

# LED Lamp

**Preliminary**

## 10W ES111



ES111 is an exceptionally high performance LED lamp built to last. It is a premium quality solid state lighting product precisely engineered and manufactured with state of the art technologies and materials. Proprietary driving circuit enables ES111 to replace traditional incandescent/halogen lamp, up to 75 Watt, directly without additional modification or transformer.

- Solid State Lighting Technology
- Decrease Energy Consumption
- Reduce CO<sub>2</sub> Emission
- Superior Quality Light
- Ecologically Friendly
- Built to Last

## Table of Contents

- Dimensions..... 2
- Absolute Maximum Rating..... 2
- Specifications..... 2
- Illuminance and Field Angles..... 3
- Light Patterns..... 4
- Lifetime..... 4
- Application Notes..... 4
- Package Information..... 5

## Dimensions

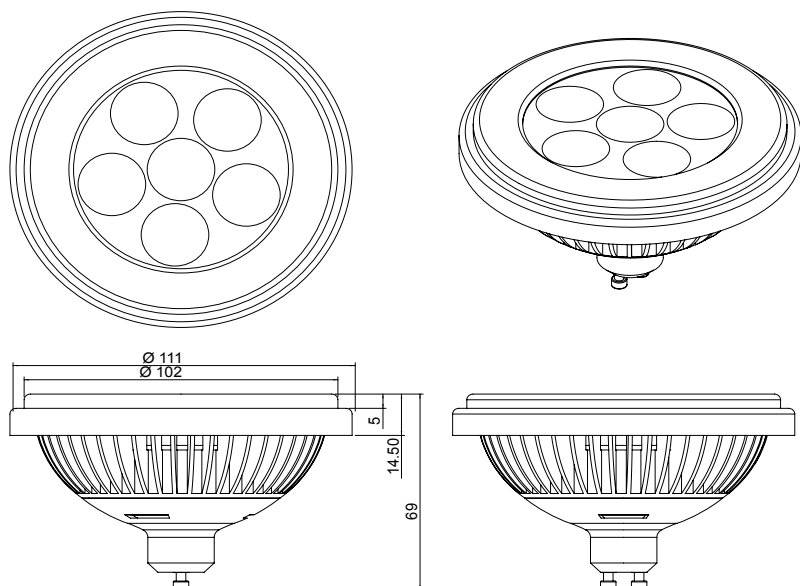


Figure 1: ES111 dimensions

Unit: mm  
Tolerance: ±2.5 mm

## Absolute Maximum Rating

Parameter	Rating	Units
LED Junction Temperature	125	°C
Aluminum Heat sink Temperature	70	°C
Operating Temperature	-30 ~ +40	°C
Storage Temperature	-40 ~ +60	°C
AC Input Voltage	110 ~ 240	V
Equilibrium Temperature	60	°C

Table 1: ES111 LED Lamp absolute maximum rating

## Specifications

ES111 LED Lamp	
Power Consumption	10 Watt
Field Angle	25° / 40°
Color Temperature	Cool White / Neutral White / Warm White
CRI	70
Weight	220g
Base	GU10

Table 2: ES111 LED Lamp specifications

## Illuminance and Field Angles

• Cool White / Neutral White / Warm White

Part Number	Power Consumption(W)	Field Angle	Lux@1m (Min.)	Lux*@ 1m (Typ.)	Flux(Typ.)	CCT(Typ.)
LB-ES111-102100	10W	25°	3900	4370	--	5650~7000K
LB-ES111-102200			2800	3100	--	3800~4500K
LB-ES111-102300		40°	2800	3100	--	2670~3050K
LB-ES111-104100			2900	3300	--	5650~7000K
LB-ES111-104200			2100	2350	--	3800~4500K
LB-ES111-104300			2100	2350	--	2670~3050K

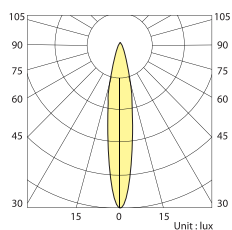
Table 3: ES111 LED Lamp illuminance and field angles

Notes:

1. Lux value is measured under thermal balanced condition. (i.e. after 1 hour continuous operation)
2. LED is a dynamic and constantly evolving technology. The final lux output of your ES111 LED Lamp may vary.
3. Input voltage = AC 110~240V

## Light Patterns

• 25°



• 40°

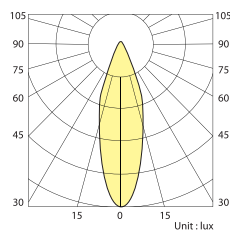


Figure 3: ES111 LED Lamp light patterns for different angles

## Lifetime

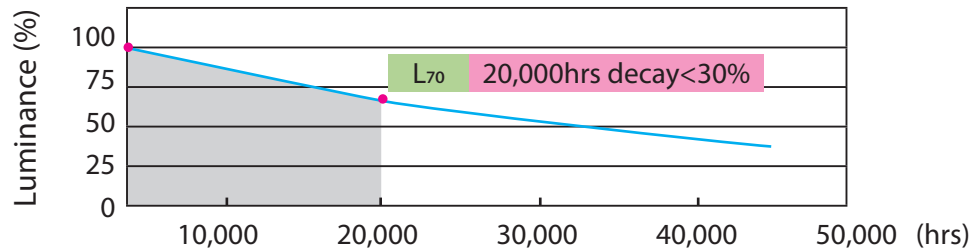
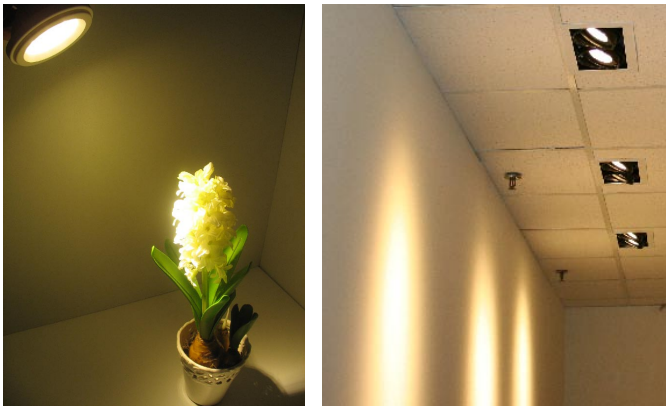


Table 4: ES111 LED Lamp Lifetime

## Application Notes

The compact and integral design of the ES111 LED Lamp make it ideal for a wide variety of lighting applications, including retail store spotlight, ceiling downlight, as well as many other accent lightings.

Various color temperature and beam pattern options are suitable for an array of scenarios. ES111 provides white color for customers' usages.



Note : As part of its policy of continuous research and development, Ledion Lighting reserves the right to change or withdraw specifications without prior notice.