

## 9W Cool White Led Module CW9R49\*7

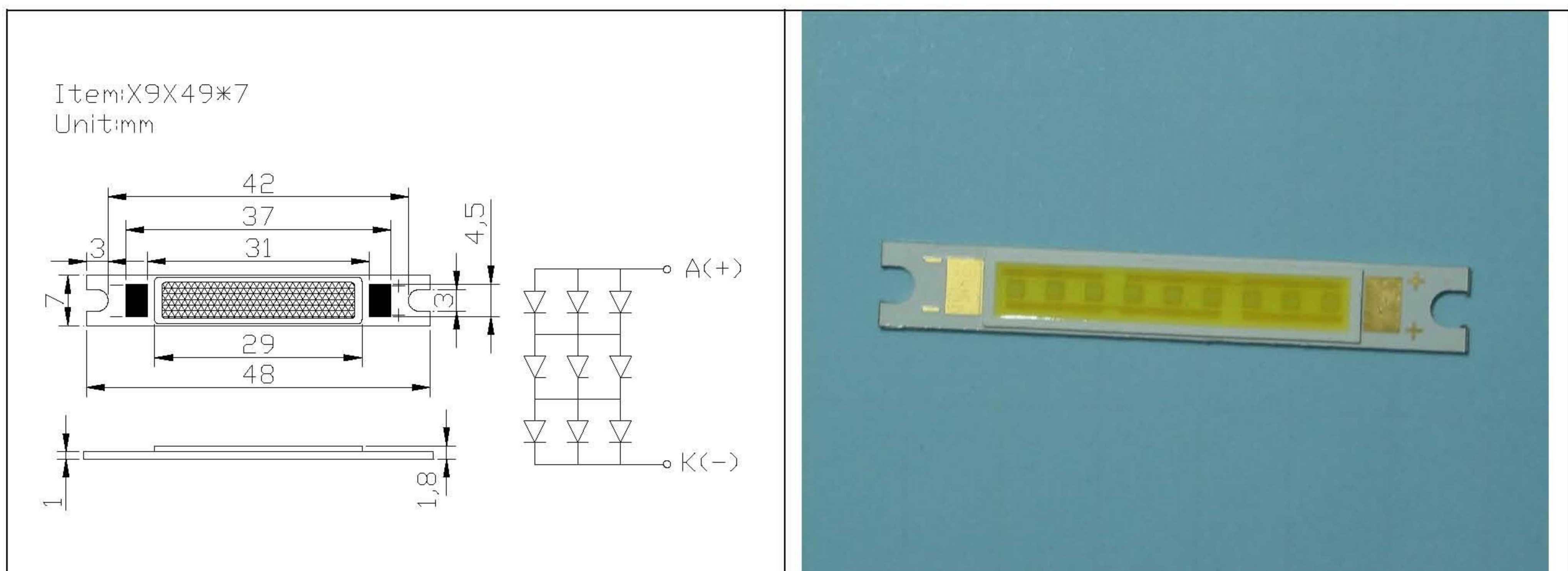
### Features:

- Single Color.
- Illuminant Color : White.
- Emission angle: 120Deg.
- Linear Packaging Design.
- High Efficiency.
- Low Power Consumption.
- Long Operating Lifespan.
- Easy Installation with Screws.
- High Heat dissipation Efficiency.

### Applications:

- Reading Lamp.
- Street Lamp.
- LED Backlight.
- Energy Saving Lamp.
- Decorative and Entertainment Lighting.
- Indoor and Outdoor Commercial Lighting.

## Package



### Product Dimension

#### Notes:

1. All dimensions are measured in mm.
2. Tolerance:  $\pm 0.2$ .
3. The temperature of Aluminum PCB dose not exceed  $55^{\circ}\text{C}$ .

## Absolute Maximum Rating at T<sub>A</sub>=25°C

Absolute Maximum Rating For Product

| Parameter                            | Symbol | Rating(White) | Unit |
|--------------------------------------|--------|---------------|------|
| DC Forward current                   | IF     | 1050          | mA   |
| Peak pulse current                   | IFM    | 1500          | mA   |
| Reverse voltage                      | VR     | 5             | V    |
| ESD Sensitivity                      | VB     | 500           | V    |
| Power dissipation                    | PD     | 9             | W    |
| Junction temperature                 | Tj     | 125           | °C   |
| Operating temperature                | Topr   | -30~+100      | °C   |
| Storage temperature                  | Tstg   | -40~+120      | °C   |
| Soldering temperature                | Tsol   | 260           | °C   |
| Manual Soldering time at 260°C (Max) | --     | 5             | sec  |

## Electro-Optical Characteristics (T<sub>a</sub> = 25°C)

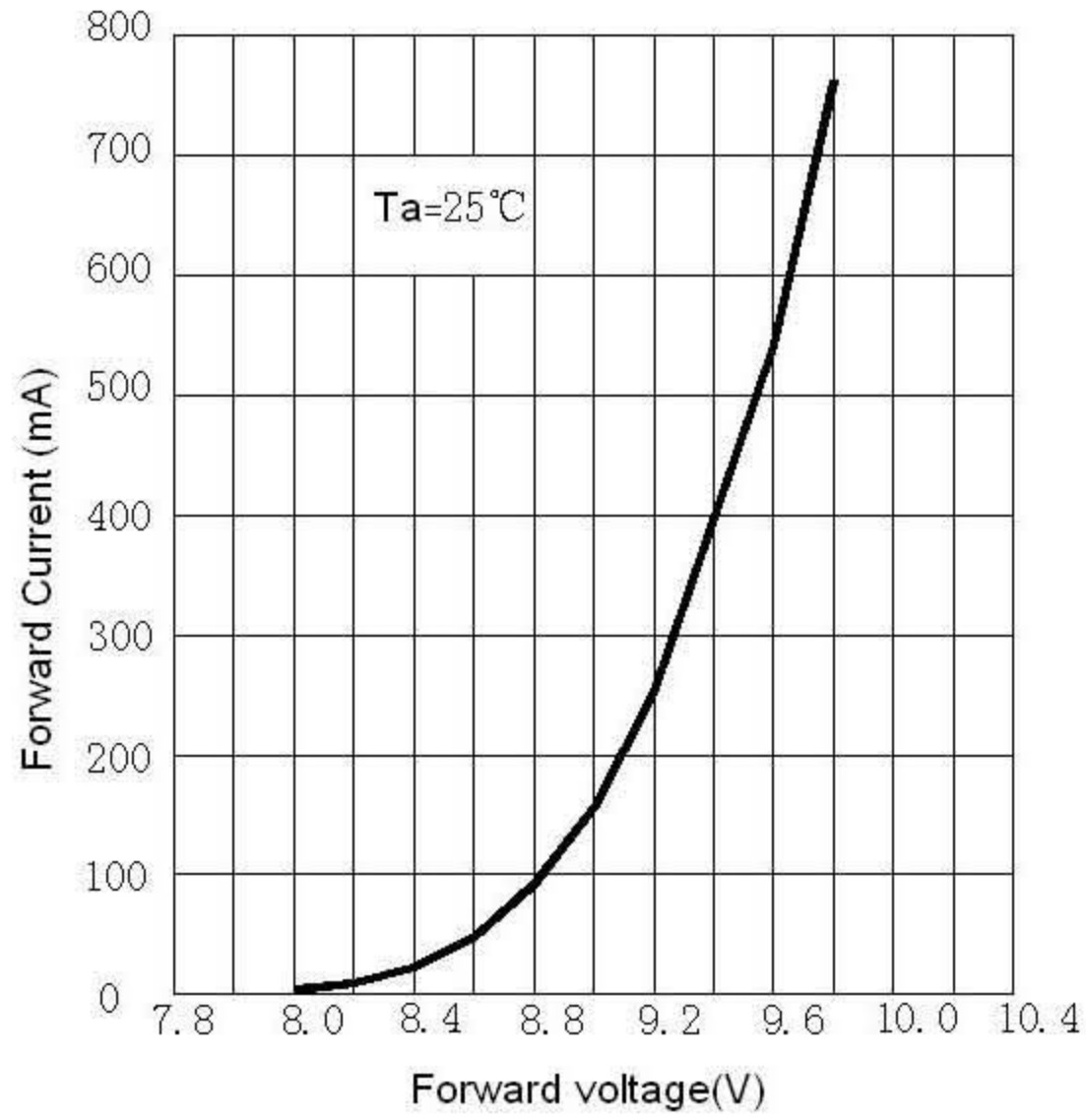
| Parameter Radiant                 | Test Current | Symbol | Min  | Typ. | Max  | Unit |
|-----------------------------------|--------------|--------|------|------|------|------|
| Color Temperature Characteristics | IF=1050mA    | CCT    | 5000 |      | 6000 | K    |
| Luminous Flux Characteristics     | IF=1050mA    | ∅      | 430  | 462  |      | LM   |
| Emission Angle Characteristics    | IF=1050mA    | 2θ 1/2 |      | 110  |      | Deg  |
| Electrical Characteristics        | IF=1050mA    | VF     |      | 10   | 12   | V    |

## Description

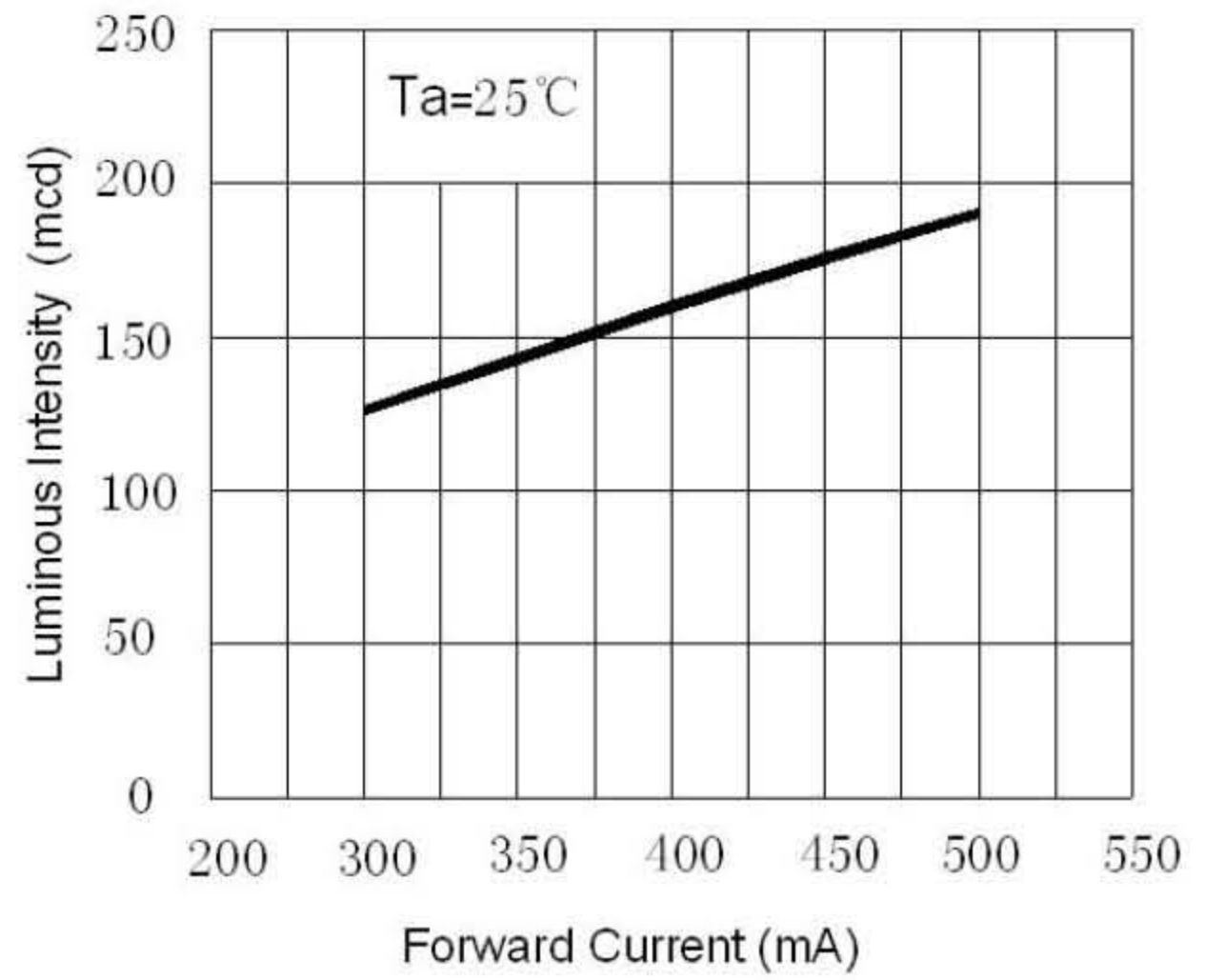
| Dimension<br>(L*W*H) mm | Chip          |          | Colloid Type   |
|-------------------------|---------------|----------|----------------|
|                         | Emitter color | Material |                |
| 49*7*1.8                | White         | InGaN    | Yellow Diffuse |

## Typical Electro-Optical Characteristics Curve:

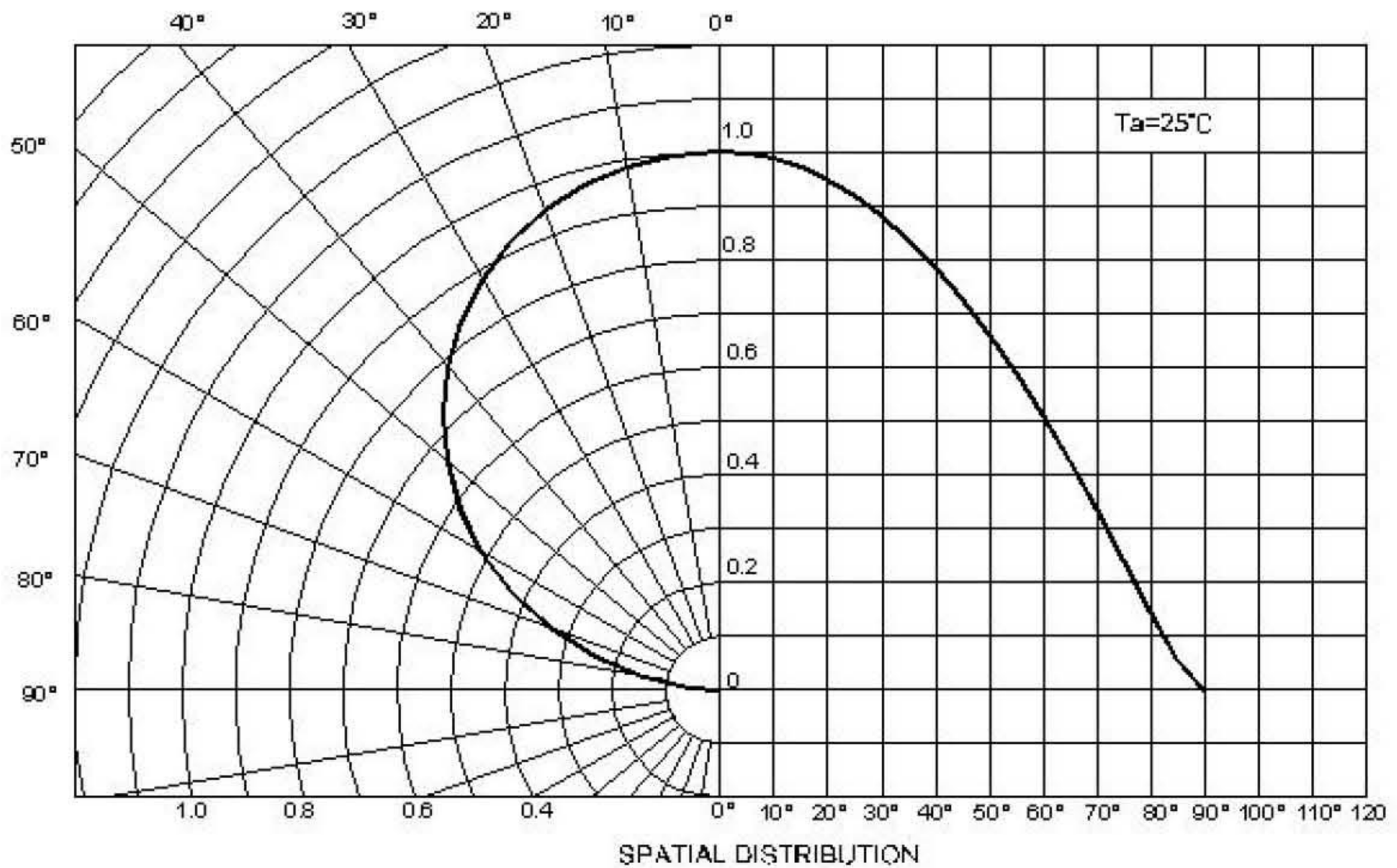
Forward Voltage vs Forward Current



Forward Current vs Luminous Intensity

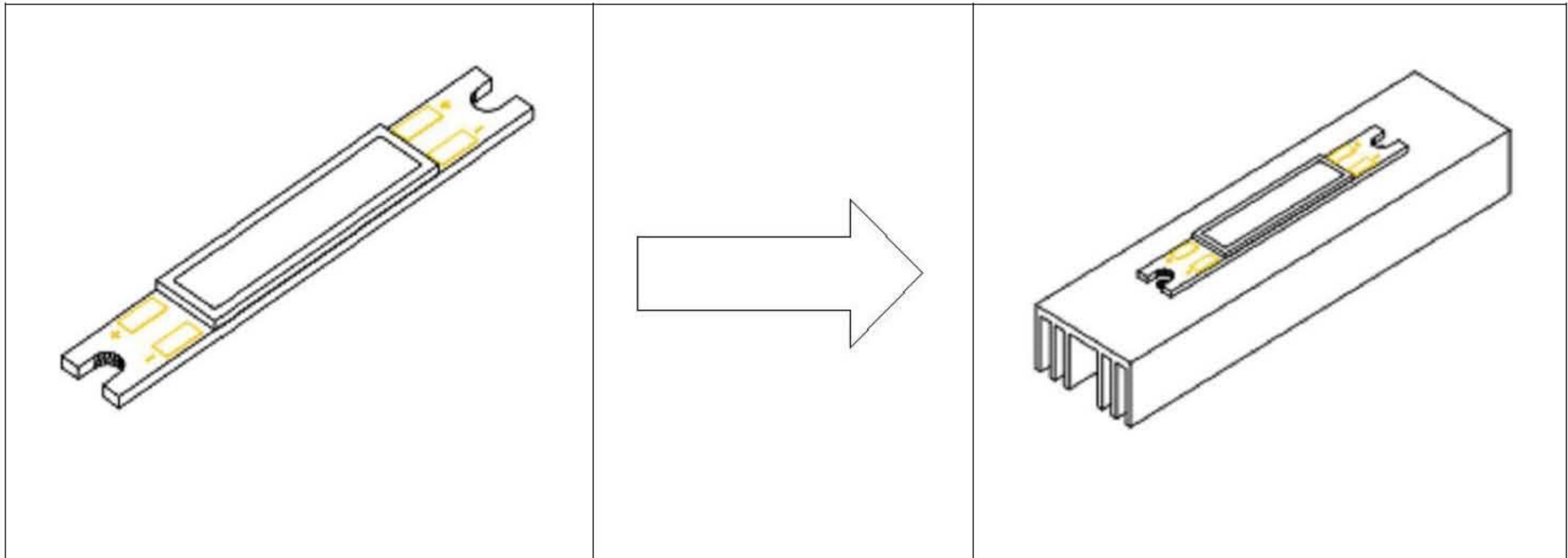


Spatial Distribution Graph



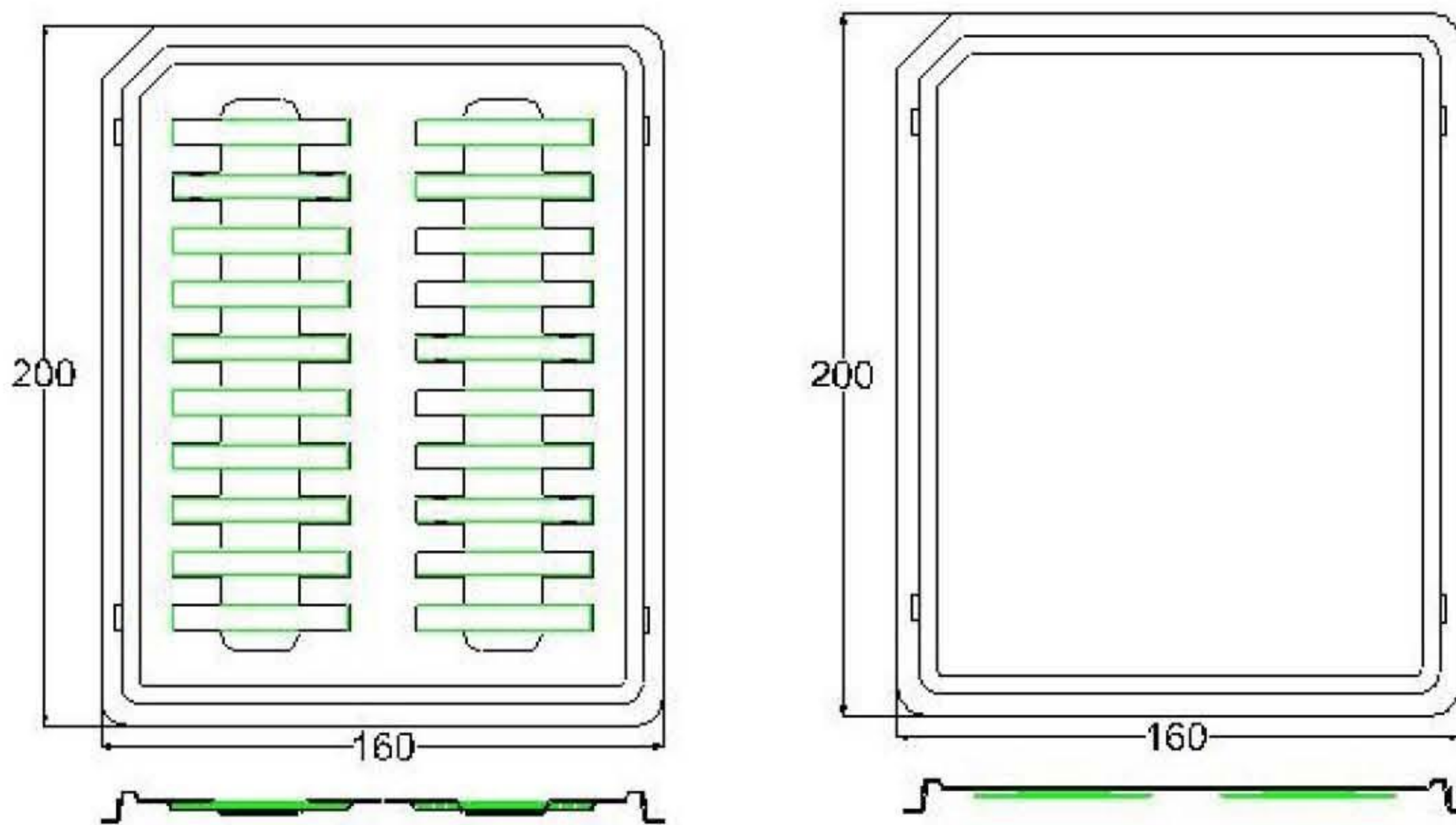
### Product Thermal Application Information

When assembling on PCB or heatsink carrier, thermal grease should be evenly speeded with a thickness <math><100\mu\text{m}</math>.



Heatsink application

### Product Packaging information (Unit:mm)



Tray Package dimensions

Note:

1. There are 20pcs emitters in a tray package.
2. Package storage condition will be limited temperature 20~30°C RH 40%~55%.