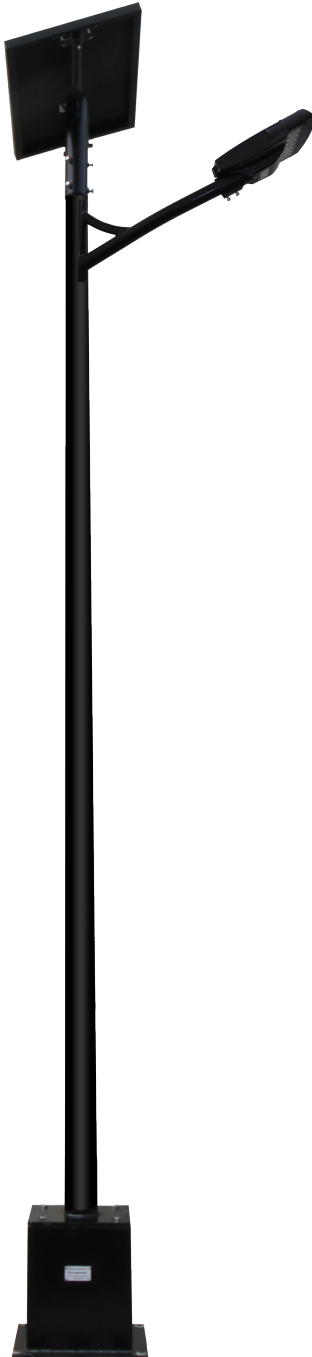




## SL45 SOLAR LED STREET / PARKING LOT / AREA LIGHT 10W to 35W LED Power



Modular design allows for longer life and greater efficiency.



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



- Sold as a complete lighting system.
- Nightly Illumination time options are singled timed mode, dual timed mode, or dusk to dawn subject to the project requirements, LED power, and site location, etc.
- LED power available from 10W to 35W.
- Optional motion sensor and dimming options are available.
- Light output from 1,850 to 6,475 lumens.
- Type I, II, III and V distribution available.
- Solar panel wattage and battery capacity specifications are based on the LED power, site location, and operating times.
- Standard pole height is 15' (4.5M). Total assembled height is aprox. 17' (5.1M) when mounted on battery enclosure.



**Lowest Price\***  
Guarantee

**20 Year\***  
Panel Warranty

**5 Year\***  
Product Warranty

**Lifetime\***  
Tech Support

**Worldwide\***  
Shipping

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## SL45 SOLAR LED STREET / PARKING LOT / AREA LIGHT 10W to 35W LED Power



**PHILIPS**  
LUMILEDS



LUXEON  
never before possible

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



Philips LUMILEDS LUXEON T LED module provides up to 185 lumens per Watt (lm/W) efficiency and has a typical life span greater than 100,000 hours of operation.

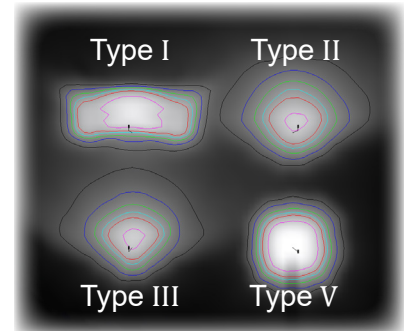
**30 Watt LED Lamp - Philips LUMILEDS® LUXEON T**  
Provides approx. 5,550 lumens of light output.

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

**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.

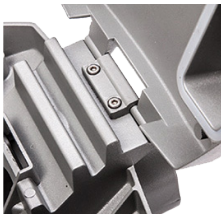
**10 Watt LED Lamp - Philips LUMILEDS® LUXEON T**  
Provides approx. 1,850 lumens of light output.



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 25W lamp can be permanently reduced to 15W, or it can be temporarily reduced for a set period of time each evening. The illumination schedule, program modes, and dimming feature can be customized to operate as required and meet the needs of the application.

- Configured with one LED module containing 14 high power Philips LUMILEDS® LUXEON T LEDs.
- LED color is white (5,500K). Other color temperatures (3,000k~6,500k) available by special order.
- LED life expectancy is typically up to 100,000 hours which is equal to about 22 years.
- LEDs are powered by 24V DC ~ 24V DC drivers, with integrated PWM dimming control option.
- Full cut-off LED optics for Dark Sky compliance.



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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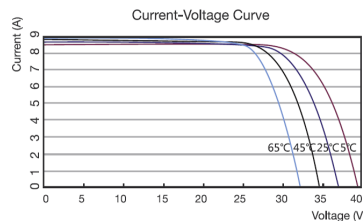
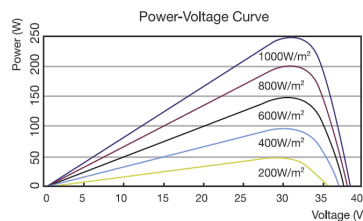
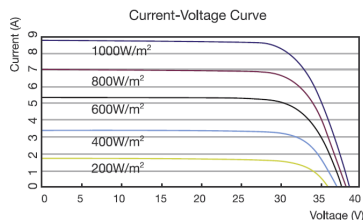
## SL45 SOLAR LED STREET / PARKING LOT / AREA LIGHT 10W to 35W LED Power



### 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.

### MC4 Connector



### Photovoltaic Module

- Highly efficient monocrystalline or polycrystalline solar panel with aluminum frame, anti-aging, and encapsulated membrane.
- 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 180W.
- 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.



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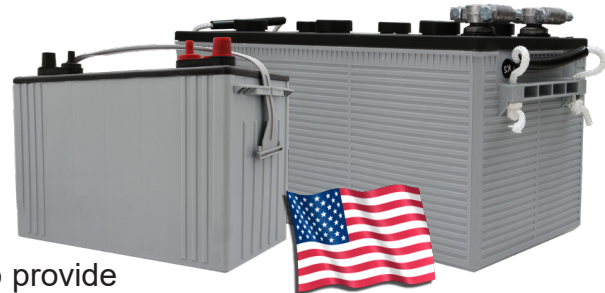
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## SL45 SOLAR LED STREET / PARKING LOT / AREA LIGHT 10W to 35W LED Power



"EastPenn batteries 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."

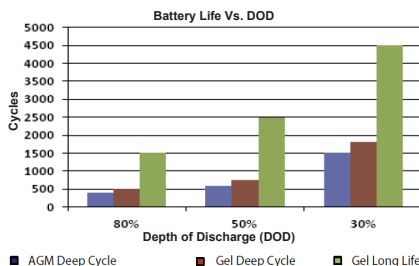
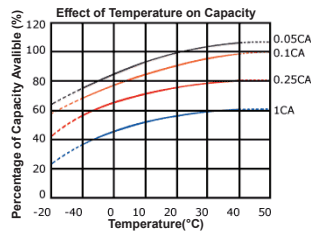


Made in the USA



### Battery

- Manufactured by: East Penn Manufacturing Co. Inc.
- 100% made in the USA.
- System supplied standard with two 12 Volt batteries. Batteries are wired in series to make a 24 Volt system.
- Available battery capacities range from 18Ah to 55Ah (per battery).
- Choice of two battery types: Absorbed Glass Mat (AGM) or Gel Cell.
- Please consult our engineers for specific battery capacity requirements.
- Classified as Non-spillable (defined by DOT, ICAO and IATA), NonHAZMAT, and valve regulate.
- Conforms to ISO9001, ISO/TS 16949, and ISO14001 standards.
- Typical battery life is approximately 5 to 7 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 only escape through the safety valves in the case of overcharging or cell failure.

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 refer 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 competitor's, 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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## SL45 SOLAR LED STREET / PARKING LOT / AREA LIGHT 10W to 35W LED Power



### 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.

Dusk Till Dawn	Maximum Power
Single Time Operation	X Hours at Maximum Power
Single Time Operation	Off
Dual Time Operation	X Hours at Max. Power
Single Time Operation w/ dimming	X Hours at Max. Power
Dual Time Operation w/ Dimming	X Hours at Max. Power
Multiple Dimming Operation	X Hours at X% Dimming

\*The lighting control options are variable, and not all options are listed. If you require a specific control operation not listed, please contact one of our engineers to verify feasibility.

\*\*A midnight feature is available as a timed operation parameter. 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 by X number of hours.



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



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## SL45 SOLAR LED STREET / PARKING LOT / AREA LIGHT 10W to 35W LED Power

### Performance

Operating voltage is 24 volts. DC.  
Power consumption is 10, 15, 20, 25, or 30 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 overcast days typically should not affect illumination time.  
Supplied solar panel power is based on installation location and system requirements.  
Illumination times and operating modes can be designed to meet specific requirements.

### Hardware & Pole

#### Battery Enclosure

- Galvanized steel lockable battery enclosure will accommodate the rechargeable batteries and charge controller (padlock not included.)
- Battery enclosure dimensions are approx. 14" x 14" 17" (35cm x 35cm x 43cm)
- Battery enclosure footprint is approx. 17" 3/4 x 17" 3/4 (45cm x 45cm)
- The battery box has pre-drilled holes to enable secure installation to a concrete pad.
- Anchor bolts and two templates are included.
- Power cables for lamp, solar panel, and batteries are included.

#### Arm

- Includes painted galvanized light arm, which attaches to the street light pole.
- Satin black color finish. Custom colors by special order only.

#### Pole

- The painted galvanized steel pole height is approx. 15' (4.5 metres).
- The pole attaches to battery box enclosure and the solar panel support frame attaches to top of pole.
- Total height is 17' when mounted on battery enclosure.
- Pole has a square flat base (flat plate) with pre-drilled holes for bolting directly to the battery box cabinet.
- Solar panel angle and direction can be adjusted to suite installation location.
- Black color finish. Custom colors by special order only.
- Custom poles to meet specific requirements can be arranged.
- The location, wind factor and ground condition will affect the size of the foundation required.



**Lowest Price\*** **20 Year\*** **5 Year\*** **Lifetime\*** **Worldwide\***

Guarantee Panel Warranty Product Warranty Tech Support Shipping

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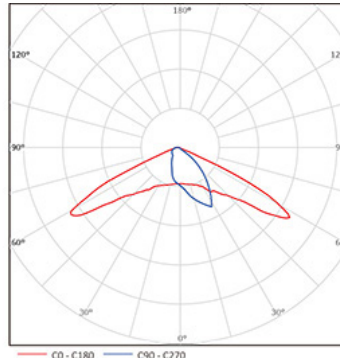
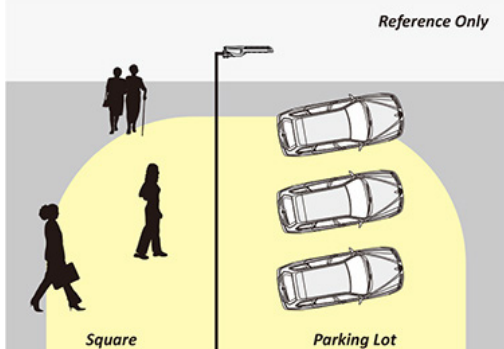
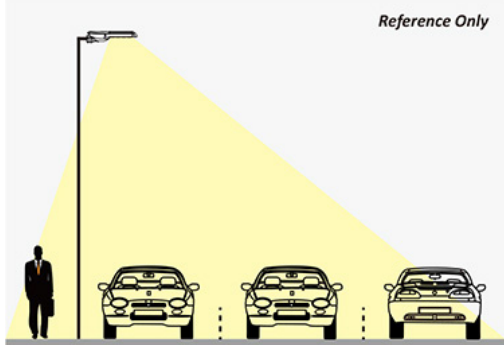
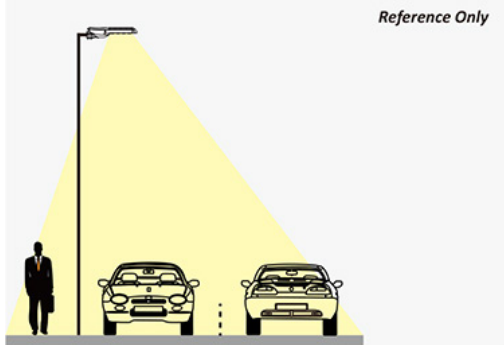
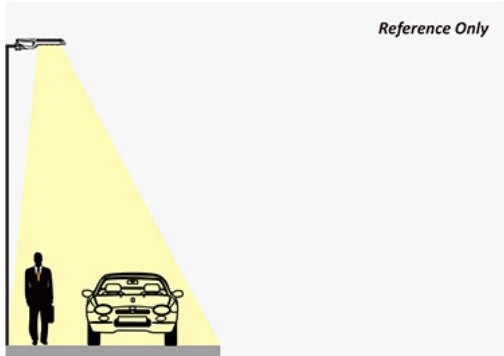
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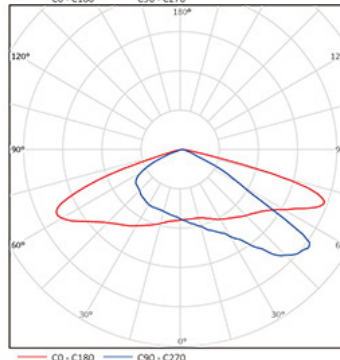
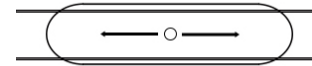
# SL45 SOLAR LED STREET / PARKING LOT / AREA LIGHT 10W to 35W LED Power



## Type I

### Applications:

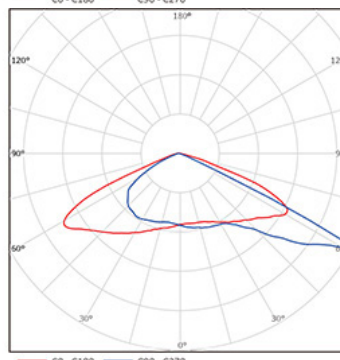
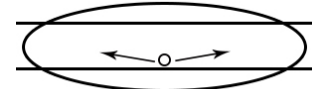
Narrow Roadways  
Pathways/sidewalks  
Single-track / One-Lane Roads



## Type II

### Applications:

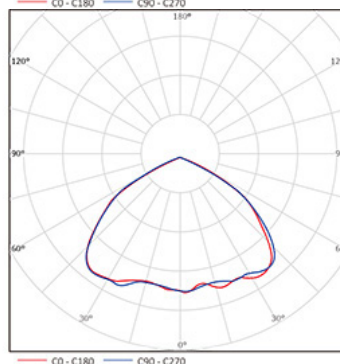
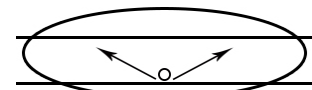
Urban Roadways  
Pathways/sidewalks  
Two-lane Expressway



## Type III

### Applications:

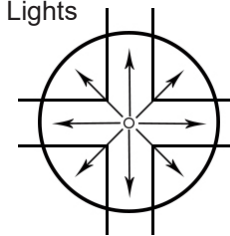
Highway  
Parking Lots  
Multi-lane Expressway



## Type V

### Applications:

Parking Lots  
Area Lights



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