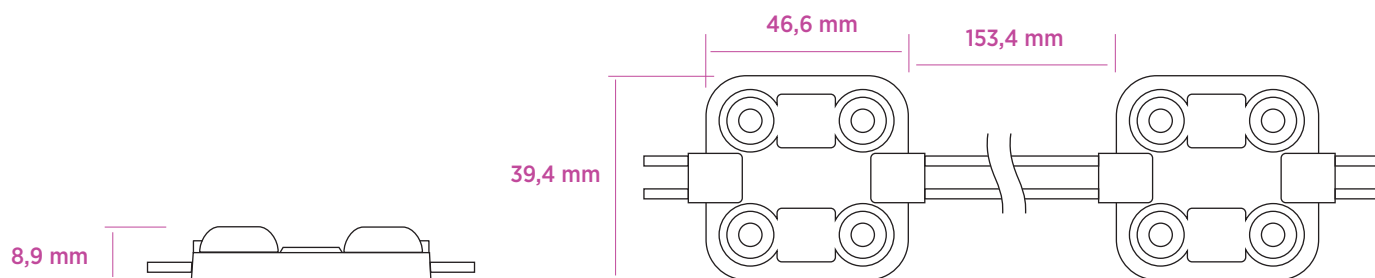




Dimension:



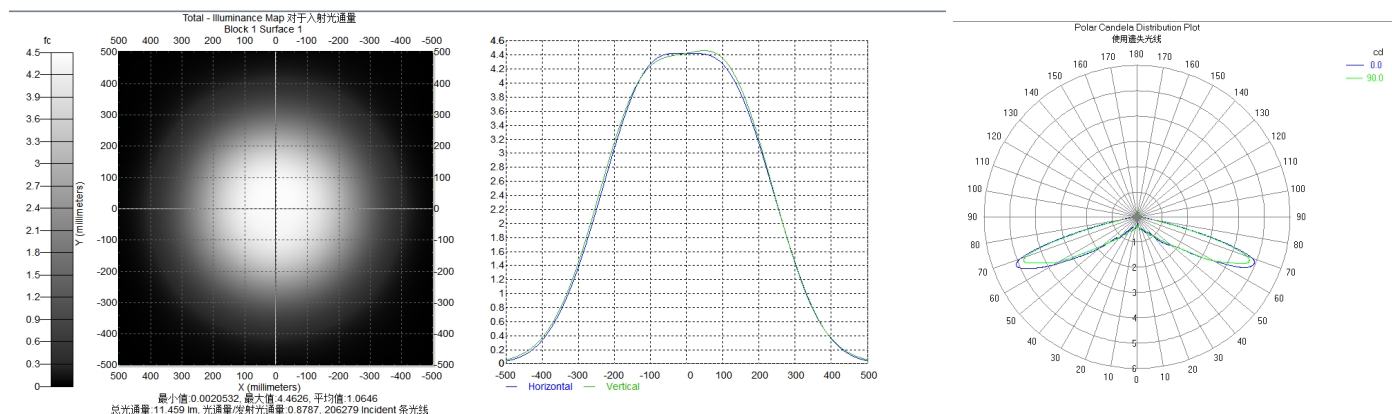
Feature:

- High Efficiency design, 170lm/w
- The Aluminum plate for heat dissipation
- 170 degree view angle, with less qty in square meter
- Injection molding process. Waterproof: IP 67
- Bigger chip, 10% brighter than before
- Energy saving, environment friendly
- Long life span
- Suitable for 15-30 cm height channel letters and light boxes backlighting etc.

Parameter of Product:

Code	Color	"Operation Voltage"	"Rated Current"	"Rated Power"	"Beam Angle"	Luminous Flux	Efficiency	CCT	IP Rank
4SMD170HW	White 6000-6500	DC12V	120mA	1,44W	170°	240Lm	150LM/W	2800-10000K	IP 67

Distribution curve:



Typical optical characteristics curves :

Color Parameter

Chroma Coordinate: $x=0.3011$ $y=0.3183$ $u=0.1937$ $v=0.3072$ $Duv=0.0039$

Chroma Coordinate: $u'=0.1937$ $v'=0.4608$

CCT.: CCT=7316K Dominant: $d=485.5nm$ Barycenter: $b=537nm$ Peak Wavelength: $p=450.3nm$

FWHM: 18.07nm Purity: $Pe=12.14\%$ Red Ratio: $R=0.116$ Green Ratio: $G=0.838$ Blue Ratio: $B=0.046$

Color CRI.: $Ra=74.87$

R 1=73	R 2=78	R 3=79	R 4=76	R 5=74	R 6=69	R 7=84
R 8=65	R 9=-18	R 10=45	R 11=73	R 12=41	R 13=74	R 14=89
R 15=70						

Luminosity Parameter

Luminous Flux(380-780nm): 243.331lm Optical Power(380-780nm): 0.756W Efficient(380-780nm): 170.4lm/W

Electric Parameter

Voltage: $U=12V$ Current: $I=119mA$ Power: $P=1.428W$ PF: PF=1

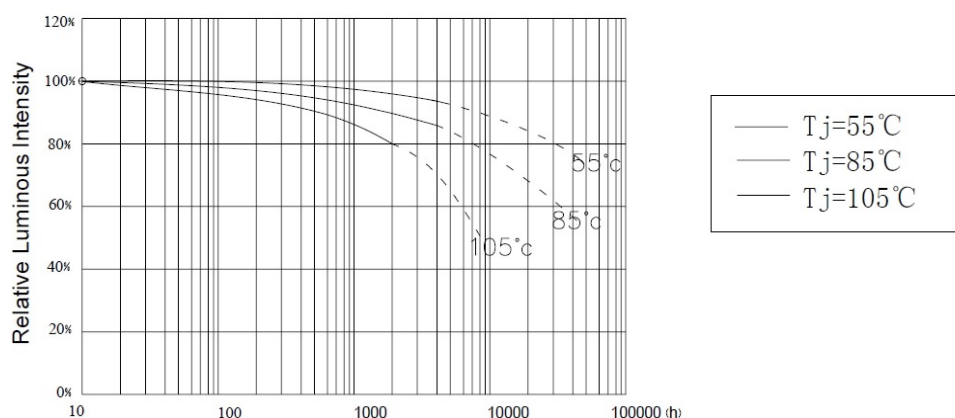
Device State

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
Forward current	If	120	mA
Reverse voltage	Vr	5	V
Operating temperature range	Top	-40 ~ +85	°C
Storage temperature range	Tstg	-35 ~ +85	°C
Pulse forward current	Ifp	150	mA
Electrostatic discharge	ESD	2000(HBM)	V