

LL36ED-AAxxL Data Sheet

For EDIXEON Multi-Color and Single-Color LEDs



Features:

- High efficiency
- Available in 3 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 LL36ED-AAxxL 36 in 1 lenses 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 (25deg);biggest beam(45deg). (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:

LL36ED-AAxxL 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 ~ + 70°C (upper limit +80°C)

• Storage Temperature range $-40^{\circ}\text{C} \sim +70^{\circ}\text{C} \text{ (upper limit } +80^{\circ}\text{C)}$

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

Notes



Optical Specifications [Typical beam Angle and intensity (cd/lm) of LL36 lenses]

• Edixeon 1LA5 LED

Typical Cone Angle (degree)(3) with Edixeon 1LA5			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL36ED-AA15L	28	27	30
LL36ED-AA25L	33	31	32
LL36ED-AA45L	42	45	42

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/36w) ⁽⁴⁾ with Edixeon 1LA5			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL36ED-AA15L	11160	16200	1800
LL36ED-AA25L	6120	13860	1080
LL36ED-AA45L	3420	12240	1080

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	
LL36ED-AA15L	37	33	
LL36ED-AA25L	41	38	
LL36ED-AA45L	46	46	

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/36w) ⁽⁴⁾ with Edixeon 1LA5			
Part Number	White LEDs	Warm white LEDs	
LL36ED-AA15L	19800	13680	
LL36ED-AA25L	15480	6120	
LL36ED-AA45L	11880	4860	

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.

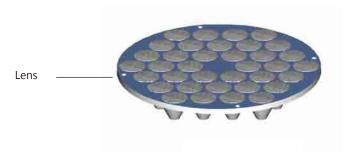
⁽⁴⁾ The efficiency value listed above is the total value of the whole lens model, the value depends on the total flux of the LED used. Luminous intensity depends on the LEDs flux and its tolerances, for more details of LED flux, please check Edixeon data sheet athttp://www.edison-opto.com.tw/

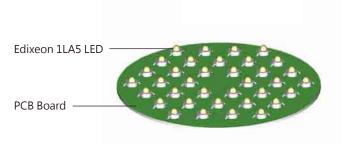


Mechanical Specifications

- 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.

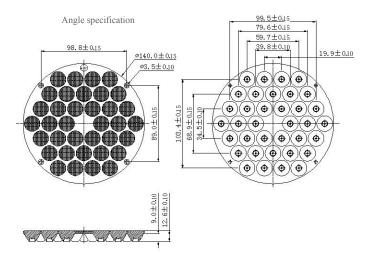
1. Lens + Leds+MCPCB assembly instruction





2. View assembly lens with MCPCB:

3. Lens dimensions and Top Views:





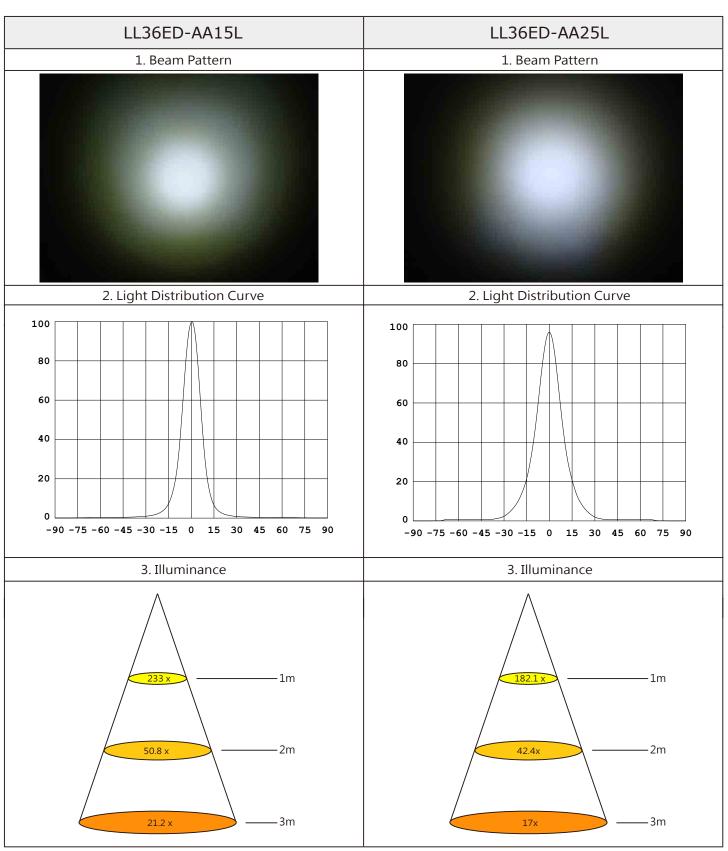
Notes

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



Illumination charts

*Edixeon 36 in 1 white LED: Edixeon 1LA5

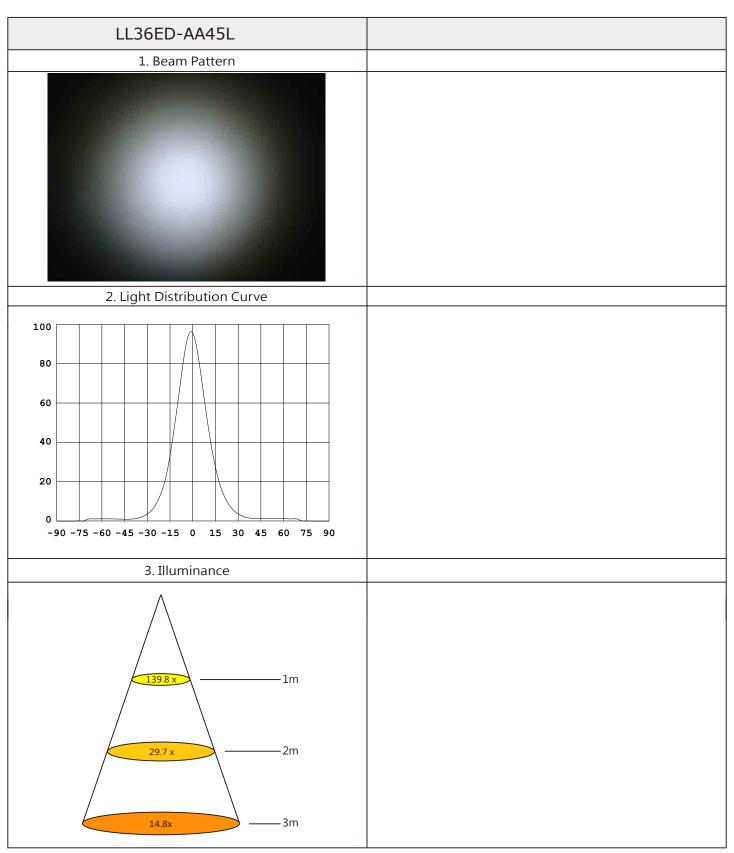


Notes: The Flux of Edixeon 1LA5 LED is 85 lm



Illumination charts

*Edixeon 36 in 1 white LED: Edixeon 1LA5

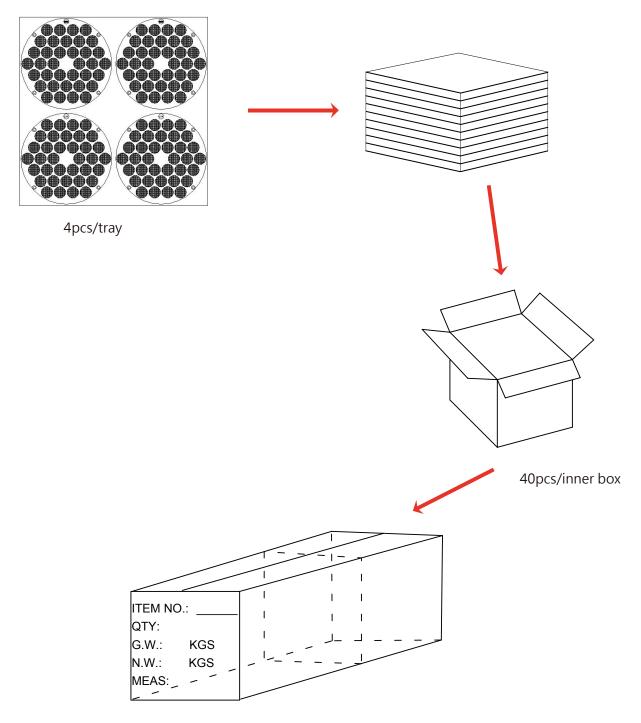


Notes: The Flux of Edixeon 1LA5 LED is 85 lm



Package

Item	Quantity	Total	Size (long*width* high)
Tray	4	4pcs	34*30*3.5 cm
Inner box	10tray/box	40pcs	35*31*21 cm
Outer box	2 Inner box/outer box	80pcs	64.7*36.5*24 cm



80pcs/outer box



Product Nomenclature

