



Everlight Solar MR16-B Series

SL-16B/012AC/A/P05

Features

- Light source: Everlight Hipower LED
- No heat, NO UV or IR light radiation
- Full range of colors
- Uniformity illumination
- Beam of light is stable
- Optimized Heat fins with the artistic design
- Fitness for GX5.3 socket
- Long Lifetime
- Plug & Play
- Indoor Use Only



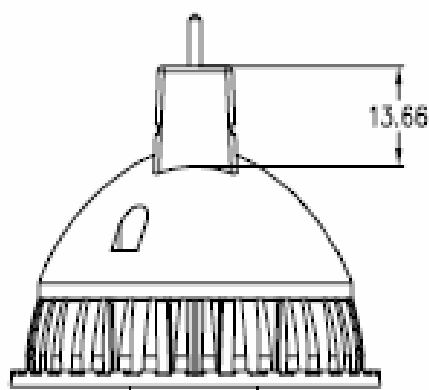
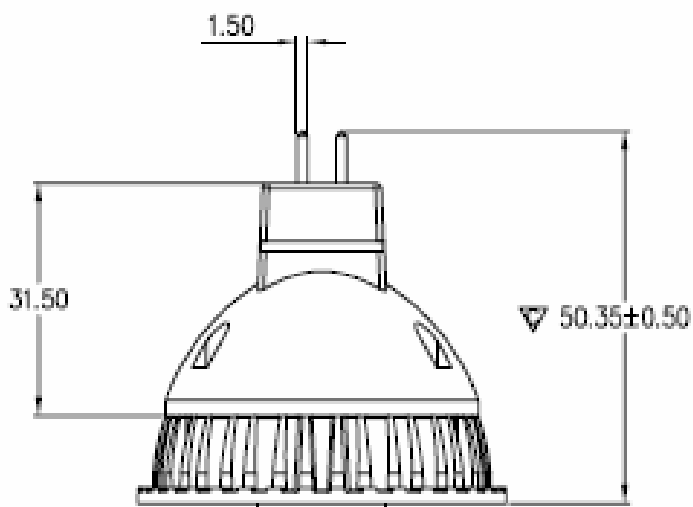
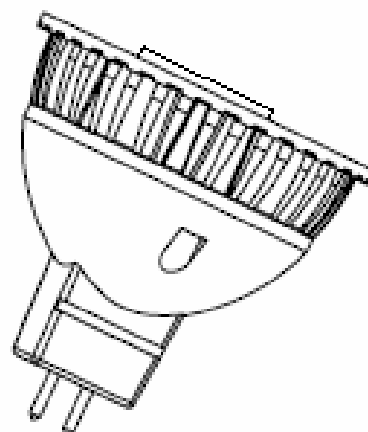
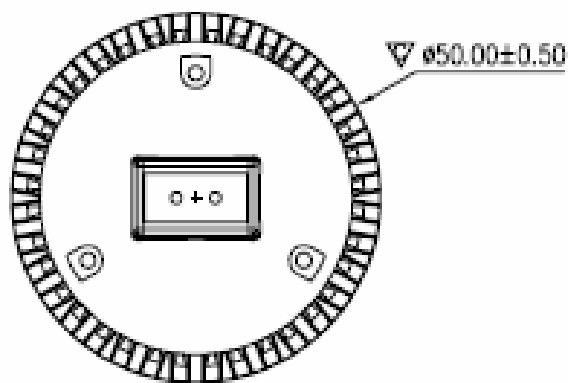
Typical Applications

- Landscape Accent/Spot lighting
- Architectural Lighting
- Display Case Accent
- Flood Lighting
- Day and Night Light
- Mood Lighting
- Amusement Park Accent
- Reading Light
- Biological Lighting

Materials

Items	Description
Optical parts	Acrylic materials
Heatsink	Aluminum, DLC coating MCPCB
LED	EHP-AX08LS-DA series
Circuit parts	FR4 and circuit components
Solder Wire	SAC305 Pb-Free solder wire
Wire	Silicone wrapping wire

Product Dimensions



- Notes:
- 1. Dimensions are in millimeters
 - 2. Tolerances unless dimensions ± 0.5 mm
 - 3. The pin type of the light module is fitting for GX5.3 type

Product Specification

Parameter	Description
Light Source	Everlight Hipower LED
Optic	Optical Lens and Reflector
Beam Angle	15°, 25°, 40°(Spot Tech)
Beam Color	warm white (2850~3250K), white (5650~7000K), cool white (7000~9000K)
Total Length	50.35 mm (NO including Lens)*
Housing	Molded aluminum, 50 mm diameter*
Pin Type	2 pins, GX5.3 standard.

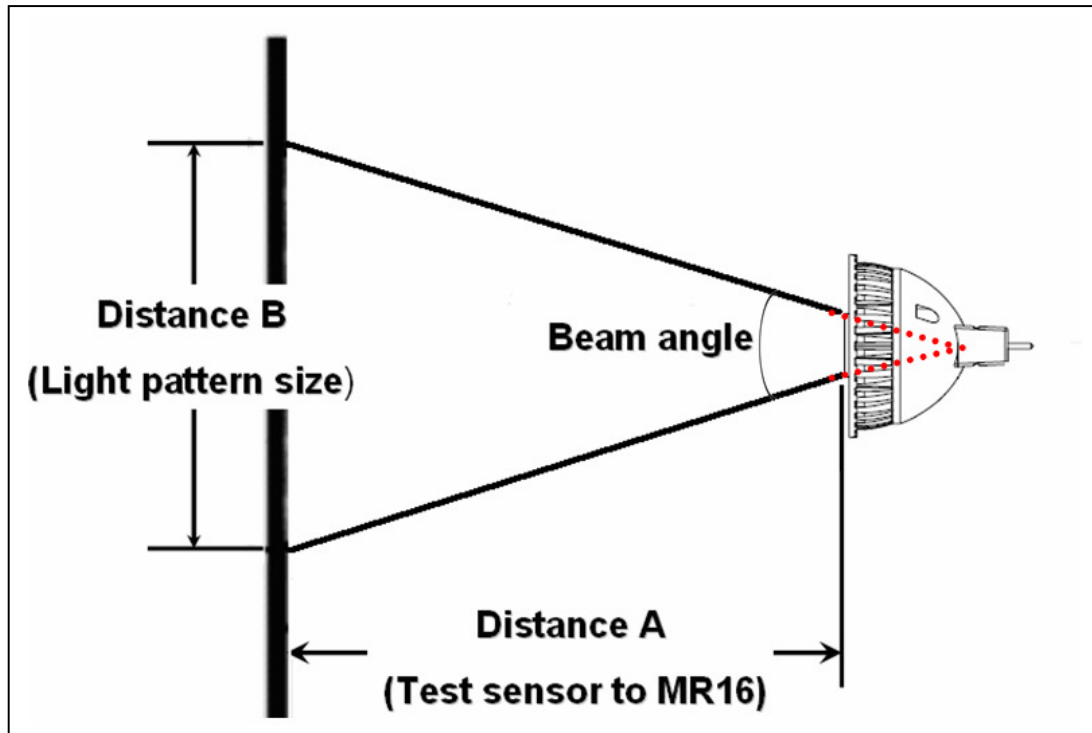
Electro-Optical-Thermal Characteristics ($T_{Ambient}=25^{\circ}C$) **

Parameter	Symbol	Min	Typ	Max	Unit
Input Voltage (AC)	VAC	8	12	14	V
LED Forward Current	IF	700	780	860	mA
Optimized Body Temperature	T_b	62	65	68	°C
Power Consumption	W	3.5	4	4.6	Watt
**Operating Temperature	T_{opr}	-20	25	+40	°C
Storage Temperature	T_{stg}	-40	25	+70	°C

* Tolerances unless dimensions ± 0.5 mm

**With an increase in temperature, a reduction in lifetime can be observed. We suggest using solar MR16 should be in the good natural convection.

Everlight Solar Series Illumination Characteristics Measurement definition



Illumination Characteristics (beam angle 15°, 25°, 40°)

Beam angle (degree)	Distance (cm)		Typical MR16 Illumination (Lux)*		
	A	B**	Cool White	White	Warm White
15	30	9	7083	8370	5157
	100	26	787	930	573
25	30	15	4185	4950	3051
	100	45	465	550	339
40	30	26	1530	1800	1116
	100	77	170	200	124

* The values are measured by the TES 1336A lux meter, and they are affected by the ambient temperature. So they are only for reference.

**The value is defined as half of max flux (lux), and it is only for reference.

Everlight Solar MR16 Series Illumination Spec*

Solar MR16 Color Option	Wavelength or CCT(nm/K)	Typical Illuminance (beam angle 15° @ 1m (Lux)	Typical Illuminance (beam angle 25° @ 1m (Lux)	Typical Illuminance (beam angle 40° @ 1m (Lux)
Cool White	7000~9000K	787	465	170
White	5650~7000K	930	550	200
Warm White	2850~3250K	573	339	124

*The values are measured by the TES 1336A lux meter, and they are affected by the ambient temperature.
So they are only for reference.



Tray Label explanation

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity





CAT: Ranks

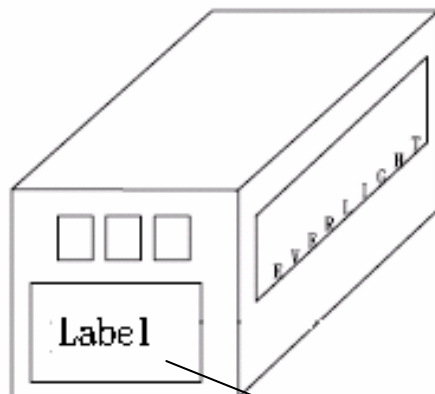
HUE: Color bin

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

EVERLIGHT		7
CPN: 480056996		
P/N: 3002048604		
		RoHS
204UWC/S400-A5		
QTY: 2000	CAT: F1	
	HUE: B5-1	
	REF: 12	
LOT NO: EL404711/D5		
		
Reference: B5030402154		
		
MADE IN TAIWAN		

Outside Carton**Outside Carton Label explanation**

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

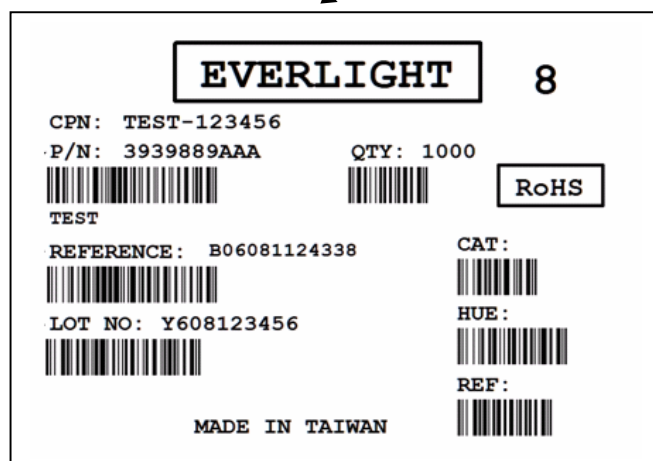
CAT: Ranks

HUE: Color bin

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

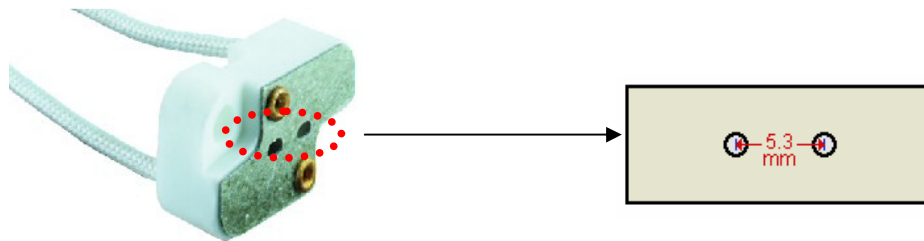
**Packing Quantity**

6 PCS / Per Box

Application Notes

Solar MR16 is not only to replace halogen MR16 but to develop as a humanized product. We utilize optical, electronic and thermal technology to develop for driving high power solid state lighting devices. Users don't need to worry about that problem but just enjoy the plug & play function. In order to use easily, we would suggest some accessories, follow as the list:

1. GX 5.3 connector;



2. Power supplier: (AC input :100-240V,50/60Hz ,AC output: 12V ,Load: 50W Min)

- a. AC-AC Transformer;
- b. RCC Adaptor;
- c. RCC Transformer;

3. Good thermal convection:

- a. The more good thermal convection you keep, the more life time & light output you will get.
- b. Be sure to keep the temperature(The point A , see below figure) under the 70°C. If temperature of A point over 70°C, the LED MR16 may be damaged.

