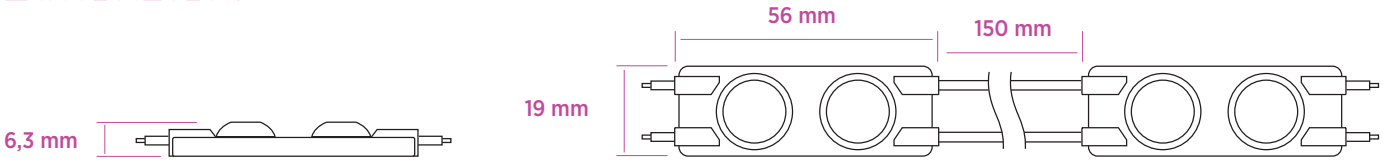
# LED MODULAR EXTERIOR
# 2 TXT ECO 1W – 170°

## Dimension:




## Feature:

- 95% transmittance lens, wide view angle 170°
- Constant Voltage, 20 pcs per series
- Injection molding process
- Use 1.5mm thickness  Aluminum PCB for heat dissipation
- Energy saving, environment friendly
- Special Opitical Lens,can reach ratio 1:2.5
- Suitable for 4-10cm height channel letters and light boxes backlighting etc.

## Parameter of  Product:

| Code | Color | "Opration Voltage" | "Rated Current" | "Rated Power" | "Beam Angle" | Luminous Flux | Working Temp. | IP Rank |
|---|---|---|---|---|---|---|---|---|
| 2SMD170EW | White 6000-6500 | DC12V | 85mA | 1W | 170° | 110Lm | -40°C-60°C | IP 65 |
| 2SMD170EC | White 2800-3200 | DC12V | 85mA | 1W | 170° | 110Lm | -40°C-60°C | IP 65 |
| 2SMD170EB | White 4000-4500 | DC12V | 85mA | 1W | 170° | 110Lm | -40°C-60°C | IP 65 |
| 2SMD170ER | RED | DC12V | 85mA | 1W | 170° | 20,4Lm | -40°C-60°C | IP 65 |



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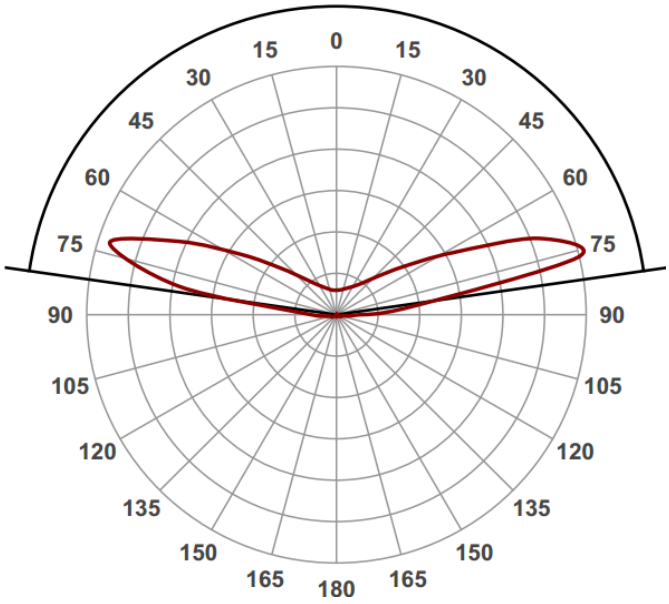
## Distribution curve:




## Distribution curve:

### Color Parameter

Chroma Coordinate:x=0.3042 y=0.3141 u=0.1975 v=0.3059 Duv=0.0000
Chroma Coordinate:u'=0.1975 v'=0.4589
CCT.:CCT=7178K Dominant: d=482.7nm Barycenter: b=539nm Peak Wavelength: p=450.8nm
FWHM: 23.44nm Purity:Pe=11.54% Red Ratio:R=0.121 Green Ratio:G=0.835 Blue Ratio:B=0.044
Color CRI.:Ra=75.23

| | | | | | | |
|---|---|---|---|---|---|---|
| R 1=75 | R 2=78 | R 3=77 | R 4=77 | R 5=75 | R 6=69 | R 7=84 |
| R 8=68 | R 9=-10 | R10=44 | R11=74 | R12=43 | R13=75 | R14=87 |
| R15=73 | | | | | | |

### Luminosity Parameter

Luminous Flux(380-780nm):97.7757lm Optical Power(380-780nm):0.319W Efficient(380-780nm):99.37lm/W

### Electric Parameter

Voltage: U=12V Current: I=82mA Power: P=0.984W PF: PF=1

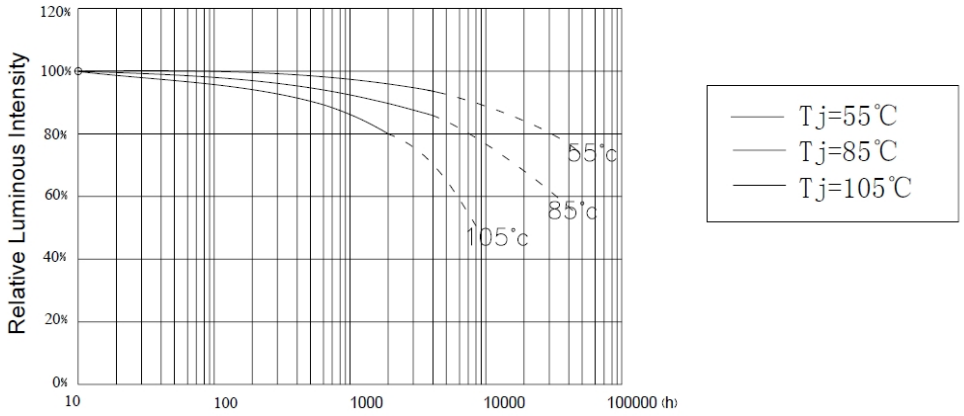
### Device State

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 | 85 | mA |
| **Reverse voltage** | Vr | 5 | V |
| **Operating temperature range** | Top | -20 ~+85 | ºC |
| **Storage temperature range** | Tstg | -35~+85 | ºC |
| **Pulse forward current** | Ifp | 200 | mA |
| **Electrostatic discharge** | ESD | 2000(HBM) | V |