

Hybrilux

SL05 & SL10-SOLAR FIN

All-in-One Solar LED Street Light

Built-in PIR sensor, equipped luminaire with flexibility



200 lm/W



10W - 60W



Timer
Dimming



Built-in
PIR Sensor

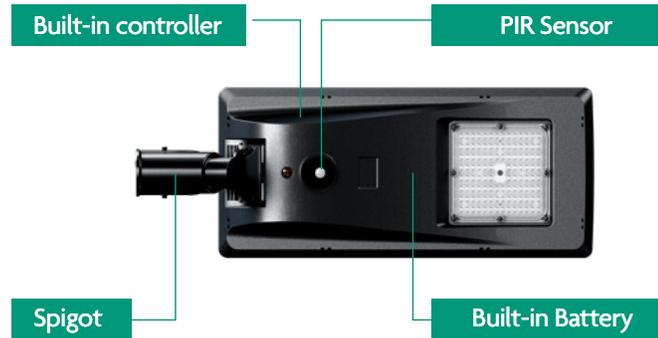


Up to 21% high
conversion rate



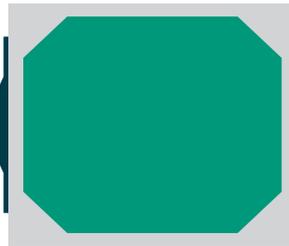
Compact. Beautiful, & Built for Value.

Its beautifully integrated design simplifies installation — eliminating the need for wiring — while reducing both operational and freight costs.



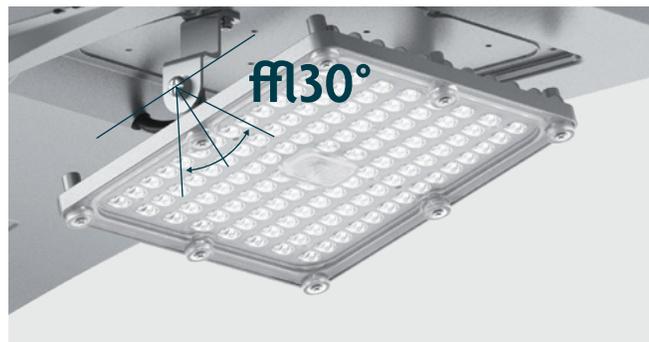
High Efficiency — Up to 200 lm/W

Engineered for performance, the system delivers up to 200 lm/W efficiency — providing maximum light output with minimal energy consumption. Available from 2,000 to 12,000 lumens, it meets the demands of projects large and small.



Easily Optimize Sunlight Capture

An optional $\pm 30^\circ$ adjustable LED module makes it easy to fine-tune the panel angle for maximum solar energy harvest.



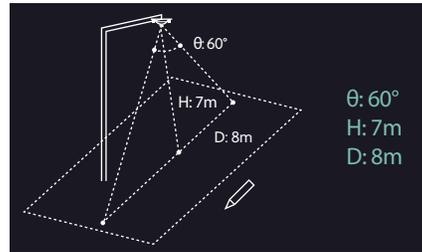
High Efficiency. Low Maintenance. Long-Term Savings.

Maximize energy savings and minimize maintenance costs with our solar street light featuring an intelligent PIR motion sensor. This smart system automatically adjusts brightness based on movement, ensuring ultra-low energy consumption and extended battery life. Enjoy powerful, consistent illumination with long-lasting performance — no maintenance required.

PIR Sensor



Sensor Range



Remote Control



Factory Default Setting — Optimized for Maximum Energy Efficiency

Pre-configured to deliver the ideal balance of performance and battery life, this default setting is recommended for most applications. If a client requires a specific operating configuration, the system can be adjusted in the field using the remote control or pre-programmed during production. All configuration details must be finalized prior to order placement.



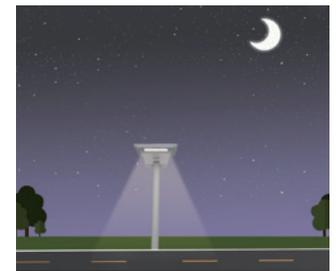
With sufficient natural light, the solar panel continues charging efficiently throughout the day.



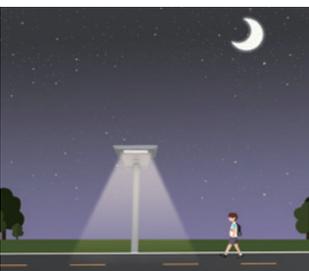
The light maintains 100% brightness for the first 30 minutes of operation (sunset).



The light operates at 50% brightness when motion is detected during the first four hours of operation.



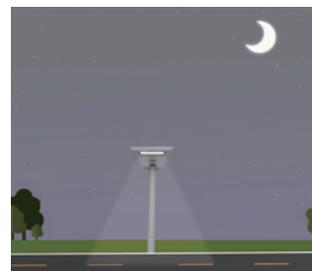
The light operates at 50% brightness when motion is detected during the first four hours of operation.



During the second four hours of operation, the light maintains 20% brightness when motion is detected.



When no motion is detected after a 30-second hold time, the light dims to 10% brightness during the second four hours of operation.



The light maintains 10% brightness for the final three hours until sunrise.

The system's smart controller determines day and night operation through solar array open-circuit voltage sensing. With an adjustable threshold range of 3.0 V–8.0 V, it can be precisely configured to match local light conditions and array performance.



CE RoHS

Description

Hybrilux's Solar Fin Solar Fin is a game changer for Solar lighting. The all in one design with integrated solar panel, battery, smart controller, and motion sensor make this system easy to install and very reliable.

For Retrofit Projects

Our innovative hybrid Solar technology allows you to install lights that are primarily Solar powered but provide peace of mind with secondary electrical grid supply - a first for the US Solar lighting industry!

For New Projects

If you are looking for 100% Solar, without back-up power, now there is an economical and easy way to bring light to areas without access to electric grid.

Key Features

- Compact design; lightweight which makes installation simple.
- System efficiency up to 200lm/w with competitive price
- The controller has built in PIR sensor and timer dimming function
- The efficient LiFePo4 battery features extended life with an 8 hour charge can offer 3 days of operation.
- IP65 protection
- Mono-crystalline photovoltaic with a higher conversion efficiency
- Adjustable angle
- Different mounting options

Applications

- Village streets
- Urban road
- Courtyard
- Parking lot

Electrical Information

Model No	SL05-10	SL05-20	SL05-30
Power Consumption(η15%)	10W	20W	30W
Battery	LiFePO4 battery		
Battery Capacity	76.8Wh-6Ah	153.6Wh-12Ah	230.4Wh-18Ah
Solar Panels	Mono-crystalline solar panel		
Solar Panel Wattage	30W		
Charging Time	>3Hrs	>6Hrs	>9Hrs
Operating time	Normal mode with 100% brightness>8hours, Intelligent mode 3-4 days		
Solar Charge Controller	PWM		
Working mode	Refer Intelligent control		
Control	Timmer dimming/PIR sensor		

Optic Information

LED Type	LED 2835		
Luminous Flux (η10%)	2000lm	4000lm	6000lm
Efficacy(4000K Ra70)	200lm/W		
Correlated Color Temperature	4000K (3000K, 5000K optional)		
Color Rendering Index	Ra70 (Ra80 optional)		
Beam Angle	R10801, R10803, R10805		
UGR Level	NA		

Dimensions and Mount

Product Dimension (Side Entry)	31.7x11.9x5.8"		
Luminaire Net Weight	11.02 LBS	12.56 LBS	13.88 LBS
Export Carton Size	29.52x14.56x7.67"		
Gross Weight	15.87 LBS	17.41 LBS	18.73 LBS
Mounting Option	Post top mount/Side entry mount Pole clamp bracket mount/Wall mount		
Material	Aluminum alloy Polycarbonate optical lens LifePO4 battery Mono-crystalline solar panel		
Finish	Powder coating		
Fixture Color	Silver		
EPA	2.56ft ² /0.23m ²		
IP Rating	IP65		
Category of corrosion	C3		

Lifespan and Warranty

Operating Temperature	0°C to + 50°C		
Life Time of LED @Ta=25°C	31000hrs-L90		
	64000hrs-L80		
	101000hrs-L70		
Warranty	Battery	7 Years	
	Other accessories	7 Years	

New Features

* Please consult us for details.



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- IP65 protection
- Mono-crystalline photovoltaic with a higher conversation efficiency
- Adjustable angle
- Different mounting options

Applications

- Village streets
- Urban road
- Courtyard
- Parking lot

Electrical Information

Model No	SL05-40	SL05-50	SL05-60
Power Consumption(φ15%)	40W	50W	60W
Battery	LiFePO4 battery		
Battery Capacity	307.2Wh-24Ah	384Wh-30Ah	460.8Wh-36Ah
Solar Panels	Mono-crystalline solar panel		
Solar Panel Wattage	60W		
Charging Time	>6Hrs	>7Hrs	>9Hrs
Operating time	Normal mode with 100% brightness>8hours, Intelligent mode 3-4 days		
Solar Charge Controller	MPPT		
Working mode	Refer Intelligent control		
Control	Timmer dimming/PIR sensor		

Optic Information

LED Type	LED 2835		
Luminous Flux (φ10%)	8000lm	10000lm	12000lm
Efficacy(4000K Ra70)	200lm/W		
Correlated Color Temperature	4000K (3000K, 5000K optional)		
Color Rendering Index	Ra70 (Ra80 optional)		
Beam Angle	R10801, R10803, R10805		
UGR Level	NA		

Dimintions and Mount

Product Dimension (Side Entry)	965x429x187mm		
Luminaire Net Weight	13.9±0.3kg	14.4±0.3kg	15±0.3kg
Export Carton Size	1020x520x255mm		
Gross Weight	15.7±0.3kg	16.2±0.3kg	16.8±0.3kg
Mounting Option	Post top mount Side entry mount		
Material	Aluminum alloy Polycarbonate optical lens Lifepo4 battery Mono-crystalline solar panel		
Finish	Powder coating		
Fixture Color	Silver		
EPA	4.95ft ² /0.46m ²		
IP Rating	IP65		
Category of corrosion	C3		

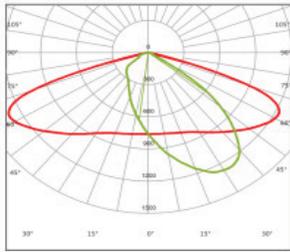
Lifespan and Warranty

Operating Temperature	0°C to + 50°C		
Life Time of LED @Ta=25°C	31000hrs-L90		
	64000hrs-L80		
	101000hrs-L70		
Warranty	Battery	7 Years	
	Other accessories	7 Years	

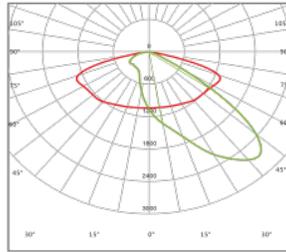
New Features

* Please consult us for details.

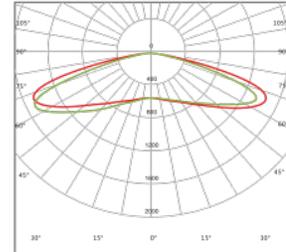
Photometry



R10801



R10803



R10805

Mounting Options



Side Entry Mount



Post Top Mount



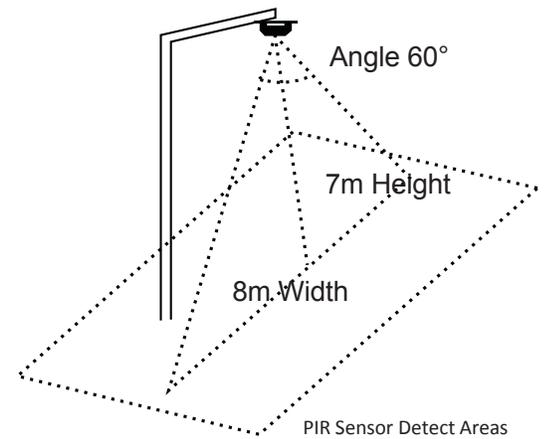
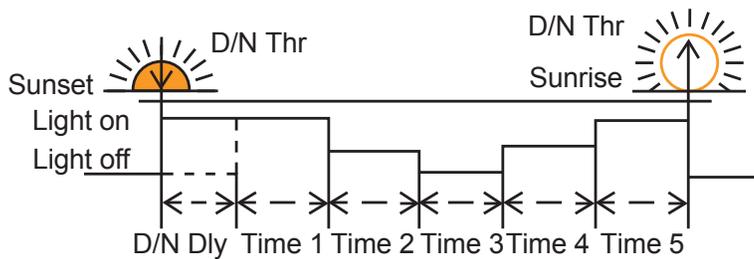
Pole Clamp Mount



Wall Mount

Intelligent Control Mode

5 Stage Night Mode



*You can note the Sensor function is only available at Time 3 and Time 4

*Please note the fixtures with 5 stages timer dimming yourself by the remote controller.

Factory Default setting



With sufficient natural light, the light keeps charging.



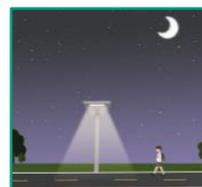
The light keeps 100% brightness for 0.5 hour.



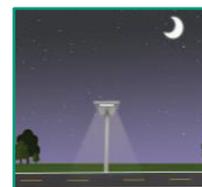
The light keeps 50% brightness when presence is detected in the 1st 4 hours.



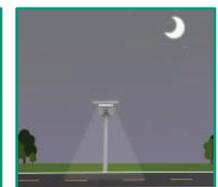
The light keeps 10% brightness when no presence is detected after 30S hold time in the 1st 4 hours.



The light keeps 20% brightness when presence is detected in the 2nd 4 hours.



The light keeps 10% brightness when no presence is detected after 30S hold time in the 2nd 4 hours.



The light keeps 10% brightness for 3 hours until sunrise.

The Controller recognizes day and night based on the Solar Array Open Circuit Voltage, this day/night threshold can be modified according to local light conditions and the Solar Array Used, setting range 3.0 ~8.0V

Accessories



Optic lens

High transmittance PC materials,
UV test approval.



Pole mount spigot

ADC12 materials, 15 tilt adjustable, for dia.34/
42/ 60/ 76mm pole



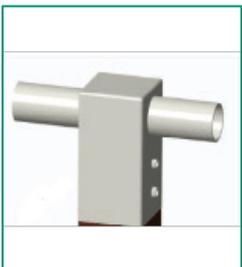
Pole clam bracket

SPCC materials with outdoor powder coating,
can be also the wall mount bracket



Wall mount adaptor

Q235+SPCC materials with outdoor powder coating.



T shape pole mount adaptor

Q235 with Akzo Powder Coating materials, for
100x100mm square pole.



T shape pole mount adaptor

Q235 materials for 60/76mm diameter pole.



L shape pole mount adaptor

Q235 materials, for 100X100mm square pole.



L shape pole mount adaptor

SPCC materials, for 90mm diameter pole.



Remote Controller

Remote Controller for Solar Street light.



L shape pole mount adaptor

SPCC materials, for 60mm diameter pole.