



LED Bulb Series

Features

- Light source: 1 piece 3W Cree XRE
- Long LED life: More than 50,000 hours
- 45mm ball shape bulb type
- Low heat, less than 55°C for 3W
- No UV or IR light radiation
- Instant “ON” to 100% brightness
- No mercury or other inorganics
- Highest optical efficiency: 30lm/watt
- Homogeneous flood illumination
- Machined aluminum heat fins with excellent thermal efficiencies
- The 3W LED bulb is available in the following white color temperatures:
 - 2800K – 3500K (Warm White)
 - 4000K – 5500K (Natural White)
 - 6000K – 7000K (Cool White)
- 3W LED bulb can achieve directional light output equal to 25W incandescent bulb
- 1 year limited warranty (see page 6)
- Works with worldwide electrical systems (110 or 220V AC)



Note: Picture for illustration only

Typical Applications

- Energy Saving Programs
- Sustainable Energy
- Replace Standard GLS lamps
- Accent Lighting
- Bath and Vanity Lighting
- Amusement Park Lighting





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PRODUCT SPECIFICATIONS

LIGHT SOURCE	1 x 3W Cree XRE power LED
OPTICS	White diffused glass lens
BULB TYPE	45 mm ball shape
BEAM ANGLE	100° (Flood)
RENDERING INDEX (Ra)	>80 (warm white) >75 (natural white) >70 (cool white)
TOTAL LENGTH	See product dimensions below
WEIGHT	55 ± 2g
HEATSINK	Machined pure aluminum with anodize finish
BASE TYPE	E26 / E27 / B22 / B15 / E17 / E14 / E11
DIMMABILITY	Not Dimmable

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	Ambient: -20°C to 40°C; Surface of Lamp: 60°C to 70°C
HUMIDITY RANGE	0 to 95% non-condensing humidity

ELECTRICAL SPECIFICATIONS

VOLTAGE REQUIREMENT	110 or 220V AC
POWER CONSUMPTION	≤ 3W
POWER FACTOR	≥ 0.6

PRODUCT DIMENSIONS (mm)

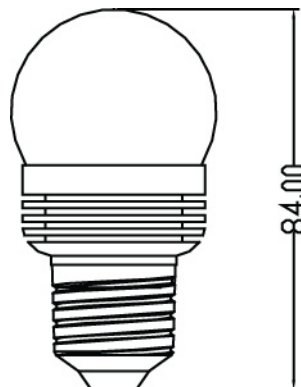


Fig 1. E27 Base



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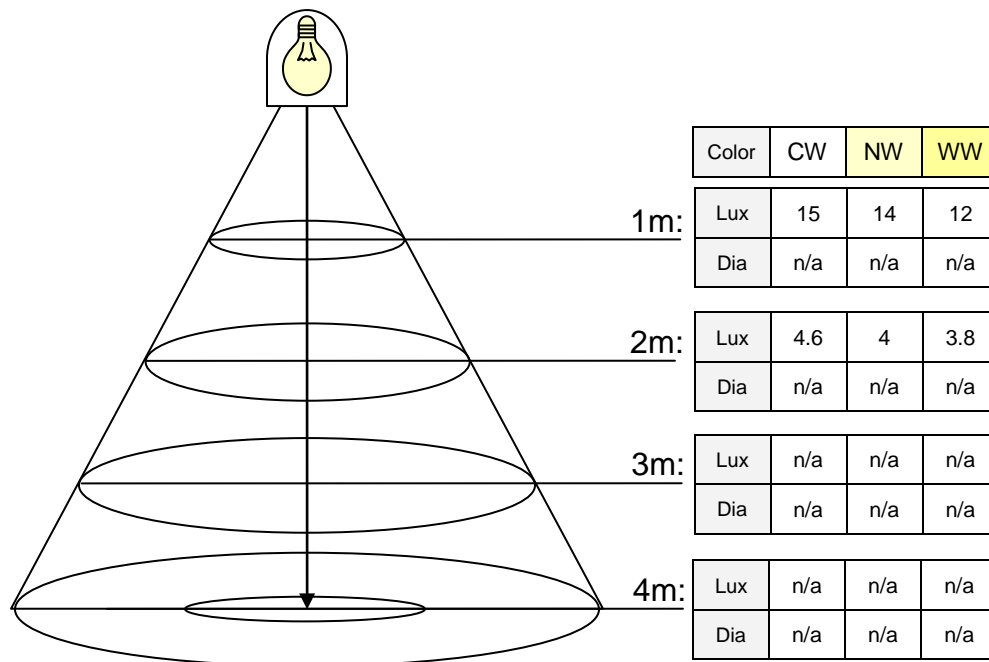
Typical Electrical Characteristics at $T_a=25^\circ\text{C}$

3W Model

Parameter	Symbol	Min	Typ	Max	Unit
Input Voltage (110V AC)	V_{AC}	100	—	120	V
Input Voltage (220V AC)	V_{AC}	200	—	240	V
LED Forward Current	I_F	—	600	—	mA
Estimated Life ^[*]		—	50,000	—	hours
Optimized Body Temperature (1X3W LED)	T	—	55	60	$^\circ\text{C}$

Note[*] – Manufacturer projects EcoLED lamp made with Cree XRE LED to maintain an average of 70% lumens maintenance after 50,000 hours. This estimation is made based on data from LED manufacturer

LED Bulb Illuminance Measurement



- Notes:
- 1) EcoLED Bulb typical illuminance data is measured with the LED bulb installed in recess reflector can
 - 2) Center beam lux is measured with Digital Lux Meter (Model TES-1334A)