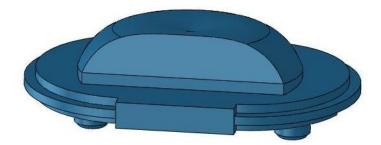




# STREET LIGHTING Series Datasheet

## Lenses for Lumileds Rebel LEDs

FL-62



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## **General Characteristics**

### 1. Designed for LUMILEDS Rebel and Rebel ES LEDs

This datasheet provides information about the FL-62 when used on Lumileds LUXEON<sup>®</sup> Rebel and Rebel ES LEDs.

#### PHILIPS LUMILEDS

LUXEON<sup>®</sup> Rebel and ES are trademarks of Lumileds Lighting, LLC. For technical specification on LEDs please refer to the LUXEON<sup>®</sup> Rebel and ES datasheet or visit

http://www.philipslumileds.com/products/luxeon-rebel.

Typical beam divergence may change with different color LEDs.

#### 2. Lens Material

Optical Grade PC		
Operating Temperature range:	-30 C° / +70 C°	
Storage Temperature range:	-30 C° / +70 C°	

### 3. Typical Applications

- 1. Decorative and entertainment lighting
- 2. Signal and symbol luminaries for orientation
- 3. Indoor and outdoor commercial and residential architectural lighting
- 4. Spot lighting / high contrast lighting
- 5. Street lighting
- 6. Special backlighting

## 1. Beam Angles:

Lens Part Number	Rebel (1/2 power)	Rebel ES (1/2 power)
FL-62	142×34×52	144×45×50

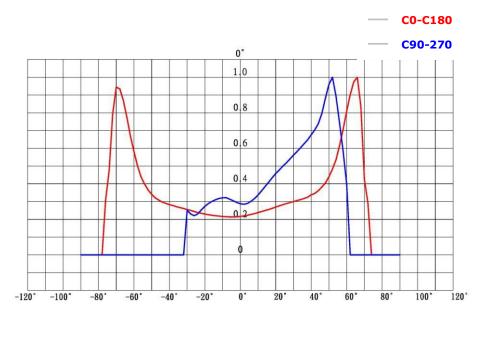
The typical divergence varies with LED color due to different chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.

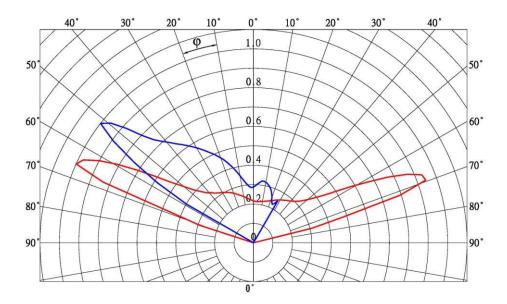
#### 2. Spatial Radiation Pattern

Simulation using LUXEON Rebel and ES of PHILIPS LUMILEDS and compatible LED:

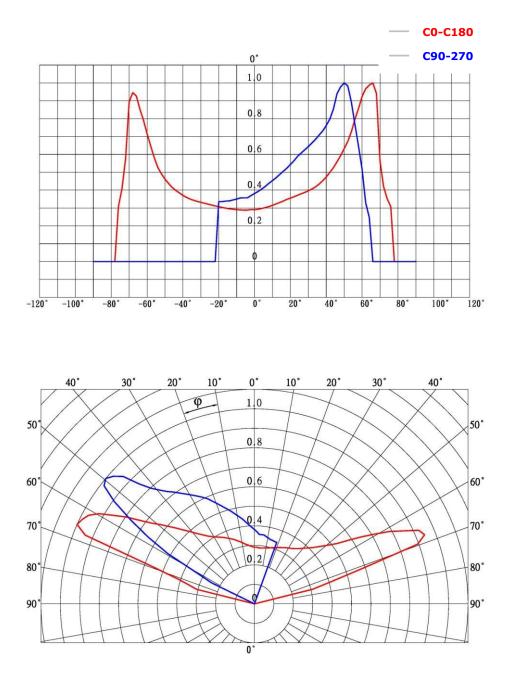
 $I_{rel} = f(\phi)$ 

- $I_{\mbox{\scriptsize rel}}$  : Relative Intensity
- Φ : Angular Displacement





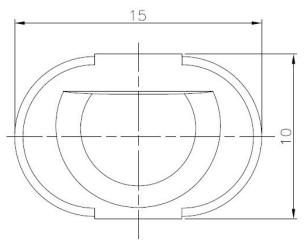
FL-62 for Rebel

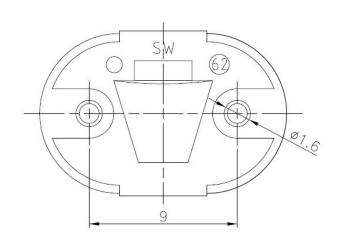


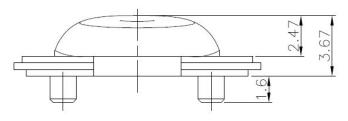
FL-62 for Rebel ES

## **Mechanical Specifications**

#### Lens dimensions and Top Views:







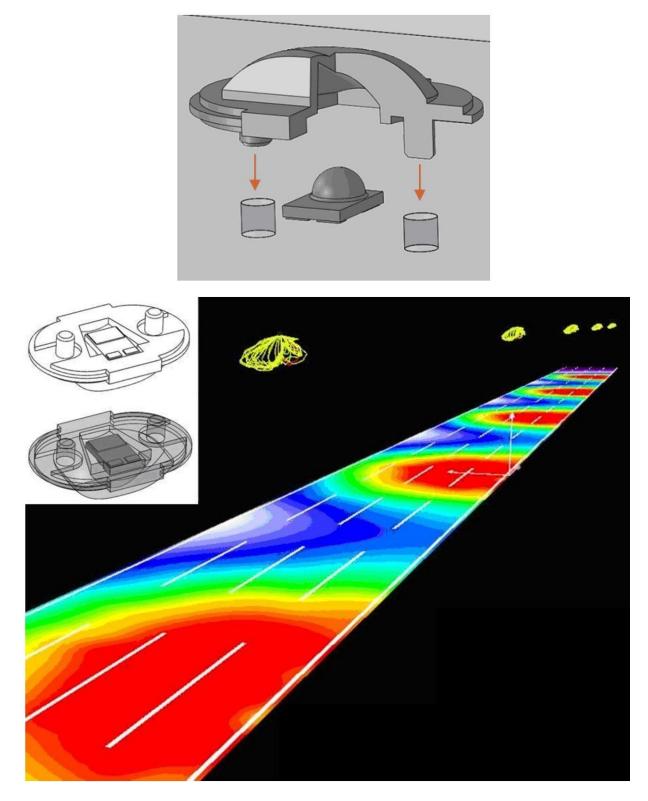


#### Note:

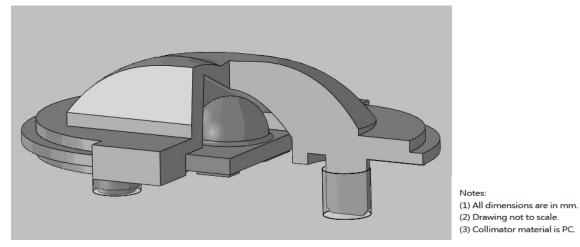
- 1. Unit measurement: mm
- 2. General tolerance: ±0.2mm
- 3. Protruding of the gate from the side surface: less than 0.3mm.
- 4. Please handle or install lenses with gloves, skin oils may damage lens or its optical characteristic.

# Assembly Instructions

Lens + Leds + MCPCB



#### View assembly lens with MCPCB:



- The lens with pins can be glued to the PCB to provide a secure assembly.
- Glue type recommended: EPOXY ADHESIVES (Eg: Loctite E30-CL or ThreeBond 1530C)

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