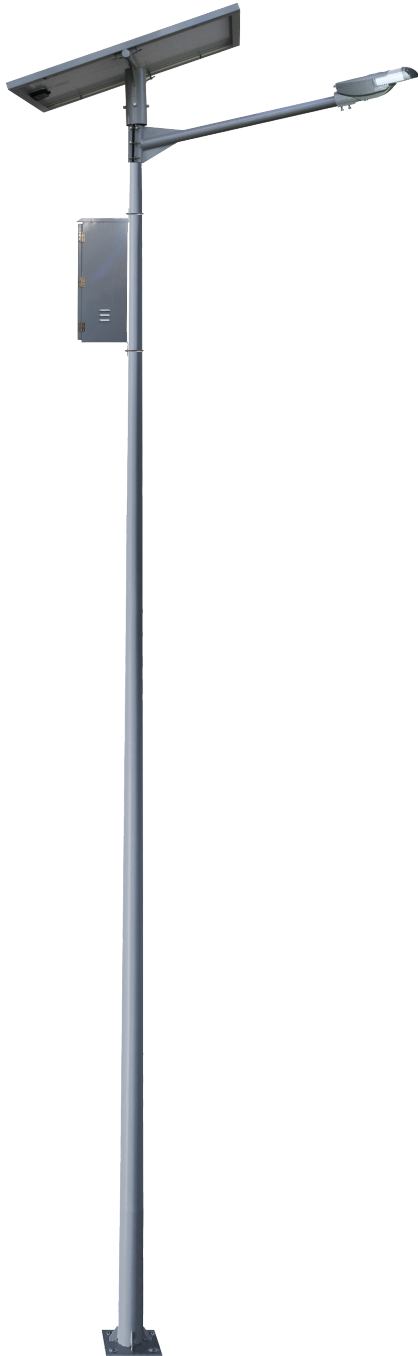




# SL12

Solar Street / Car Park / Area Light  
10W / 15W / 20W LED Lamp - Complete System With Column



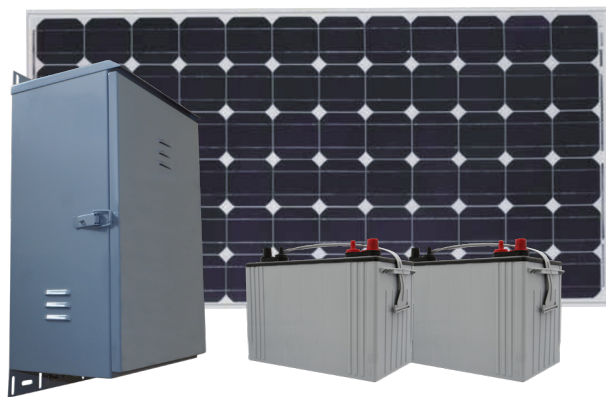
Modular design allows for longer life and greater efficiency.



Philips LUMILEDS® LUXEON T  
Up to 185 lm/W efficacy.



- Sold as a complete lighting system with a choice of column.
- The nightly illumination time can be dusk to dawn all year round or operate using a single or dual timed mode instead. Dimming and motion sensor options available.
- LED power can be 10W, 15W or 20W (1,850~3,700 lumens). Type II, III or V distribution options. Warm white (3,000k) or daylight white (5,500k). Other CCT options by special order.
- Solar panel size (wattage) and battery size (capacity) is determined by the total LED power and the total nightly hours of operation.
- Column height choice of 4m, 5m or 6m. Root mount or flange mount. Flange mount columns are supplied with J-bolt anchors.



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**20 Year\*** Panel Warranty

**Low Price** Guarantee

**1 - 5 Year\*** Product Warranty

**UK & Ireland** Shipping

**Lifetime\*** Tech Support

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## Solar Makes Sense

Using a solar lighting system is often **cheaper than trenching** cables to remote sites or through car parks, under roads, driveways, and footpaths, etc.



**No monthly bills** for electric usage, meter fees, or taxes.

**Renewable energy.** Use the sun's unlimited power as a clean source of renewable energy.



**Green Image.** Let people know your company or organization is doing its part in reducing its reliance on unclean energy.

**Built to suit.** Our systems are supplied with the necessary equipment based on the application requirements, allowing for reliable performance all year-round.



## Purchase with Confidence



Established in 2002 with many years of solar industry experience. We're the experts in providing the right product for the job.



We stand behind our systems, including a 20 year limited warranty on the solar panels supplied with our systems.



We use the highest quality components to assemble systems that are long lasting and reliable.



Technical support is available for life! We'll be here to assist you with support and troubleshooting if the need arises.

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PHILIPS  
LUMILEDS



LUXEON  
never before possible

**DARK SKY  
COMPLIANT LIGHTING**  
Full Cutoff Light Fixture



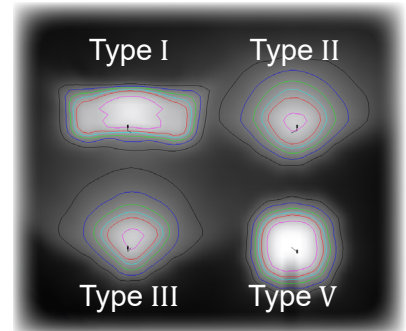
Philips LUMILEDS LUXEON T LED produces up to 185 lumens per Watt efficacy and have a life span typically greater than 100,000 hours of operation.



**20 Watt LED Lamp - Philips LUMILEDS® LUXEON T**  
Provides approx. 3,700 lumens of light output.

**15 Watt LED Lamp - Philips LUMILEDS® LUXEON T**  
Provides approx. 2,775 lumens of light output.

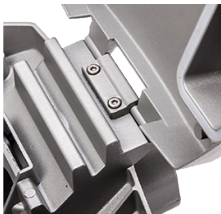
**10 Watt LED Lamp - Philips LUMILEDS® LUXEON T**  
Provides approx. 1,850 lumens of light output.



Each lamp is supplied in one of four different lighting distributions: (Type I, II, III, or V).

The standard power ranges offered can be adjusted using the optional dimming feature of the charge controller. For example 35W lamp can be permanently reduced to 20W, or it can be reduced for a set period of time each evening. The illumination schedule and dimming feature can be customized to work for many different lighting scenarios.

- Configured with one LED module containing 14 Philips LUMILEDS® LUXEON T LEDs each.
- Supplied with 5700K white LED colour temperature. Other color temperatures are available from 2700k to 6500k (warm white to cool white), by special order.
- LED life expectancy is typically up to 100,000 hours or equal to about 22 years.



Easy Access to Driver and Connections



Vented Design for Ideal Heat Dissipation



Supplied with Stainless Steel Hardware



Adjustable Arm from 0°, 10°, or 15° for Increased Projection

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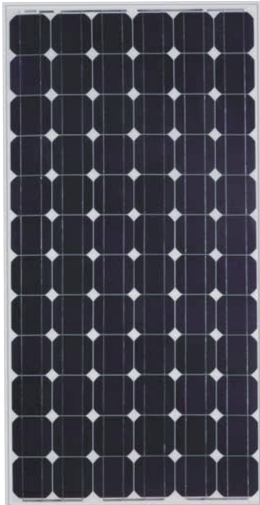
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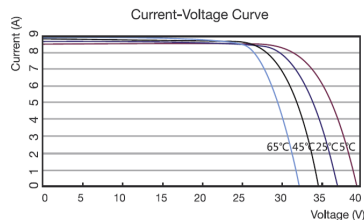
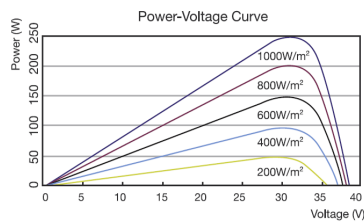
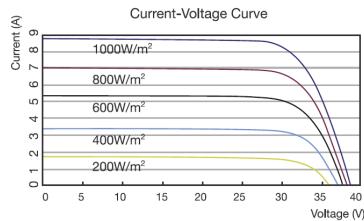
Solar Street / Car Park / Area Light  
10W / 15W / 20W LED Lamp - Complete System With Column



**20**  
YEAR  
GUARANTEE

## Solar Panel

Systems are supplied with high quality monocrystalline or polycrystalline solar panels with the highest performance and efficiency. They are designed to endure the harshest environments, and are guaranteed to provide power for well over 20 years. Typically manufactured in the USA, Canada, or Germany. The solar panel power is subject to LED consumption, installation location, and illumination period. Please consult with our engineers for specific solar power recommendations.



### Photovoltaic Module

- Highly efficient monocrystalline or polycrystalline solar panel with aluminium frame, anti-aging, and encapsulated membrane.
- Standard and bi-facial versions available.
- Anti-reflective and anti-soiling surface that reduces power losses from dirt and dust.
- Certified to withstand high wind loads (340PSI) and snow loads (780PSI); and resistance to high salt and ammonia.
- Manufactured to international standards, verified and certified by independent testing laboratories. (UL, ETL, IEC, MCS, & TUV)
- Assembled to strict quality control standards; international standards ISO 9001 and ISO 14001.
- Range of solar panel power available from 45W to 500W.
- The solar panel power is subject to LED consumption, installation location, and illumination period. Please consult our engineers for specific solar power requirements.
- Solar panels can be supplied in a single or dual format (2 x 70W = 140W, 2 x 100W = 200W etc.)
- Typical solar panel life is over 30 years, subject to environmental factors.



**20 Year\***  
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**Low Price**  
Guarantee

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“We supply batteries that are engineered and tested to provide reliable, long-lasting power for Photovoltaic (PV) and renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable.”



## Battery

- Two, 12 Volt, AGM deep cycle batteries are included.
- We supply quality brands such as Xplorer, Lucas, Yuasa, Leoch, etc.
- GEL or lithium batteries are available as an option.
- Battery capacity ranges from 30 AH up to 300 AH (at 20 HR Rate) subject to model selected and customer operation requirements.
- Typical maximum daily DOD designed around 30%.
- Non-spillable (defined by DOT, ICAO and IATA), valve regulated, NonHAZMAT.
- Conforms to ISO9001, ISO/TS 16949, and ISO14001 standards.
- Typical battery life is approximately 3 to 5 years, subject to environmental factors.

## VRLA Technology

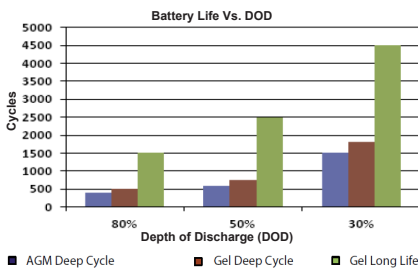
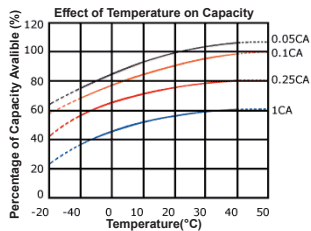
VRLA batteries are maintenance free for life. VRLA stands for Valve Regulated Lead Acid, which means the batteries are sealed. Gas will escape through the safety valves only in case of overcharging or cell failure.

Our AGM and Gel batteries have exceptional discharge recovery, even after deep or prolonged discharge. However, it should be noted that repetitive deep discharge and prolonged deep discharge have a negative influence on the service life of all lead acid batteries.

Gel batteries in general have a longer service life and better cycle capacity than AGM batteries.

Please Note: The rated capacity of our AGM or Gel Deep Cycle batteries refers to 20 hour discharge rate (i.e. 0.05CA). Most products actually operate near or at a 100 hour discharge rate (i.e. 0.01CA) and thus actual available battery capacity is slightly higher than the advertised rate.

The total available battery power is measured in watt-hour (Wh) or V\*Ah. When comparing our total battery capacity with other systems, please note that the battery capacity from a 12V system is not interchangeable with the battery capacity of a 24V system. However, the total battery power (i.e. watt-hours) is always comparable provided the correct system voltage is considered during calculation.



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# SL12

## Solar Street / Car Park / Area Light

### 10W / 15W / 20W LED Lamp - Complete System With Column



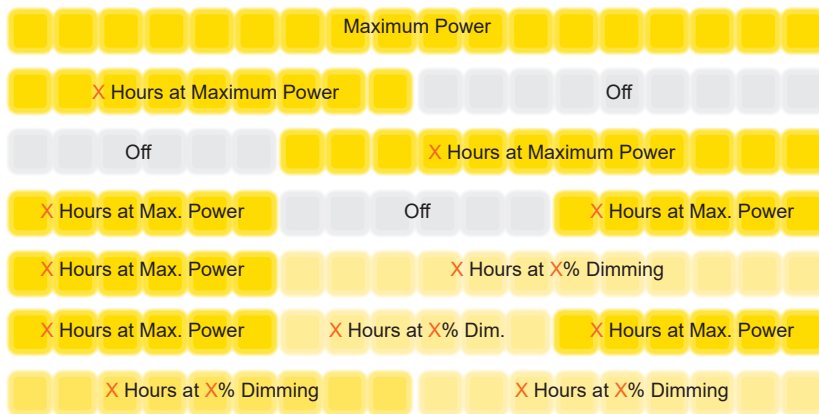
### Maximum Power Point Tracking

Supplied standard with the most advanced and sophisticated MPPT charge controller technology. Allowing for full system programmability and light control; including active dimming and intelligent battery management. MPPT technology increases power generation by up to 30% during inclement periods, and intelligent battery management provides extended battery life and extra protection against excessive discharge.

### MPPT Control Module

- The MPPT controller will improve energy harvest by up to 30% compared to PWM charge controllers. Especially in the case of cold cloudy winter weather, when light intensity is changing continuously.
- Offers full programmability of load output: dusk to dawn, multi-timed mode, and integrated dimming (all standard features).
- Intelligent battery management software is used to protect the battery from being excessively discharged. The controller will monitor the state of charge on the battery, and if needed, day by day slightly increase the load disconnect level (i. e. disconnect the load earlier) until the harvested solar energy is sufficient to recharge the battery to nearly the full 100% at least once a week. Allowing for the longest life possible from the batteries.
- Controller size and ratings are subject to solar panel and battery specifications.
- \*Supports real time data monitoring, 30 day performance history, and user programmability from Apple or Android smartphones, tablets, etc. Use of this feature requires the optional MPPT Bluetooth Dongle.

The comprehensive light control system allows for extensive configuration, including dynamic activation and optional dimming. Lighting activation is controlled by the charge controller and solar panel. Dimming of the luminaire is adjusted by percentage, i.e 100% is equal to full power, 50% is equal to half power, etc.



\*Real time data monitoring, 30 day performance history, and user programmability from Apple or Android smartphones.

\*Our lighting control options are very configurable and not all options are listed. If you require a specific control operation not listed please contact one of our engineers to see if it's possible.

\*\*A midnight feature is available as a timed operation perimeter. Midnight is determined by calculating the middle of the night and does not necessarily mean 12AM (although it will be close); it also can be adjusted earlier or later X amount of hours.

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## Performance

Operating voltage is 24 Volts. DC.

LED power 10, 15, or 20 watts (subject to model selected).

Operating temperature -40 deg. C ~ +80 deg. C (-40 deg. F ~ 175 deg. F).

Intelligent battery management software to prevent over-charging and over-discharging.

Includes a minimum of three to five days of autonomy (battery back-up).

Several successive cloudy or alternating overcast days typically will not affect illumination time.

Supplied solar panel power is based on installation location and system requirements.

Illumination period can be designed to meet specific requirements.

## Hardware & Column

### Battery Enclosure

- Galvanized steel lockable battery box will accommodate the rechargeable batteries. (Padlock not included.)
- The battery enclosure can be mounted on to the column or located at the base of the pole depending installation preference and battery capacity.
- For battery selections larger than 100Ah the battery enclosure must be located at the base of the column.
- The battery box has pre-drilled holes to enable secure installation to a concrete pad.
- For column mounting, the battery enclosure includes mounting plates with slots for U-bolts or Stainless Steel Banding.
- Top of column or side of column solar panel mounting options.
- Silver/gray color finish. Custom colors by special order.

### Arm

- Arm Galvanized steel arm accommodates the luminaire.
- Attaches directly to the light column.
- Choice of arm length available.
- Can be attached in any direction and at a choice of height on the column.
- Silver/gray color finish. Custom colors by special order only.

### Column

- Column choice of 4m, 5m or 6m column is available.
- Choice of root mount (direct burial) or flange mount (surface) type base.
- Standard columns are galvanised steel, tubular and with a 76mm, 89mm, or 114mm diameter top.
- The root mount column is supplied with an additional 750mm to 1000mm for burial.
- The flange mount column is supplied with an anchor kit and template.
- Heavier duty columns of 89mm and 114mm diameter are available by special order and at extra cost.
- A heavier duty column will be required for high wind zones areas and when larger solar panels are specified for the system.
- Other column heights are available by special order. Coloured painted or



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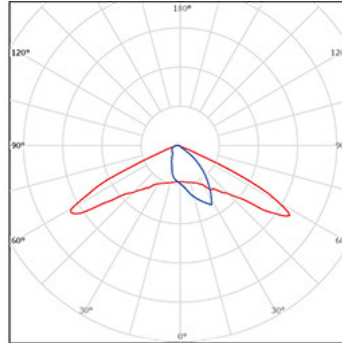
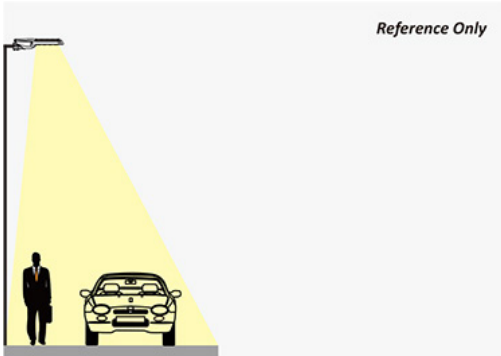
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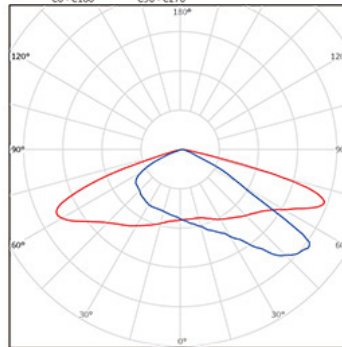
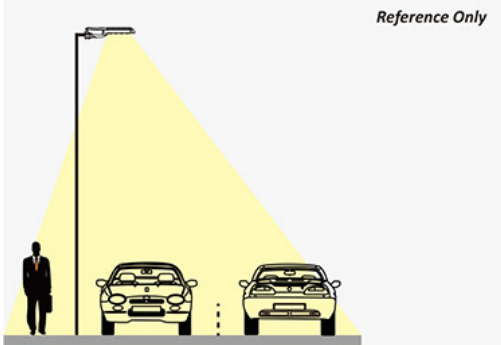
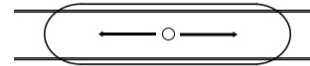
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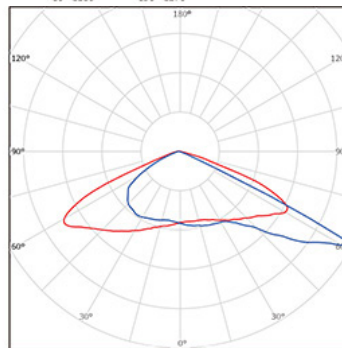
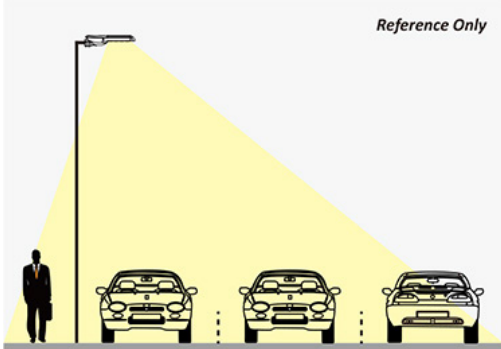
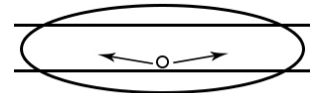
## Type I

**Applications:**  
Narrow Roadways  
Pathways/sidewalks  
Single-track / One-Lane Roads



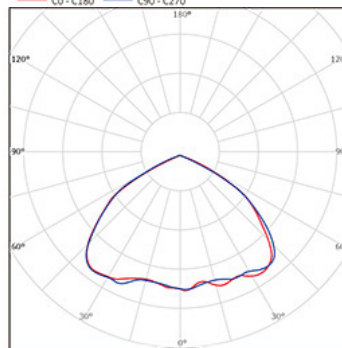
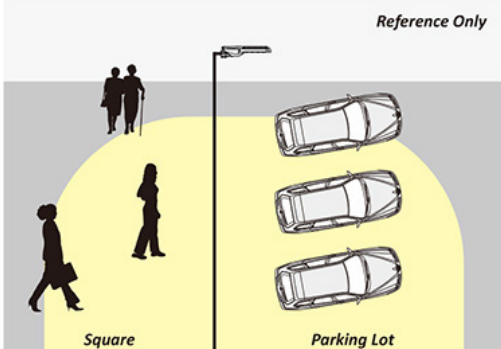
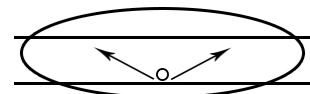
## Type II

**Applications:**  
Urban Roadways  
Pathways/sidewalks  
Two-lane Expressway



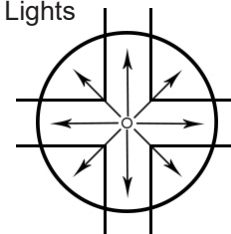
## Type III

**Applications:**  
Highway  
Parking Lots  
Multi-lane Expressway



## Type V

**Applications:**  
Parking Lots  
Area Lights



20 Year<sup>+</sup> Panel Warranty ✓

Low Price Guarantee ✓

1 - 5 Year<sup>+</sup> Product Warranty ✓

UK & Ireland Shipping ✓

Lifetime<sup>+</sup> Tech Support ✓

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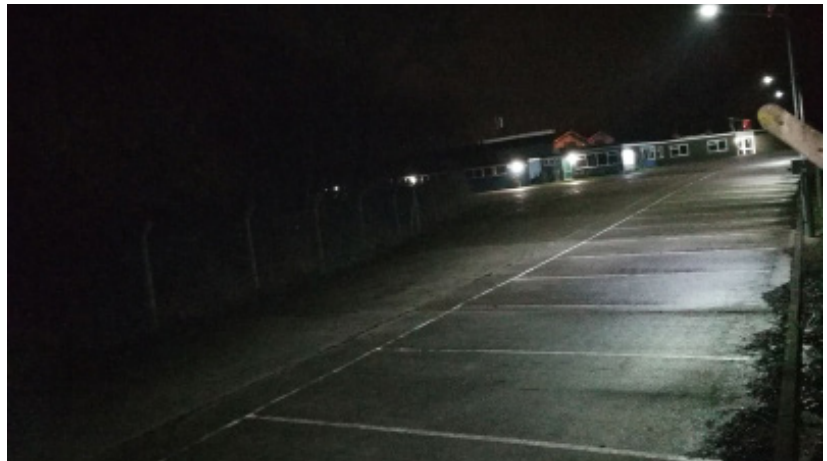
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