

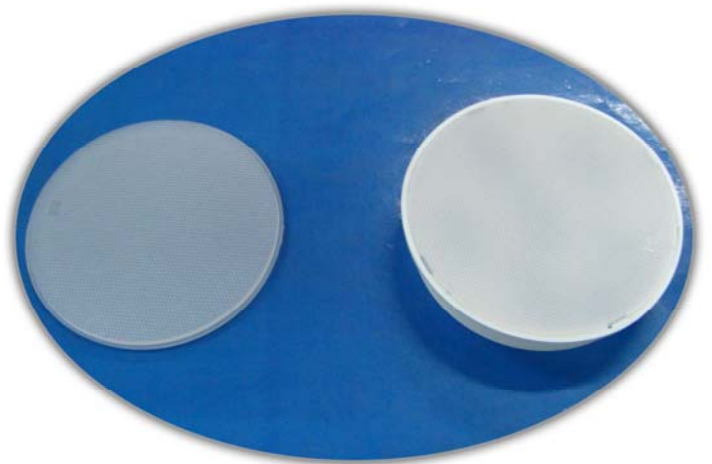
LL06 Floodlit lens for Color Mixing

Datasheet

For Edixeon® Multi-Color Pan-optical lens and Single-Color LEDs

Features:

- High efficiency
- Available in 1 beam Patterns
- Optimized for color mixing effects
- Lens with housing



Typical applications :

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

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General Information

• Compatible Led Type :

The LL06ED-CO140L-Mx lens are optimized for both Multi-Color RGB 3in1 Edixeon® LEDs (EDERTB-1LC6 and EDERTB-1EC1) and Single-Color Edixeon® LEDs from Edison Opto.⁽¹⁾

• Beam Angle Type :

An optimized profile integrate different front shape enable the generation of one different lens models: wide beam (140deg).⁽²⁾

• The Way to Assembly :

The Lens should be assembled to the PCB board or MCPCB by set its housing 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-CO140L-Mx provides exceptional color mixing result with the highest efficiency through careful engineering and precision manufacturing process.

Notes:

(1) Edixeon® is a trademark of Edison Opto, for technical information on LEDs, please refer to Edison Opto website at www.edison-opto.com.tw.

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

General Specifications

- Lens Material Optical Grade PC
- Operating Temperature range -40°C ~ +120°C (upper limit +140°C)
- Storage Temperature range -40°C ~ + 120°C (upper limit +140°C)
- *Average transmittance in visible spectrum 400nm~700nm > 90%

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

- EDER 1LA3 EDEG 1LA2 EDEB 1LA1

Part Number	Typical Cone Angle (degree) ⁽³⁾ with EDER 1LA3 EDEG 1LA2 EDEB 1LA1			
	Red LEDs ●	Green LEDs ●	Blue LEDs ●	R+G+B ●
LL06ED-CO140L	134	134	135	139

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.

Part Number	Typical on axis intensity (cd/lm) ⁽⁴⁾ with EDER 1LA3 EDEG 1LA2 EDEB 1LA1			
	Red LEDs ●	Green LEDs ●	Blue LEDs ●	R+G+B ●
LL06ED-CO140L	40	55	15	105

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

- EDEW KLC8

Part Number	Typical Cone Angle (degree) ⁽³⁾ with EDEW KLC8	
	White LEDs ○	Warm white LEDs ●
LL06ED-CO140L	141	134

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.

Part Number	Typical on axis intensity (cd/lm) ⁽⁴⁾ with EDEW KLC8	
	White LEDs ○	Warm white LEDs ●
LL06ED-CO140L	150	96

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

Notes:

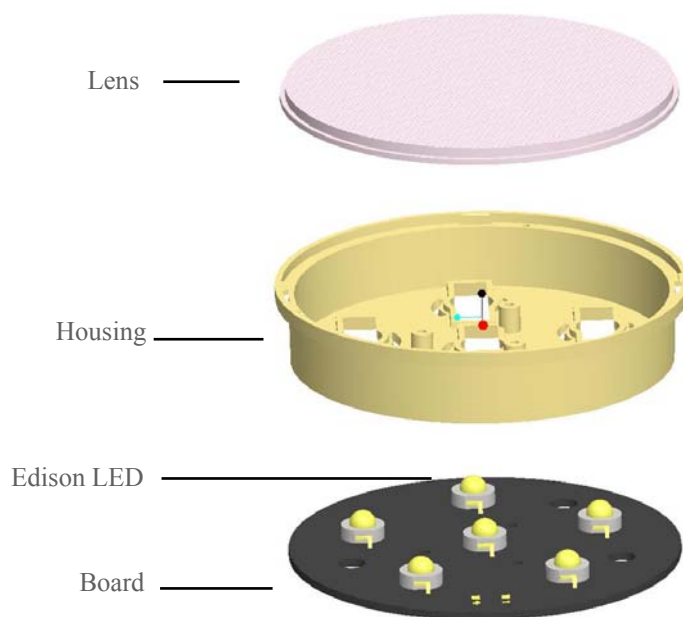
- (3) The typical divergence will be changed by different color, chip size and chip position tolerance.
The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.
- (4) The efficiency value listed above is the total value of the whole Tri-lens model, 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 Edixeon[®] datasheet at www.edison-opto.com.tw.

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.

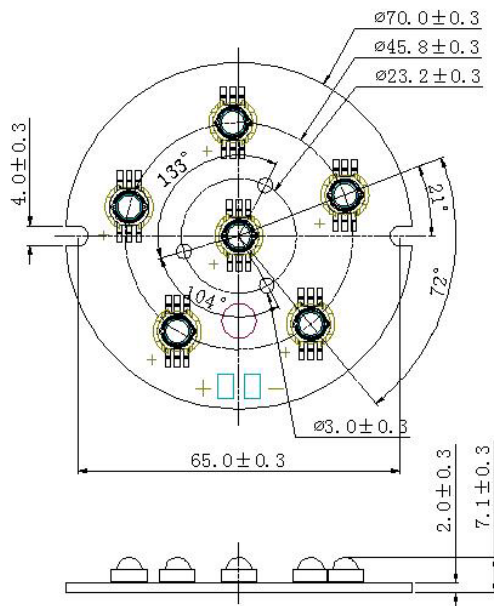
1. Lens + Leds+MCPCB assembly instruction:



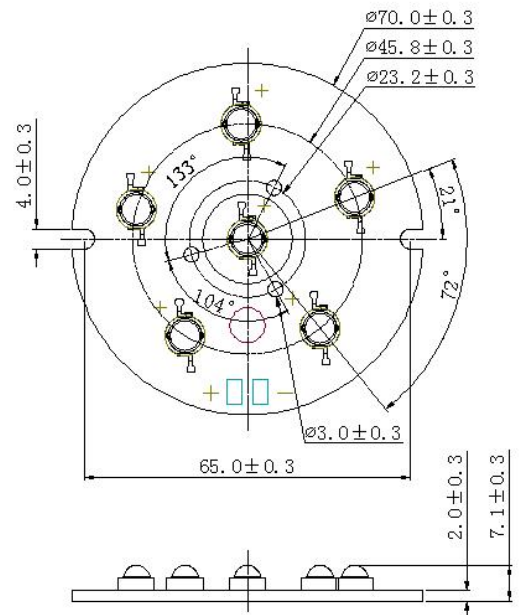
2. View assembly lens with MCPCB:



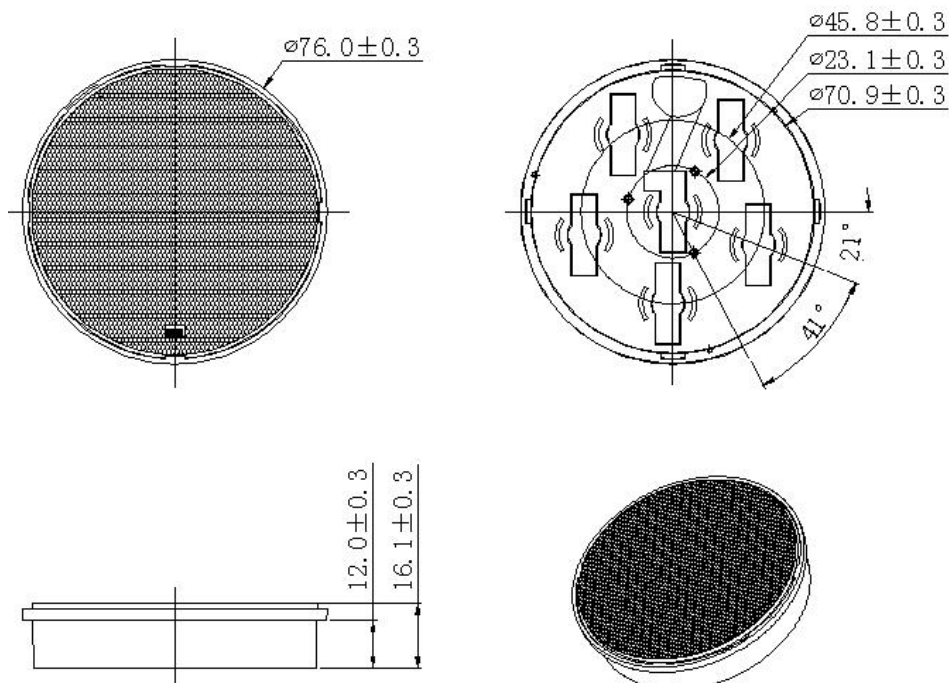
3. Multi-Color RGB Compatible MCPCB Dimensions:



4. Single-Color Compatible MCPCB Dimensions:



5. Lens assembly dimensions and Top Views :



Notes:

- (1) All dimensions are in mm.
- (2) Drawing not to scale.
- (3) Collimator material is PC.
- (4) View angle is showed on the Surface.

Illumination charts

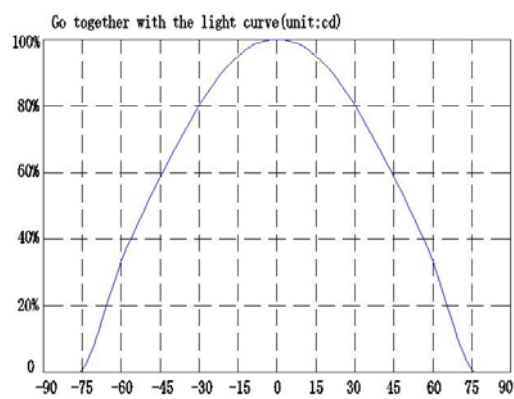
*Edixeon® single white LED:EDEW-KLC8

LL06ED-CO140L-Mx

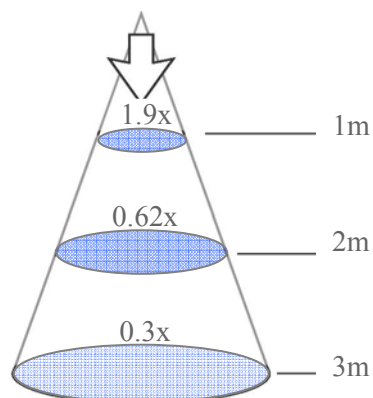
1. Beam Pattern



2. Angular Intensity Distribution

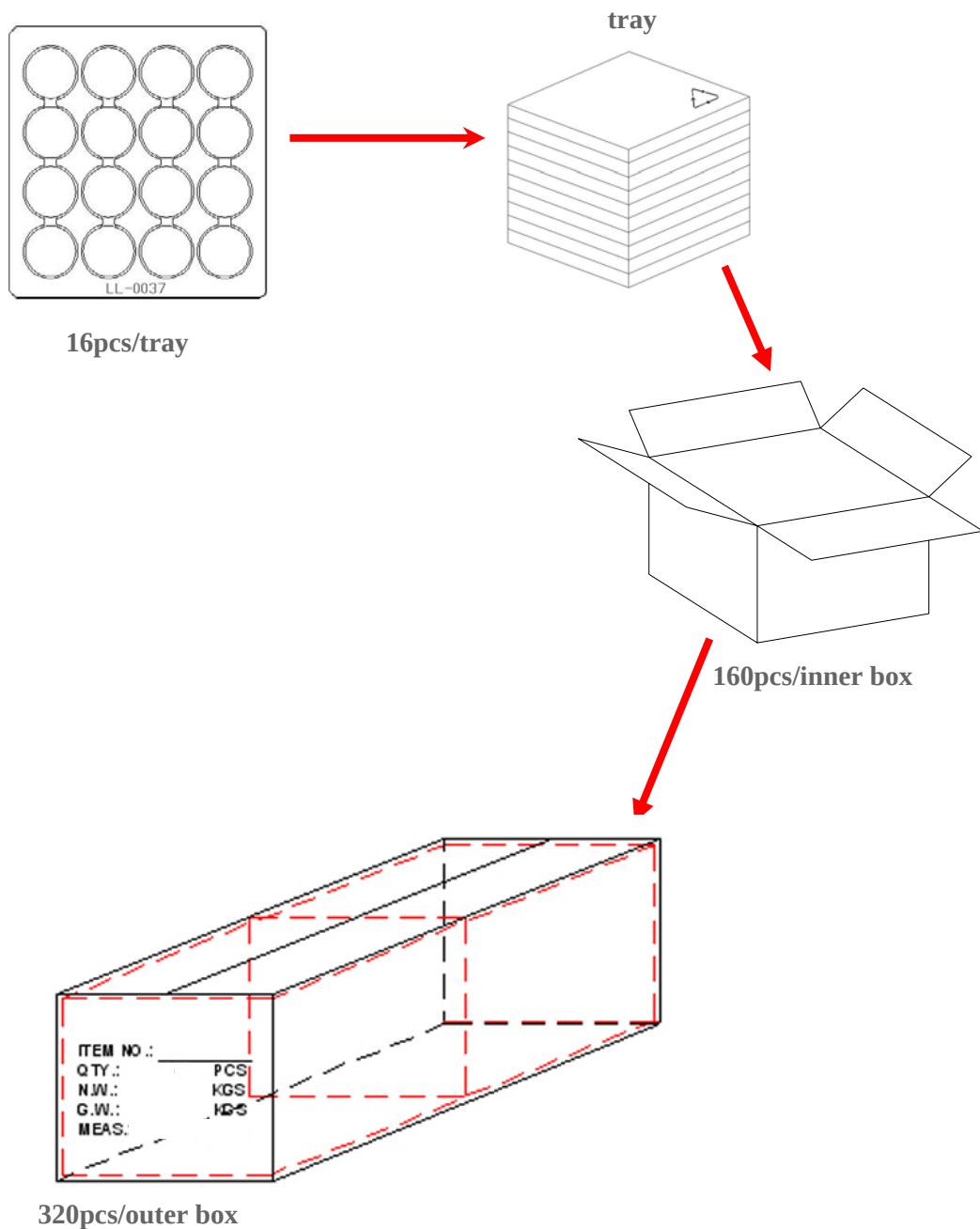


3. Shine on one degree diagram



Package

Item	Quantity	Total	Size (long * width * high)
Tray		10 pcs	38*36*2 cm
Inner box	10 tray/box	160pcs	40*37*21 cm
Outer box	2 inner box/outer box	320pcs	45.5*42*39cm



Product Nomenclature

