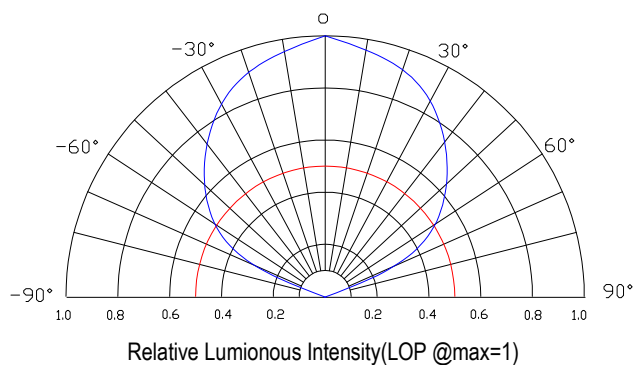


## FYLP-1W-UWL

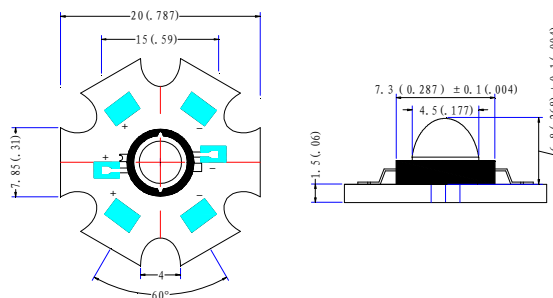
### Features:

- Long operating life
- Highest flux
- Available in White
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam,safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- Eutectic die band,lower Rth.
- ROHS compliant –Lead-free
- Instant light (less than 100ns)

### Radiation Pattern



### Package Dimensions



### Applications

- Reading lights (car,bus,aircraft)
- Portable(flashlight,bicycle)
- orientation
- Mini-accent
- Decorative
- Fiber optic alternative
- Appliance
- Sign and channel letter
- Architectural detail
- Cove lighting
- Automotive exterior ( stop-Tail-turn,CHMSL,Mirror side repeat)
- Edge-lit signs(Exit,point of sale)

■ **Typical Optical/Electrical Characteristics@T<sub>J</sub>=25℃**

| Item                                 | symbol            | Condition             | Min | Typ  | Max | Unit |
|--------------------------------------|-------------------|-----------------------|-----|------|-----|------|
| Forward Voltage                      | V <sub>F</sub>    | I <sub>F</sub> =350mA | 3.0 | -    | 3.6 | V    |
| Reverse Current                      | I <sub>R</sub>    | V <sub>R</sub> =5V    |     |      | 50  | uA   |
| 50% Power Angle                      | 2θ <sub>1/2</sub> | I <sub>F</sub> =350mA | 110 | 120  | 130 | deg  |
| Luminous Intensity                   | Φ <sub>v</sub>    | I <sub>F</sub> =350mA | 60  | 65   |     | LM   |
| Recommend Forward Current            | I <sub>F</sub>    |                       |     | 350  |     | mA   |
| <b>Chromaticity coordinates</b>      | X                 | I <sub>F</sub> =350mA |     | 0.30 |     |      |
|                                      | Y                 |                       |     | 0.30 |     |      |
| Thermal Resistance, Junction to Case | R <sub>jp</sub>   | I <sub>F</sub> =350mA |     | 10   |     | ℃/W  |

- Notes: 1. Tolerance of measurement of forward voltage  $\pm 0.1\text{v}$   
 2. Tolerance of measurement of peak Wavelength  $\pm 2.0\text{nm}$   
 3. Tolerance of measurement of luminous intensity  $\pm 15\%$ .

■ **Absolute Maximum Rating**

| Item                        | symbol           | Absolute Maximum Rating | Unit |
|-----------------------------|------------------|-------------------------|------|
| Forward Current             | I <sub>F</sub>   | 350                     | mA   |
| Peak Forward Current*       | I <sub>FD</sub>  | 500                     | mA   |
| Reverse Voltage             | V <sub>R</sub>   | 5                       | V    |
| Power Dissipation           | P <sub>D</sub>   | 1000                    | mW   |
| Electrostatic discharge     | ESD              | $\pm 4500$              | V    |
| Operation Temperature       | T <sub>OPR</sub> | -30℃ to +80℃            |      |
| Storage Temperature         | T <sub>STG</sub> | -40℃ to +100℃           |      |
| Lead Soldering Temperature* | T <sub>SOL</sub> | 260℃ for 3 Seconds Max  |      |

- IFP Conditions :Pulse Width  $\leq 10\text{ msec}$  duty  $\leq 1/10$
- All high Power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly ,but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.
- Re-flow, wave peak and soak-stannum soldering etc. is not suitable for this products.
- Suggest to solder it by professional high power LED soldering machine.
- Can use invariable -temperature searing-iron with soldering condition:  $\leq 260$  degree less than 3 seconds.

## ■ Typical optical/Electrical Characteristics Curves (Tj=25°C Unless Otherwise Noted)

