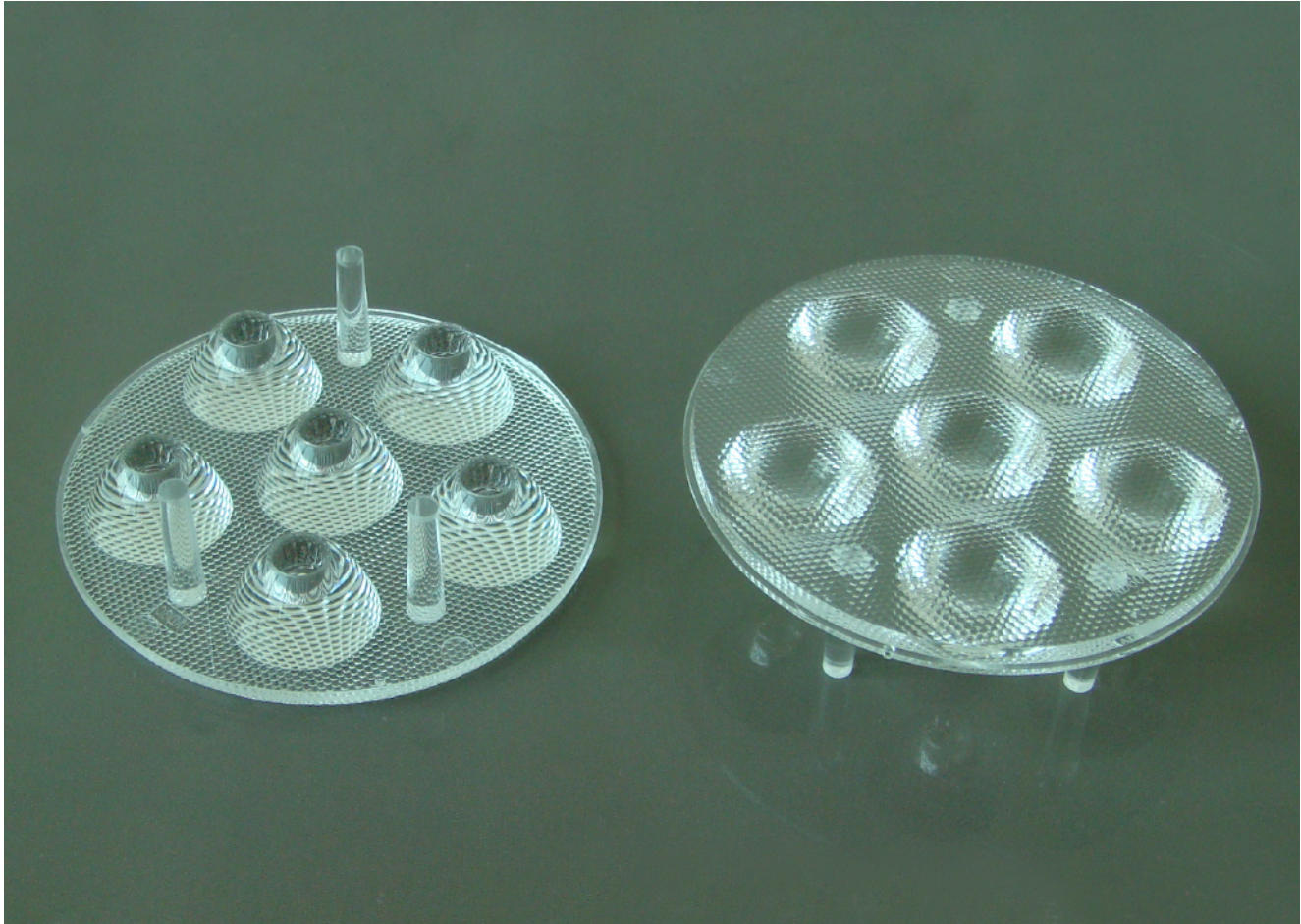


LL06ED-ADxxL Data Sheet

For CREE Multi-Color and Single-Color LEDs



Features:

- High efficiency
- Available in 2 beam Patterns
- Optimized for uniform effects
- Lens without Housing

Typical applications :

- Stage Lighting
- Street Lights
- Decorative Light
- Architectural Lighting
- Down Light

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General Information

- **Compatible Led Type :**

The LL06ED-ADxxL 6 in1 lenses are optimized for both Multi-Color R.G.B CREE LEDs and Single-Color Cree LEDs (Cree XR-E White)from Cree Opto.⁽¹⁾

- **Beam Angle Type :**

An optimized profile integrate different front shape enable the generation of two different lens models: medium beam (25deg);biggest beam (40deg)⁽²⁾

- **The Way to Assembly :**

The Lens should be assembled to the PCB board or MCPCB upon LEDs which provides the most appropriate related position, so as to achieve the best uniform results

*** Manually installation or if necessary thermal glue are recommended.**

- **Function :**

LL06ED-ADxxL provides exceptional color mixing result with the highest efficiency through careful engineering and precision manufacturing process.

General Specifications

- Lens Material Optical Grade PMMA PC
- Operating Temperature range -40°C ~ + 70°C (upper limit +80°C)
- Storage Temperature range -40°C ~ + 70°C (upper limit +80°C)

*Average transmittance in visible spectrum 400nm~700nm > 90%

Notes:

(1) Cree XR-E is a trademark of Cree,Inc , for technical information on LEDs, please refer to Cree,Inc, www.cree.com/xlamp.

(2) Typical beam divergence will be affected by different color of LEDs.

Optical Specifications [Typical beam Angle and intensity (cd/lm) of LL06 lenses]

• CREE XR-E LED

Typical Cone Angle (degree) ⁽³⁾ with CREE XR-E			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL06ED-AD25L	33	31	32
LL06ED-AD40L	39	36	41

The typical cone angle measures where the luminous intensity is 90% of the peak value of intensity. This typical cone varies with LED color due to different chip size and chip position tolerance.

Typical on axis intensity (cd/lm) ⁽⁴⁾ with CREE XR-E			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL06ED-AD25L	726	900	150
LL06ED-AD40L	570	762	72

Luminous intensity depends on the flux binning and tolerance of the LEDs. Please refer to the LEDs data sheet for more details on Flux binning and mechanical tolerance.

• CREE XR-E LED

Typical Cone Angle (degree) ⁽³⁾ with CREE XR-E			
Part Number	White LEDs	Warm white LEDs	
LL06ED-AD25L	31	28	
LL06ED-AD40L	42	39	

The typical cone angle the full angle measured where the luminous intensity is 90% of the peak value of intensity. That typical cone varies with LED color due to different chip size and chip position tolerance.

Typical on axis intensity (cd/lm) ⁽⁴⁾ with CREE XR-E			
Part Number	White LEDs	Warm white LEDs	
LL06ED-AD25L	4170	2280	
LL06ED-AD40L	2310	1110	

Luminous intensity depends on the flux binning and tolerance of the LEDs. Please refer to the LEDs data sheet for more detail on Flux binning and mechanical tolerance

Notes:

(3) The typical divergence will be changed by different color, 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.

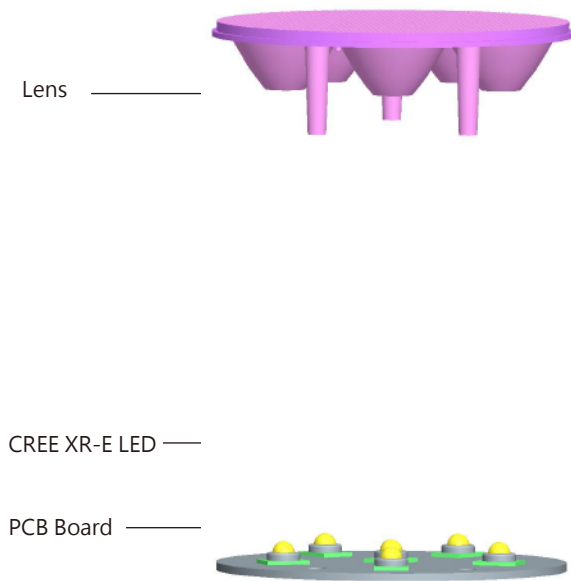
(4) The efficiency value listed above is the total value of the whole lens model, the value depends on the total flux of the LED used. Luminous intensity depends on the LEDs flux and its tolerances, for more details of LED flux, please check Cree data sheet at www.cree.com.

Mechanical Specifications

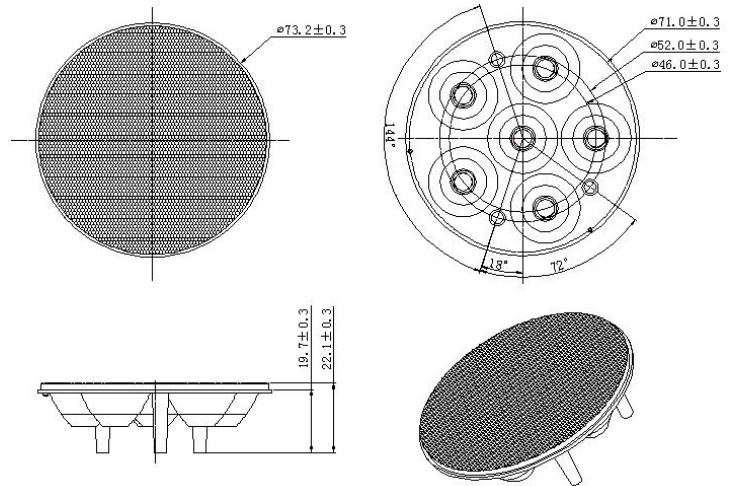
• Usage and Maintenance :

1. If necessary, clean lenses with mild soap, water and soft cloth
2. Never use any commercial cleaning solvents on lenses, like alcohol
3. Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

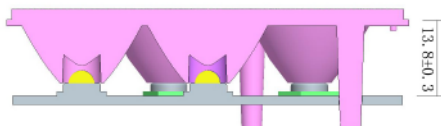
1. Lens + Leds+MCPCB assembly instruction



3. Lens dimensions and Top Views:





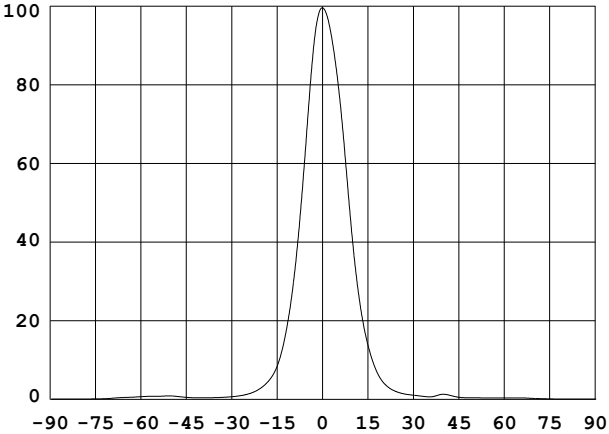
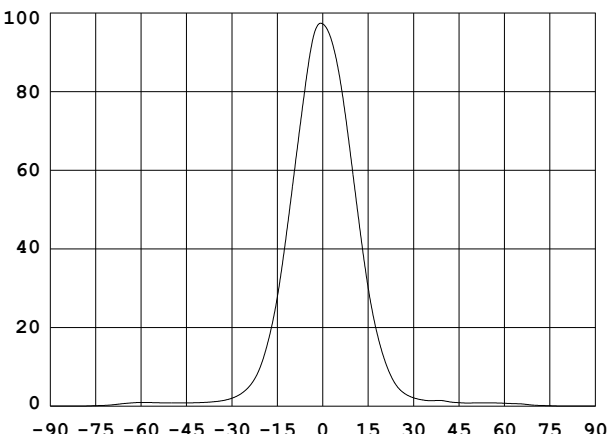
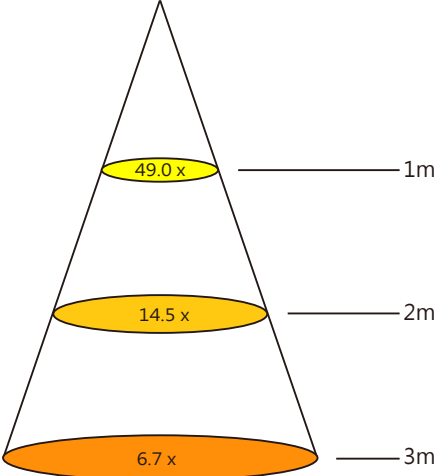
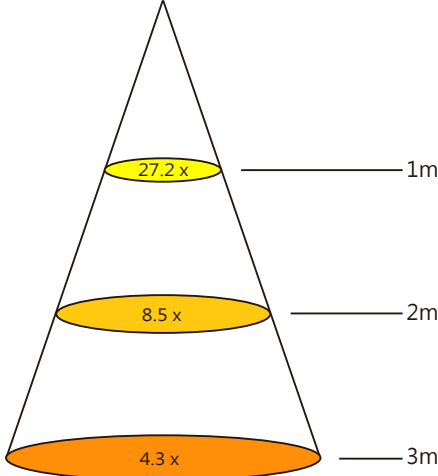
2. View assembly lens with MCPCB:



- Notes:
- (1) All dimensions are in mm.
 - (2) Drawing not to scale.
 - (3) Collimator material is PMMA.

Illumination charts

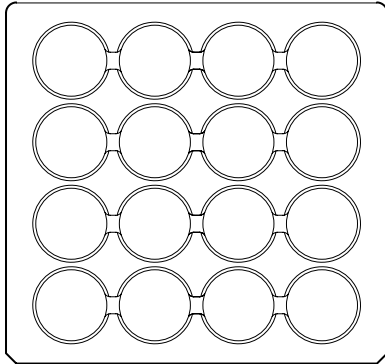
*CREE 6 in1 white LED: CREE XR-E

LL06ED-AD25L	LL06ED-AD40L
1. Beam Pattern	1. Beam Pattern
	
2. Light Distribution Curve	2. Light Distribution Curve
	
3. Illuminance	3. Illuminance
	

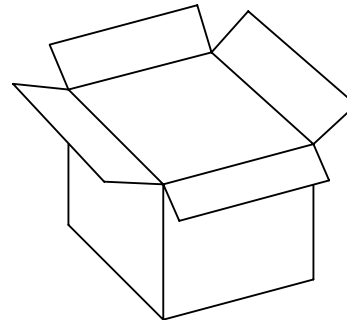
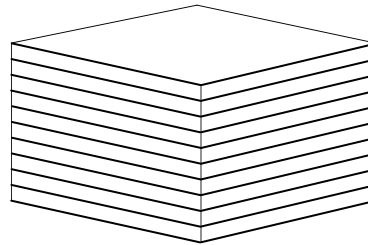
Notes: The Flux of CREE XR-E LED is 85 lm

Package

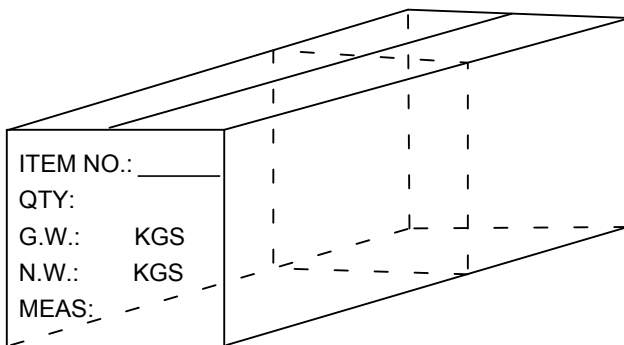
Item	Quantity	Total	Size (long*width* high)
Inner box	16	16pcs	34*30*3.5 cm
Outer box	10tray/box	160pcs	35*31*21 cm
Outer box	2 inner box/outer box	320pcs	64.7*36.5*24 cm



16pcs/tray



160pcs/inner box



320pcs/outer box

Product Nomenclature

