



LED Energy Saving Lamp P8DT-15A

Delta Electronics Inc.

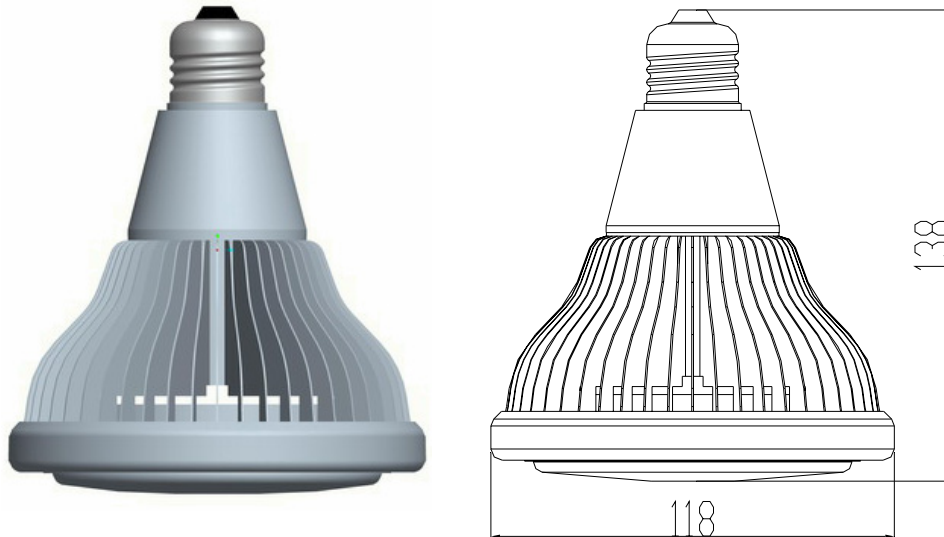
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OUTLOOK



APPLICATIONS

-  This product can be used as a direct replacement for 60~80W PAR 38 halogen lamp to save energy and protect our environment.

FEATURES

-  High power factor correction
-  Dimmable. Works with common incandescent (TRIAC) dimmer
-  RoHS Compliant
-  Mercury free
-  Long life



OPERATION CONDITION

Parameter	Minimum	Maximum
Input Voltage (AC)	100V	120V
Operating Temperature	-20°C	40°C
Storage Temperature	-40°C	85°C



SPECIFICATION

Optical

Stabilized (after 30 minutes warm-up) luminous flux at 25° C	740 Lm (Cool White) 420 Lm (Warm White)
Color Rendering Index (Ra)	70 (Cool White) 60 (Warm White)
Beam angle	80 degree, 25 degree
Dimming Range	1~100%
Available Color	Cool white / Warm white

Mechanical and Dimension

Dimension	118 X 138 mm
Weight	240 g

Electrical

Input Voltage	100~120VAC, 60Hz
Stabilized Power Consumption (typical)	14 Watt
Power Factor	0.9

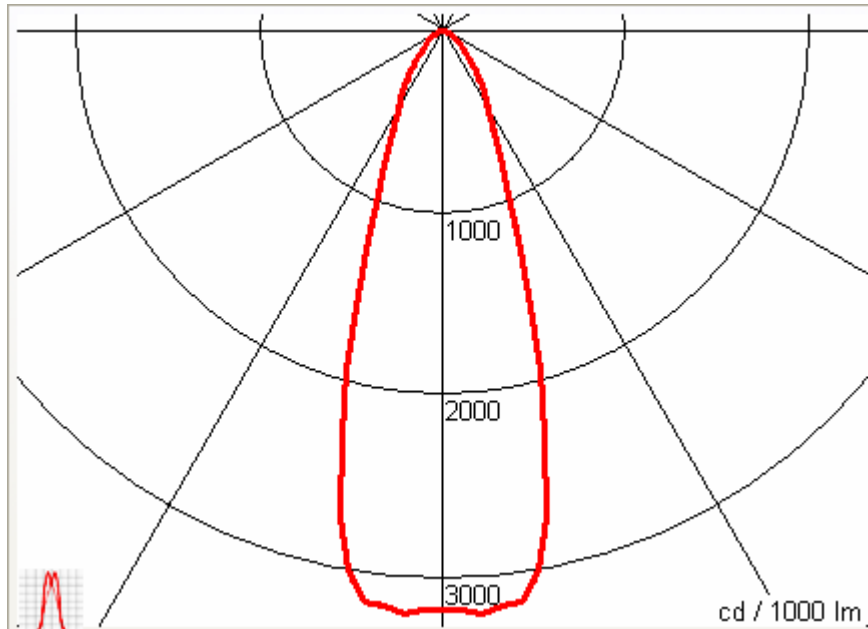
Note: Product specifications are subject to change without notice



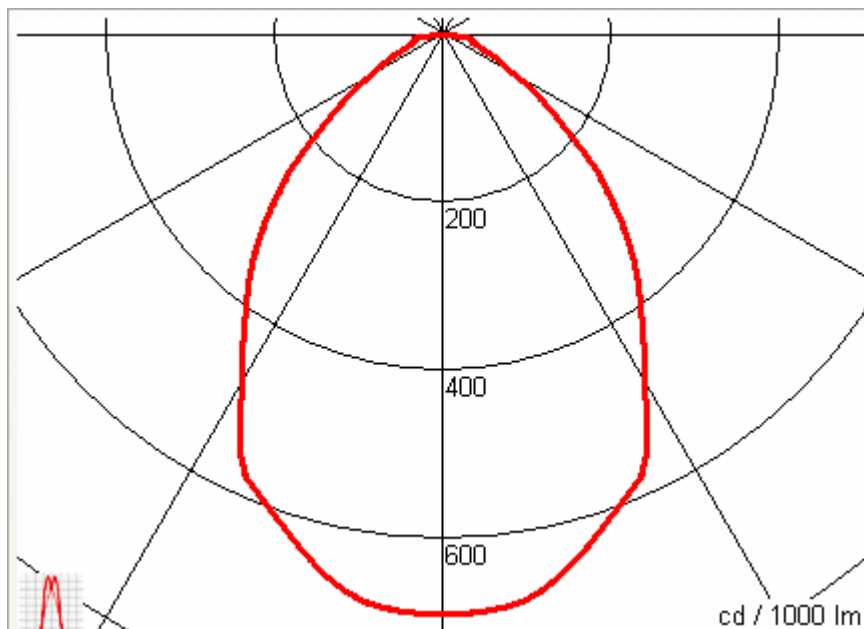
PHOTOMETRY

Typical Radiation Pattern

25 degree



80 degree

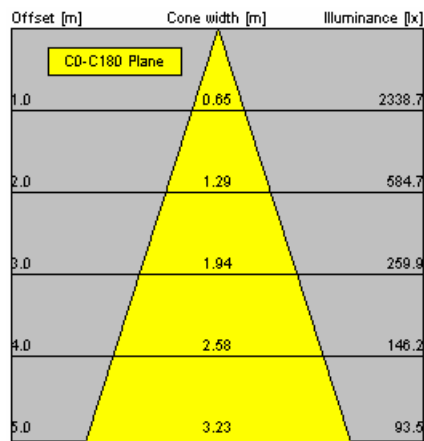




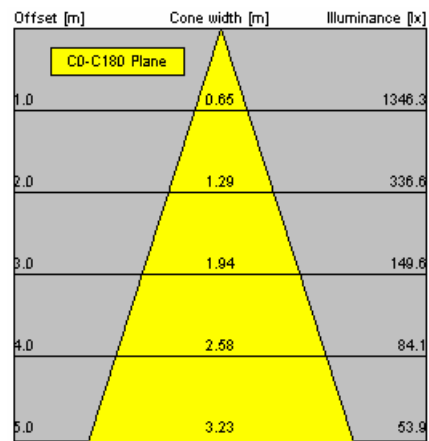
ILLUMINANCE

Part number	Beam Angle	Color	Lux at 1m
P8DT-15ASNWP	25	Warm white	1346
P8DT-15ASNDP		Cool White	2339
P8DT-15ASWWP	80	Warm white	293
P8DT-15ASWDP		Cool White	507

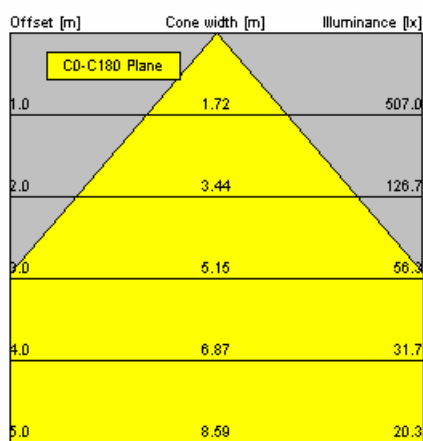
25 degree Cool White



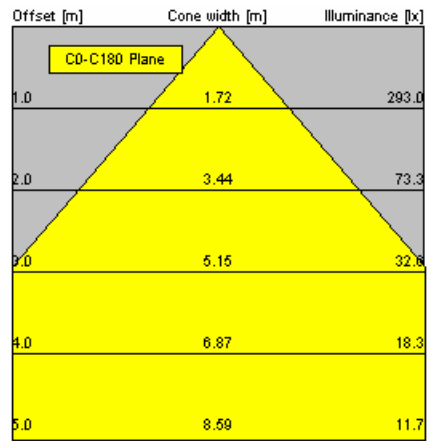
25 degree Warm White



80 degree Cool White

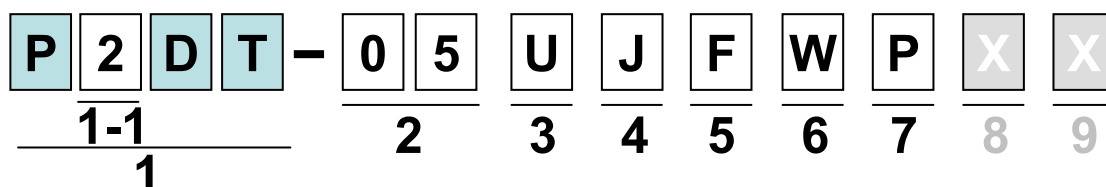


80 degree Warm White





PRODUCT CODE DEFINITION



1.SERIES CODE

P2DT : PAR Lighting

1-1 TYPE

- 2 : PAR 20
- 3 : PAR 30
- 8 : PAR 38

2.Input Power

- 05 : 5W
- 10 : 10W
- 15 : 15W

3.Input voltage

- U : 100-240V AC
- E : 200-240V AC
- A : 100-120V AC

4. Base Type

- J : E26/25
- A : E26/24
- B : B22d
- S : E27/27
- G : GU10

5.Light Pattern

- F : Flood
- S : Spot (<20 degree)
- N : Narrow(20-29 degree)
- M : Medium(30-59)
- W : Wide (60-80 degree)

6.COLOR

- W : Warm white
- N : Neutral white
- D : Daylight
- R : Red
- G : Green
- B : Blue

7.Features

- P : Premium (PFC+TRAIC Dimming)
- C : Commercial (only PFC)
- S : Step dimming
- D : TRAIC Dimming
- B : Basic (not dimmable, no PFC)

8.LED supplier

9. Binning



INSTALLATION

- ✚ This product is designed to direct replace PAR 38 halogen bulb.
- ✚ This product works with typical incandescent (TRIAC) dimmers.



WARNING

- ✚ This product is designed for indoor use only, not suitable for damp or wet locations
- ✚ Install this product in a fully enclosed fixtures may shorten lamp life due to heat buildup.



WARRANTY

- ✚ Delta warrants the LED lamp to be free of manufacturing defects in material and workmanship for a period of one year from date of purchase. If the Product is determined to be defective, Delta will repair or replace the Product, or give credit, at its option.



ENVIRONMENTAL BENEFIT

- ✚ This product provides the same luminous flux as a typical 80W halogen PAR38 lamp, which saves ~80% of the electricity cost and reduces 48g/hour CO₂ emission
- ✚ Delta Group is the world's largest provider of switching power supplies and brushless fans, as well as a major source for power management solutions, components, visual displays, industrial automation, networking products, and renewable energy solutions. Established in 1971, Delta Group has sales offices worldwide and manufacturing plants in Taiwan, Thailand, China, Mexico and Europe. As a global leader in power electronics, Delta's mission is "To provide innovative energy-saving products for a better quality of life." Delta is committed to environmental protection and has implemented green, lead-free production and recycling and waste management programs for many years. DELTA's LED lamp is compliant to the European Union directives on the restriction of hazardous substances in electronic equipment, namely the RoHS directive.



ECONOMIC BENEFIT

- ✦ This product has built-in power factor correction circuit (PF~0.9). PF of a typical CFL lamp is around 0.5~0.6. The power factor of an AC electric power system is defined as the ratio of the real power to the apparent power, and is a number between 0 and 1. Because the cost of each power line and transformer in a distribution system depends on the peak current it is designed to handle, a distribution system that is designed to handle the higher currents caused by loads with low power factor will cost more than a distribution system that delivers the same useful energy to loads with a power factor closer to 1.

Energy Comparison		80W	15W
		Halogen	P8DT-15ASNWP
Power Consumption (W)		80	15
Energy Saving			
Power (kW)		0.08	0.015
%		100%	19%
Power Consumption Per Year	kWh, 12hr/day light on	350	66
Power Saving Per Year (kWh)			285
Money Saving Per Year (USD)	\$0.15/kWh		43
3-Year Saving (USD)			128
3-Year Maintain Fee	Lamp \$6, life 3000 hr, 12 hr ON	26	0
3-Year Total Money Saving (USD)			154
3-Year Total CO2 Emission Saving (Kg)	0.736Kg CO2/kWh		629

End of Specification

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