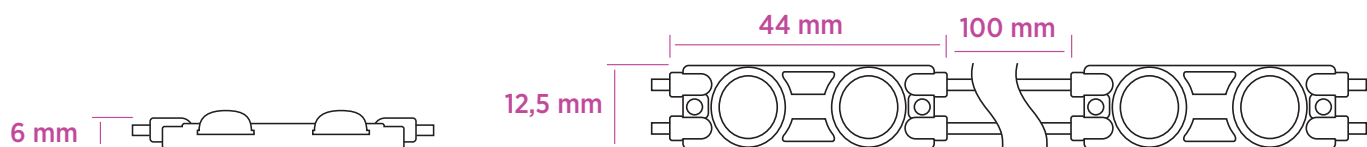




Dimension:



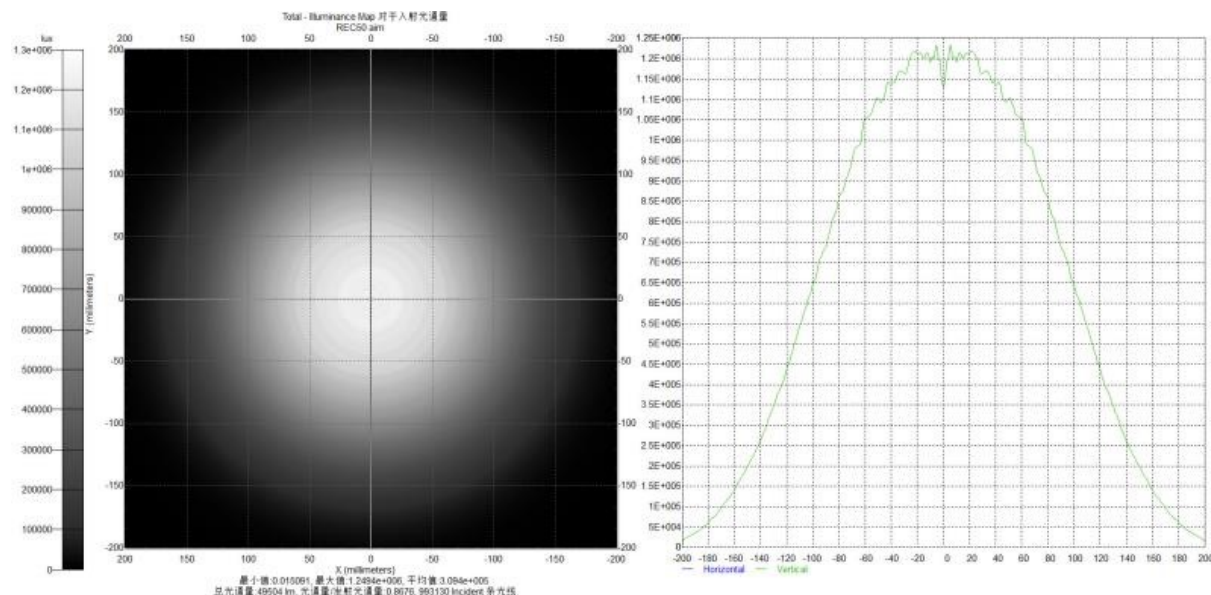
Feature:

- Constant Voltage, 20 pcs per series
- The Aluminum plate for heat dissipation
- Injection molding process. Waterproof:IP 65
- Bigger chip, 10% brighter than before
- Energy saving. Environment friendly
- Use Alu PCB, better heat dissipate, Longer life span
- Suitable for 5-12cm height channel letters and light boxes backlighting etc.

Parameter of Product:

Code	Color	"Opration Voltage"	"Rated Current"	"Rated Power"	"Beam Angle"	Luminous Flux	CCT	Working Temp.	IP Rank
2SL16548W	White 6500	DC12V	40mA	0,48W	165°	50-55 Lm	2800-15000K	-40°C-60°C	IP 65

Distribution curve:



Typical optical characteristics:

Color Parameter

Chroma Coordinate: $x=0.3092$ $y=0.329$ $u=0.1954$ $v=0.3119$ $Duv=0.0051$

Chroma Coordinate: $u'=0.1954$ $v'=0.4678$

CCT.: CCT=6697K Dominant: $d=489.4nm$ Barycenter: $b=541nm$ Peak Wavelength: $p=451.4nm$

FWHM: 19.39nm Purity: $Pe=8.467\%$ Red Ratio: $R=0.119$ Green Ratio: $G=0.838$ Blue Ratio: $B=0.043$

Color CRI.: $Ra=73.92$

R 1=71	R 2=78	R 3=80	R 4=74	R 5=72	R 6=69	R 7=84
R 8=63	R 9=24	R 10=45	R 11=71	R 12=40	R 13=72	R 14=89
R 15=67						

Luminosity Parameter

Luminous Flux(380-780nm): 55.6965lm Optical Power(380-780nm): 0.174W Efficient(380-780nm): 105.5lm/W

Electric Parameter

Voltage: $U=12V$ Current: $I=44mA$ Power: $P=0.528W$ PF: PF=1

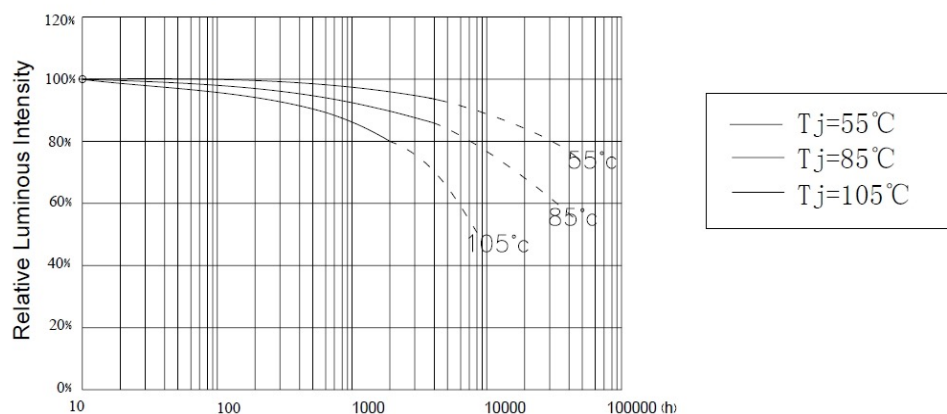
Device State

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	40	mA
Reverse voltage	Vr	5	V
Operating temperature range	Top	-20 ~+85	°C
Storage temperature range	Tstg	-35~+85	°C
Pulse forward current	Ifp	150	mA
Electrostatic discharge	ESD	2000(HBM)	V