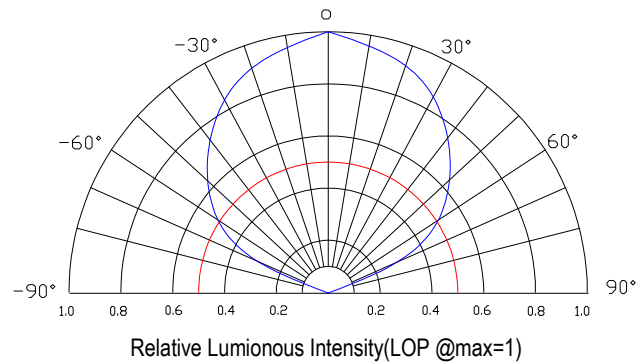


## FYLP-3W-UBB

### Features:

- Long operating life.
- Highest flux per LED family in the world.
- Available in Blue.
- 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
- Lower Rth
- ROHS compliant-Lead-free

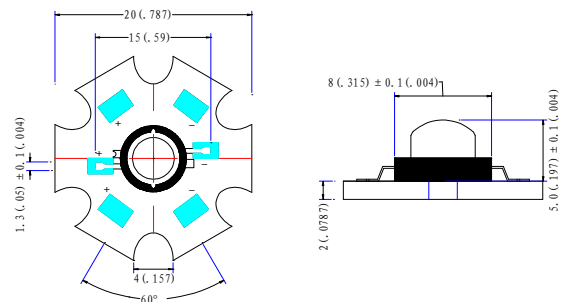
### Radiation Pattern



### Package Dimensions

### Applications

- Reading lights (car, bus, aircraft)
- LCD Backlights /light Guides.
- Fiber optic alternative/Decorative/Entertainment
- Mini-accent/Up lighters/Down lighters/ Orientation
- Indoor/Outdoor commercial and Residential Architectural
- Cove/Under shelf /Task
- Bollards/Security/Garden
- Portable(flashlight,bicycle)
- Edge-lit signs (Exit, point of sale)
- Automotive Exit (stop –tail-Turn ,CHMSL,Mirror Side Repeat)
- Traffic signaling / Beacons/ rail Crossing and Wayside



■ **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> =800mA | 3.4 | 3.6 | 4.0 | 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> =800mA | 110 | 120 | 130 | deg  |
| Luminous Intensity                  | Φ <sub>v</sub>    | I <sub>F</sub> =800mA | 15  | 22  | -   | LM   |
| Recommend Forward Current           | I <sub>F</sub>    |                       |     | 800 |     | mA   |
| Wave length                         | λ <sub>d</sub>    | I <sub>F</sub> =800mA | 460 |     | 470 | nm   |
| Thermal Resistance,Junction to Case | R <sub>jp</sub>   | I <sub>F</sub> =800mA |     | 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>   | 800                     | mA   |
| Peak Forward Current*       | I <sub>FD</sub>  | 1200                    | mA   |
| Reverse Voltage             | V <sub>R</sub>   | 5                       | V    |
| Power Dissipation           | P <sub>D</sub>   | 3000                    | 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:  $\leq 260\text{ degree}$  less than 3 seconds.

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

