



## **Specification Sheet**

### Internal Transformer

## **Product Introduction**

ASTERIA is a minor planet that orbits the Sun, and also considered in the Greek Mythology as the Amazon that defeat the all mighty Heracles. ALT's ASTERIA can be presented as a strong, smart and efficient light bulb. ALT's Asteria MR16 series guarantees the outstanding efficiency and quality of High Power Products. All these make our MR16 products ideal for general business and decorative lighting purpose, including shop Lighting, Hotel

lighting, and Commercial Applications. You can simply install it within the showcase of the boutique, and add up bonus for the display. Also, Asteria MR16 series can easily and smartly help you lessen energy consumption up to 90%, it will enhance your business profitability and help the environment to flourish. Asteria MR16 series certainly be the product to create a more beautiful and efficient world.

### Certificates



### **Features**

- Elegant, rich and long-lasting lighting output ideal for Interior design.
- High density aluminum increase heat dissipation.
- ✓ Up to 90% energy saving compared to standard halogen lamp.

## **Application**

- ✓ Shop Lighting
- ✓ Commercial Lighting
- ✓ Boutique Lighting
- ✓ Illumination Lighting
- ✓ Hotel Lighting



# Specifications

Item	Specification	Details		
Output	Beam Angle	25°, 38°, 40°, 50°, 60°, 72°, 80°, 90°, 100°, 110°, 120°, 135°		
	Colour Range	TW / NW / WW		
	Lumen Maintenance	30,000+ hours		
Electrical	Input Voltage	110V AC or 220V AC		
	Power Consumption	7 Watts		
Physical	Bases	<ul> <li>E26 / 24 (US)</li> <li>E26 / 27 (EURO)</li> <li>GU10 / GZ 10</li> <li>EZ10</li> <li>E11</li> <li>E12</li> <li>E14</li> <li>E17</li> <li>B22D</li> <li>BA15D</li> <li>BA15S</li> </ul>		
	Weight	0.88 ~ 1.69 oz. (25 ~ 48 g)		
	Lens	Optics PMMA		
	Operating Temperature	-4° F to 104° F (-20°C to 40°C)		
	Humidity	0 – 95%, non-condensing		
Certification and Safety	Certifications	RoHS , Laser Testing, PSE, UL, FCC, CE, C-tick, REACH		
	Environment	Not for use in totally enclosed fixtures Suitable for damp location		
	Warranty	3 years		
	Two Million Worldwide Product Liability Insurance.			

# **Chipset Luminous Flux**

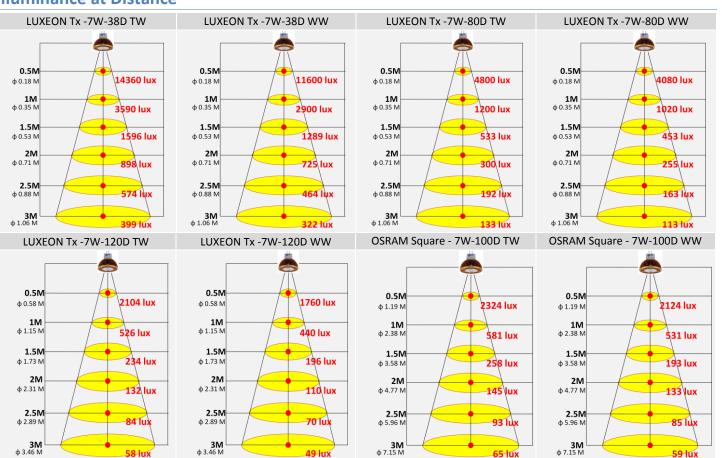
Chipsets		OSRAM Square				
Power Consumption		7W				
Beam Angle 10%		40° / 60° / 100° / 135°				
True White	CRI 70	850 lm				
Natural White	CRI 70	850 lm				
Warm White	CRI 80	650 lm 520 lm(2400k)				
	CRI 92	520 lm				
Chipsets		Lumileds – Luxeon Tx				
Power Consumption		7W				
Beam Angle	10%	38° / 50° / 60° / 80° / 120°				
True White	CRI 70	850 lm				
Natural White	CRI 70	850 lm				
Warm White	CRI 80	650 lm				
Chipsets		CREE XP-L				
Power Consumption		7W				
Beam Angle 10%		100° / 135°				
True White	CRI 65	870 lm				
Natural White	CRI 70	850 lm				
Warm White	CRI 80	720 lm				
Chipsets		CREE MHD				
Power Consumption		7W				
Beam Angle	10%	72° / 80° / 100° / 135°				
True White	CRI 70	765 lm				
Natural White	CRI 70	765 lm				
Warm White	CRI 80	660 lm				
XAll Chipset Luminous Flux Data are indicated in max values.						

# **Optical Characteristics**

Dominant Wavelength (nm) or Colour Temperature (K)

OSRAM LED Chips						
Correlated Colour Temperature	Min.	Тур.	Max.			
True White	5000K	6000K	7000K			
Natural White	3500K	4000K	5000K			
Warm White	2700K	3000K	3500K			
LUXEON LED Chips						
Correlated Colour Temperature	Min.	Тур.	Max.			
True White	4500K	5650K	10000K			
Natural White	3500K	4100K	4500K			
Warm White	2540K	3100K	3500K			
CREE LED Chips						
Correlated Colour Temperature	Min.	Тур.	Max.			
True White	4500K	6500K	10000K			
Natural White	3500K	4100K	4500K			
Warm White	2150K	3100K	3500K			

### **Illuminance at Distance**



OSRAM Square - 7W-135D TW

273 lux

121 lux

68 lux

44 lux

30 lux

0.5M

φ 2.41 M

**1Μ** φ 4.83 M

1.5M

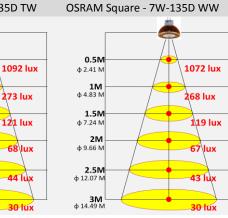
2M

φ 7.24 M

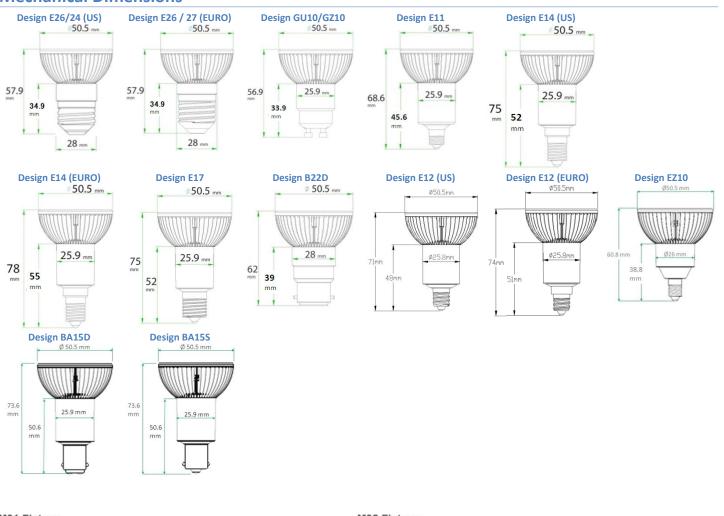
φ 9.66 M

**2.5M** φ 12.07 M

**3M** φ 14.49 M



## **Mechanical Dimensions**



#### M01 Fixture



The format of

The format of M01 is the most effective design of thermal conductivity within the MR16 series.

M02 Fixture





In compliance with ANSI standard, can be installed in any MR16 fixtures.

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