

DATASHEET

PRODUCT: FL-90 LED-Lens

SHOWIN Technology Co., Ltd

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Buy Showin products and get applications advice from :-

Intelligent LED Solutions Ltd,

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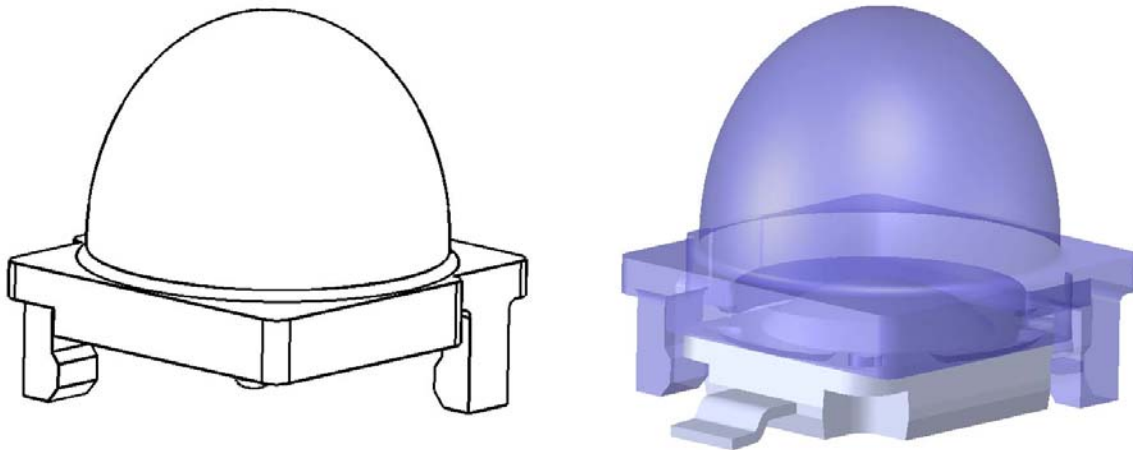
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Ver.	Date	Description	Check	Approval
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Features

1. 15° 1/2 power angle
2. Works with OSRAM Golden Dragon PLUS LED and compatible LED

Typical Applications

1. portable light source (e. g. bicycle, flashlight)
2. decorative and entertainment lighting
3. signal and symbol luminaire for orientation
4. marker lights (e.g. steps, exit ways, etc.)
5. indoor and outdoor commercial and residential architectural lighting
6. spot lighting / high contrast lighting
7. glass cabinet lighting
8. flashlight
9. tunnel lighting
10. street lighting
11. special backlighting
12. effect illumination: starry sky

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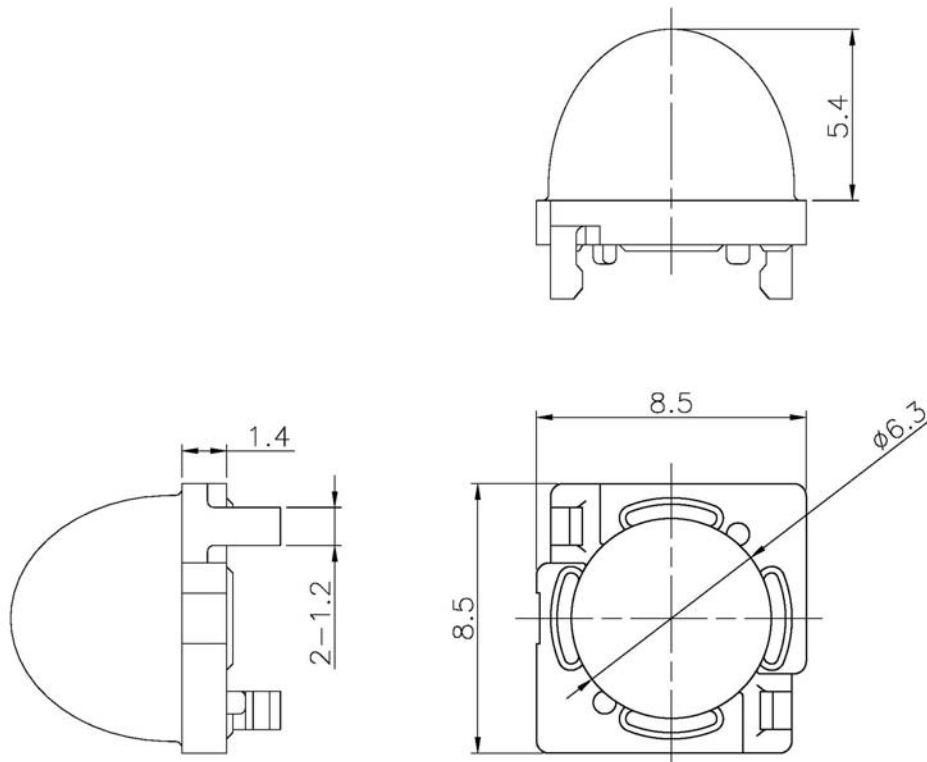
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Mechanical Dimensions



Notes:

1. All dimensions are in millimeter(mm) unless otherwise specified.
2. General tolerance is ± 0.1 mm unless otherwise noted.
3. Protruding of the gate from the side surface is less than 0.3mm.
4. Do not subject to temperatures greater than 110°C as plastic deformation may occur. Protect collimator against exposure to solvents and adhesives that are not compatible with it. Use care in handling the optic to avoid scratches or other damage that will effect upon the optical performance.

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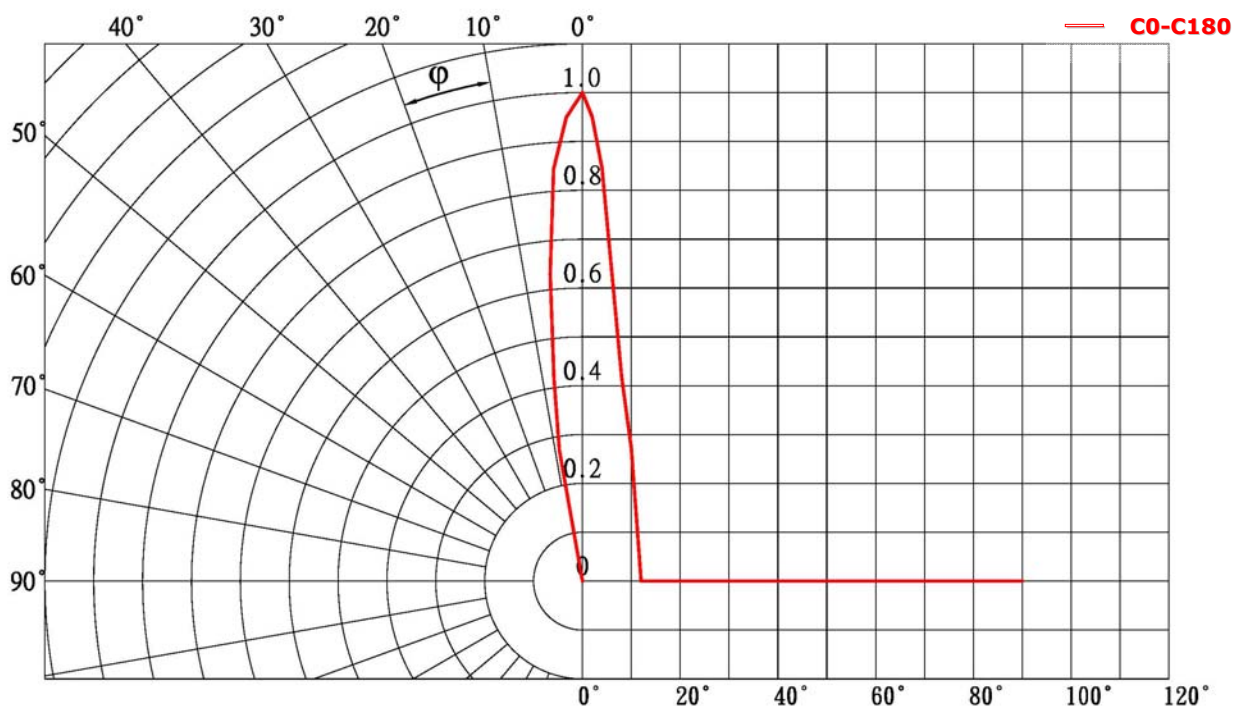
Representative Spatial Radiation Pattern

Simulation using OSRAM Golden Dragon PLUS LED and compatible LED:

$$I_{\text{rel}} = f(\varphi)$$

I_{rel} : Relative Intensity

φ : Angular Displacement



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