

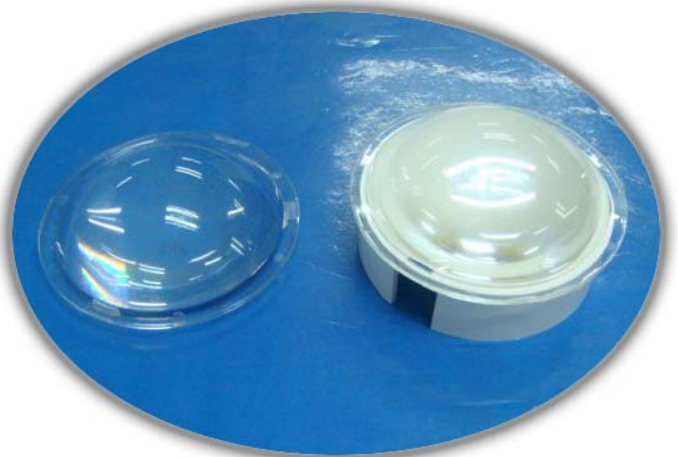
LL01ED-AI60L-Mx Single Color Lens

Datasheet

For Edixeon® Multi-Color and Single-Color LEDs

Features:

- High efficiency
- Available in 1 beam Patterns
- Optimized for uniform 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 LL01ED-AI60L-Mx lens are optimized for both Edixeon[®] LEDs (EdiPower EPBx-4E02-xx 20w and EdiPower EPLx-4E02-xx 15w)

• Beam Angle Type :

An optimized profile integrate different front shape enable the generation of one different lens models different lens models: ultra wide beam (60deg).⁽²⁾

• Function :

LL01ED-AI60L-Mx provides exceptional color uniform result with the highest efficiency through careful engineering and precision manufacturing process.

*Lens housings (holders) are available in white and black.

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 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%**

Optical Specifications [Typical beam Angle and intensity (cd/lm) of LL01 lenses]

- EdiPower EPLx-4E02-xx 15w

Part Number	Typical Cone Angle (degree) ⁽³⁾ with EdiPower EPLx-4E02-xx 15w			
	Red LEDs ●	Green LEDs ●	Blue LEDs ●	White LEDs ○
LL01ED-AI60L-Mx				60.7

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 EdiPower EPLx-4E02-xx 15w			
	Red LEDs ●	Green LEDs ●	Blue LEDs ●	White LEDs ○
LL01ED-AI60L-Mx				640

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.

Notes:

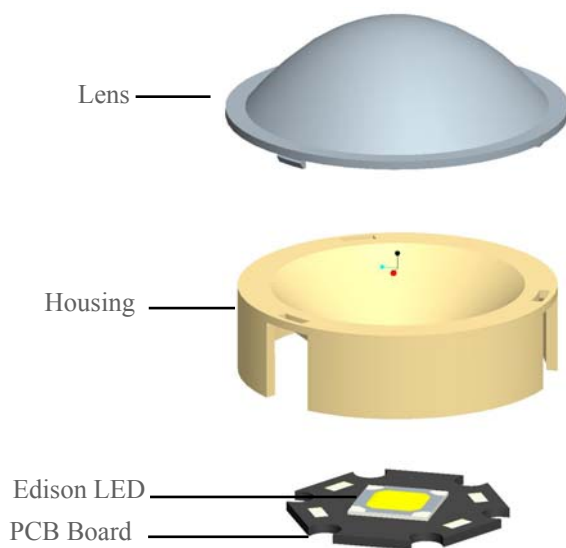
- (3) The typical divergence will be changed by different color, chip size and chip position tolerance.
 The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.
- (4) The efficiency value listed above is the total value of the whole lens model,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

Mechanical Specifications

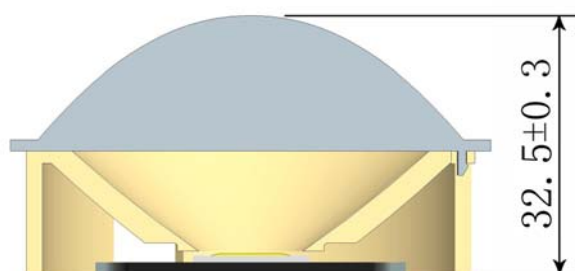
• Usage and Maintenance :

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.

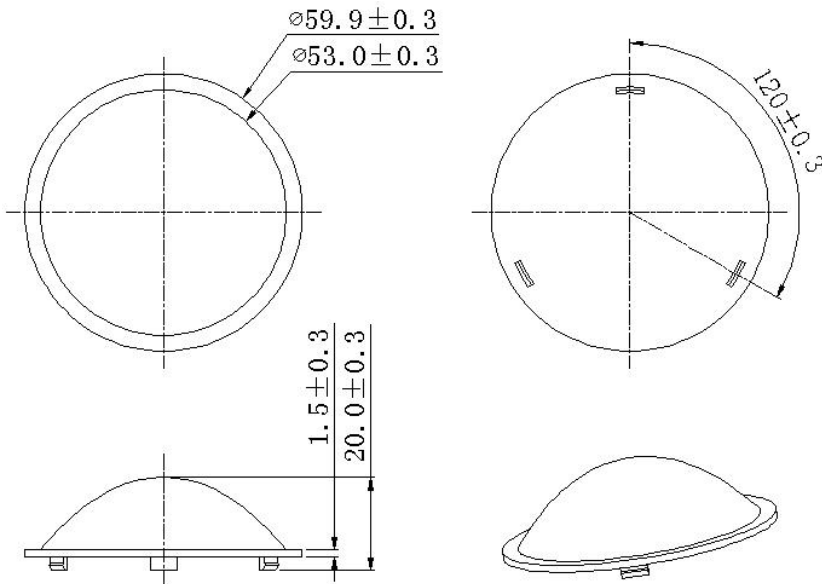
1. Lens + Leds+MCPCB assembly instruction:



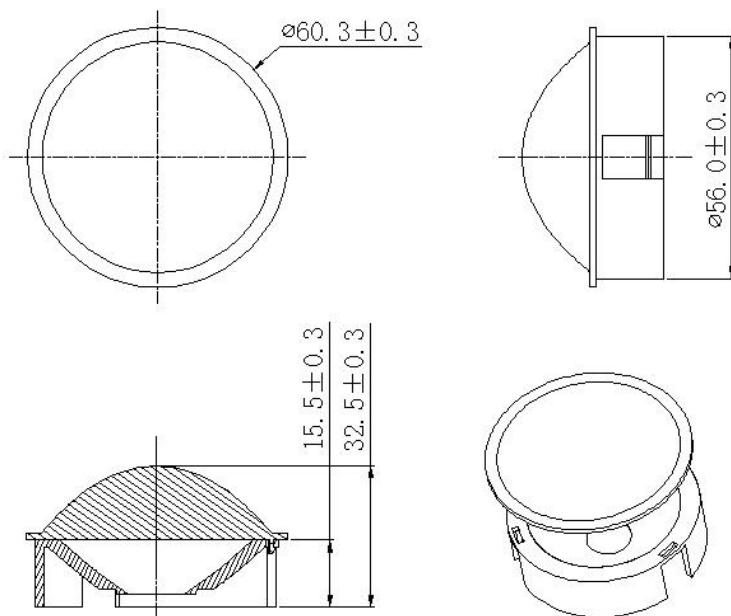
2. View assembly lens with MCPCB:



3. Lens dimensions and Top Views:



4. Lens assembly dimensions and Top Views :



Notes:

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

Illumination charts

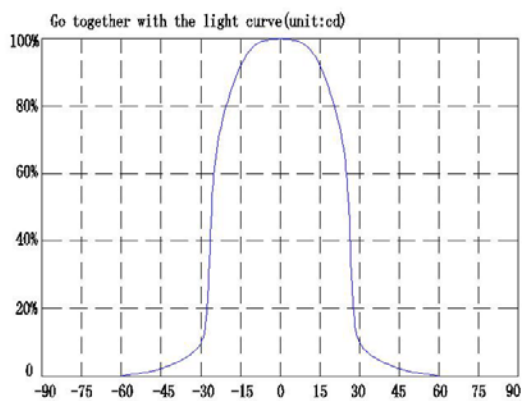
* Edixeon® single white LED: EdiPower EPLx-4E02-xx 15w

LL01ED-AI60L-Mx

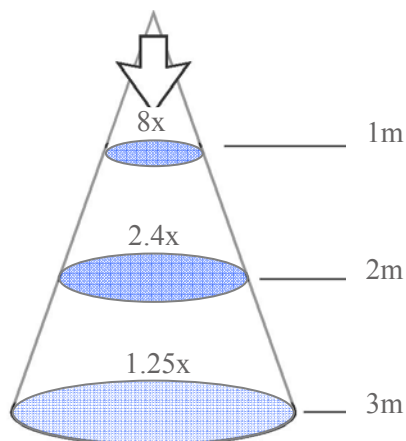
1. Beam Pattern



2. Angular Intensity Distribution

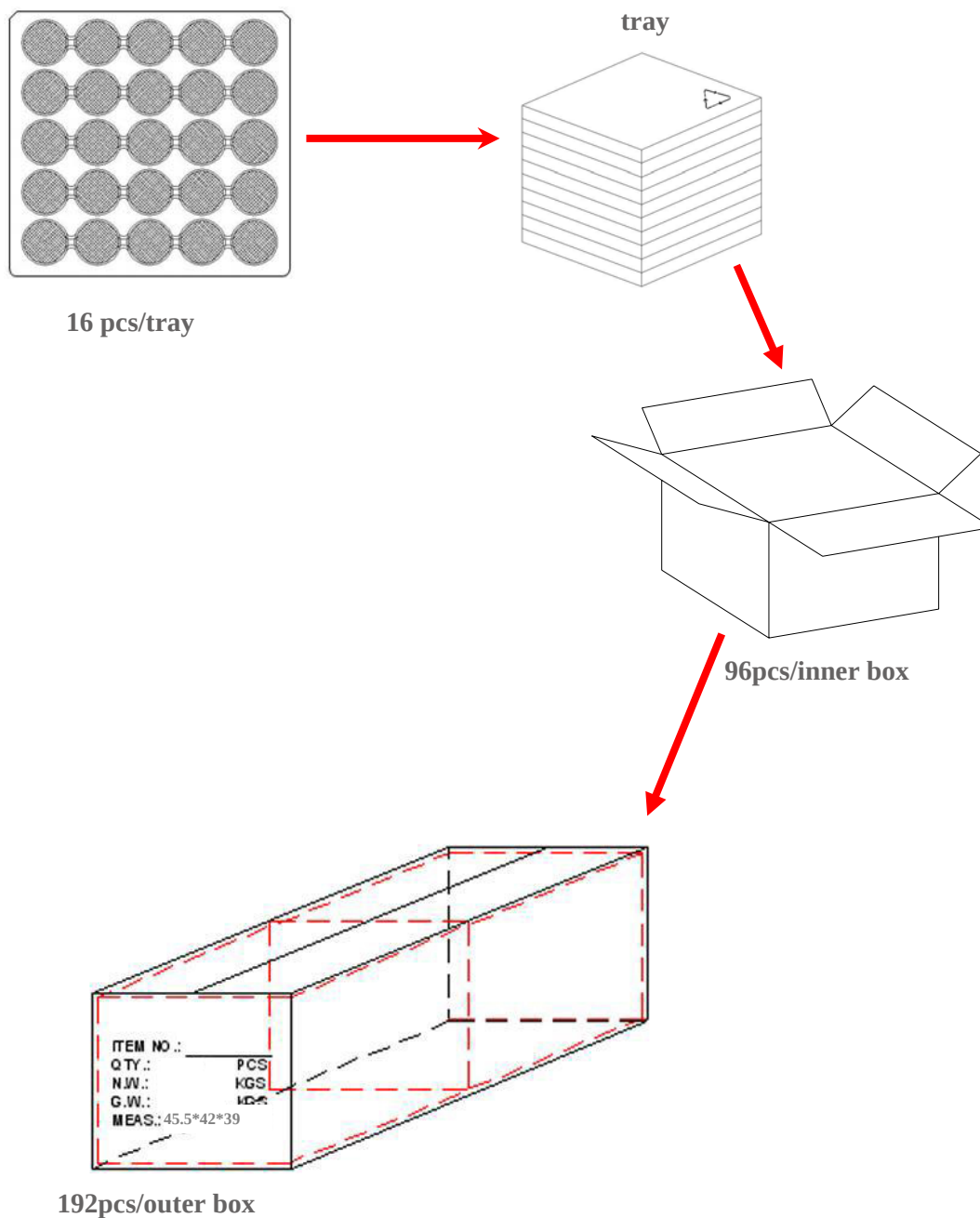


3. Shine on one degree diagram



Package

Item	Quantity	Total	Size (long * width * high)
Tray		20pcs	38*36*33cm
Inner box	6tray/box	120pcs	40*37*21 cm
Outer box	2 inner box/outer box	240pcs	45.5*42*39cm



Product Nomenclature

