

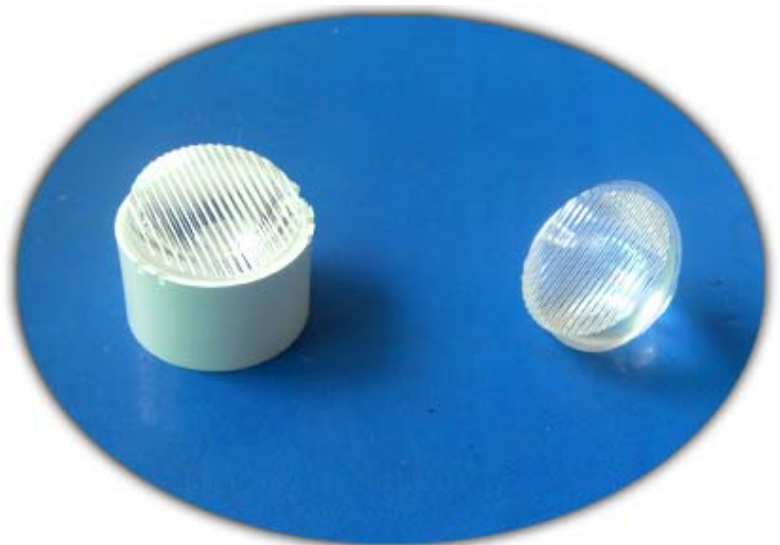
LL01LU-AA2065L-Mx Single Color Lens

Datasheet

For Edison Multi-Color and Single-Color LEDs

Features:

- High efficiency
- Available in 1 beam Pattern
- 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 LL01LU-AA2065L-Mx Single lens are optimized for both Edison Multi-Color R+G+B Edison LEDs and Single-Color Edison LEDs from Edison Opto.

• Beam Angle Type :

An optimized profile integrate different front shape enable the generation of one lens model: Medium beam (20*65deg).

• The Way to Assembly :

Go the anastigmatic direct set into the LED ascend then(according to the View assembly lens with MCPCB)

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

• Function :

LL01LU-AA2065L-Mx provides exceptional color uniform result with the highest efficiency through careful engineering and precision manufacturing process.

Notes:

(1) 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]

- Edison EDSW 1LA5

Part Number	Typical Cone Angle (degree) ⁽²⁾ with Edison EDSW 1LA5			
	Red LEDs ●	Green LEDs ●	Blue LEDs ●	RGB ●
LL01LU-AA2065L-Mx	40*67	34*56	31*60	

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) ⁽³⁾ with Edison EDSW 1LA5			
	Red LEDs ●	Green LEDs ●	Blue LEDs ●	RGB ●
LL01LU-AA2065L-Mx	137	290	30	

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.

- Edison EDSW 1LA5

Part Number	Typical Cone Angle (degree) ⁽²⁾ with Edison EDSW 1LA5	
	White LEDs ○	Warm white LEDs ●
LL01LU-AA2065L-Mx	40*65	35*59

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) ⁽³⁾ with Edison EDSW 1LA5	
	White LEDs ○	Warm white LEDs ●
LL01LU-AA2065L-Mx	260	240

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:

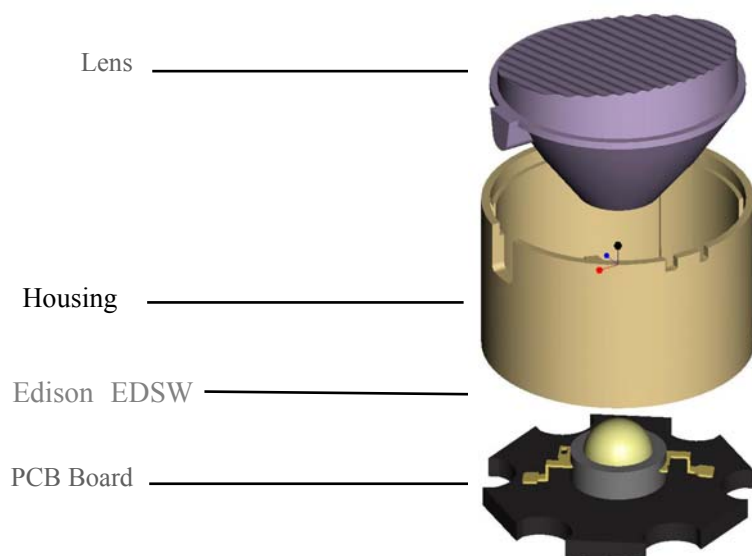
- (2) The typical divergence will be changed by different color, chip size and chip position tolerance.
The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.
- (3) The efficiency value listed above is the total value of the whole lens model, the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

Mechanical Specifications

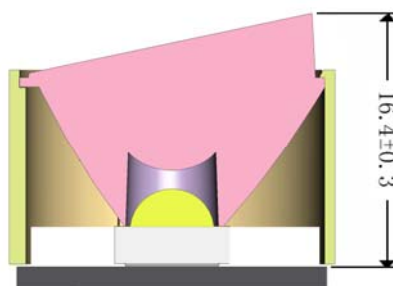
• Usage and Maintenance :

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.

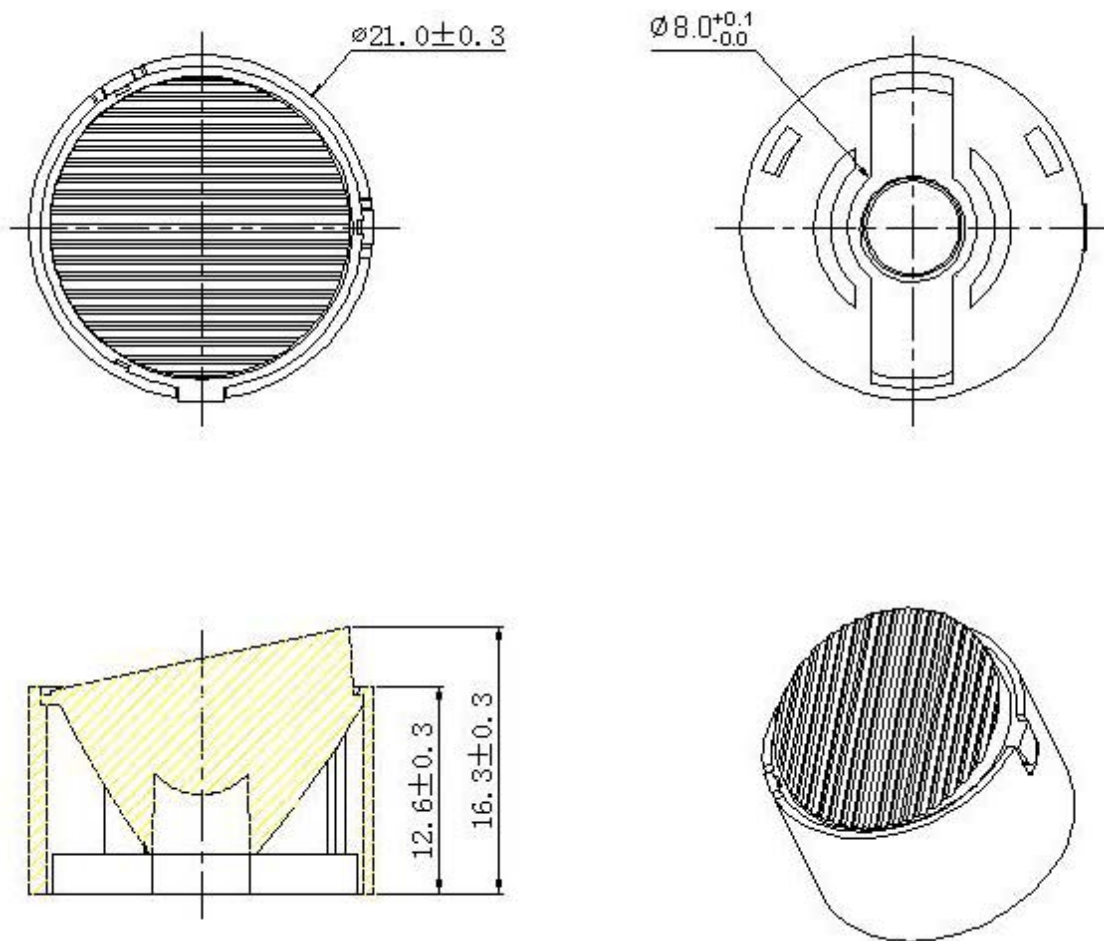
1. Lens + Leds+MCPCB assembly instruction:



2. View assembly lens with MCPCB:



3. Lens dimensions and Top Views:



Notes:

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

Illumination charts

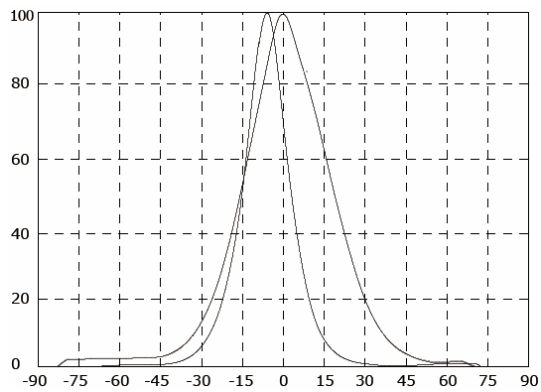
*Edison single white LED: Edison EDSW 1LA5

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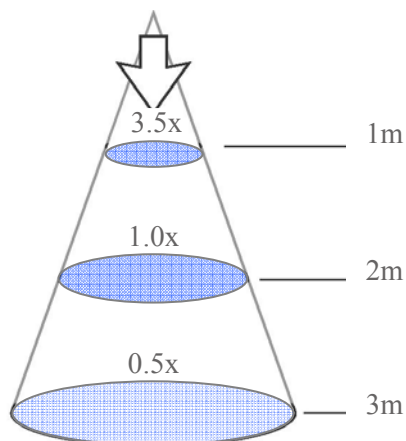
1. Beam Pattern



2. Angular Intensity Distribution



3. Shine on one degree diagram



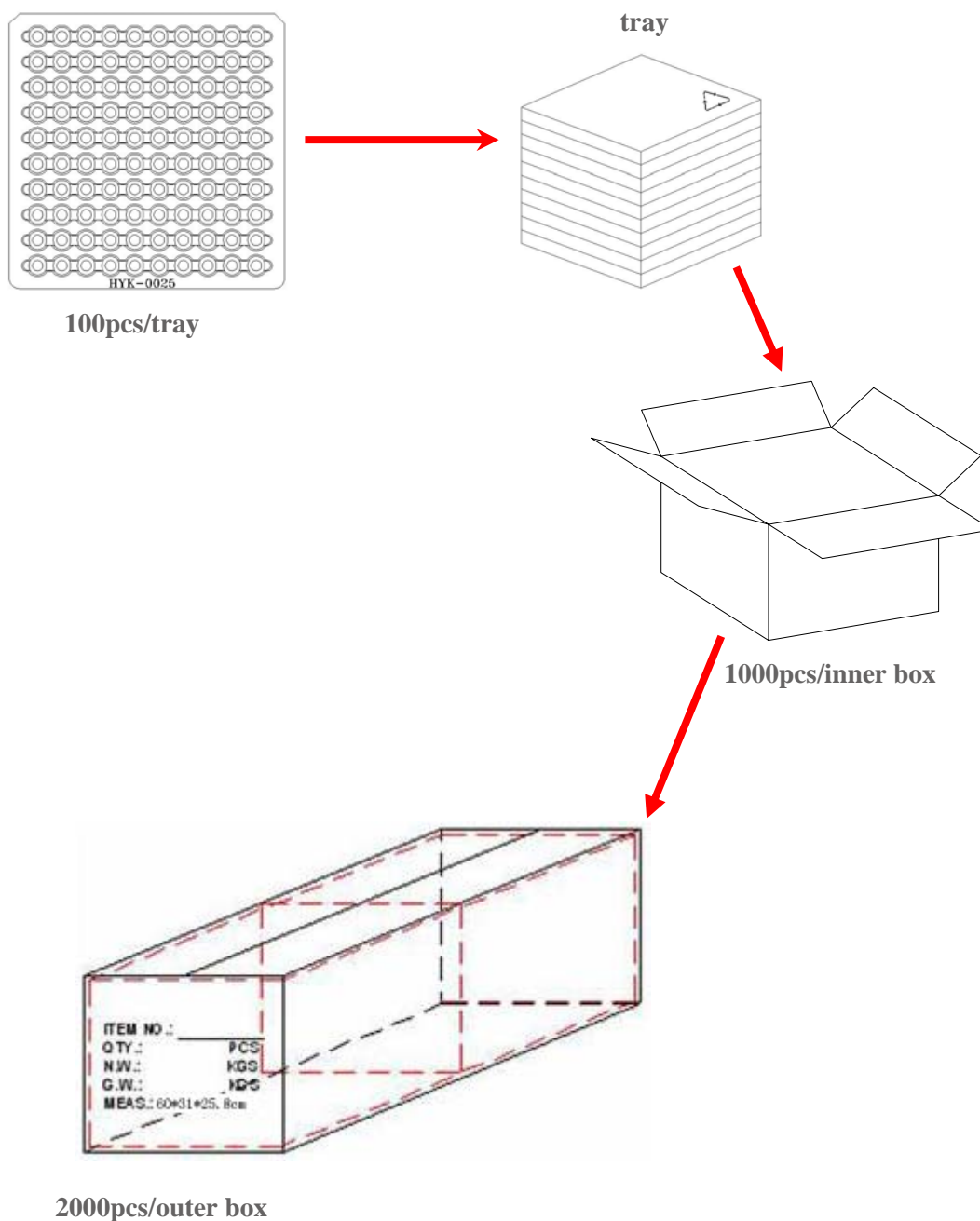
1. Beam Pattern

2. Angular Intensity Distribution

3. Shine on one degree diagram

Package

Item	Quantity	Total	Size (long * width * high)
Tray		100pcs	28*28 cm
Inner box	10tray/box	1000pcs	29*29*22cm
Outer box	2 inner box/outer box	2000pcs	60*37*25.8 cm



Product Nomenclature

