged
 	Load indication	Long Term On	Load is on
		Long Term Off	Load is off
		Slow Twinkling	Load is in short circuit
		Fast Twinkling	Load is in open circuit

Note: System faults include:

1. Overdischarging of battery.
2. System overvoltage.
3. LED load in short circuit.
4. LED load in open circuit.

Decorating function with aesthetic design :

6 colors switch by turn



Easy installation



Fix bracket on the panel.



Fix rotating head on the panel.



Connect the panel to the light body.

