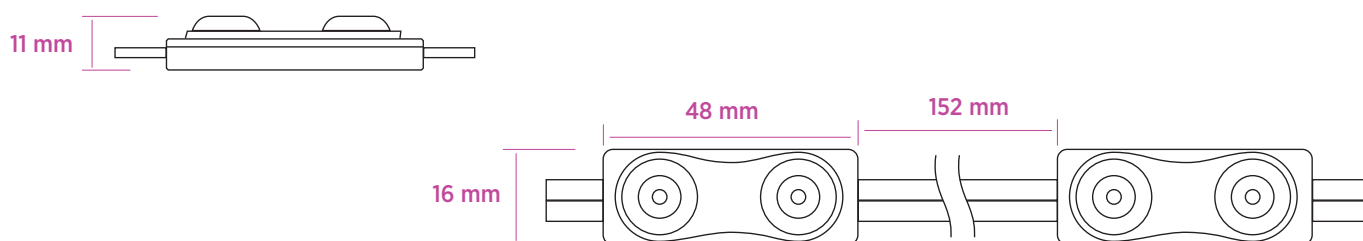




Dimension:



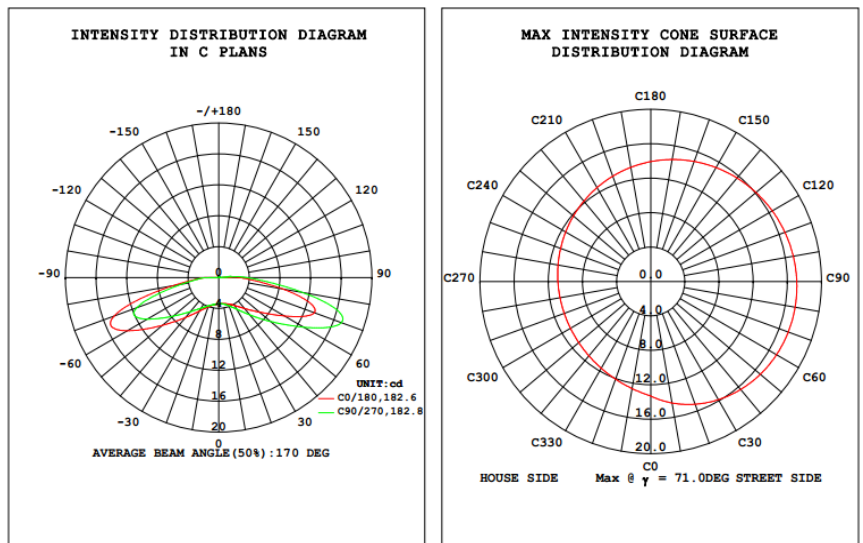
Feature:

- 90% transmittance lens, wide view angle 170°
- Bright illumination with fewer modules
- Constant Voltage Technology. 20 pcs per series
- 170 degree view angle, with less qty in square meter
- Injection molding process. Waterproof:IP 67
- Energy saving. Environment friendly
- Long life span
- Suitable for 4-8 cm height channel letters and light boxes backlighting etc.

Parameter of Product:

Code	Color	"Opration Voltage"	"Rated Current"	"Rated Power"	"Beam Angle"	Luminous Flux	Efficiency	CCT	IP Rank
2SMD170HW	White 6000-6500	DC12V	60mA	0,72W	170°	110Lm	>150LM/W	2800-11000K	IP 67

Distribution curve:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017-03-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 1.100m [K=0.9954]
Remarks:

Typical optical characteristics curves :

Color Parameter

Chroma Coordinate: $x=0.3023$ $y=0.3199$ $u=0.194$ $v=0.3079$ $Duv=0.0040$

Chroma Coordinate: $u'=0.194$ $v'=0.4618$

CCT: CCT=7210K Dominant: $d=486nm$ Barycenter: $b=538nm$ Peak Wavelength: $p=451.9nm$

FWHM: 16.61nm Purity: $Pe=11.52\%$ Red Ratio: $R=0.117$ Green Ratio: $G=0.836$ Blue Ratio: $B=0.047$

Color CRI: $Ra=75.35$

R 1=73

R 2=80

R 3=81

R 4=75

R 5=73

R 6=70

R 7=85

R 8=65

R 9=18

R10=48

R11=72

R12=39

R13=75

R14=90

R15=70

Luminosity Parameter

Luminous Flux(380-780nm): 112.301lm Optical Power(380-780nm): 0.357W Efficient(380-780nm): 156lm/W

Electric Parameter

Voltage: $U=12V$ Current: $I=60mA$ Power: $P=0.72W$ PF: PF=1

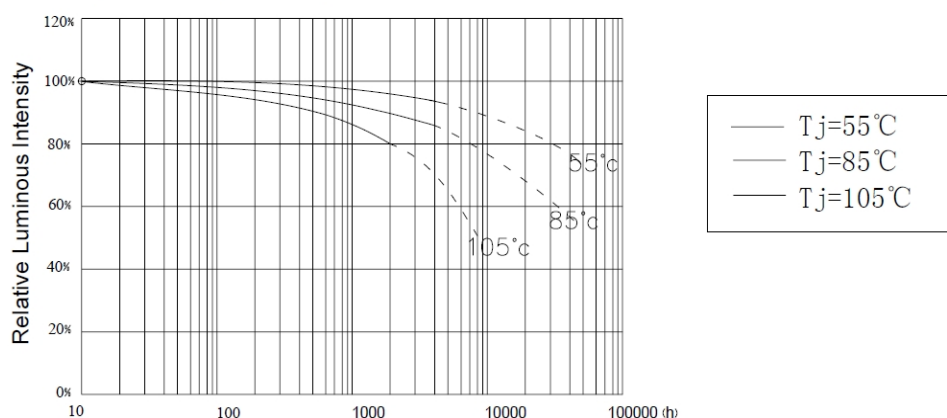
Device State

Wavelength Range: 380nm-780nm Wavelength Interval: 1nm

Affect of Tj on Luminous Maintenance:

life test:

Affect of Tj on Luminous Maintenance
(If=40mA)
(Dot line: Expected Life)



Absolute maximum ratings:

Parameter	Symbol	Value	Unit
Power dissipation	Pd	0.72	W
Forward current	If	60	mA
Reverse voltage	Vr	15	v
Operating temperature range	Top	-40 ~+100	°C
Storage temperature range	Tstg	-40 ~+100	°C
Pulse forward current	Ifp	150	mA
Electrostatic discharge	ESD	2000(HBM)	V
Junction temperature	Tj	85	°C