



**ATTENTION**

OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

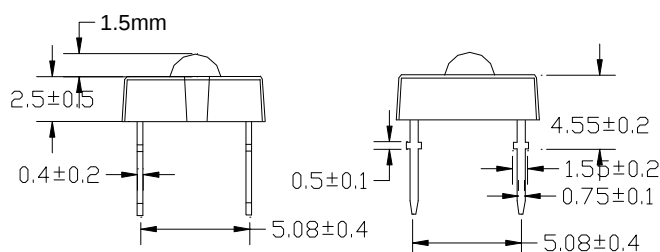
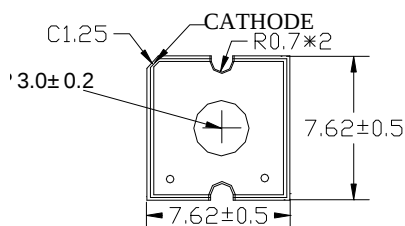
**LED-080-75113**

➤ **Features:**

- Single color
- High Luminous Flux Output
- High Current Operation
- Low power consumption
- High reliability and long life/

➤ **Descriptions:**

- Dice material: InGaN
- Emitting Color:  
Super Bright White
- Device Outline:  
7.62mmX7.62mm
- Lens Type:  
Water Clear

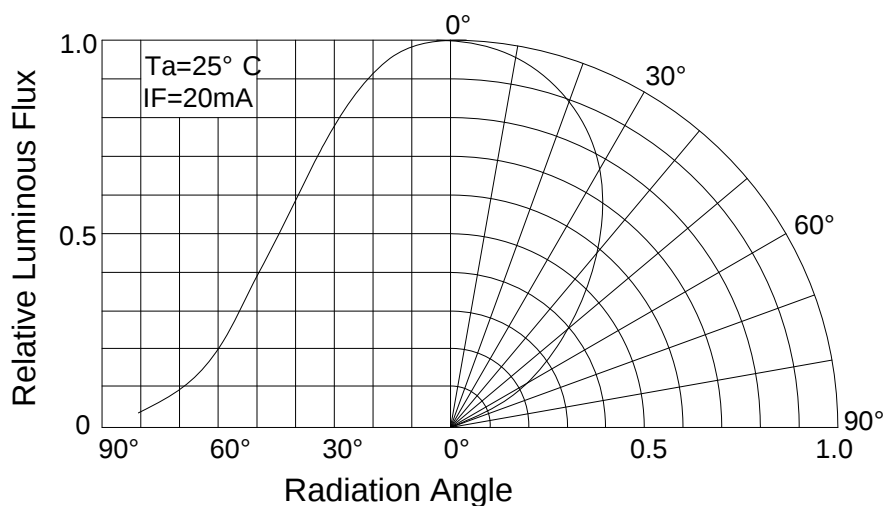


**NOTE:**

- All dimensions are millimetres.
- Tolerance is +/-0.25mm unless otherwise noted.

➤ **Directivity:**

**DIRECTIVITY**



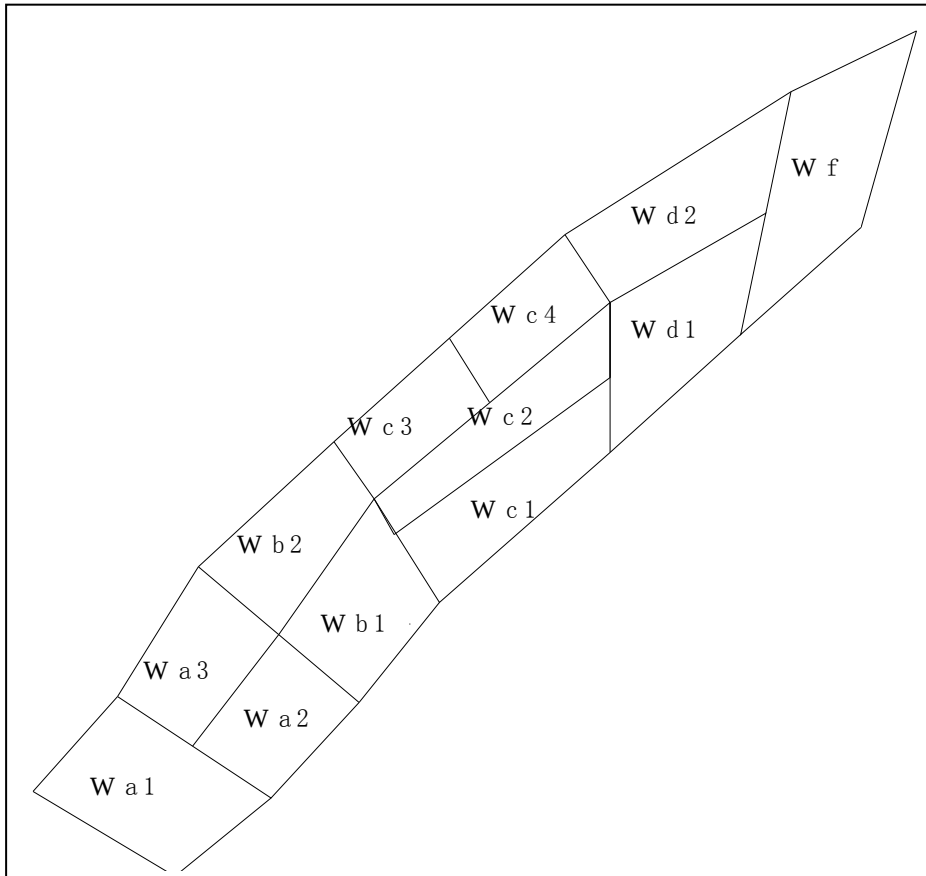
**➤ Absolute maximum ratings (Ta = 25°C)**

| Parameter             | Symbol            | Test Condition          | Values |      | Unit |
|-----------------------|-------------------|-------------------------|--------|------|------|
|                       |                   |                         | Min.   | Max. |      |
| Reverse Voltage       | V <sub>R</sub>    | I <sub>R</sub> = 30 μ A | 5      | ---- | V    |
| Forward Current       | I <sub>F</sub>    | ----                    | ----   | 30   | mA   |
| Power Dissipation     | P <sub>d</sub>    | ----                    | ----   | 200  | mW   |
| Pulse Current         | I <sub>peak</sub> | Duty=0.1mS, 1kHz        | ----   | 150  | mA   |
| Operating Temperature | T <sub>opr</sub>  | ----                    | -40    | +85  | °C   |
| Storage Temperature   | T <sub>str</sub>  | ----                    | -40    | +100 | °C   |

**➤ Electrical and optical characteristics (Ta = 25°C)**

| Parameter       | Symbol         | Test Condition       | Values |      |      | Unit |
|-----------------|----------------|----------------------|--------|------|------|------|
|                 |                |                      | Min.   | Typ. | Max. |      |
| Forward Voltage | V <sub>F</sub> | I <sub>F</sub> =30mA | ----   | 3.4  | 4.0  | V    |
| Reverse Current | I <sub>R</sub> | V <sub>R</sub> =5V   | ----   | ---- | 30   | μ A  |
| Luminous Flux   | φ <sub>v</sub> | I <sub>F</sub> =30mA | 2.8    | ---- | ---- | lm   |
| Viewing Angle   | 2 θ 1/2        | I <sub>F</sub> =30mA | 70     | ---- | 80   | Deg. |

➤ **Bin Grade Limits(IF=30mA) Characteristics (Ta=25°C)/ BIN**



|       |   |       |       |       |       |       |   |       |       |       |       |
|-------|---|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|
| W a 1 | X | 0.243 | 0.215 | 0.230 | 0.263 | W a 2 | X | 0.263 | 0.246 | 0.264 | 0.280 |
|       | Y | 0.200 | 0.230 | 0.250 | 0.220 |       | Y | 0.220 | 0.236 | 0.267 | 0.248 |
| W a 3 | X | 0.246 | 0.230 | 0.248 | 0.264 | W b 1 | X | 0.280 | 0.264 | 0.283 | 0.296 |
|       | Y | 0.236 | 0.250 | 0.286 | 0.267 |       | Y | 0.248 | 0.267 | 0.305 | 0.276 |
| W b 2 | X | 0.264 | 0.248 | 0.275 | 0.283 | W c 1 | X | 0.296 | 0.287 | 0.330 | 0.330 |
|       | Y | 0.267 | 0.286 | 0.321 | 0.305 |       | Y | 0.276 | 0.295 | 0.339 | 0.318 |
| W c 2 | X | 0.287 | 0.283 | 0.330 | 0.330 | W c 3 | X | 0.283 | 0.275 | 0.298 | 0.306 |
|       | Y | 0.295 | 0.305 | 0.360 | 0.339 |       | Y | 0.305 | 0.321 | 0.350 | 0.332 |
| W c 4 | X | 0.306 | 0.298 | 0.321 | 0.330 | W d 1 | X | 0.330 | 0.330 | 0.361 | 0.356 |
|       | Y | 0.332 | 0.350 | 0.379 | 0.360 |       | Y | 0.318 | 0.360 | 0.385 | 0.351 |
| W d 2 | X | 0.330 | 0.321 | 0.366 | 0.361 | W f   | X | 0.356 | 0.366 | 0.391 | 0.380 |
|       | Y | 0.360 | 0.379 | 0.419 | 0.385 |       | Y | 0.351 | 0.419 | 0.436 | 0.381 |

### ➤ Typical electrical/optical characteristic curves:

