

## FYLP-1W-UYS

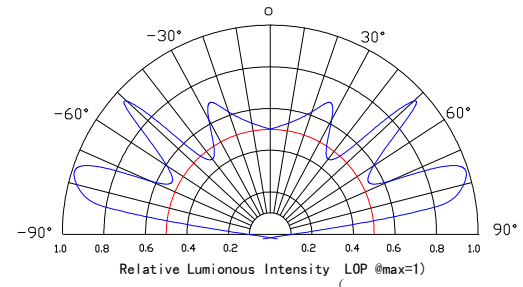
### Features:

- Long operating life
- Highest flux
- Available in Yellow
- 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
- Lower Rth
- ROHS compliant

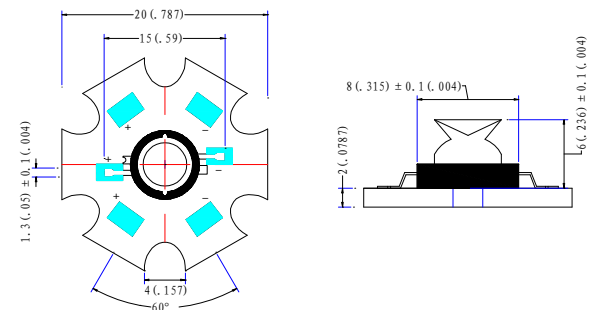
### Applications

- 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)
- Trafficsignaling /Beacons/railCrossing and Wayside

### Radiation Pattern



### Package Dimensions



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

| Item                                | symbol            | Condition | Min | Typ | Max | Unit |
|-------------------------------------|-------------------|-----------|-----|-----|-----|------|
| Forward Voltage                     | VF                | IF=350mA  |     | 2.2 | 2.5 | V    |
| Reverse Current                     | IR                | VR=5V     |     |     | 50  | uA   |
| 50% Power Angle                     | 2θ <sub>1/2</sub> | IF=350mA  | --  | 175 | --  | deg  |
| Luminous Intensity                  | Φ <sub>v</sub>    | IF=350mA  | 28  | 32  |     | LM   |
| Recommend Forward Current           | IF                |           |     | 350 |     | mA   |
| Wave length                         | λ <sub>d</sub>    | IF=350mA  | 585 |     | 595 | nm   |
| Thermal Resistance,Junction to Case | R <sub>jp</sub>   | IF=350mA  |     | 10  |     | °C/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             | IF               | 350                     | mA   |
| Peak Forward Current*       | IFD              | 500                     | mA   |
| Reverse Voltage             | VR               | 5                       | V    |
| Power Dissipation           | PD               | 1000                    | mW   |
| Operation Temperature       | T <sub>OPR</sub> | -30°C to +80°C          |      |
| Storage Temperature         | T <sub>STG</sub> | -40°C to +100°C         |      |
| Lead Soldering Temperature* | T <sub>SOL</sub> | 260°C for 3 Seconds Max |      |

- IFP Conditions :Pulse Width  $\leq 10$  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 directly,but we do not recommend lighting the high powe 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.



# HIGH POWER

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

