

SHARP PERFORMANCE DATA SHEET



Packaging



Compliant standards

EN 62560:2012 + A11:2019
 EN 55015:2019 + A11:2020
 EN 61000-3-2:2019 + A1:2021
 EN 61000-3-3:2013 + A1:2019
 EN 61547:2009
 EN 62493:2010 + 2015
 EN 62471:2008
 IEC 62778:2014

Energy Class

All 2700K /3000K products are ranked as energy efficiency class:



2200-2700K product is

ranked as energy efficiency class:



Features

- * Very high light output
- * Very high light quality with CRI up to 97
- * Very long lifetime > 40,000hrs(L70F50), 5 years warranty
- * Suitable for enclosed fixtures
- * Excellent dimming performance
- * Complied with IEC/EN62471 photobiological safety standard

Electrical and Photometric Characteristics

Nominal wattage	6.8 W
Nominal voltage	220...240Vac
Operating frequency	50...60 Hz
Input current	40 mA
Inrush current	2.3 A
Inrush time measured at 50% Ipeak	22 μs
Power factor	0.8
Working temperature range	-20 °C ...+40 °C
Tc max	90 °C
Starting time	< 0.5 S
L70B50 lifetime at Ta: 25°C	40,000 hrs
Switching cycles	> 50,000 times
Dimmable	Yes
Beam angle	60°
Color consistency	SDCM 3
Color rendering index	97
Percent flicker	< 2 %
Pst LM	< 0.1
Stroboscope effect metric (SVM)	< 0.1
Photobiological safety group acc. to EN62778	RG 1
Type of protection	IP 20
Energy Consumption kWh/1000 h	7 kWh
CE Mark	Yes
EU RoHS compliant	Yes
Max. lamp no. on circuit break. 10 A (B)	140
Max. lamp no. on circuit break. 16 A (B)	220

* Exceeding maximum ratings for operating temperature and input voltage will reduce expected lifetime or destroy the product.

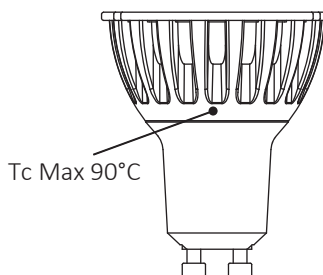
Specifications

EAN 13 Code	CCT	Total Lumen	90° Cone Lumen	CRI	Beam angle*	Luminous Intensity	Energy Class
Sharp Performance							
5781100000279	2700 K	530 lm	500 lm	97	60°	560 cd	F
5781100000309	3000 K	540 lm	510 lm	97	60°	590 cd	F
Sharp Performance Sunfall							
5781100022271	2200-2700 K	520 lm	480 lm	97	60°	450 cd	G

* Due to the special conditions of the manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical value. Elite lighting maintains a tolerance of $\pm 10\%$ on lumen and power measurements, and ± 2 on CRI, and $\pm 15\%$ on luminous intensity.

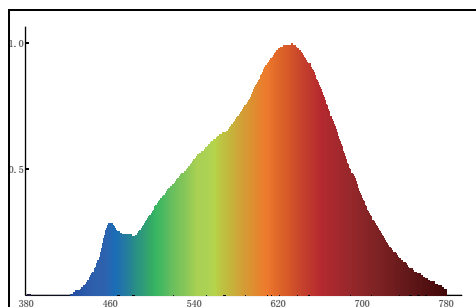
Dimension Diagram

Item	Diameter	Max Height
SHARP PERFORMANCE	50 mm	57 mm

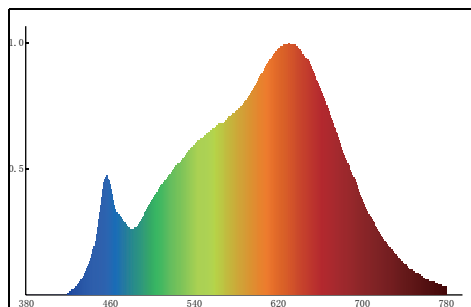


Spectrum Distribution

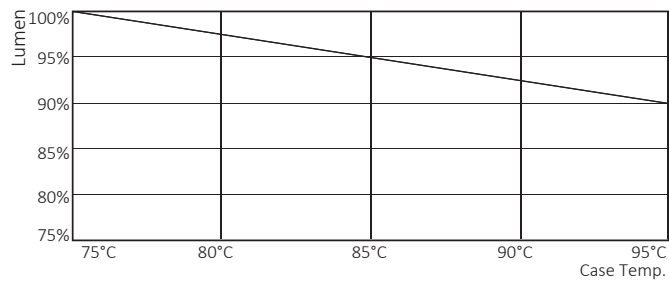
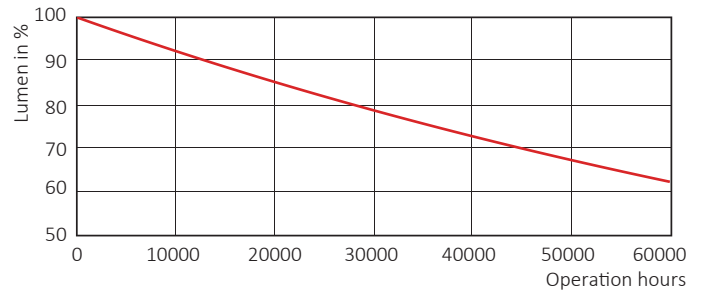
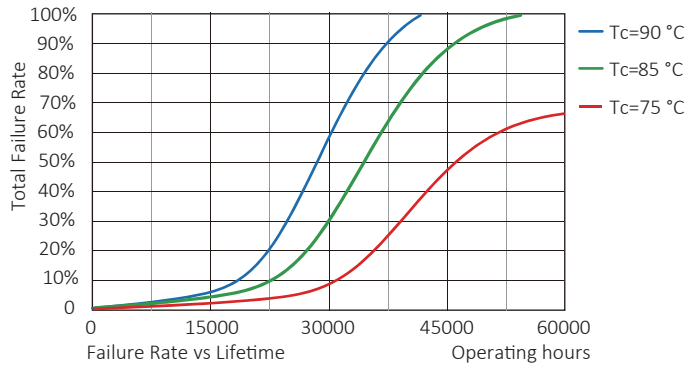
Warm white - 2700K



Warm white - 3000K



Performance data



The Sharp Performance family has a lifetime of 40,000 hours, defined as the number of hours when 50% of a large group of identical lamps becomes below 70% of its initial lumen output.

The Sharp Performance GU10 is suitable for use in fully enclosed fixtures, subject to the maximum heatsink temperature limits stated in this datasheet.

Lifetime estimation based on the application environment condition: please refer to the Tc for lifetime forecast.