

# ECOLUX SOLAR LIGHTING UNIT



**Standalone Solar power,  
No Grid Connection,  
NO trenching to run grid tied cabling,  
No Power Bills,  
NO Greenhouse Gas Emissions,  
Simple installation and operation**

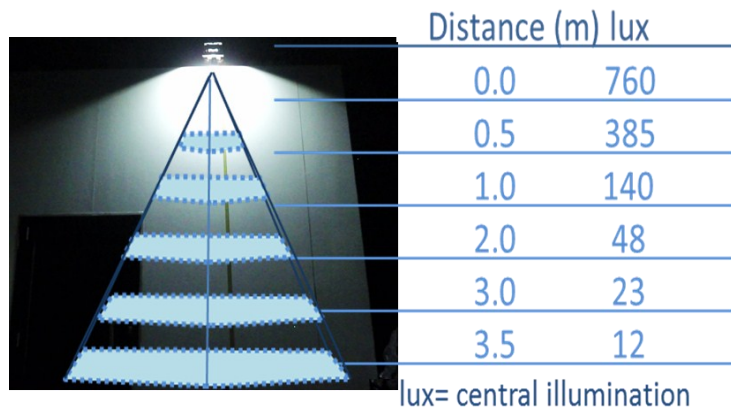


## APPLICATION

Sign lighting, Billboards, Advertising Boards, Pergolas, Rotundas, Area Lighting, Security Lighting, Horse Stables, Farm Gates

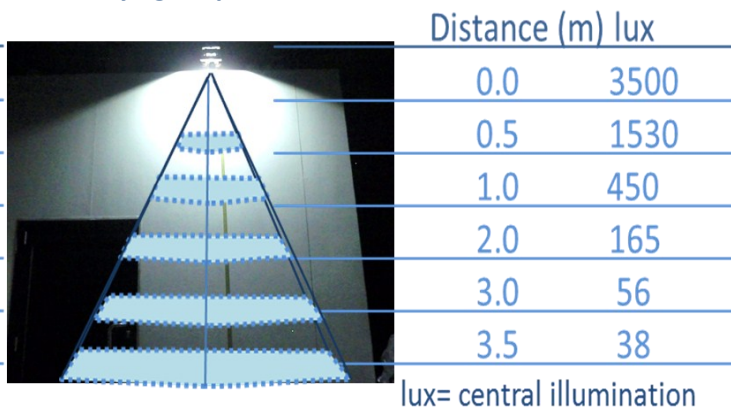
### 10 WATT LED LAMP

Comfortably light up 2 m x 2 m area



### 20 WATT LED LAMP

Comfortably light up 4 m x 4 m area



## BENEFITS

High powered reliable self contained unit. Customisable to your lighting requirements, Standalone Solar power, No Power Bills, No Grid Connection, NO trenching to run grid tied cabling, NO Greenhouse Gas Emissions, Simple installation and operation, All night lighting

## ECOLUX SOLAR LIGHTING COMPARED TO TRADITIONAL METAL HALIDE

	20 Watt LED	80 Watt Metal Halide
Light efficiency	High	Low
Colour index	Ra<75	Ra 24
Optical efficiency	High	Low
Colour temperature	Natural white 6000K	Yellow 2200K
Lumens (Lm/w)	Over 100 Lm/w	25-35 Lm/w
Life	> 50,000 Hours	18-24,000 Hours
Light Depreciation	90% Slow over whole life	70- 80% Fast
Electric Performance and Heat	Safe ( 12 V Voltage system) running at 10°C above ambient	Electric Shock Easy (240V High Voltage) running up to 350°C above ambient
Power Consumption	Zero Stand alone Solar Power	Quite High See below
Strobe effect	No (Direct Current)	Yes (Alternating Current)

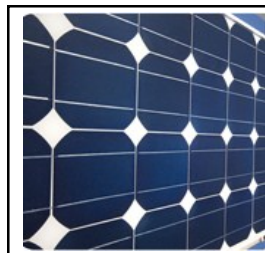
## FEATURES



**Bright white LED Luminaires**  
**Long life of 50,000 + hours**  
**Either single or double light set up**  
**American Bridgelux LED's**  
**100 Lm/W**



**Solar charge controller**  
**Maintenance free Deep cycle**  
**Batteries**  
**IP65 Weather Proof**



**40 watt or 80 watt set up**  
**Monocrystalline solar cell**  
**High efficiency 20 year life**  
**Will provide charge in overcast**  
**cloudy days**



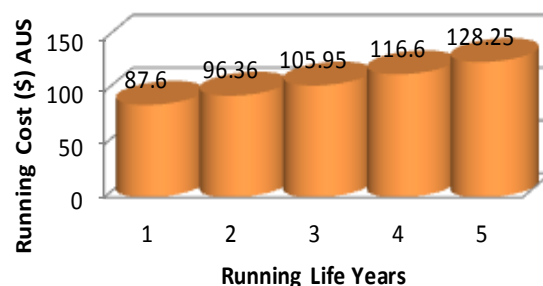
**Runs Dusk till Dawn or,**  
**Easy set to desired running hours**

## No Grid Connection, NO trenching to run grid tied cabling, NO Power Bills

Installation of traditional lighting, which means tying your light fixtures to an electrical grid system, requires wiring this may include trenching, running of cable and conduit. The process is lengthy, costly and inconvenient. Through this table we hope to provide an understanding of additional costs to consider for installation of traditional grid connection lighting. The table is based on a running of power over a 10 meter distance. Power cost savings over 5 years = \$535 This is based on \$0.23 with a 10% increase in power cost over time. Cost Savings could be even greater as electrical prices are unknown.

LOCATION	INTERIOR	EXTERIOR
Cabling and Conduit	\$ 100	\$120
Equipment Hire e.g. EWP Exterior may require trenching for Cabling Concrete Saw	\$ 140	\$140- \$200
Trenching	n/a	\$400- \$800
Labour	\$ 400 (4 hour minimum)	\$800
Electrical Connections, Switchgear and Luminaire	\$ 420	\$420
Power Cost for 5 years	\$535	\$535
Reduced Light Changes and associated labour cost	\$250	\$300
<b>Total Cost Savings</b>	<b>\$ 1,845</b>	<b>\$2,714- \$3,315</b>

### Power cost for 80 Watt Metal Halide



The Photovoltaic Lighting Group or PLG Solar lighting is designed and made in Victoria Australia. We are able to custom design lighting to your requirements and also supply Solar Street and Park lighting, Solar Mobile Lighting Towers, Industrial LED Luminaires. Visit [www.plgaustralia.com.au](http://www.plgaustralia.com.au). Feel free to contact us for a site visit,