

# LED Lamp

## 15W PAR38 (E27)



15W PAR38(E27) 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 15W PAR38(E27) to replace traditional incandescent/halogen lamp, up to 120 Watt, directly without additional modification or transformer.

- Solid State Lighting Technology
- Energy Saving(15W)
- Reduce CO<sub>2</sub> Emission
- Superior Quality Light
- Ecologically Friendly

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## Dimensions

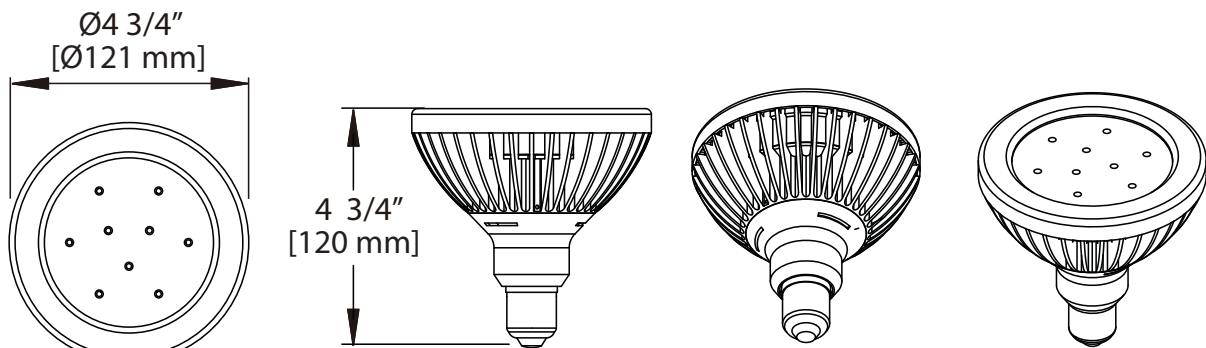


Figure 1: Dimensions for 15W PAR38(E27)

Tolerance: ± 1/8" [2.5 mm]

## Absolute Maximum Rating

Parameter	Rating	Units
Plastic Housing Temperature	80	°C
Operating Temperature	-20 ~ +40	°C
Storage Temperature	-40 ~ +60	°C
AC Input Voltage	100 ~ 240	V
Equilibrium Temperature	55	°C

Table 1: Absolute maximum rating for 15W PAR38(E27).

## Specifications

Parameter	Rating	Units
Power Consumption	15	Wattage
Field Angles	30 / 60	Degree
Color Temperature	3000 / 4000 / 6000	K
CRI	80 / 75 / 70	--
Weight	400 ± 5	g
Base	E27	--

Table 2: Specifications for 15W PAR38(E27).

## Illuminance and Field Angles

### • Cool White / Neutral White / Warm White

Power Consumption(W)	Part Number	Field Angles	CCT(Typ.)	Lux @1m (Min.)	Lux @ 1m (Typ.)	Lm (Min.)	Lm (Typ.)
15W	LB-P38-15310x		5650~7000K	4800	5100	680	730
	LB-P38-15320x	30°	3800~4500K	4500	4800	630	680
	LB-P38-15330x		2670~3050K	3700	4000	500	550
	LB-P38-15610x		5650~7000K	1060	1260	680	730
	LB-P38-15620x	60°	3800~4500K	990	1190	630	680
	LB-P38-15630x		2670~3050K	900	1100	500	550

Table 3: Illuminance and field angles for 15W PAR38(E27).

#### 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 15W PAR38(E27) may vary.
3. Input voltage = AC 100~240V

## Nomenclature

The following table describes the available colors, covers and angles.

**LB - P38 - 15 3 1 00**

X1                      X2                      X3    X4    X5    X6

X1	X2	X3
SSL Series	Product name	Wattage
Ledion Bulb	PAR38	15 = 15W

X4	X5	X6
Field Angle	Color	Cover
3 = 30° 6 = 60°	1 = Cool White 2 = Neutral White 3 = Warm White	00 = White 01 = Black

Figure 2: Nomenclature for 15W PAR38(E27).

## Light Patterns

The diagrams present the light patterns with respect to different color temperature and angles.

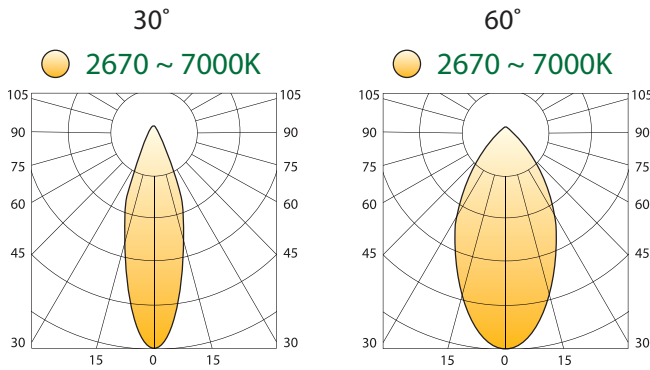


Figure 3: Light patterns of 15W PAR38(E27) for different field angles.

## Lifetime

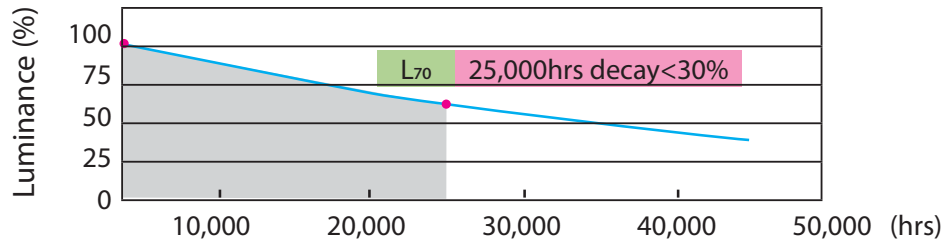


Table 4: Lifetime for 15W PAR38(E27).

## Application Notes

The compact and integral design of the 15W PAR38(E27) 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 options are suitable for an array of scenarios.

15W PAR38(E27) provides white color /neutral white and warm white 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.

## Environmentally Friendly

With the increasing demand for energy and the effect on global warming, Ledion Lighting plays a role in preserving the forest by reducing energy consumption, and CO<sub>2</sub> emission one step at a time.

Replacing traditional halogen lamp with Ledion Lighting 15W PAR38(E27) lighting application, one can help in reducing global warming by 353.8 kg of CO<sub>2</sub> annually.

15W PAR38(E27) VS 120W halogen PAR38

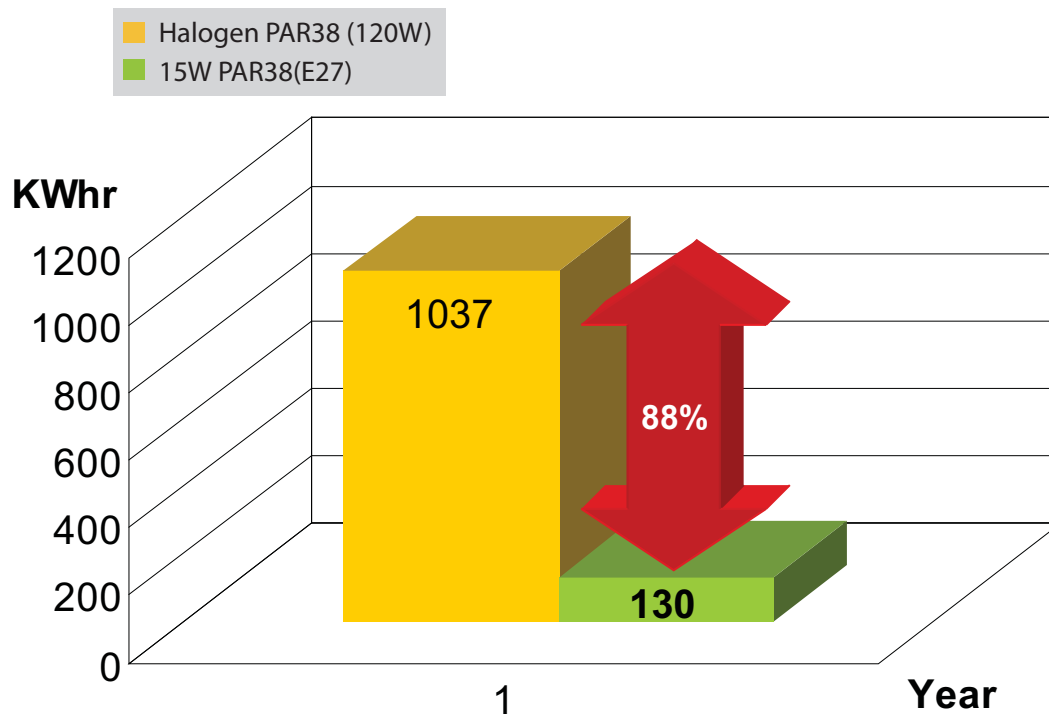
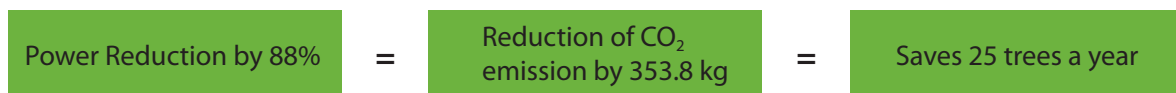


Figure 5 : 15W PAR38(E27) Environmentally Friendly.  
Note : 1.Calculation based on 24 hours of daily operation.

## Economical



**Power Consumption:** 120W  
**Expected Lifetime:** 1,000 hrs



**Power Consumption:** 15W Saving: 907.2 kWh / year  
**Expected Lifetime:** 40,000 hrs

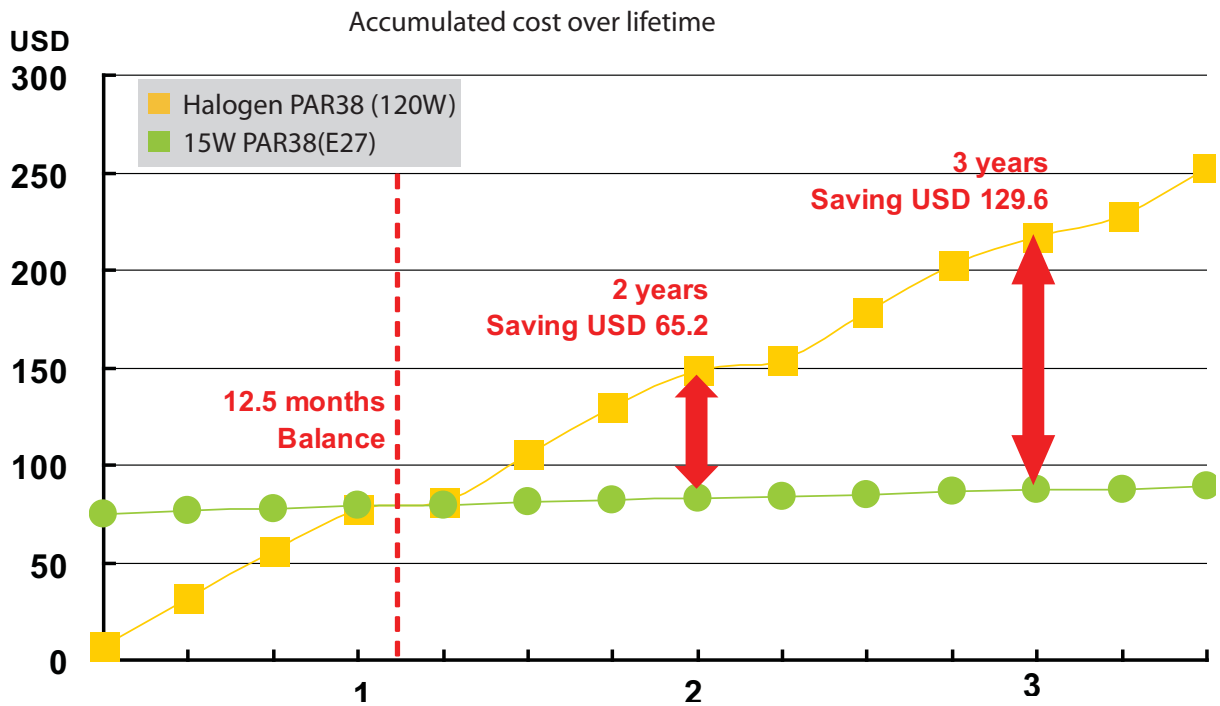


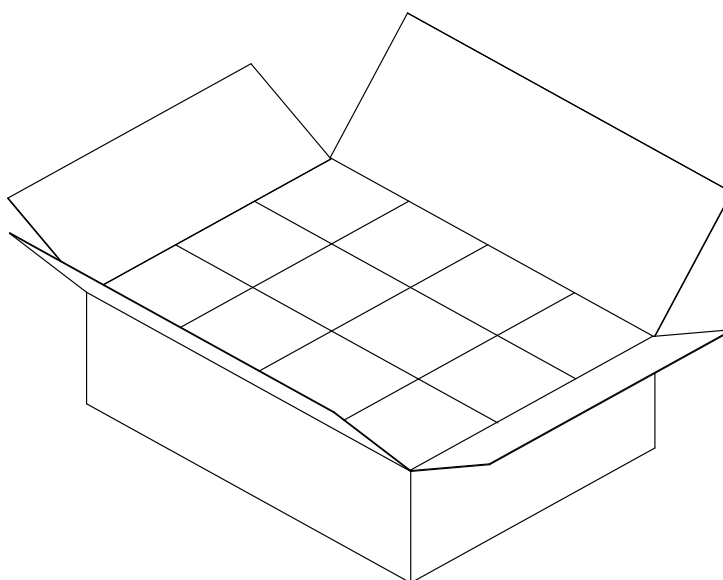
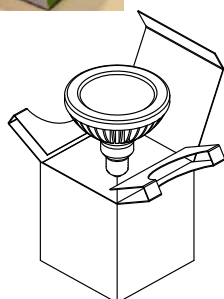
Figure 6 : 15W PAR38(E27) VS 120W halogen PAR38.

Notes : 1.Calculation based on 24 hours of daily operation (€9.41/kWh).  
 2.Cost includes the replacement of 120W halogen PAR38.

## Package Information(Standard)



Note : Interior Box Dimensions : 125mm(length)\*125mm(width)\*145mm(height)  
 Exterior Box Dimensions : 527mm(length)\*397mm(width)\*164mm(height)



Interior Box (per each 15W PAR38(E27) )

Exterior Box ( 12 Pcs. of 15W PAR38(E27) )

Figure 4: Standard Package for 15W PAR38(E27).

## List of the modifications

Versions	Modification	Date
1	1. Establish a Datasheet.	2009.04.06
2	1. Page layout update.	2009.08.12
3	1. Update the table of illuminance and Field Angles. 2. Update the table of Absolute Maximum Rating. 3. Update the table of specifications.	2009.10.02
4	1. Update the table of illuminance and Field Angles. 2. Update the Application Notes. 3. Add a figure of Nomenclature. 4. Update the Light Patterns.	2009.10.07
5	The dimensional drawing joins the British system the size.	2009.11.03
6	The Lifetime of L <sub>70</sub> Modified as 25,000hrs	2010.02.11
7	Modify the replace halogen type	2010.06.29
8	Modify the Illuminance and Field Angles.	2010.07.07
9	Modify the Illuminance.	2011.03.03

Table 5: List of the modifications for 15W PAR38(E27).