

# LL04LZ-NO85140L 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

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## General Information

- **Compatible Led Type :**

The LL04LZ-NO85140L 4 in 1 lenses are optimized for Single-Color (Edixeon EDEW 1LA5) Edixeon LEDs from Edison Opto.<sup>(1)</sup>

- **Beam Angle Type :**

An optimized profile integrate different front shape enable the generation of one lens model: oval beam (85\*140deg).<sup>(2)</sup>

- **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 :**

LL04LZ-NO85140L 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 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/w) of LL04 lenses ]

• Edixeon 1LA5 LED

Typical Cone Angle (degree) <sup>(3)</sup> with Edixeon 1LA5			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL04LZ-NO85140L	--	--	--

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/4w) <sup>(4)</sup> with Edixeon 1LA5			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL04LZ-NO85140L	--	--	--

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) <sup>(3)</sup> with Edixeon 1LA5			
Part Number	White LEDs	Warm white LEDs	
LL04LZ-NO85140L	63*149	--	

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/4w) <sup>(4)</sup> with Edixeon 1LA5			
Part Number	White LEDs	Warm white LEDs	
LL04LZ-NO85140L	88	--	

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.

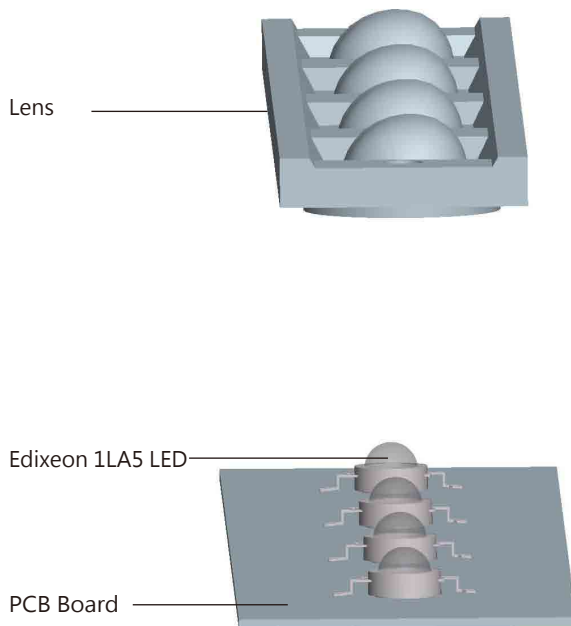
(4) The efficiency value listed above is the total value of the whole lens model, the value depends on the total flux of the LED used. Luminous intensity depends on the LEDs flux and its tolerances, for more details of LED flux, please check Edixeon data sheet at <http://www.edison-opto.com.tw/>

## Mechanical Specifications

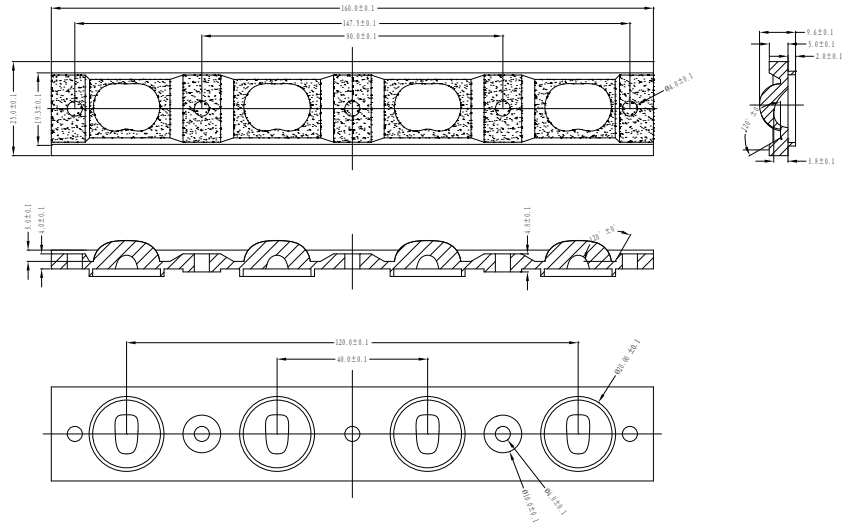
### • Usage and Maintenance :

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.

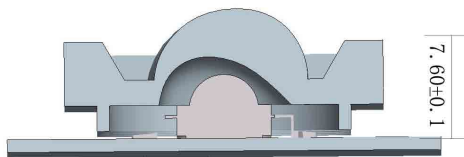
### 1. Lens + Leds+MCPCB assembly instruction



### 3. Lens dimensions and Top Views:




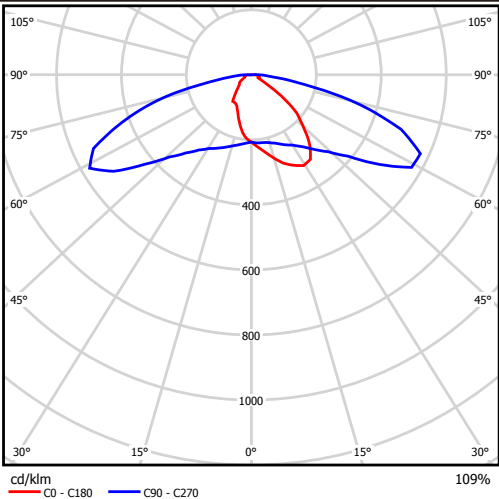
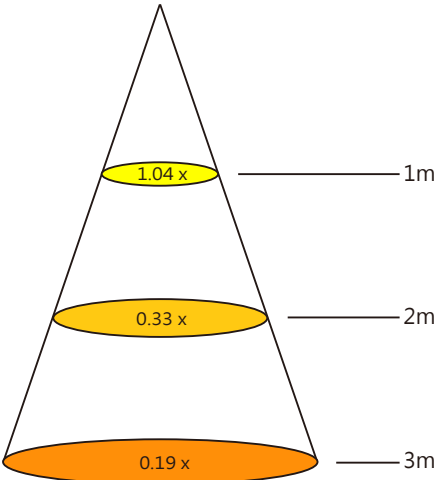
### 2. View assembly lens with MCPCB:



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

## Illumination charts

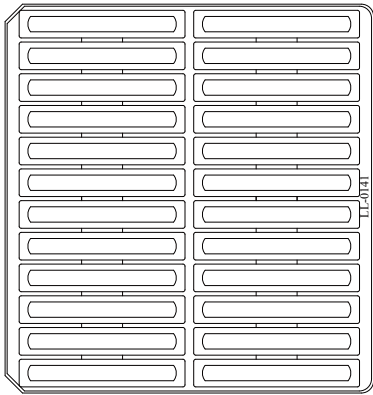
\*Edixeon 4 in 1 white LED: Edixeon 1LA5

LL04LZ-NO85140L	
1. Beam Pattern	
	
2. Light Distribution Curve	
 <p style="font-size: small; margin-top: 5px;"> <span style="color: red;">—</span> C0 - C180    <span style="color: blue;">—</span> C90 - C270    109%         </p>	
3. Illuminance	
	

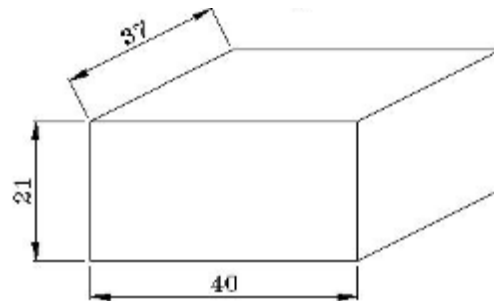
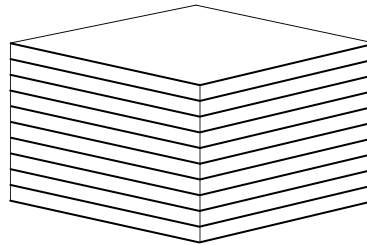
Notes: The Flux of Edixeon 1LA5 LED is 85 lm

## Package

Item	Quantity	Total	Size (long*width* high)
Tray	24	24 pcs	38*36*1.35 cm
Inner box	14tray/box	336pcs	40*37*21 cm



24 pcs/tray



336 pcs/inner box

## Product Nomenclature

