

LL01ED-CJxxL-Mx Data Sheet

For EDIXEON Multi-Color and Single-Color LEDs



Features:

- High efficiency
- Available in 4 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-CJxxL-Mx single lens are optimized for both Multi-Color R.G.B Edison LEDs and Single-Color Edison LEDs (Edixeon 1LA5 White) from Edison Opto. ⁽¹⁾

- **Beam Angle Type :**

An optimized profile integrate different front shape enable the generation of three different lens models : smallest beam (15deg);medium beam(40deg);biggest beam(60deg) ⁽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 :**

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

*The Lens holder are available in Black, white and clear

General Specifications

- Lens Material Optical Grade PMMA PC
- Operating Temperature range -40°C ~ + 120°C (upper limit +80°C)
- Storage Temperature range -40°C ~ + 120°C (upper limit +80°C)

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

Notes:

(1) Edixeon 1LA5 is a trademark of Edison, Inc, for technical information on LEDs, please refer to Edison, Inc, <http://www.edison-opto.com.tw/>

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

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

• Edixeon 1LA5 LED

Typical Cone Angle (degree) ⁽³⁾ with Edixeon 1LA5			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL01ED-CJ15L-M2	19	21	22
LL01ED-CJ40L-M2	37	39	39
LL01ED-CJ60L-M2	40	44	41
LL01ED-CJ60R-M2	56	53	55

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 Edixeon 1LA5			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL01ED-CJ15L-M2	500	1030	80
LL01ED-CJ40L-M2	150	280	22
LL01ED-CJ60L-M2	80	370	15
LL01ED-CJ60R-M2	36	72	3

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.

• Edixeon 1LA5 LED

Typical Cone Angle (degree) ⁽³⁾ with Edixeon 1LA5			
Part Number	White LEDs	Warm white LEDs	
LL01ED-CJ15L-M2	25	26	
LL01ED-CJ40L-M2	45	43	
LL01ED-CJ60L-M2	49	48	
LL01ED-CJ60R-M2	57	56	

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 Edixeon 1LA5			
Part Number	White LEDs	Warm white LEDs	
LL01ED-CJ15L-M2	820	500	
LL01ED-CJ40L-M2	290	165	
LL01ED-CJ60L-M2	315	118	
LL01ED-CJ60R-M2	90	42	

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.

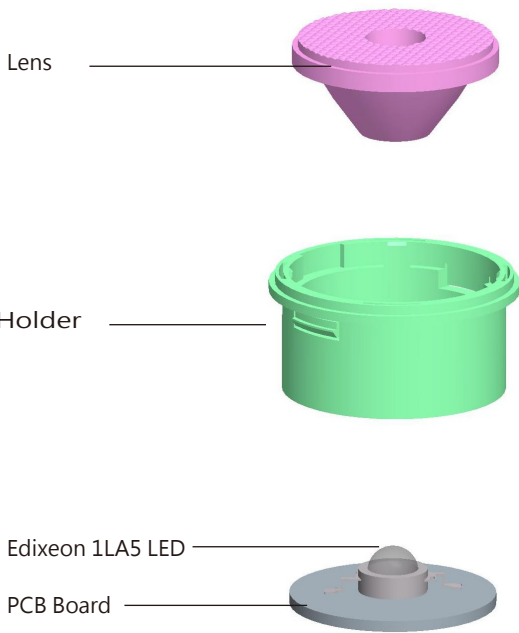
(4) The efficiency value listed above is the total value of the whole lens model, the value depends on the total flux of the LED used. Luminous intensity depends on the LEDs flux and its tolerances, for more details of LED flux, please check Edixeon data sheet at <http://www.edison-opto.com.tw/>

Mechanical Specifications

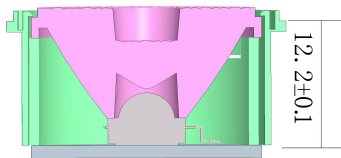
• Usage and Maintenance :

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.

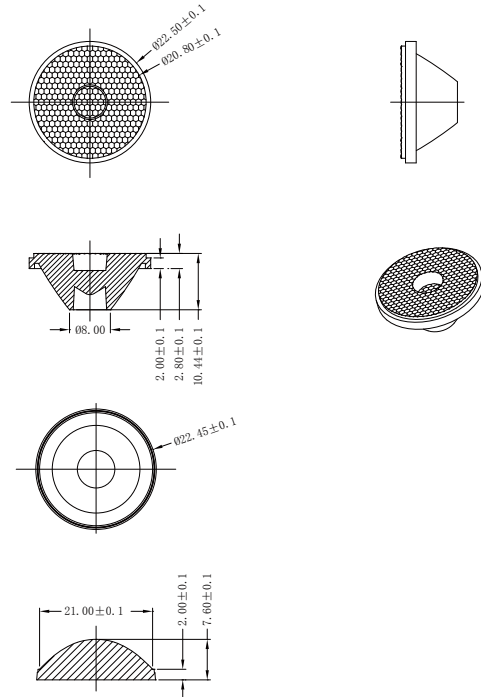
1. Lens + Leds+MCPCB assembly instruction



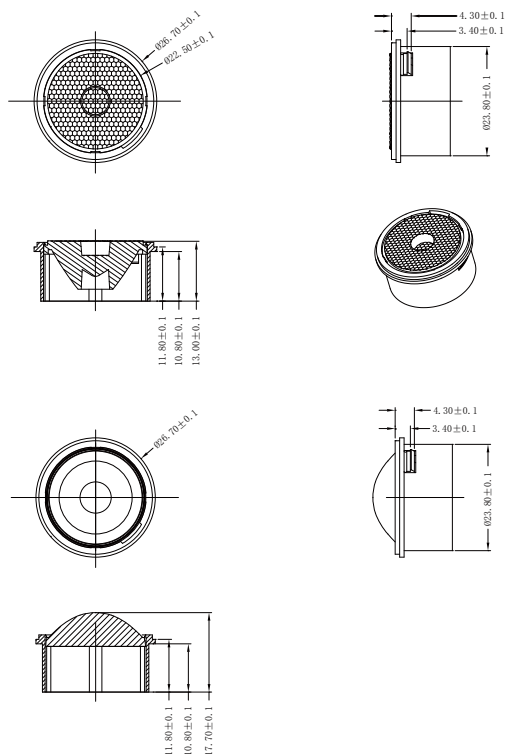
2. View assembly lens with MCPCB:



3. Lens dimensions and Top Views:





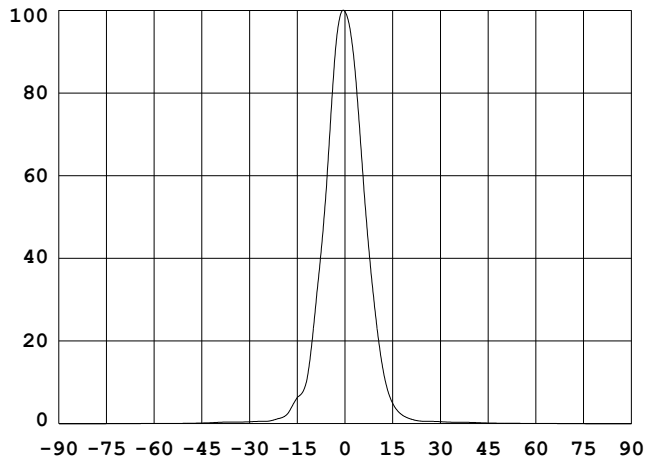
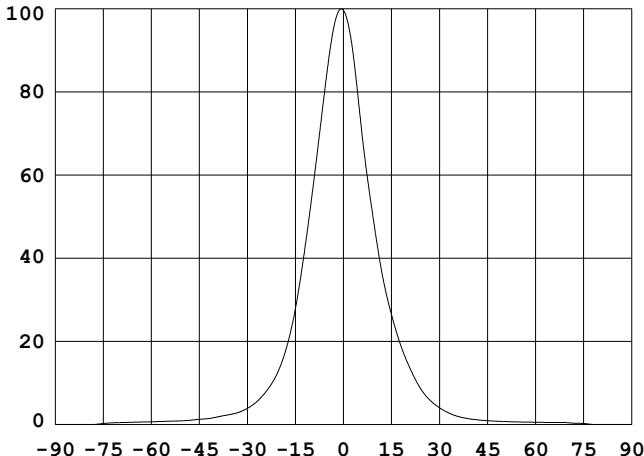
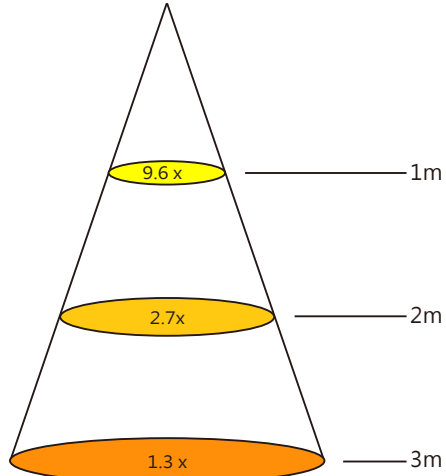
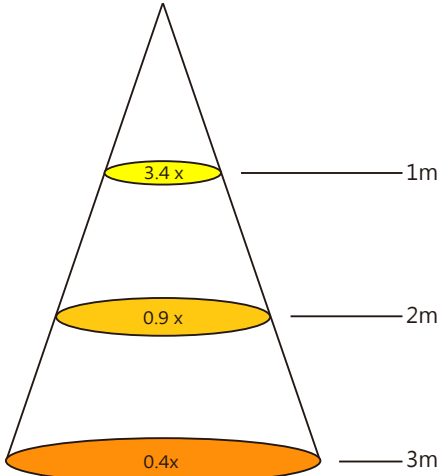
4. Lens assembly Dimensions and Top Views :



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

Illumination charts



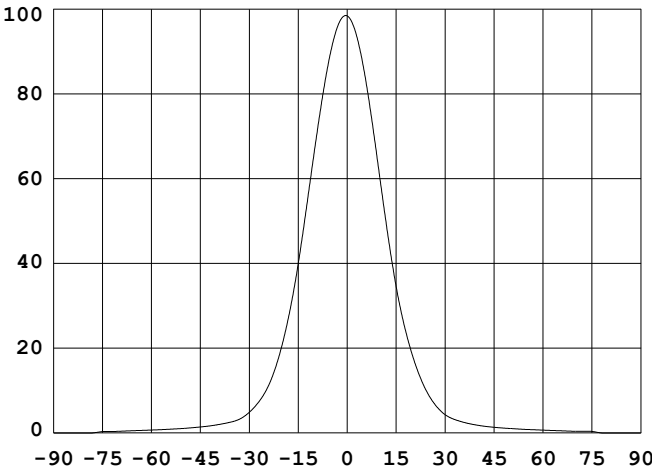
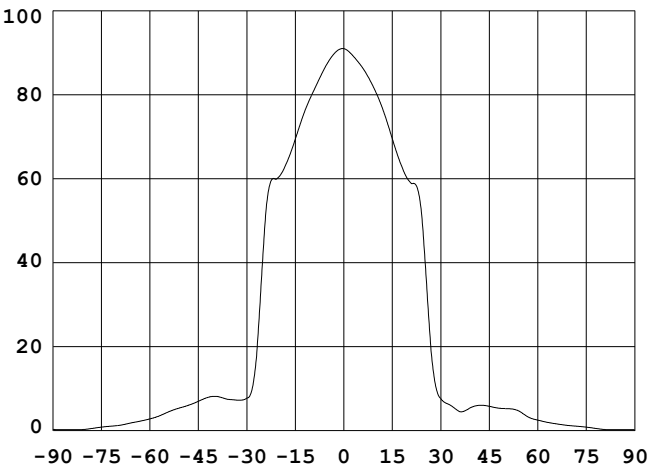
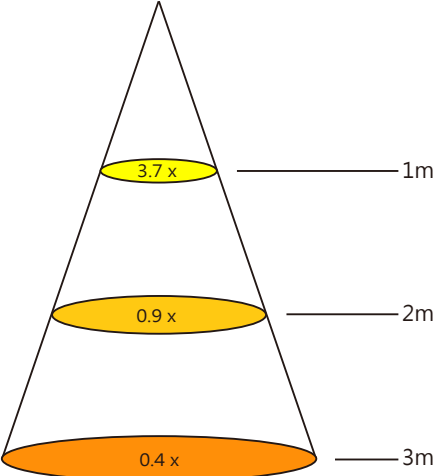
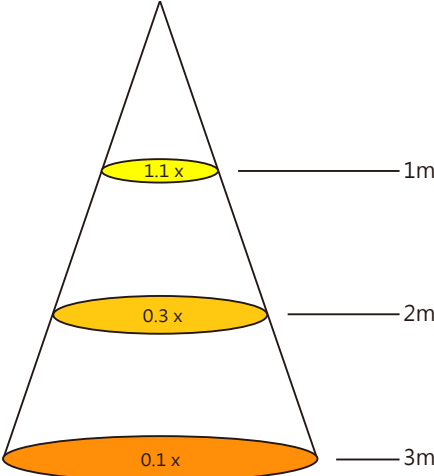
*Edixeon single white LED: Edixeon 1LA5

LL01ED-CJ15L-M2	LL01ED-CJ40L-M2
1. Beam Pattern	1. Beam Pattern
	
2. Light Distribution Curve	2. Light Distribution Curve
	
3. Illuminance	3. Illuminance
	

Notes: The Flux of Edixeon 1LA5 LED is 85 lm

Illumination charts

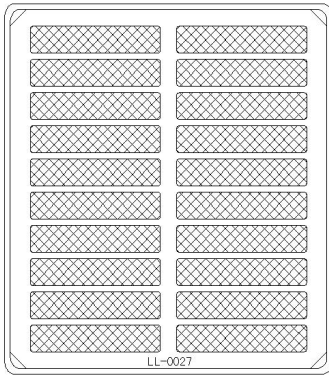
*Edixeon single white LED: Edixeon 1LA5

LL01ED-CJ60L-M2	LL01ED-CJ60R-M2
1. Beam Pattern	1. Beam Pattern
	
2. Light Distribution Curve	2. Light Distribution Curve
	
3. Illuminance	3. Illuminance
	

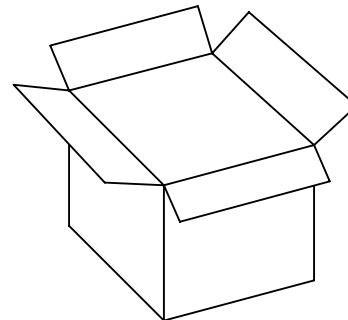
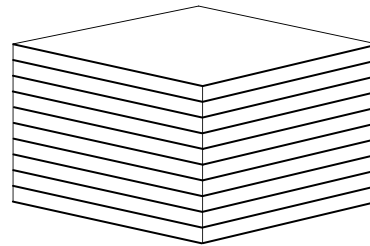
Notes: The Flux of Edixeon 1LA5 LED is 85 lm

Package

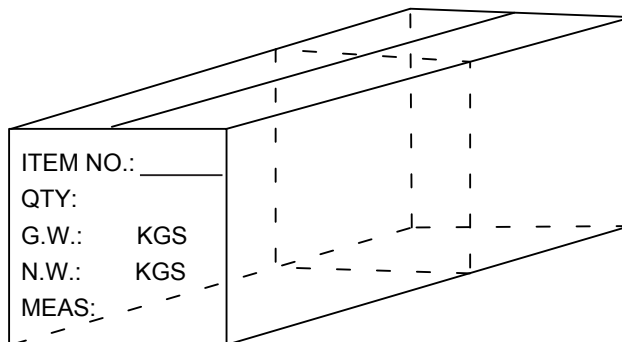
Item	Quantity	Total	Size (long*width* high)
Tray	80	80pcs	34*30*3.5 cm
Inner box	10tray/box	800pcs	35*31*21 cm
Outer box	2 Inner box/outer box	1600pcs	64.7*36.5*24 cm



80pcs/tray

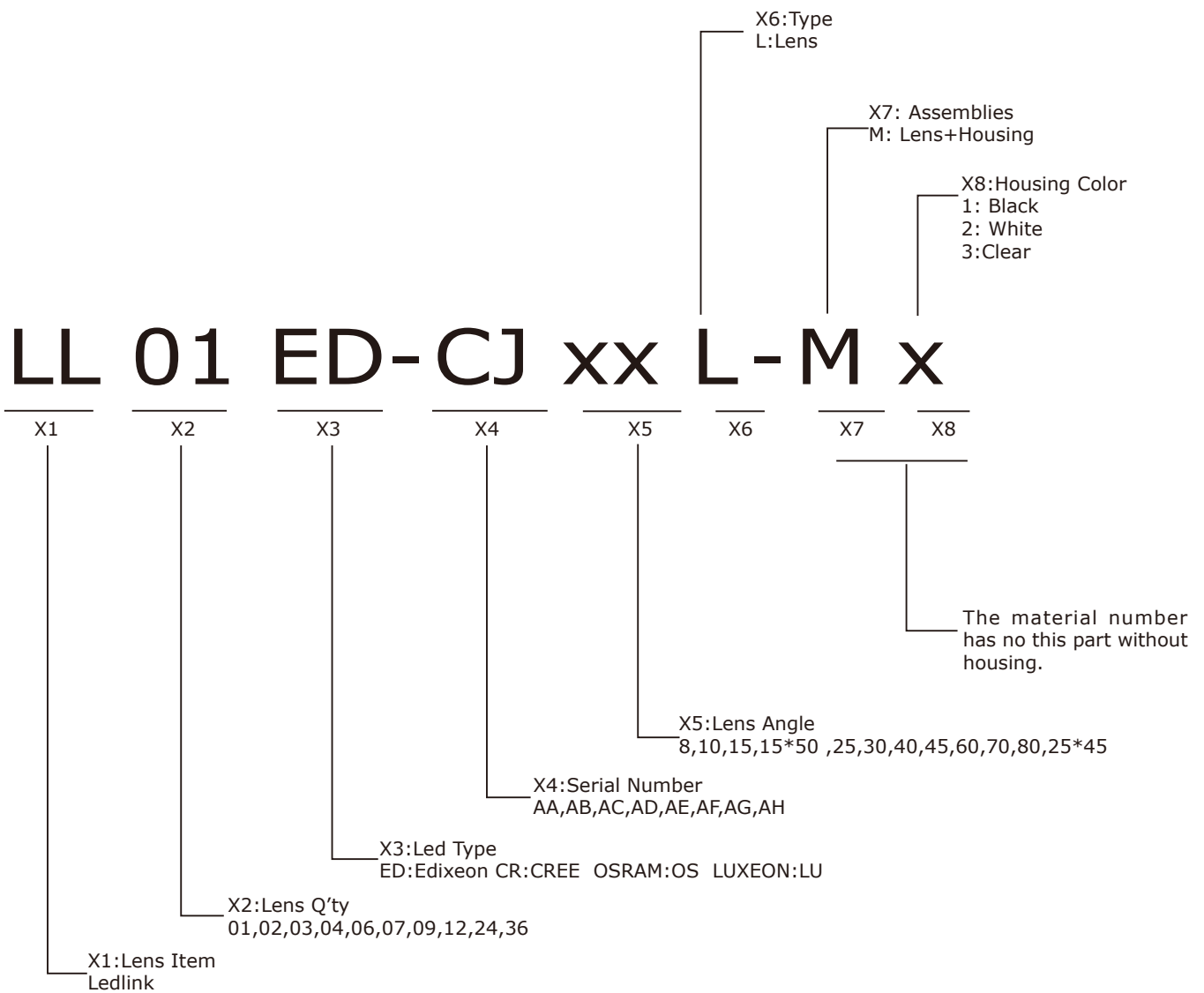


800pcs/inner box



1600pcs/outer box

Product Nomenclature



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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[CAY033](#) [CAY046/55](#) [FCX11157_RES-O-90](#) [OS-LRI2015X45S](#) [OSOLRA2015M](#) [PG1C-NX36](#) [PG1C-SX17](#) [PM2A-SXV1](#) [PM2B-NX55-](#)
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