

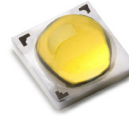


SL10

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



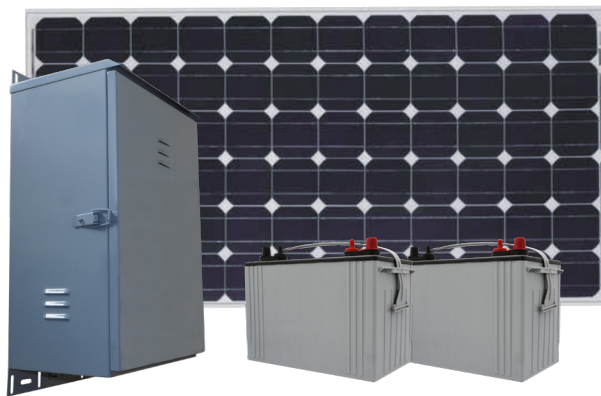
Modular design allows for longer life and greater efficiency.



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



- Sold as a complete system excluding a column. Ideal for retro-fit applications with an existing column or where a suitable column is sourced elsewhere. Select our model SL12 if a column is required.
- Pre-programmed for automatic dusk to dawn illumination all year round or a single or dual timed mode instead. Dimming and motion sensor operation are optional.
- LED power is 10W, 15W or 20W (1,850~3,700 lumens). Type II, III or V distribution. Colour temperature choices are 3,000k (warm white) or 5,500k (daylight white). Other CCT options by special order.
- The solar panel size (wattage) and battery size (capacity) is determined by the total LED power required and the total hours of nightly operation.
- Top of column or side of column solar panel mounting hardware options available.



One Year*
Warranty ✓

Low Price
Guarantee ✓

No Quibble*
Returns ✓

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



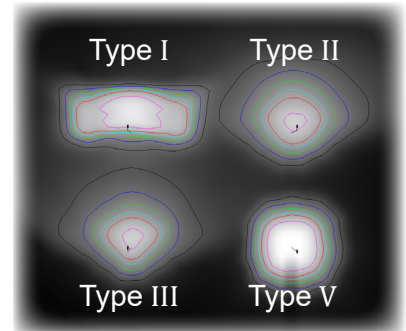
Philips LUMILEDS LUXEON T LED emitters produce up to 185 lumens per Watt efficacy and have a life span greater than 100,000 hours of operation.



20 Watt LED Lamp - Philips LUMILEDS® LUXEON T
Provides approx. 3,750 lumens of light output.

15 Watt LED Lamp - Philips LUMILEDS® LUXEON T
Provides approx. 2,700 lumens of light output.

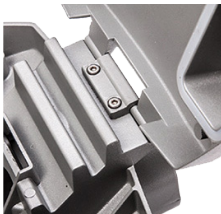
10 Watt LED Lamp - Philips LUMILEDS® LUXEON T
Provides approx. 1,850 lumens of light output.



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

The standard power ranges above can be adjusted using the integrated dimming feature of our MPPT Control Module. For example, we can take our standard 20W Lamp and dim it down to 10W for a few hours each night or permanently depending on your requirements. We have full control over the power of our fixtures and the programmability of our system allowing us to design and specify our systems for any application in the United Kingdom or around the world.

- Configured with one LED module containing 14 Philips LUMILEDS® LUXEON T LEDs each.
- Choice of LED colour temperature (3,000k warm white or 5,500K daylight white).
- LED life expectancy is typically up to 100,000 hours or equal to about 22 years.
- LEDs are powered by integrated drivers with PWM Dimming control and multi-driver redundancy.



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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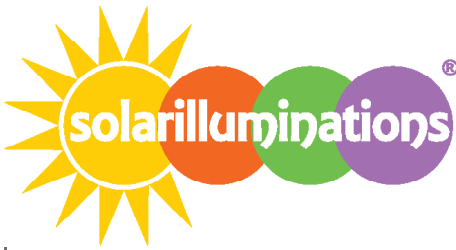
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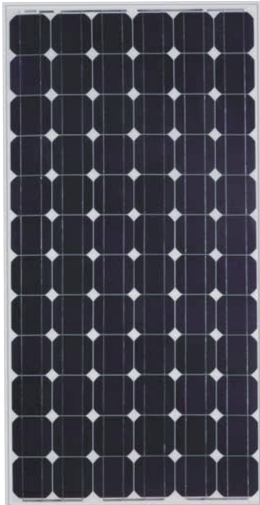
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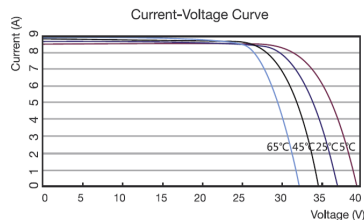
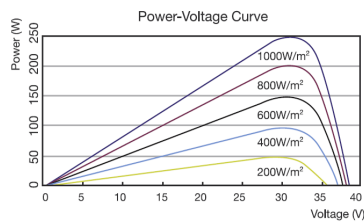
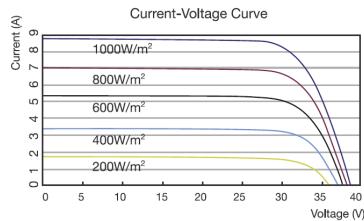
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20
YEAR
GUARANTEE

Solar Panel

Our systems are supplied with high quality solar panels that produce the highest performance and efficiency. Designed to endure the harshest of environments and are guaranteed to power for well over 20 years. These solar panels will withstand the test of time. Typically manufactured in the USA, Canada, or Germany. *Solar panel size and power required depends greatly on the installation location and customer's requirements. Please consult our engineers for specific solar power recommendations.



Photovoltaic Module

- Highly efficient monocrystalline or polycrystalline solar panel with aluminum frame, anti-aging, and encapsulated membrane.
- Standard and bi-facial versions available.
- Anti-reflective and anti-soiling surface 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, TÜV)
- Assembled to strict quality control standards; international standards ISO 9001 and ISO 14001.
- The solar panel size and power required depends greatly on the installation location and customer's requirements, please consult our engineers for specific solar power requirements.
- Range of solar panel power available from 45W to +180W.
- Solar panels can be supplied in a single or dual format (2 x 70W = 140W, 2 x 90W = 180W etc.)
- Typical solar panel life is approximately 25-30 years, subject to environmental factors.



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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

- Supplied with two 12 Volt AGM deep cycle batteries.
- High quality, brand names (e.g. Yuasa, Lucas, Leoch, Xplorer, 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 5 years, subject to environmental factors.

VRLA Technology

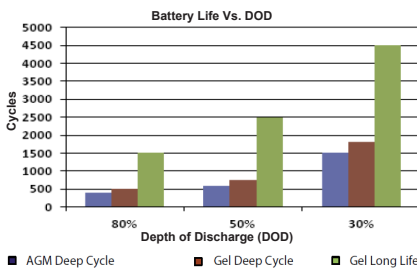
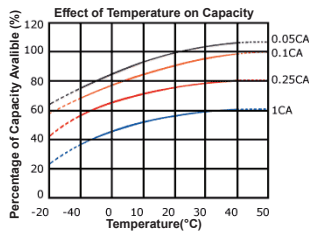
VRLA batteries are maintenance free for life. VRLA stands for Valve Regulated Lead Acid, which means the batteries are sealed. Gas will escape through the safety valves only in case of overcharging or cell failure.

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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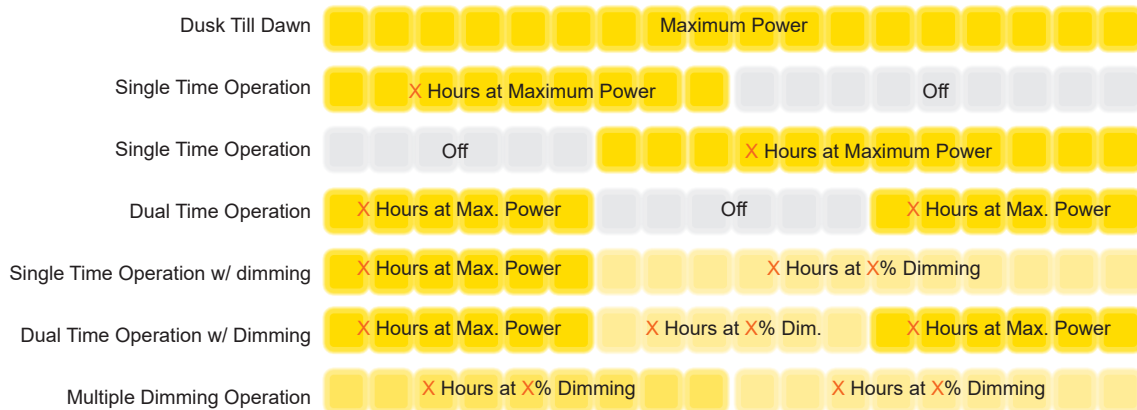
Maximum Power Point Tracking

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

- An 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.
- Our MPPT controller offers full programmability of load output, with 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 of 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 from Apple or Android smartphones, tablets, and other devices. Additional components maybe required.

Our comprehensive light control system allows extensive configuration, including dynamic activation and optional dimming of most of our lighting. All lighting activation for sunset applications is controlled with the MPPT charge controller and solar panel. Dimming of the light fixture is done by percentage, i.e 100% is equal to full power, 50% is equal to half power, and so forth.



*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 options are 10W, 15W or 20W (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 up to several days of autonomy (battery back-up).

Several successive cloudy or alternating overcast days typically should 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 on 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. (U-bolts and Stainless Steel Banding is not included.)
- Silver/gray color finish. Custom colors by special order.

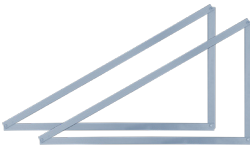


Arm

- 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.

Solar Panel Hardware

- Supplied with a choice of top mount column mount hardware, side mount column mount hardware, or basic surface mount hardware.



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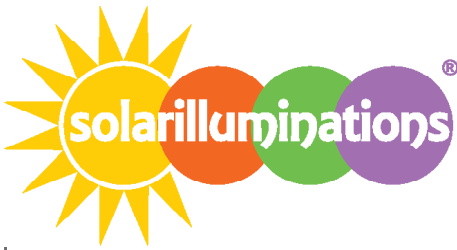
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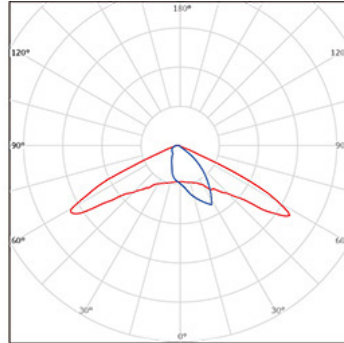
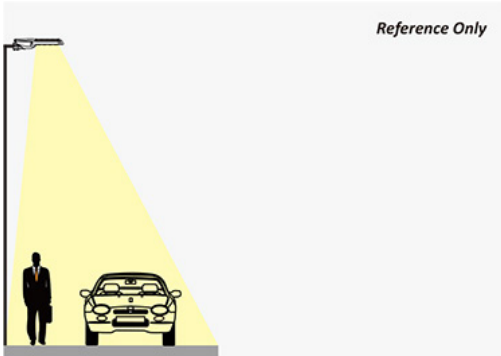
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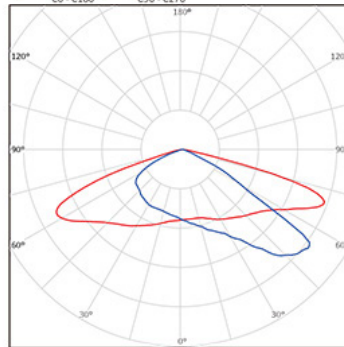
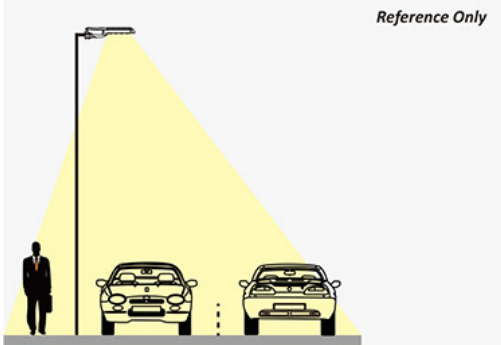
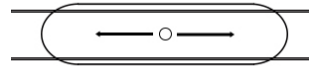
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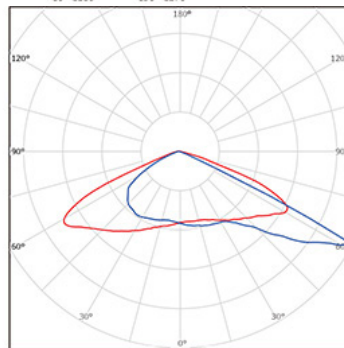
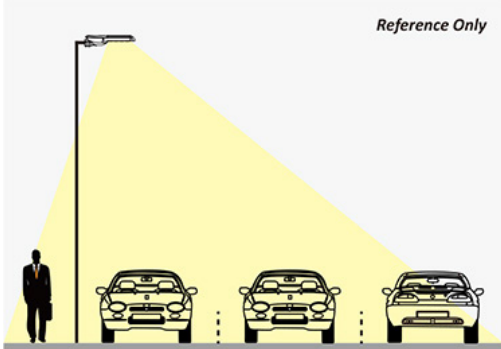
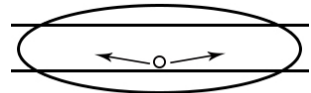
Type I

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



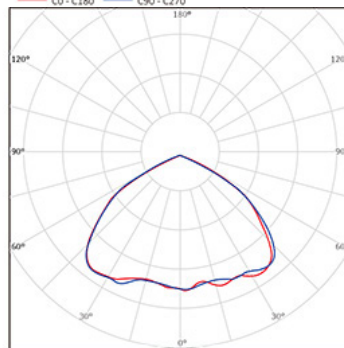
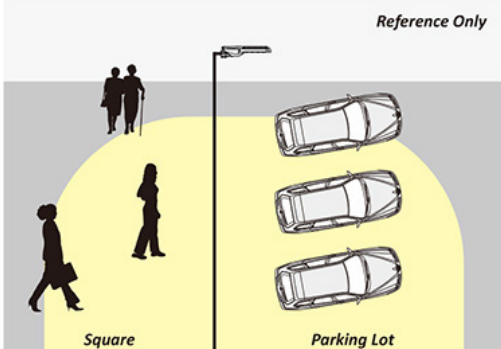
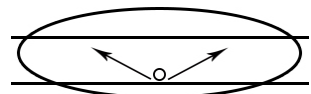
Type II

Applications:
Urban Roadways
Pathways/sidewalks
Two-lane Expressway



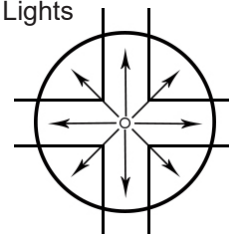
Type III

Applications:
Highway
Parking Lots
Multi-lane Expressway



Type V

Applications:
Parking Lots
Area Lights



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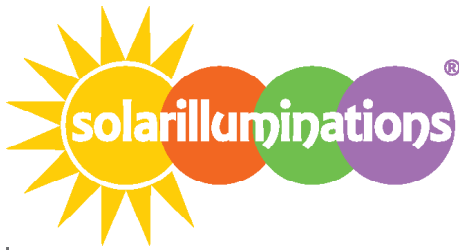
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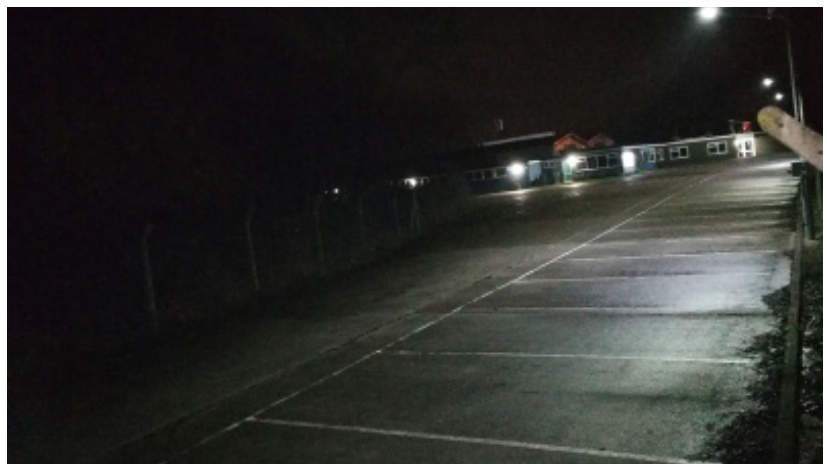
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