

SOLAR LIGHTING

SOLUTIONS



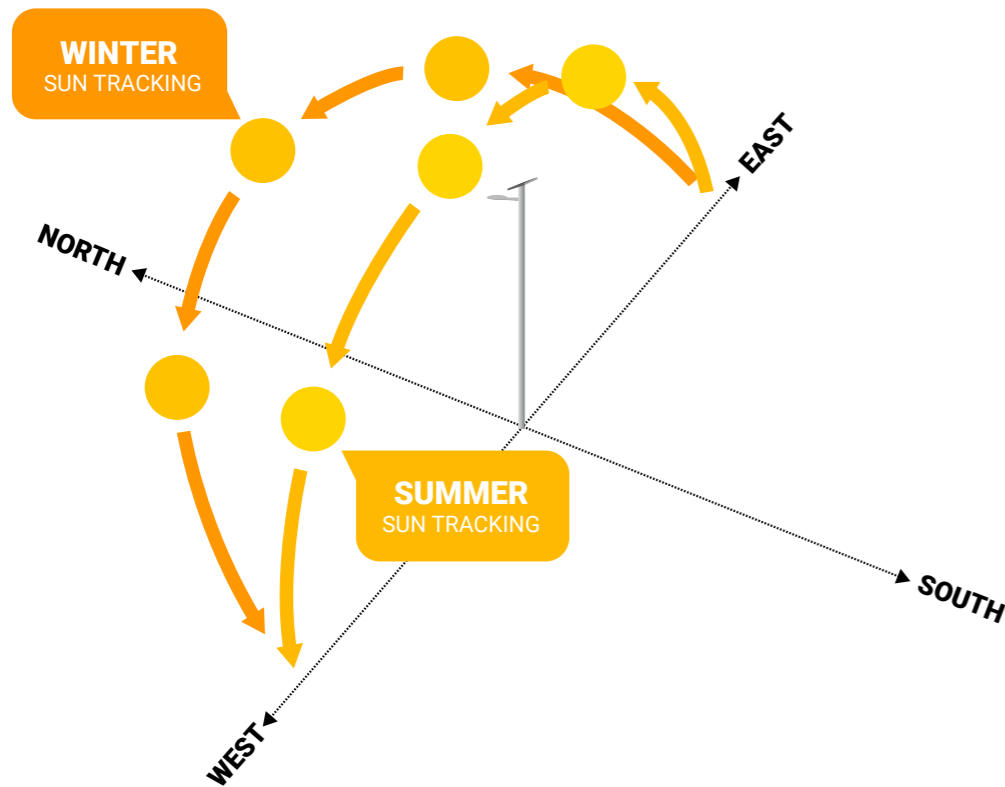
Orca
SOLAR LIGHTING

We're proud to formally introduce our solar lighting partner, Orca Solar Lighting®.

We've been working closely with Orca for years, providing our specification grade luminaires for use with Vertex® solar lighting systems. We're pleased to announce we are now selling select Orca Solar Lighting products as well*

Our range of Orca Solar Lighting solutions are paired with quality luminaires, including fittings from Cree Lighting. Cree Lighting's wide range of optics and industry leading efficacies make it the perfect partner for optimising solar installations.

Orca Solar Lighting products address all criteria for discerning and certified lighting, electrical and civil engineers, utilising leading edge technologies across all components.



Orca are the experts in solar lighting, designing and building solutions specifically for Australian conditions.

Deploying the most stringent methodologies for solar engine sizing from NASA solar radiation data, Orca's in-depth site analysis and calculations go above and beyond industry norms to provide a solar lighting system customised to suit both your lighting needs and the location's requirements.

*Advanced Lighting Technologies are pleased to offer Orca Solar Lighting's range of solar pole-mounted luminaire systems (Avero®, Vertex® SL & Vertex®). We are an authorised partner of Orca Solar Lighting in the ACT and New South Wales, and an exclusive partner in South Australia, Tasmania & Victoria. Customers in the Northern Territory & Queensland should contact Orca Solar Lighting directly - phone 1300 760 778.

Solar Range

Beyond the obvious benefits of sustainability, solar lighting offers many advantages over traditional lighting systems, including less design and planning requirements, no cabling or trenching and fast and easy installation.

Advanced Lighting Technologies can design and supply the perfect solar lighting solution, using in-depth analysis and complex calculations to match your project lighting needs to the location's solar conditions.



SOLAR LIGHTING RANGE



- DUSK TO DAWN (D2D) OR TIMER AVAILABLE
- PROGRAMMABLE PIR SENSOR OPTIONAL
- BATTERY / AUTONOMY COMPLIANCE AS PER AUSTRALIAN STANDARDS*



AVERO

- 5 YEAR WARRANTY
- UP TO 2,000 LUMENS
- LITHIUM BATTERY 80% DEPTH OF DISCHARGE TO 4,000 CYCLES



POLE OPTIONS
4M | 5M | 6M

APPLICATIONS
PATHWAYS & CYCLEWAYS
PRIVATE & MINOR ROADS

- DUSK TO DAWN (D2D) OR TIMER AVAILABLE
- FEATURES CREE LIGHTING XSPM LED LUMINAIRE
- BATTERY / AUTONOMY COMPLIANCE AS PER AUSTRALIAN STANDARDS*



VERTEX SL

- 5 YEAR WARRANTY
- UP TO 4,000 LUMENS
- LITHIUM BATTERY 80% DEPTH OF DISCHARGE TO 4,000 CYCLES



POLE OPTIONS
6M

APPLICATIONS
PATHWAYS & CYCLEWAYS
PRIVATE & MINOR ROADS
PUBLIC CAR PARK AREAS

- DUSK TO DAWN (D2D) OR TIMER AVAILABLE
- AVAILABLE WITH CREE LIGHTING XSP OR XPSM LED LUMINAIRE**
- BATTERY / AUTONOMY COMPLIANCE AS PER AUSTRALIAN STANDARDS*



VERTEX

- 5 YEAR WARRANTY
- UP TO 10,000 LUMENS
- GEL BATTERY** 50% DEPTH OF DISCHARGE TO 4,450 CYCLES
- OR
- LITHIUM BATTERY** 80% DEPTH OF DISCHARGE TO 4,000 CYCLES



POLE OPTIONS
4M | 6M | 8M | 10M

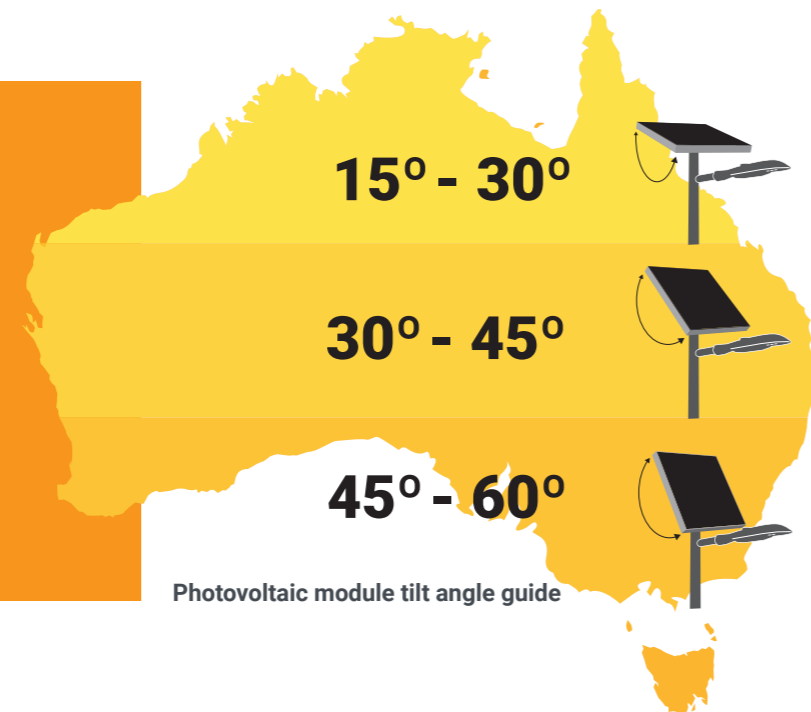
APPLICATIONS
PATHWAYS & CYCLEWAYS
PRIVATE & MINOR ROADS
PUBLIC CAR PARK AREAS
PRIVATE ACTIVITY AREAS
OUTDOOR STORAGE & WORK AREAS

* Custom Colours Available
** Model Dependant
^Subject to location requirements

Features

Optimal solar collection

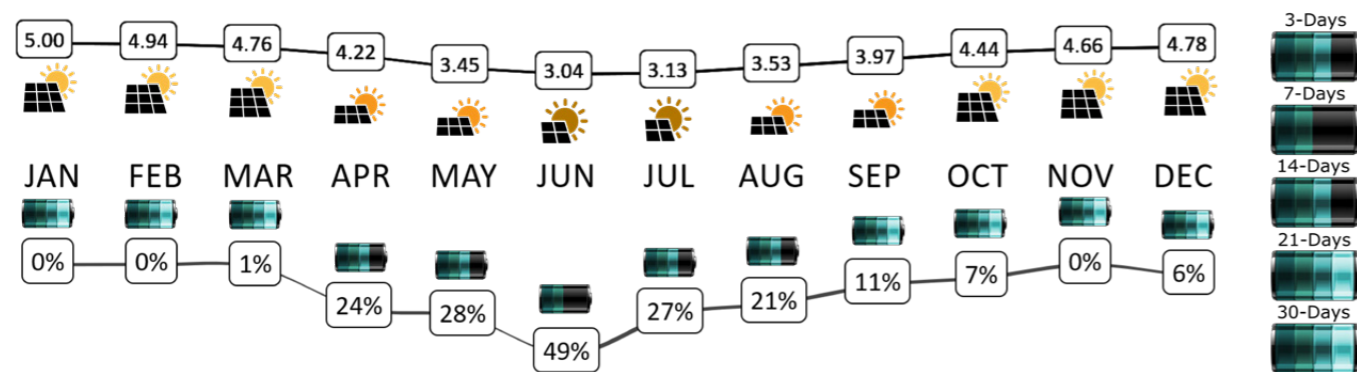
Advanced Lighting Technologies' solar lighting solutions feature pole-top mounted photovoltaic modules which enables full flexibility of orientation and tilt angle adjustment to ensure optimal solar collection, regardless of which way the luminaire is facing.



A balanced battery system all year-round

Our solar lighting solutions are designed in accordance with the methodologies of the relevant Australian Standard (AS/NZS 4509.2:2010 Stand-Alone Power Systems) to ensure their photovoltaic modules are adequately sized and the discharge continuity of the battery system is balanced year-round.

This process ensures extended life of the premium battery system. Calculation reports can be supplied upon request to verify solar and battery system sufficiency.



*Example for illustrative purposes only – Autonomy calculations are subject to location conditions.

Advanced timer and power profiling

Our solar lighting solutions feature advanced timer and power profiling capabilities. This means settings can be customised to best suit the application or situation, allowing light levels to be raised or lowered as necessary.

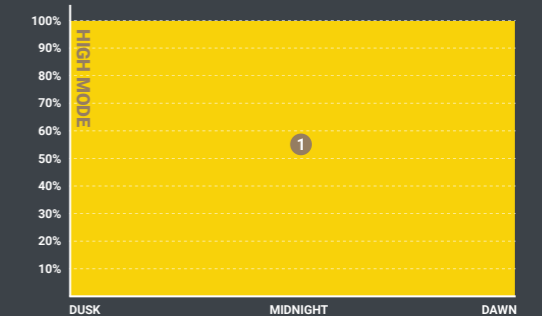
The Avero also boasts a programmable PIR sensor to increase or decrease light levels at certain times, or when pedestrian movements are detected.

Features like these can assist to generate light output that meets Standard requirements in both high and low mode, while assisting to reduce light pollution and meet obtrusive light limitations during curfew hours (AS/NZS 4282).

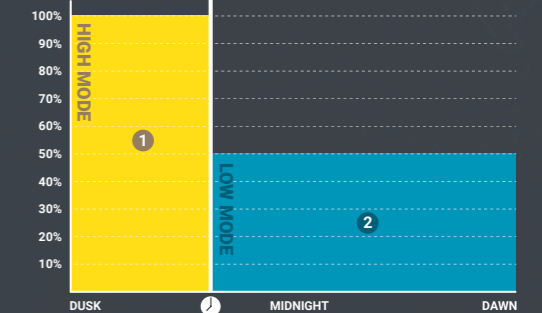
Power profiles can also assist in meeting International Dark Sky Association recommendations by reducing unwanted light in ecologically sensitive areas.



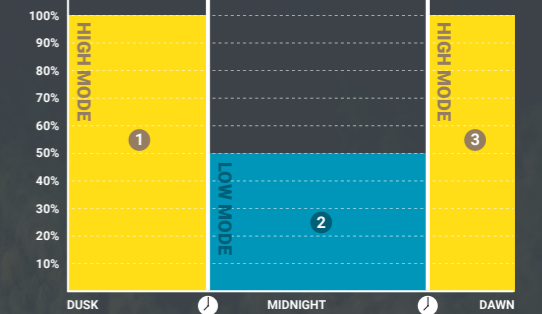
Dusk To Dawn Profile



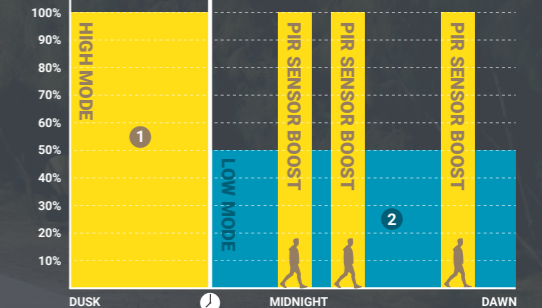
Two Timer Profile



Three Timer Profile



Passive Infrared Sensor (Avero Only)





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Visit our website for more details on any of the products featured in this guide, including specification sheets, photometric files and more.

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