

LL07ED-GKxxL 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 LL07ED-GKxxL 7 in1 lenses are optimized for both Multi-Color R.G.B Edison LEDs and Single-Color Edison LEDs (Edixeon Federal 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(25deg), 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 :**

LL07ED-GKxxL 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°C ~ + 70°C (upper limit +80°C)

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

Notes:

(1) Edixeon Federal 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 LL07 lenses]

• Edixeon Federal LED

Typical Cone Angle (degree) ⁽³⁾ with Edixeon Federal			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL07ED-GK25L	--	--	
LL07ED-GK40L	--	--	--
LL07ED-GK60L	--	--	--

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/7w) ⁽⁴⁾ with Edixeon Federal			
Part Number	Red LEDs	Green LEDs	Blue LEDs
LL07ED-GK25L	--	--	
LL07ED-GK40L	--	--	--
LL07ED-GK60L	--	--	--

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 Federal LED

Typical Cone Angle (degree) ⁽³⁾ with Edixeon Federal			
Part Number	White LEDs	Warm white LEDs	
LL07ED-GK25L	27	--	
LL07ED-GK40L	36	--	
LL07ED-GK60L	60	--	

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/7w) ⁽⁴⁾ with Edixeon Federal			
Part Number	White LEDs	Warm white LEDs	
LL07ED-GK25L	4690	--	
LL07ED-GK40L	3500	--	
LL07ED-GK60L	1330	--	

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

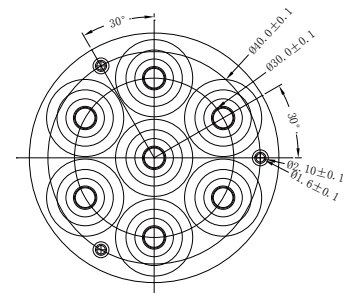
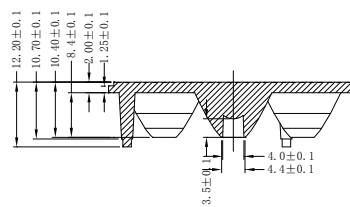
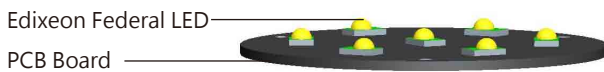
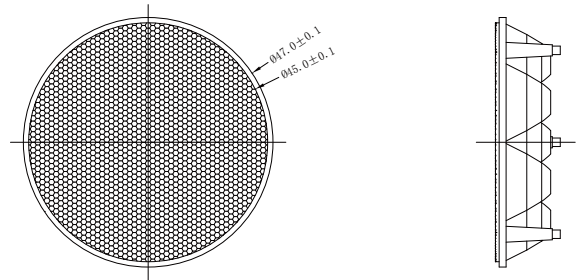
- Usage and Maintenance :

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.

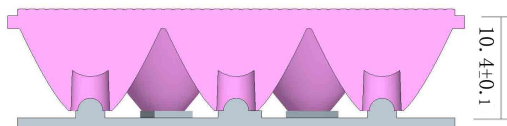
1. Lens + Leds+MCPCB assembly instruction



3. Lens dimensions and Top Views:



2. View assembly lens with MCPCB:

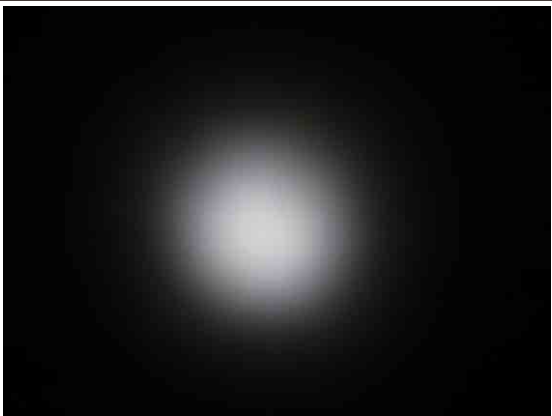
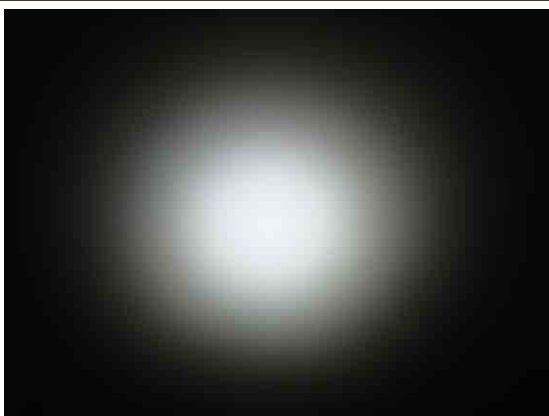
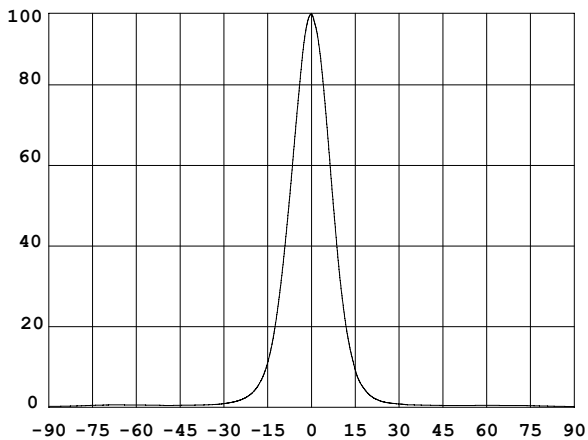
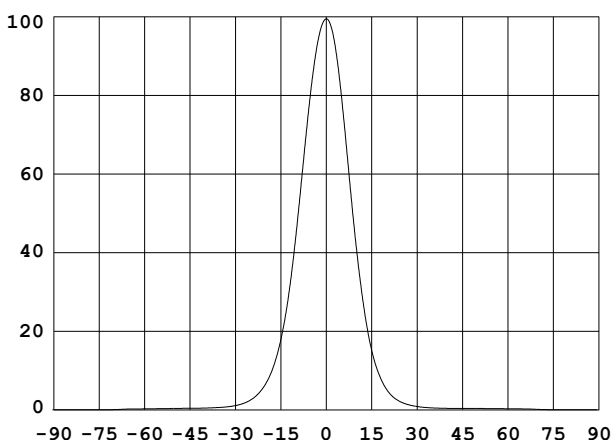
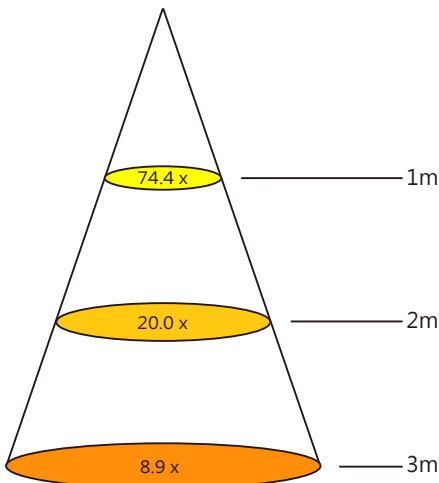
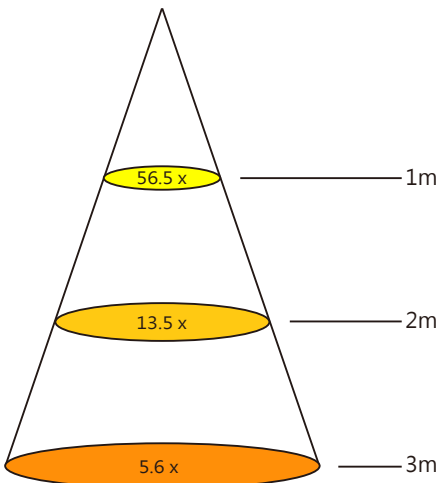


Notes:

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

Illumination charts

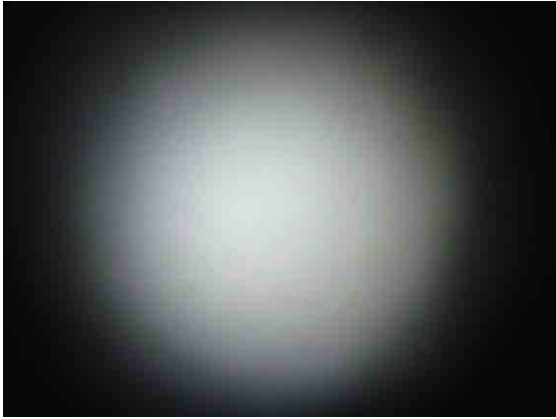
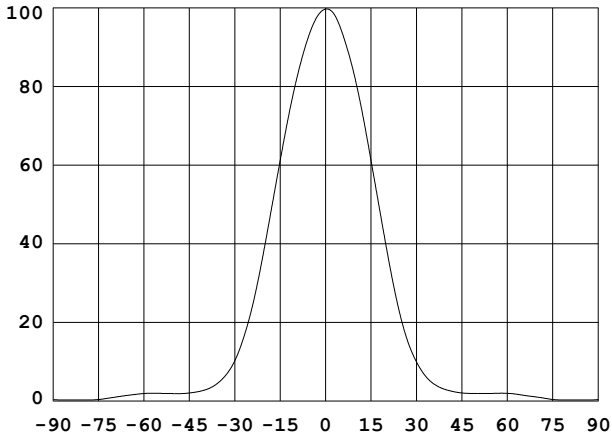
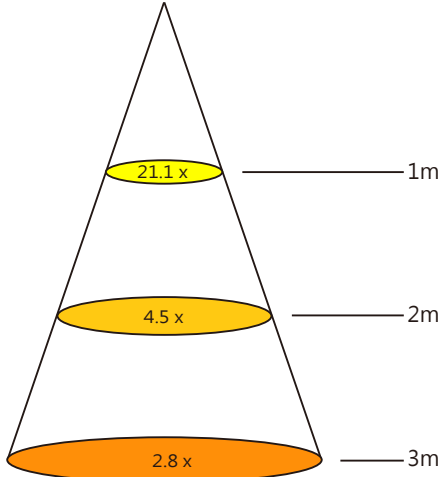
*Edixeon 7 in 1 white LED: Edixeon Federal

LL07ED-GK25L	LL07ED-GK40L
1. Beam Pattern	1. Beam Pattern
	
2. Light Distribution Curve	2. Light Distribution Curve
	
3. Illuminance	3. Illuminance
	

Notes: The Flux of Edixeon Federal LED is 63 lm

Illumination charts

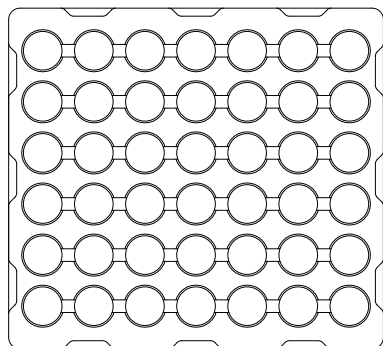
*Edixeon 7 in 1 white LED: Edixeon Federal

LL07ED-GK60L	
1. Beam Pattern	
	
2. Light Distribution Curve	
	
3. Illuminance	
	

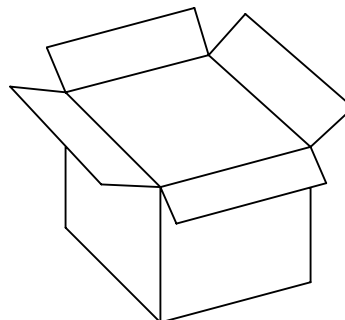
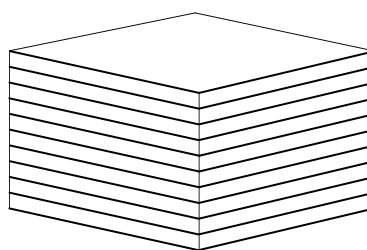
Notes: The Flux of Edixeon Federal LED is 63 lm

Package

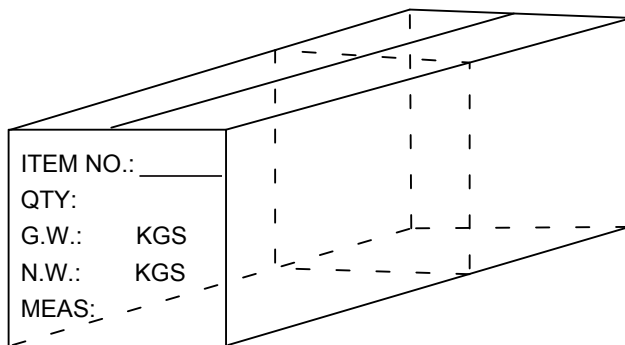
Item	Quantity	Total	Size (long*width* high)
Tray	42	42pcs	34*30*3.5 cm
Inner box	10tray/box	420pcs	35*31*21 cm
Outer box	2 Inner box/outer box	840pcs	64.7*36.5*24 cm



42pcs/tray



420pcs/inner box



840pcs/outer box

Product Nomenclature

