LL01ED-AU70120L Data Sheet

For EDIXEON Single-Color LEDs



Features:

- High efficiency
- Available in 1 beam Patterns
- Optimized for uniform effects
- Lens without Housing

Typical applications :

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

Table of Contents

General Information..... 2

General Specifications..... 2

Optical Specifications..... 3

Mechanical Specifications..... 4

Illumination charts..... 5

Package Specifications..... 6

Product Nomenclature..... 7

General Information

• Compatible Led Type：

The LL01ED-AU70120L single lens are optimized for Single-Color (Edixeon 100W) Edixeon LEDs from Edison Opto. (1)

• Beam Angle Type：

An optimized profile integrate different front shape enable the generation of one lens model: oval beam (70*120deg).(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-AU70120L 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 ~ + 110˚C (upper limit +120˚C)
• Storage Temperature range	-40˚C ~ + 110˚C (upper limit +120˚C)

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

Notes:

(1) Edixeon 100W 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.

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

- Edixeon 100W LED

Typical Cone Angle (degree)(3) with Edixeon 100W			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL01ED-AU70120L	--	--	--

The typical cone angle measures where the luminous intensity is 50% 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/100W)(4) with Edixeon 100W			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL01ED-AU70120L	--	--	--

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 100W LED

Typical Cone Angle (degree)(3) with Edixeon 100W			
Part Number	White LEDs	Warm white LEDs	
LL01ED-AU70120L	63*136	--	

The typical cone angle the full angle measured where the luminous intensity is 50% 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/100W)(4) with Edixeon 100W			
Part Number	White LEDs	Warm white LEDs	
LL01ED-AU70135L	285	--	

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 athttp://www.edison-opto.com.tw/

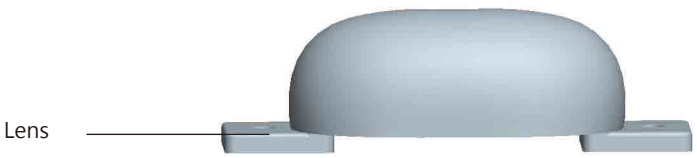
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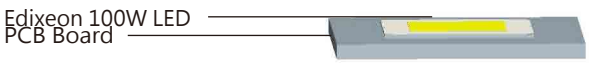
Mechanical Specifications

• Usage and Maintenance :

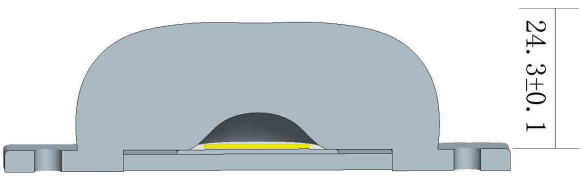
1. If necessary, clean lenses with mild soap, water and soft cloth
2. Never use any commercial cleaning solvents on lenses, like alcohol
3. Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

1. Lens + Leds+MCPCB assembly instruction

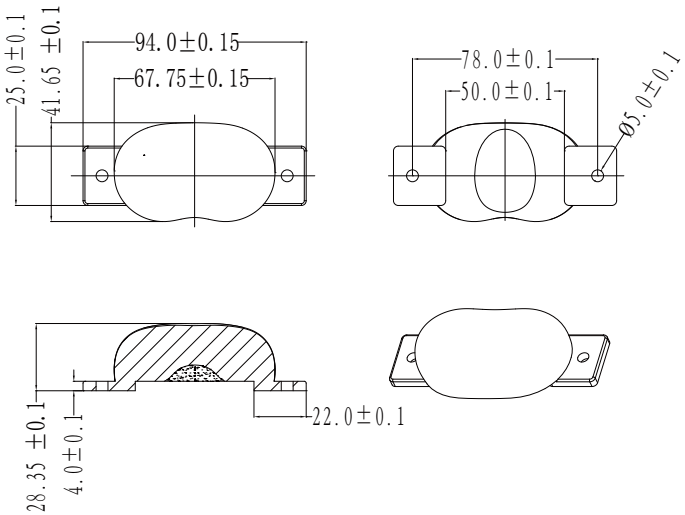




2. View assembly lens with MCPCB:



3. Lens dimensions and Top Views:

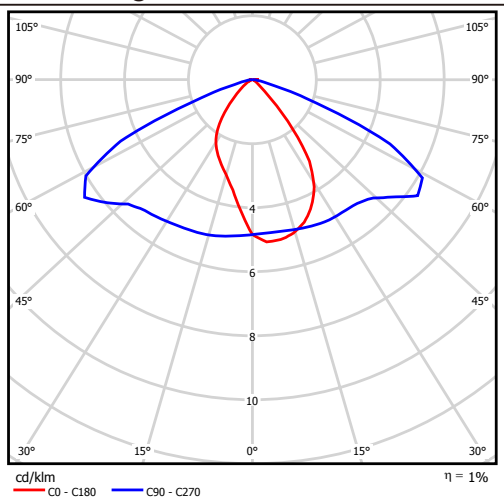
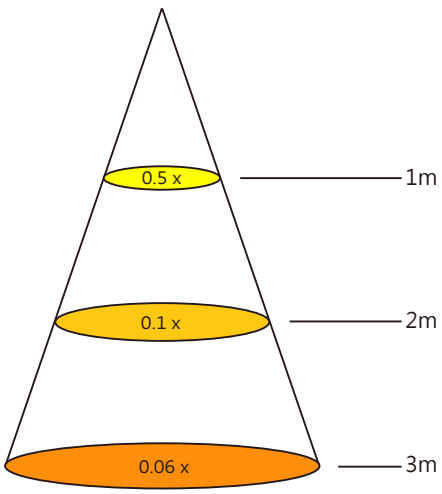


Notes:
(1) All dimensions are in mm.
(2) Drawing not to scale.
(3) Collimator material is PC.

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Illumination charts

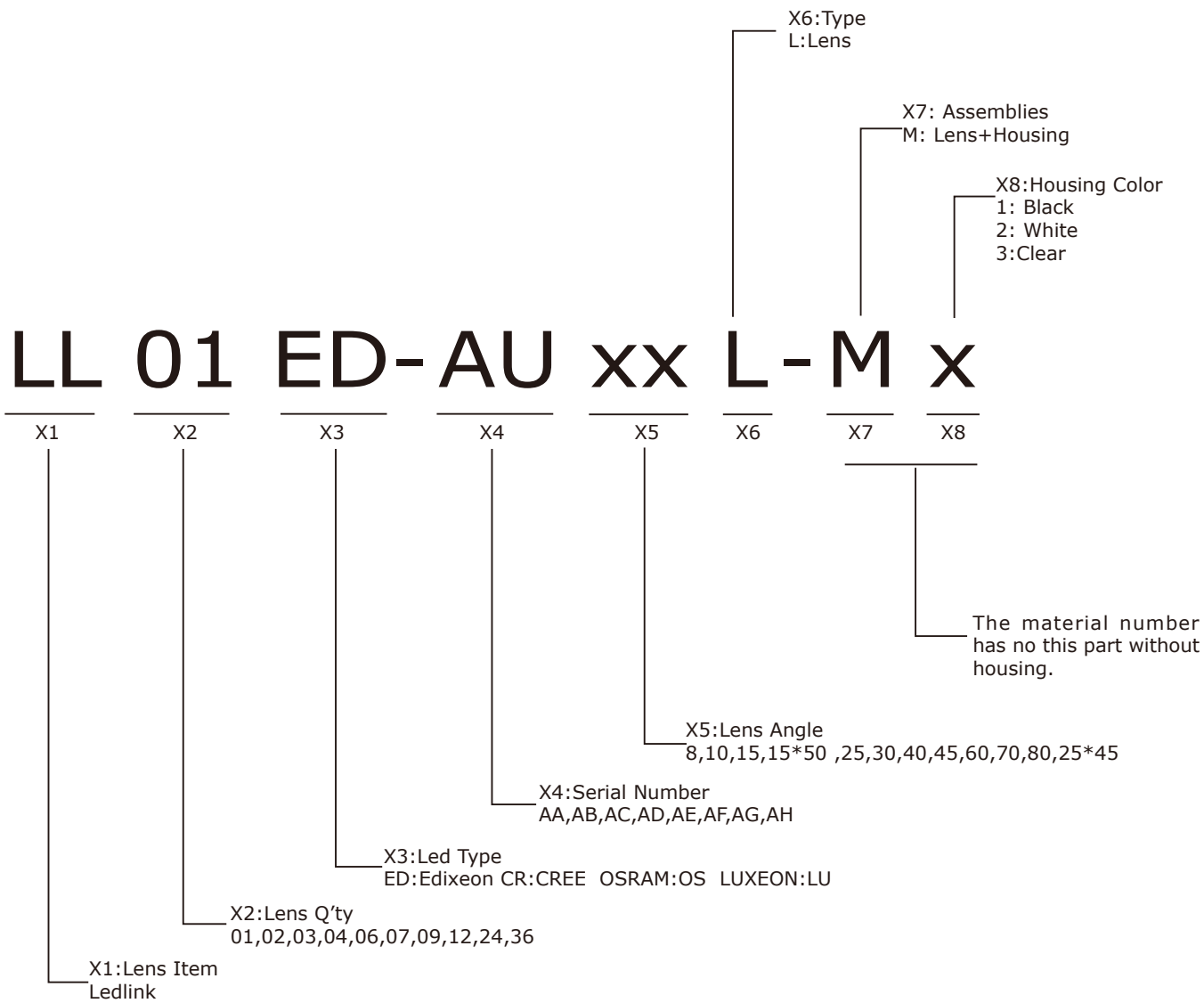
*Edixeon single white LED: Edixeon 1LA5

LL01ED-AU70120L	
1. Beam Pattern	
	
2. Light Distribution Curve	
	
3. Illuminance	
	

Notes: The Flux of Edixeon 1LA5 LED is 625 lm

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Product Nomenclature



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