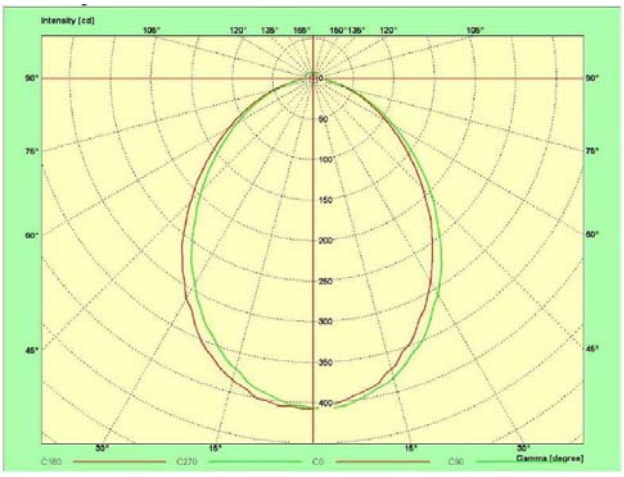
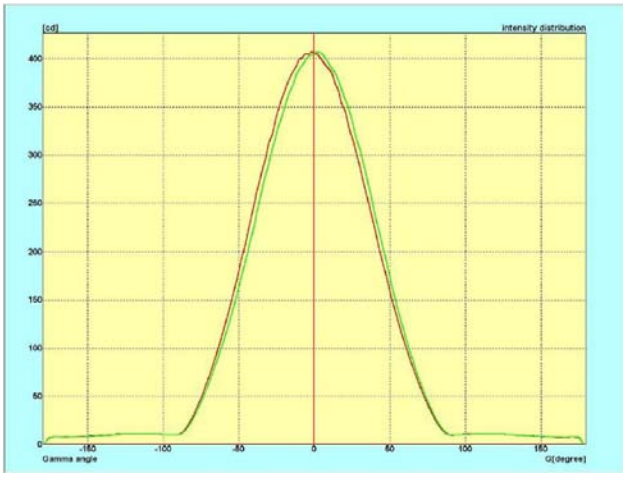
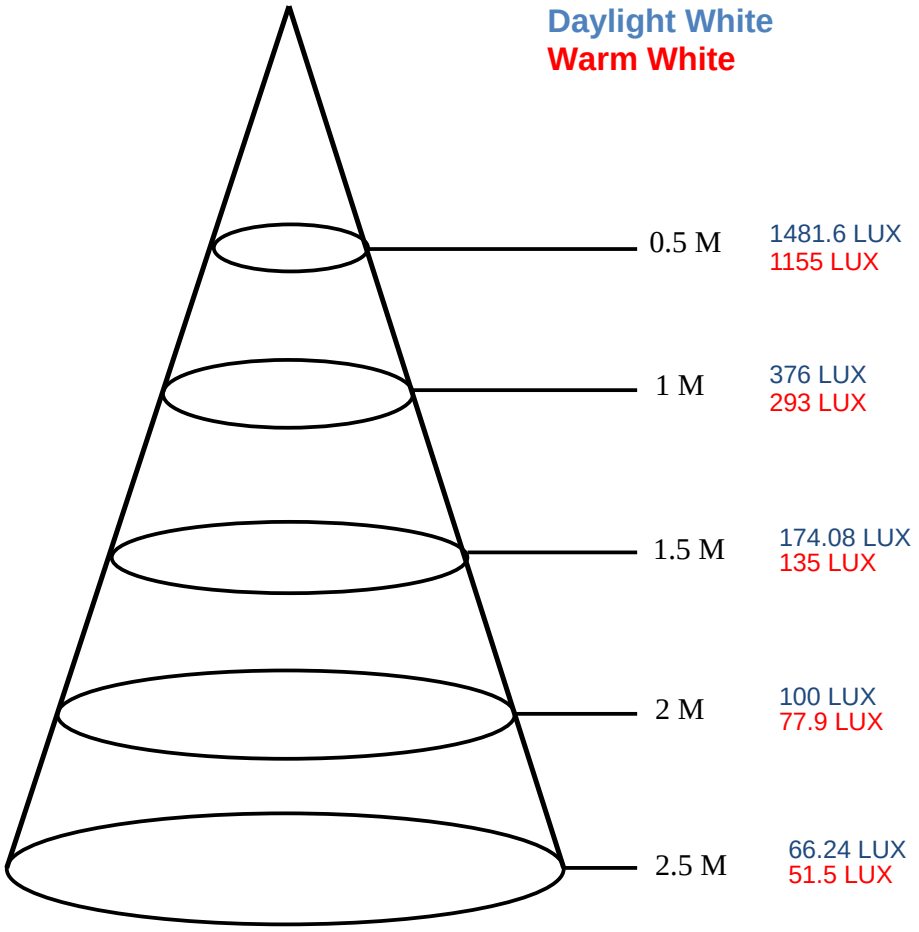
1. Polar Diagram



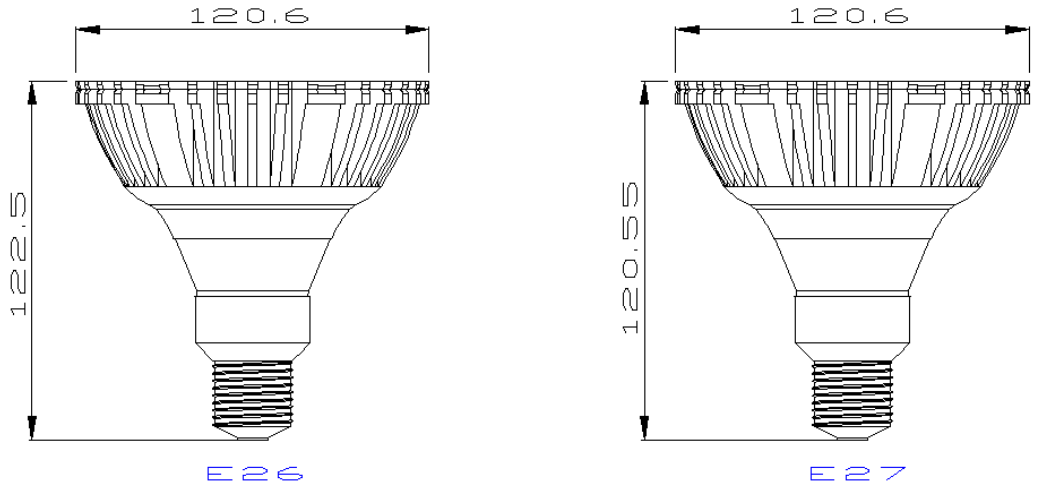
2. Cartesian Diagram





Mechanical Dimension (mm)

N15°, N25°, N40°, N60°, N80°, D120° E26 E27



Product Warranty

We warrant products for 1 year from the date of purchase to be free from defects in materials and workmanship which may lead to failure of the bulb to transmit light.

During the warranty period, if the product fails to perform as described above, our entire liability will be the repair or replacement of such defective product. In no event shall we be responsible for removal or reinstallation of any product or for the expenses thereof. The above warranty does not apply to, and we make no warranties with respect to products which have been subjected to misuse neglect, accident, abuse, or operating or environment conditions that deviate from the parameters established in applicable specifications; or have been improperly installed, or repaired or altered by anyone other than our factory; or have had their serial numbers or month and year of manufacture or shipment removed, defected or altered. This warranty is given only to the original purchasor and may not be assigned or transferred to any other party. It is purchasors obligation to retain documentation that indicated date of purchase.

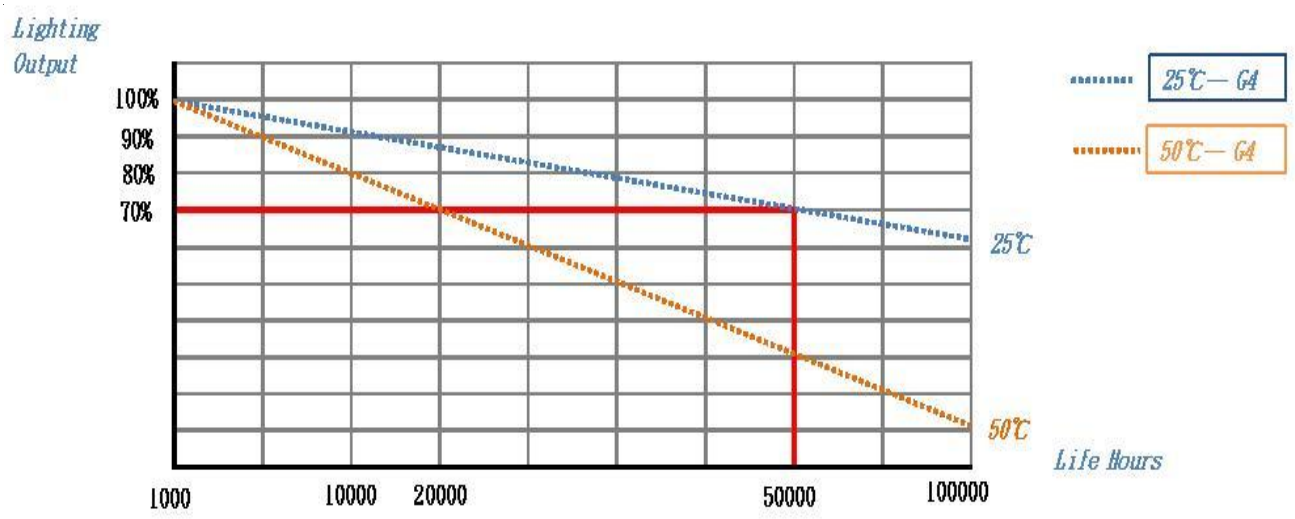
Safety & Environment Specifications

T-type Series PAR38 bulbs are manufactured to conform to the following safety criteria for CE, FCC, approbations & RoHS:

Although T-type Series PAR38 are suitable for both indoor and outdoor application, extreme care should be taken in wet conditions when working with mains powered devices:

Certificated Mark	Item of certificated standard
CE	EMC:EN55015,EN61000-3-2,EN61000-3-3,EN61547 (IEC61000-4-2, IEC61000-4-3 IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11) LVD: EN60968-1, EN60598-1, EN61347-2-13
F.C.C	PART 15B
RoHS	BTRS0605180105 Test Standard:2002/95/EC ; EPA3050B:1996,EN1122:2001, EPA3052:1996, EPA3060A, EPA7196, EPA7196, EPA3540C, EPA8270C

Life, Reliability and Lumen Maintenance



Lighting Output & Life Hours

Replacement with Halogen / Incandescent

LED Power	Total Power	Equal Halogen	Extend Life Time
1X1.3W (T-type)	2W	15W	6X
1X2.5W (O/T-type)	3W	20W	6X
1X4.0W (T-type)	5W	30W	6X
1X4.5W (MCE)	5.5W	45W	6X
3X1.3W (M-type)	5W	20W	6X
3X1.3W (T-type)	5W	35W	6X
4X1.0W (T-type)	5W	45W	6X
3X2.5W (T-type)	9W	50W	6X
5X1.0W (T-type)	6W	50W	6X
5X2.0W (T-type)	12W	65W	6X
6X1.2W (T-type)	9W	55W	6X
7X1.0W (T-type)	9W	65W	6X
9X1.3W (T-type)	14W	75W	6X
9X2.0W (T-type)	20W	120W	6X