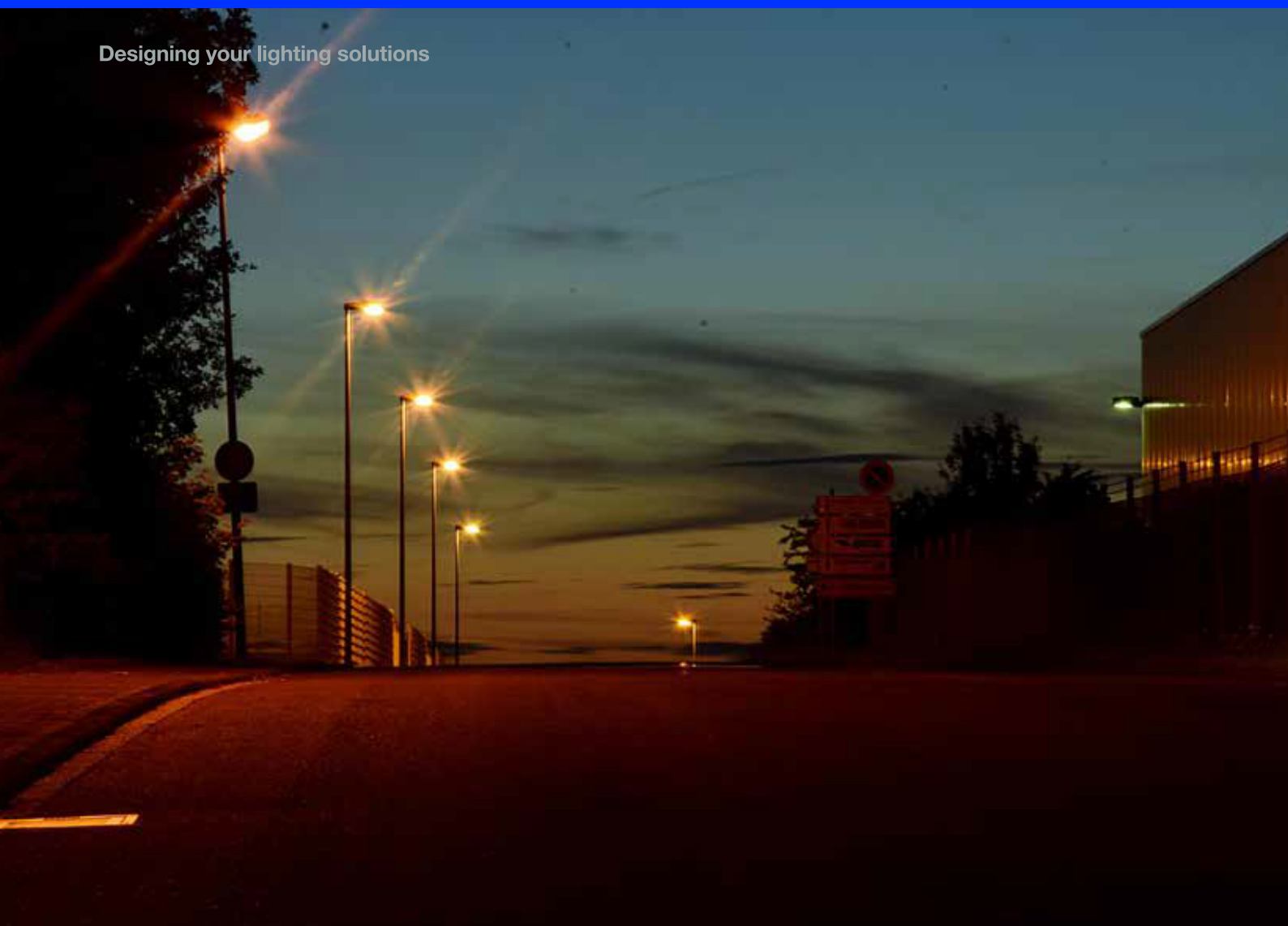




Solar Street lighting

Designing your lighting solutions



Solar Street Lights



Aurora Split Solar
Street Lights
p. 06



Aurora All-in-One
Solar Street Lights
p. 10



Atria Solar Street
Lights
p. 12



Mira Solar Street
Lights
p. 14



Gemma Solar Street
Lights
p. 16



Orion Solar Park
Lights
p. 18



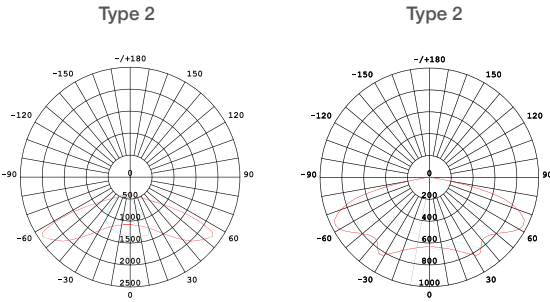
LED Solar Park & Street Lights

Energy efficiency through
innovative design.

Aurora Split Solar Street Light Series



Light Distribution Diagram



Dimensions

1Module L:845mm * W:340mm * H:115mm
2Module L:700mm * W:270mm * H:115mm

| Specifications | | Features & Certificates | |
|-----------------------|----------------------------|--|--|
| Driver Brand | / | <div><div>3yrs Warranty</div><div>IP66</div><div>IK08</div><div>CE</div><div>RoHS</div><div>160Lm/W</div><div></div></div> | |
| LED Chip | Philips 3030 | | |
| Operating Temperature | -10°C ~ +60°C | | |
| Smart Control Options | MPPT Solar controller | | |
| Material | / | | |
| Color | Silver Grey | | |
| Installation Options | Suspended, Pole mounted | | |
| IES Files | Available | | |

Available Accessories

- Lithium Iron Phosphate Battery included

Extra Features

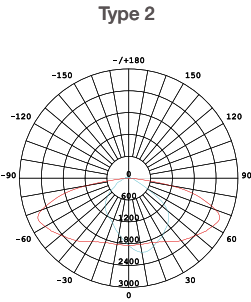
- Installation pipe diameter: 60mm

| Product Parameter | | | | | | | |
|-------------------|-------|---------|-------|-----------------------|-----|------------|---------|
| Item No. | Power | Voltage | PF | CCT | CRI | Beam Angle | Lm/W |
| 847753 | 20W | DC12V | >0.95 | 3000K/4000K/ 6500K | >70 | Type 2 | 160Lm/W |
| 847756 | 30W | | | | | | |
| 847760 | 40W | | | | | | |
| 847766 | 50W | | | | | | |
| 847772 | 60W | | | | | | |
| 847761 | 40W | | | | | | |
| 847767 | 50W | | | | | | |
| 847773 | 60W | | | | | | |
| 847778 | 80W | | | | | | |
| 847784 | 100W | | | | | | |
| 847790 | 120W | | | | | | |

Aurora Split Solar Street Light Series










Light Distribution Diagram



Dimensions



L:700mm * W:270mm * H:115mm

| Specifications | | Features & Certificates | |
|-----------------------|----------------------------|---|--|
| Driver Brand | / |  |  |
| LED Chip | Philips 3030 |  | |
| Operating Temperature | -10°C ~ +60°C |  |  |
| Smart Control Options | MPPT Solar controller |  | |
| Material | / |  | |
| Color | Silver Grey | | |
| Installation Options | Suspended, Pole mounted | | |
| IES Files | Available | | |

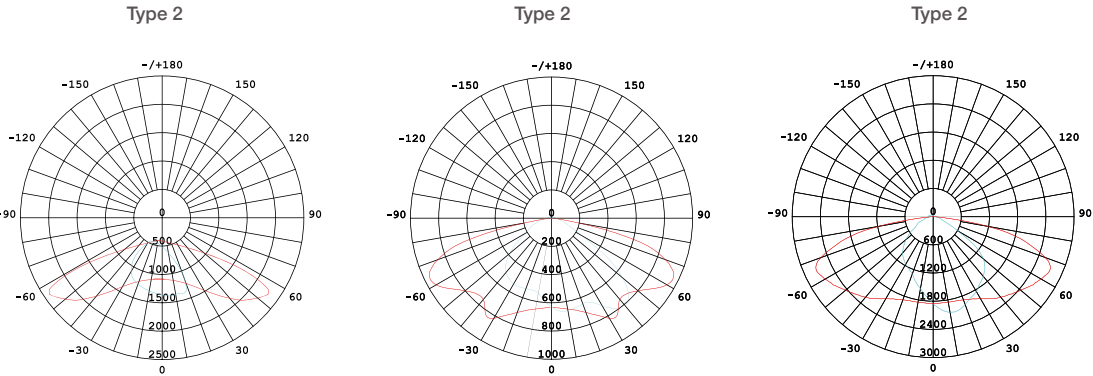
| Available Accessories | Extra Features |
|---|------------------------------------|
| - Lithium Iron Phosphate Battery included | - Installation pipe diameter: 60mm |

| Product Parameter | | | | | | | |
|-------------------|-------|---------|-------|-------------------|-----|------------|---------|
| Item No. | Power | Voltage | PF | CCT | CRI | Beam Angle | Lm/W |
| 847779 | 80W | DC12V | >0.95 | 3000K/4000K/6500K | >70 | Type 2 | 160Lm/W |
| 847785 | 100W | | | | | | |
| 847791 | 120W | | | | | | |
| 847795 | 150W | | | | | | |
| 847798 | 180W | | | | | | |

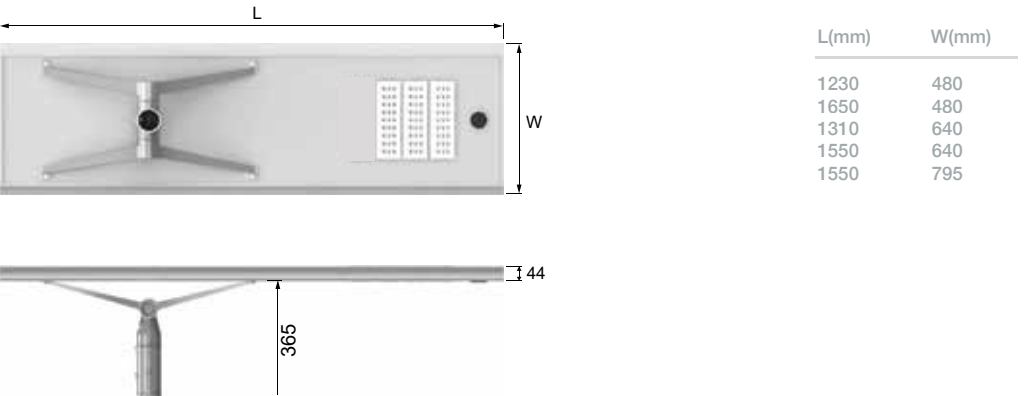
Aurora All-in-One Solar Street Light Series










Light Distribution Diagram



Dimensions



| Specifications | | Features & Certificates | |
|-----------------------|----------------------------|---|--|
| Driver Brand | / |  |  |
| LED Chip | Philips 3030 |  | |
| Operating Temperature | -10°C ~ +60°C |  |  |
| Smart Control Options | / |  | |
| Material | Aloum. Alloy |  | |
| Color | Silver Grey | | |
| Installation Options | Suspended, Pole mounted | | |
| IES Files | Available | | |

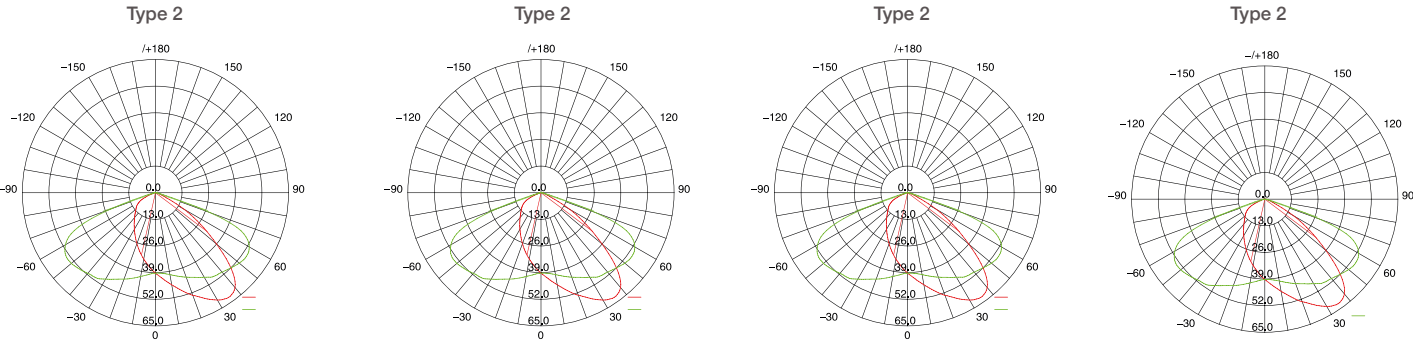
| Available Accessories | Extra Features |
|---|--|
| <ul style="list-style-type: none">- Lithium Iron Phosphate Battery included- Adjustable arm, time control,light control,microwave sensor | <ul style="list-style-type: none">- Installation pipe diameter: 60mm |

| Product Parameter | | | | | | | |
|-------------------|-------|---------|-------|-------------------|-----|----------------|---------|
| Item No. | Power | Voltage | PF | CCT | CRI | Beam Angle | Lm/W |
| 847801 | 40W | DC12V | >0.95 | 3000K/4000K/6500K | >70 | Type 2, Type 3 | 160Lm/W |
| 847804 | 60W | | | | | | |
| 847807 | 80W | | | | | | |
| 847810 | 100W | | | | | | |
| 847813 | 120W | | | | | | |

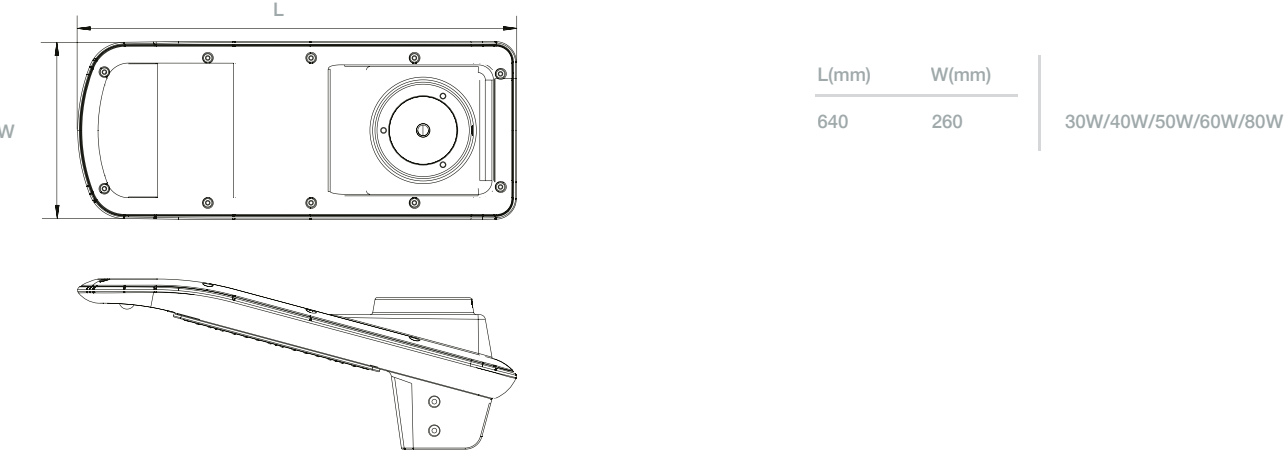
Atria Solar Street Light Series



Light Distribution Diagram



Dimensions



| Specifications | | Features & Certificates | |
|-----------------------|----------------------------|--|--|
| Driver Brand | / | <div><div>5yrs Warranty</div><div>IP66</div><div>IK08</div><div>CE</div><div>RoHS</div><div>150Lm/W</div><div></div></div> | |
| LED Chip | SMD 3535 | | |
| Operating Temperature | -30°C ~ +65°C | | |
| Smart Control Options | / | | |
| Material | AL, PC & Temp. Glass | | |
| Color | Silver Grey | | |
| Installation Options | Suspended, Pole mounted | | |
| IES Files | Available | | |

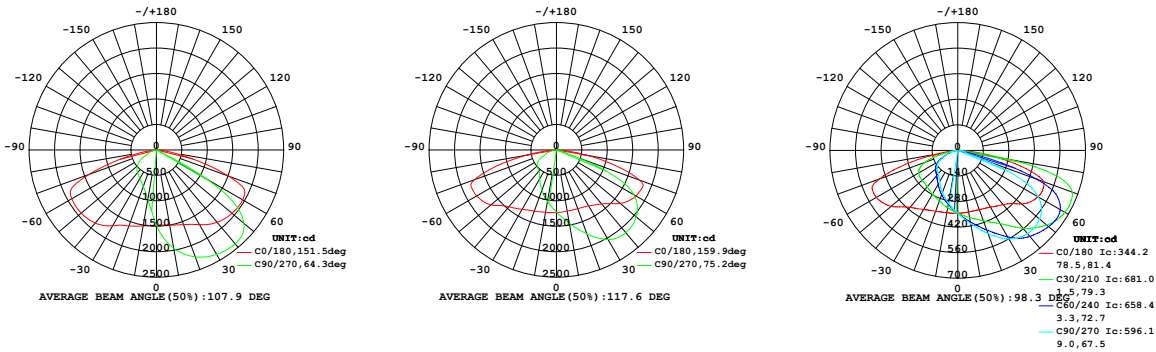
| Available Accessories | Extra Features |
|---|-------------------------------------|
| - Li-ion battery included - Solar panel with 360° horizontal rotation and 240° vertical tilt | -Installation pipe diameter: Ø<76mm |

| Product Parameter | | | | | | | |
|-------------------|-------|---------|-------|-----------------------|-----|------------|---------|
| Item No. | Power | Voltage | PF | CCT | CRI | Beam Angle | Lm/W |
| 844460 | 30W | DC12V | >0.95 | 3000K/4000K/ 6500K | >70 | 65x150° | 150Lm/W |
| 844463 | 40W | | | | | | |
| 844466 | 50W | | | | | | |
| 844469 | 60W | | | | | | |
| 846830 | 80W | | | | | | |

Mira Solar Street Light Series



Light Distribution Diagram



Dimensions

| Specifications | | Features & Certificates | |
|-----------------------|---|---|--|
| Driver Brand | / | <div><div>3yrs Warranty</div><div>IP65</div><div>IK08</div></div> | |
| LED Chip | Philips Lumileds | | |
| Operating Temperature | -10°C ~ +60°C | | |
| Smart Control Options | MPPT Solar controller/ Controlled by mobile app | <div><div>CE</div><div>RoHS</div><div></div></div> | |
| Material | Die-cast Alum & PC | <div><div>170Lm/W</div></div> | |
| Color | Silver Grey | <div><div></div></div> | |
| Installation Options | Suspended, Pole mounted | | |
| IES Files | Available | | |

| Available Accessories | Extra Features |
|--|--|
| <div><div>- Lithium Iron Phosphate Battery included</div><div>- Integrated solar panel</div><div>- Light Distribution: Type II Long, Type III Long</div></div> | <div><div>- Installation pipe diameter: Ø60mm</div><div>- Adjustable arm & Motion Detector</div></div> |

| Product Parameter | | | | | | | |
|-------------------|-------|---------|-------|-------------------|-----|------------------|---------|
| Item No. | Power | Voltage | PF | CCT | CRI | Beam Angle | Lm/W |
| 843710 | 10W | DC12V | >0.95 | 3000K/4000K/6500K | >70 | 150x60°, 150x75° | 170Lm/W |
| 843713 | 15W | | | | | | |
| 843716 | 20W | | | | | | |
| 843719 | 25W | | | | | | |
| 843722 | 30W | | | | | | |
| 843725 | 40W | | | | | | |

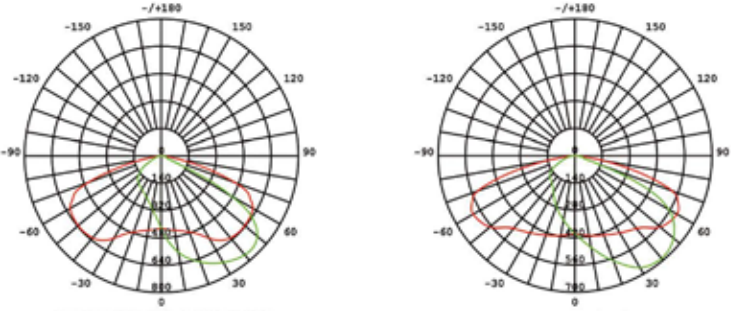
Gemma Solar Street Light Series



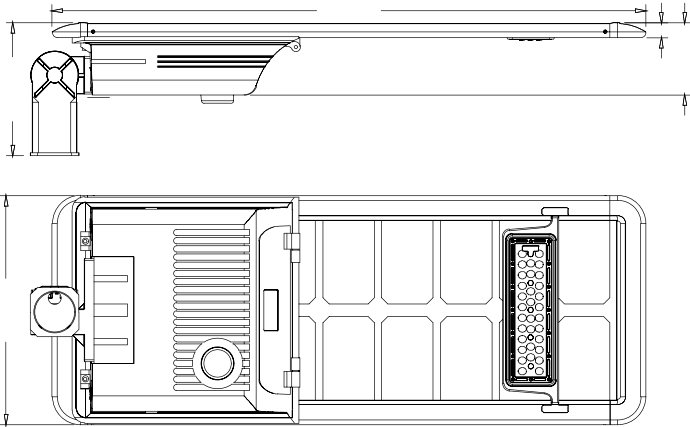
| Specifications | | Features & Certificates | |
|-----------------------|----------------------------|---|--|
| Driver Brand | / | <div><div>3yrs Warranty</div><div>IP65</div><div>IK07</div><div>CE</div><div>RoHS</div><div>FC</div><div>220Lm/W</div><div></div></div> | |
| LED Chip | Philips Lumileds | | |
| Operating Temperature | -40°C ~ +50°C | | |
| Smart Control Options | / | | |
| Material | Die-cast Aluminum | | |
| Color | Silver Grey | | |
| Installation Options | Suspended, Pole mounted | | |
| IES Files | Available | | |

| Available Accessories | Extra Features |
|---|---|
| <div><div>- Lithium Iron Phosphate Battery included</div><div>- Rotatable LED modules</div><div>- Bifacial solar panels</div></div> | <div><div>- Built in Smart controller & PIR/Microwave motion sensor</div><div>- Installation pipe diameter: Ø60mm</div></div> |

Light Distribution Diagram



Dimensions



| L(mm) | W(mm) | H(mm) | |
|-------|-------|-------|---------|
| 633 | 365 | 211 | 10W/15W |
| 793 | 365 | 211 | 20W/25W |
| 948 | 365 | 211 | 30W/35W |
| 1103 | 365 | 211 | 40W/45W |
| 1263 | 365 | 211 | 50W |
| 1418 | 365 | 211 | 60W |

| Product Parameter | | | | | | | |
|-------------------|-------|----------|-------|-----------------------|-----|----------------------------------|---------|
| Item No. | Power | Voltage | PF | CCT | CRI | Beam Angle | Lm/W |
| 846646 | 10W | DC12/24V | >0.95 | 3000K/4000K/ 6500K | >70 | 150x60°/160x- 75°/100x90°/120 | 210Lm/W |
| 843713 | 15W | | | | | | |
| 846652 | 20W | | | | | | |
| 846655 | 25W | | | | | | |
| 846658 | 30W | | | | | | |
| 846661 | 35W | | | | | | |
| 846661 | 40W | | | | | | |
| 846667 | 45W | | | | | | |
| 846670 | 50W | | | | | | |
| 846673 | 60W | | | | | | |

Orion Solar Street Light Series



| Specifications | | Features & Certificates | |
|-----------------------|----------------------------|---|--|
| Driver Brand | Meanwell | <div><div>3yrs Warranty</div><div>IP66</div><div>IK08</div><div>CE</div><div>RoHS</div><div></div><div>160Lm/W</div><div></div></div> | |
| LED Chip | SMD 3030 | | |
| Operating Temperature | -10°C ~ +60°C | | |
| Smart Control Options | / | | |
| Material | Aluminum | | |
| Color | Silver Grey | | |
| Installation Options | Suspended, Pole mounted | | |
| IES Files | Available | | |

| Available Accessories | Extra Features |
|---|---|
| <div><div>- Lithium Iron Phosphate Battery included</div><div>- Integrated solar panel</div><div>- Light Distribution: Type II, Type II</div></div> | <div><div>- Installation pipe diameter: Ø60/76mm</div><div>- Meanwell Driver for the Solar & AC version</div></div> |

Light Distribution Diagram

Dimensions

| Product Parameter | | | | | | | |
|-------------------|-------|----------|-------|-----------------------|------|------------------------------|---------|
| Item No. | Power | Voltage | PF | CCT | CRI | Beam Angle | Lm/W |
| 847821 | 10W | DC12/24V | >0.95 | 3000K/4000K/ 6500K | >705 | Type II/Type III/120°/90° | 280Lm/W |
| 847826 | 15W | | | | | | |
| 847832 | 20W | | | | | | |
| 847838 | 10W | | | | | | |
| 847844 | 15W | | | | | | |
| 847850 | 20W | | | | | | |

Safety and symbols key

| | |
|---|---|
|  | Certification mark Indicates conformity with health, safety, and environmental Protection standards for products sold within the European Economic Area (EEA) |
| RoHS | Restriction of Hazardous Substances The Restriction of Hazardous Substances Directive 2002/95/EC bans placement into the EU market of new electrical and electronic equipment containing more than the designated maximum allowable levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants. |
|  | Electromagnetic compatibility (EMC) Measures the ability of equipment or systems to function satisfactorily in their electromagnetic environment without introducing intolerable electromagnetic disturbance to anything in that environment. |
|  | ENEC (European Norms Electrical Certification) A certification scheme under CENELEC, accepted throughout Europe. The ENEC Mark for electrical products demonstrates compliance with European safety standards. |
| WEEE | The European Waste Electrical and Electronic Equipment (WEEE) The European Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC, as amended by 2003/108/EC, encourages the collection, treatment, recycling and recovery of waste electrical and electronic equipment. |
|  | REACH Certificate REACH Certificate of Compliance certifies that a product is compliant with the EU REACH regulation (EC) No 1907/2006, regarding the environmental and human health protection from risks posed by chemical substances. |

Standardized documents

| | |
|----------------------------------|---|
| ISTMT | ISTMT is the measurement of the LED source case temperature within the LED system (luminaire or lamp) while it is operating in its designed position and/or environment (In "Situation"). The measurement is performed at the temperature measurement point (Tc Point) indicated by the LED package manufacturer. |
| TM21 | TM21 is the IESNA approved method for taking LM-80 data and making useful LED lifetime projections. The standards apply to lifetime projection of LED package, array or module alone. The results can then be used to interpolate the lifetime of an LED source within a system (luminaire or integrated lamp) using the in-situ LED source case temperature. |
| LM80 14000hrs | LM80 is the IESNA approved standard for measuring lumen maintenance of LED light sources. LM-80-08 apply to the LED package, array, or module alone, not a complete system, it is testing a component level. The standard does not provide guidance for extrapolation of testing results. |
| LM82 | LM82 is the IESNA Approved Method for the Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature (LM-82-12) is a document which addresses the changes in photometric performance of SSL light engines and lamps with changes in temperature. |
| 500hrs Salt Spray Test | Salt Spay Test is used to test the relative resistance to corrosion of protective coatings, when exposed to a salt mist (spray) climate at an elevated temperature. Test specimens are placed in an enclosed chamber and exposed to a continuous indirect spray of neutral (pH 6.5 to 7.2) salt water solution, which falls-out on to the specimens at a rate of 1.0 to 2.0ml/80cm²/hour, in a chamber temperature of +35C. This climate is maintained under constant steady state conditions. |
| IEC62722 | IEC 62722 covers specific performance and environmental requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1000 V. Unless otherwise detailed, performance data covered under the scope of this standard are for the luminaires in a condition representative of new manufacture, with any specified initial aging procedures completed in a chamber temperature of +35C. This climate is maintained under constant steady state conditions. |

Ingress protection rating

Rating Example

| | |
|--------------------|----------------|
| IP | 6 |
| Ingress protection | Against Solids |

The first number identifies the ingress protection rating against solids

- 1 For solid bodies with dimensions > 50mm
- 2 For solid bodies with dimensions > 12.5mm
- 3 For solid bodies with dimensions > 2.5mm
- 4 For solid bodies with dimensions > 1mm
- 5 Dust protected
- 6 Dust tight

The second number identifies the ingress protection rating against liquids

- 1 For vertically falling drops
- 2 For vertically falling drops when enclosure is tilted up to 15 vertically
- 3 For water sprayed at an angle up to 60 vertically
- 4 For water splashed in any direction
- 5 For water projected in jets against the enclosure from any direction
- 6 For water projected in powerful jets against the enclosure from any direction
- 7 For enclosure's temporary immersion at 1 meter in the water, under defined conditions
- 8 For enclosure's continuous immersion in the water, under more severe conditions to those of number 7

Impact protection rating

Rating Example

| | |
|-------------------|-------------------------|
| IK | 05 |
| Impact protection | Mechanical Impact level |

The number identifies the impact protection rating

- 00 No protection
- 01-05 For tiny impact of < 1 Joule
- 06 For impact of 1 Joule
- 07 For impact of 2 Joule
- 08 For impact of 5 Joule
- 09 For impact of 10 Joule
- 10 For impact of 20 Joule

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