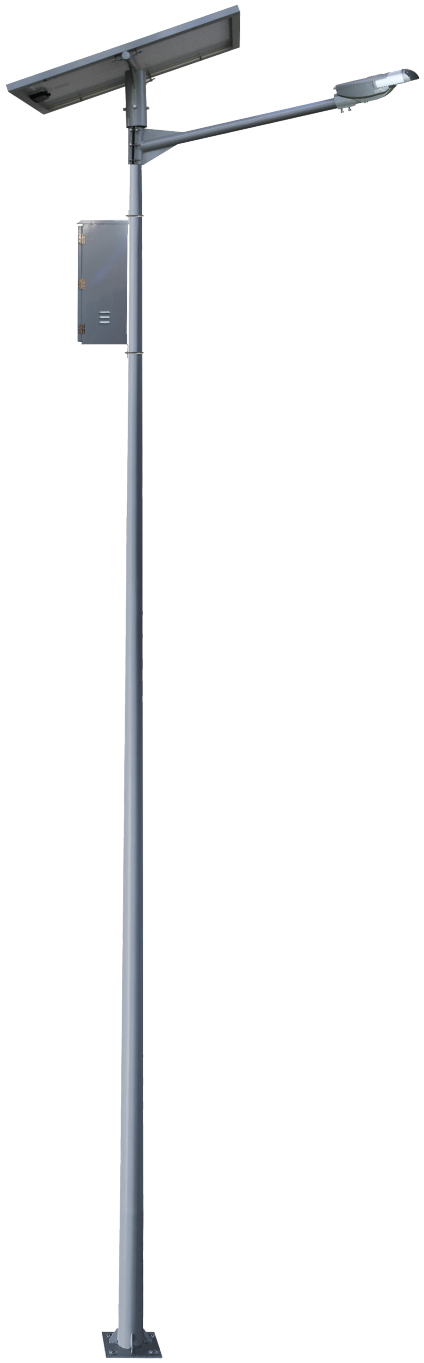
SL12

Solar Street / Car Park / Area Light

10W / 15W / 20W / 25W LED Lamp - Complete System With Column



Choice of Root Mount or Flange Mount Column



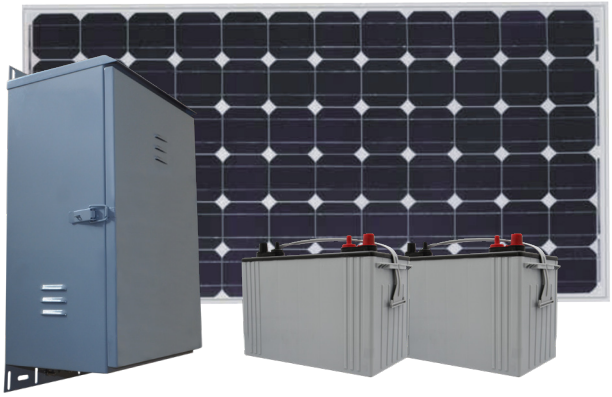


Modular design allows for longer life and greater efficiency.



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

- Sold as a complete, engineered, fully bespoke or semi bespoke lighting system with a choice of column and LED power, etc.
- The nightly illumination time can be dusk to dawn, all year round, at 100% output, or operate using a single or dual timed mode instead.
- Dimming and motion sensor options available.
- LED power can be 10W, 15W, 20W or 25W (1,850~4,625 lumens). Type II, III or V distribution options. Warm white (2,700~3,000k) 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 3M, 4M, 5M or 6M. Root mount or flange mount. Flange mount columns are supplied with J-bolt anchors.



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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 suns 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.



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

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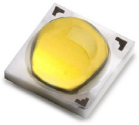
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PHILIPS LUMILEDS



LUXEON never before possible

DARK SKY
COMPLIANT LIGHTING
Full Cut-Off Light Fixture
BUG Rated



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.

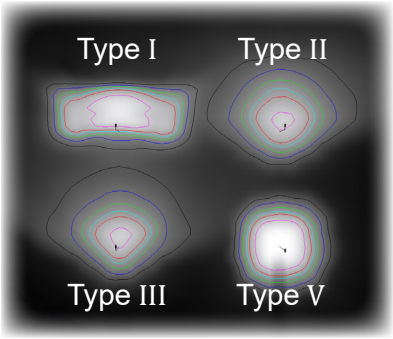


25 Watt LED Lamp - Philips LUMILEDS® LUXEON T
Provides approx. 4,625 lumens

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

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

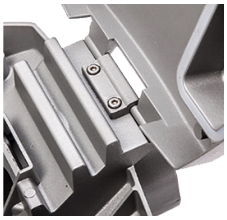
10 Watt LED Lamp - Philips LUMILEDS® LUXEON T
Provides approx. 1,850 lumens



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 25W lamp can be permanently reduced to 15W, 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 2,700k to 6,500k (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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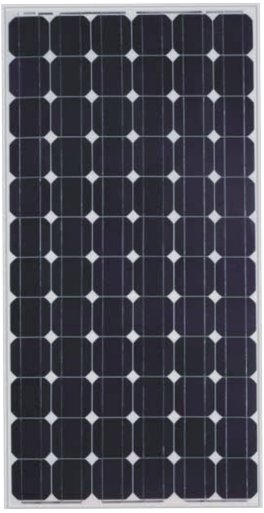
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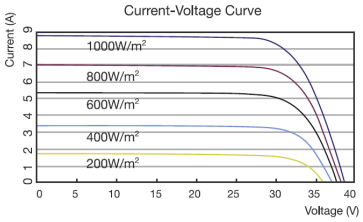
10W / 15W / 20W / 25W LED Lamp - Complete System With Column

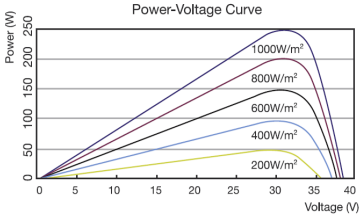


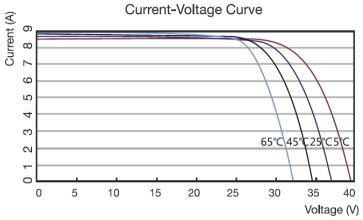
20 YEAR GUARANTEE

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 avalible 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.

c UL US LISTED

TÜV SÜD Production monitored Safety tested

c ETL US LISTED Intertek

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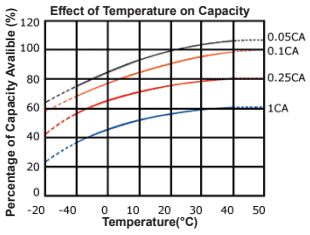
"We supply batteries that are engineered and tested to provide reliable, long-lasting power for Photovoltaic (PV) and renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable."

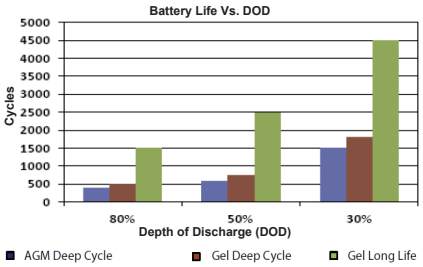
UL Recognized Component



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 not to exceed 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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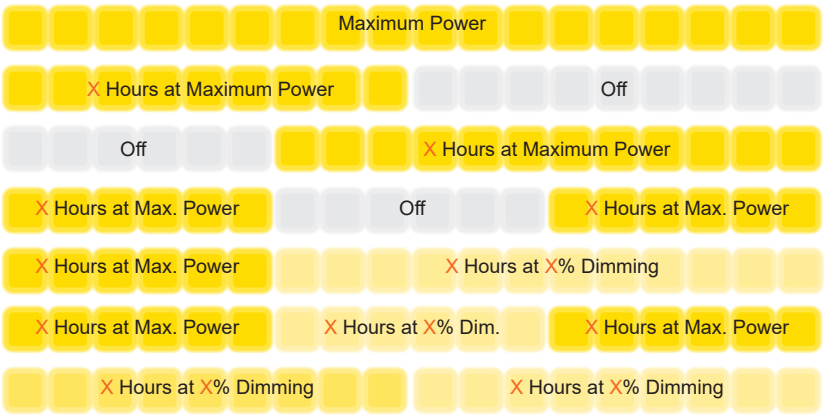
Maximum Power Point Tracking

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

- 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 diming (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, 20 or 25 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 should not affect illumination time.
Supplied solar panel power is based on installation location and system requirements.
Illumination time(s) can be preprogrammed 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.
- Typically, 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 (SOP) solar panel mounting options.
- Silver/grey coloured finish. Custom colours 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/grey coloured finish. Custom colours by special order.

Column

- Column choice of 3M, 4M, 5M or 6M column heights 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 OD (main upper section).
- The root mount column is supplied with an additional 750mm to 1,000mm for direct burial.
- The flange mount column is suplied 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 powder coated finishes are available by special order.

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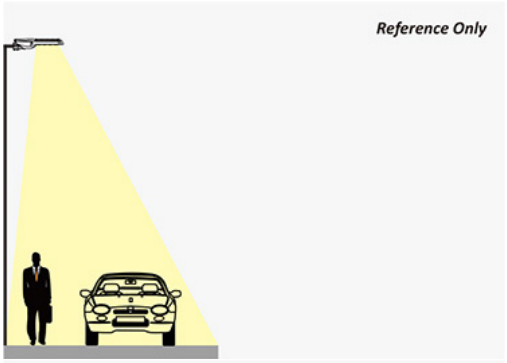
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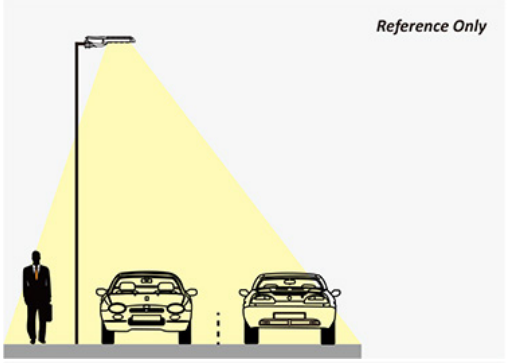
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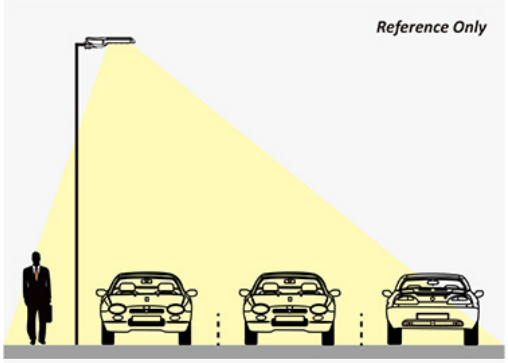
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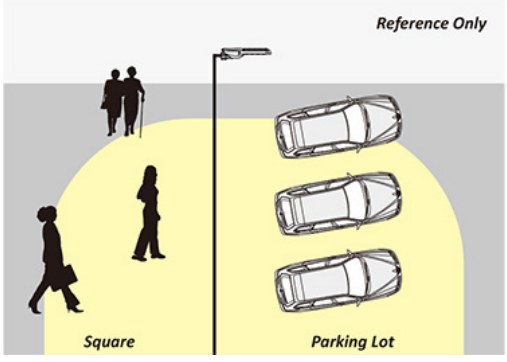
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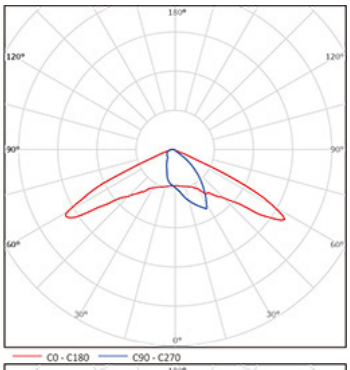
10W / 15W / 20W / 25W LED Lamp - Complete System With Column





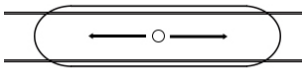


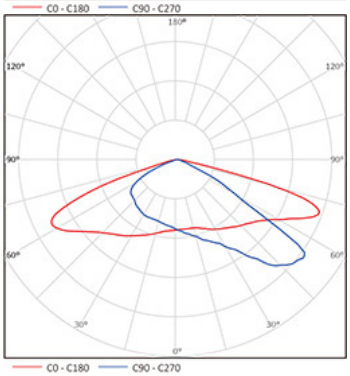




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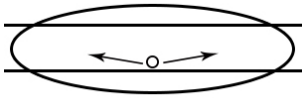
Applications:
Narrow Roadways
Pathways/sidewalks
Single-track / One-Lane Roads

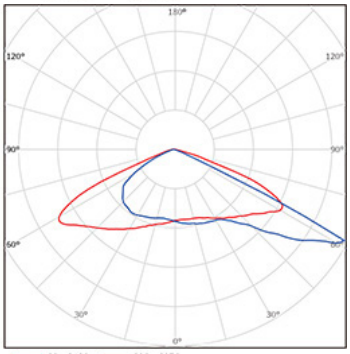




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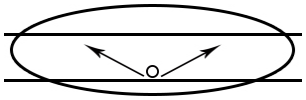
Applications:
Urban Roadways
Pathsways/sidewalks
Two-lane Expressway

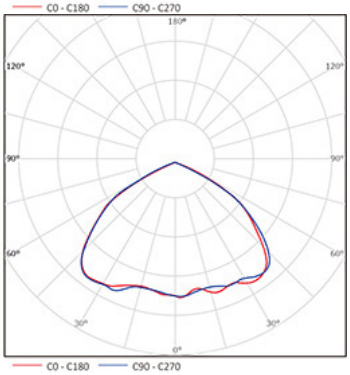




Type III

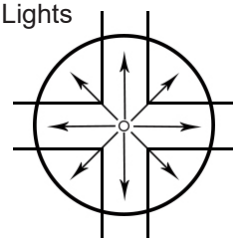
Applications:
Highway
Parking Lots
Multi-lane Expressway





Type V

Applications:
Parking Lots
Area Lights



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