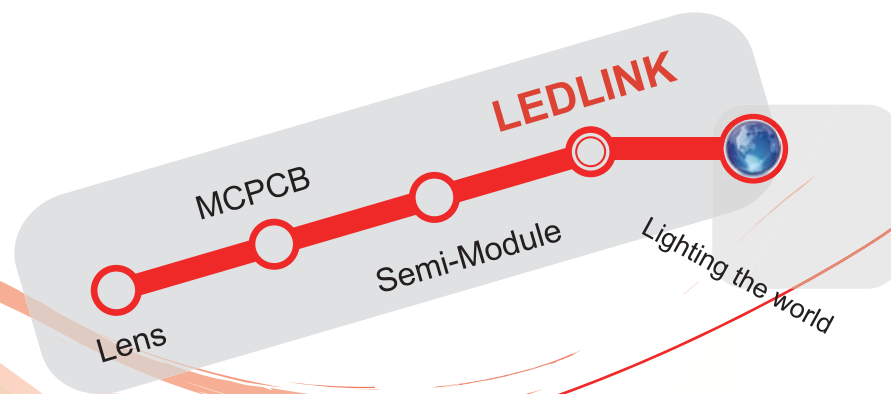


*Secondary Optical Lens
Efficiency & Beam pattern optimization*



Index

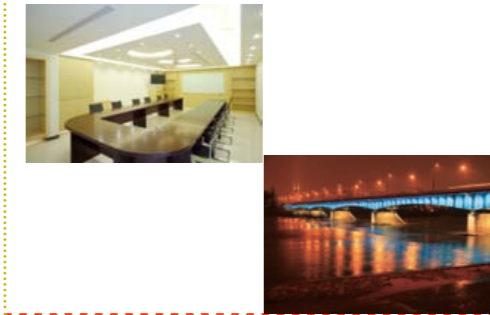
About Ledlink



Product Nomenclature

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www.ledlink-optics.com

Lens List By LED

CREE	CITIZEN	EDISON	PHILIPS LUMILEDS	NICHIA	OSRAM	SEOUL	SAMSUNG SAMSUNG LED
XPC..... 33	CL233..... 46	1LA5..... 47	Rebel..... 51	083B..... 55	GD Plus..... 61	P4..... 65	Sunnix 7..... 71
XPE..... 35		Federal..... 49	Rebel ES..... 53	119..... 56	GD..... 62	A4..... 67	
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MX6..... 43							
CLN6A..... 45							



About Ledlink & Secondary Optical Lens

LED optical design and secondary optical design principles

High-power LED lighting components are generally conducted the secondary optical design before the finished product. When LED IC chip packages are assembled as the LED component, they need to be conducted an optical design in order to solve the LED of the light angle, flux, luminous intensity, color temperature range and distribution, which is called an optical design. Secondary optical design is for high-power LED, the light goes through a lens and then another optical lens to change its optical properties.

Secondary optical design is based on the optical design. Only if an optical package is designed perfectly so that it can ensure each LED component starts out of consistent quality of the light extraction efficacy of secondary optics and light-based optimization. In short, an optical design is designed to remove as much as possible the light emitted LED chip, and secondary optical design is aim to make the lighting system, the light emitted can be effectively used in the lighting.

LED secondary optics with optical technology

LED of the secondary optical system including lenses and reflectors. From the LED OBM and OEM assembly to applications, optical systems can be seen everywhere. As for choosing the lens or reflector depends on what the case requires. There is no the best solution, only better ones, or good enough.

Optical design is mainly reflected in the merits of efficacy and rationality. In addition to the outdoor lighting brightness of a certain space, but also need a range of lighting, such as street lamps illuminate the road is the main function, and with the surrounding environment with good luminous intensity ratio (Luminance), in order to people eye to clear roads and the surrounding environment; traffic signs and outdoor display shall have an effective angle of view; wall washer requires a side wall of the illuminated object. If the design has most of the optical light source not exposure to be exposure to the range, it formed a light waste, so a reasonable distribution through professional optical technology, not only can reduce waste, while saving LED quantity, then reduce heat, the number and the heat LED directly Reaction that is cost reduction.

Why choose Ledlink

Nowadays, LED is the newest industry in lighting field. Every industry is mustering the strength to actively develop LED-related lighting. Surely, a prerequisite for LED lighting LED itself must be the luminance, color temperature, and drivers supply and cooling Technical design is well controlled. In addition to the final success or failure of key stake is the shape and the light emitted LED light efficacy. How to make the LED lamps have the best of luminance, secondary optical lens is the key point.

Ledlink's commitment to develop innovative products together with our capability of creating custom optics are the best response to market and application needs. We are proud to introduce the most revolutionary optic solutions specified for any applications in the Wide Area Lighting, such as the colorful stage lighting effects mixed light, commercial lighting of the precise light pattern, evenly luminous efficacy of home lighting, street lighting, and a rectangular light effect.

With demonstrated technologically advanced optical solutions, Ledlink enhances the value of LED light source and lead customers to walk in the light tip of the world!



2012

- Employees:1400
- Monthly capacity: 25 KK/pcs



2011

- Yang-Zhou factory production
- Employees:1200
- Monthly capacity: 20 KK/pcs



2010

- UL certification approved
- 2010/11 Yang-Zhou factory established
- 2010/11 Ledlink relocation to Bannan Road Chung-Ho City Taipei
- Employees:700
- Monthly capacity: 12 KK/pcs

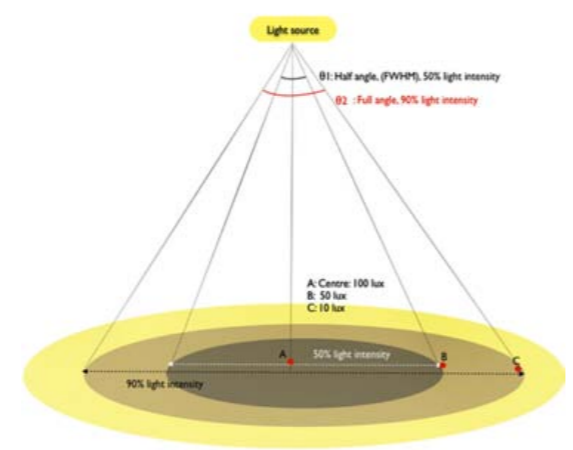
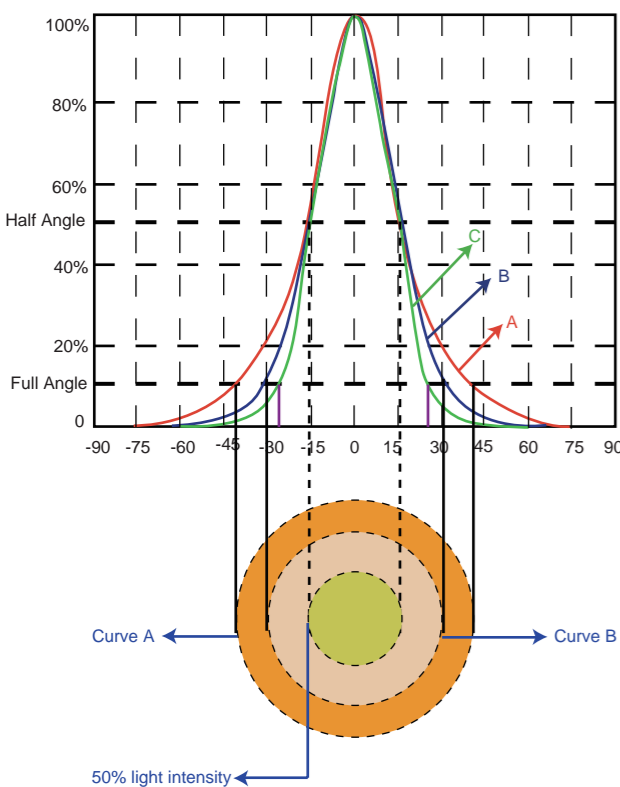


- 2009 - ISO 9001,ISO 14001 certification approved
- Dong-Guan secondary factory established
- Employees:500
- Monthly capacity: 8 KK/pcs



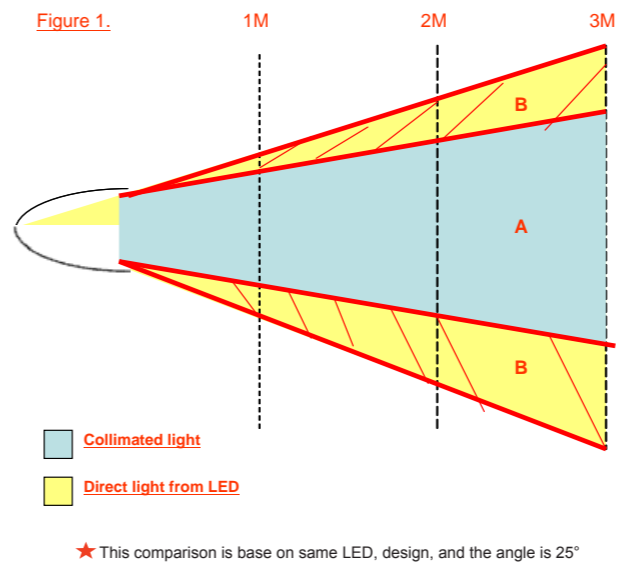
- 2008 - 2008/04 Ledlink established in Taipei
- 2008/10 Dong-Guan factory established
- Employees:200
- Monthly capacity: 6 KK/pcs

Definition of Beam Angle



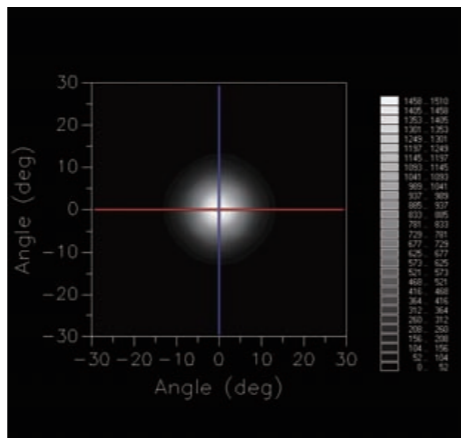
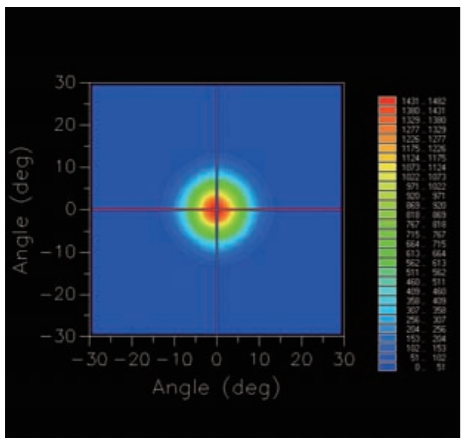
- Half angle: 50% light intensity, (FWHM)
- Full angle: 90% light intensity
- For Curve A, B, and C → half angle 30°
- Full angle
 - Curve A = 80°
 - Curve B = 60°
 - Curve C = 50°
- Full angle definition is more accurate as it allows the luminaries designer to arrange/ develop their LED lamp.

Reflector or Secondary Optics ?



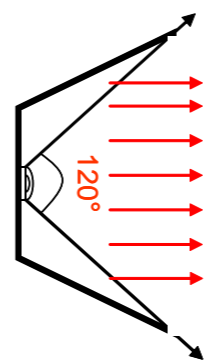
- Reflector:
 - Can't shift the light direction as there is no reflective surface. Take figure1 for example, the angle is 25° (area A) but the total beam cover area is about 40°.
 - The light in area B sometimes is useless (depends on application) and this does not make the best use of the light/ flux which generated by LED.
- Lens
 - With the total internal reflection, even the light will drop 8~10% when goes through the plastic, the control of the beam is better than reflector.

Machine measurement / Human eyes

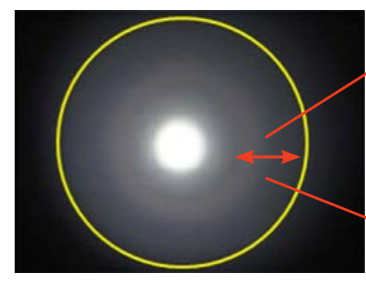


A) Machine measured beam pattern (light intensity) B) Beam pattern in human eyes

Reflector



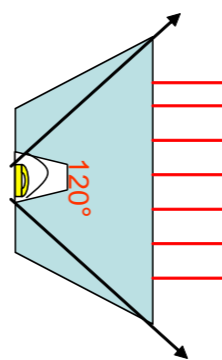
- Beam angle: Limited by the available height of the lamp



Lights which are not reflected/ redirected by the reflector.

The longer the distance is, the poorer the efficiency will be.

Secondary Optics



- Beam angle: customizable from 10 ° to 160 °



Beam patterns are customizable with varies demands. For example, rectangular or elliptical, etc..

Lights are redirected with the lens to get the required angles.

LL 01 CR - AO XX L - M x

X1: Lens Item X2: Lens Q'ty X3: Led Type X4: Serial Number X5: Lens Angle X6: Type X7: Housing

X1: Lens Item: Ledlink

X2: Lens Q'ty: 01,03,04,06,07,09,12,15,18,24,36,60

X3: Led Type: CR → Cree
ED → Edison
LU → Lumileds
NI → Nichia
OS → Osram

X4: Serial Number: AA,AB,AC,.....EX,.....

X5: Lens Angle: 08°,10°,15°,25°.....,40°,60°.....,80°.....,140°, 25°x45°, 30°x65°...

X6: Type: L→Lens

X7: Housing: M1→ Black
M2→ White
M3→ Clear

Application

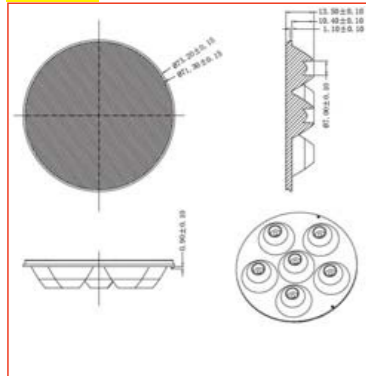
Indoor Lighting



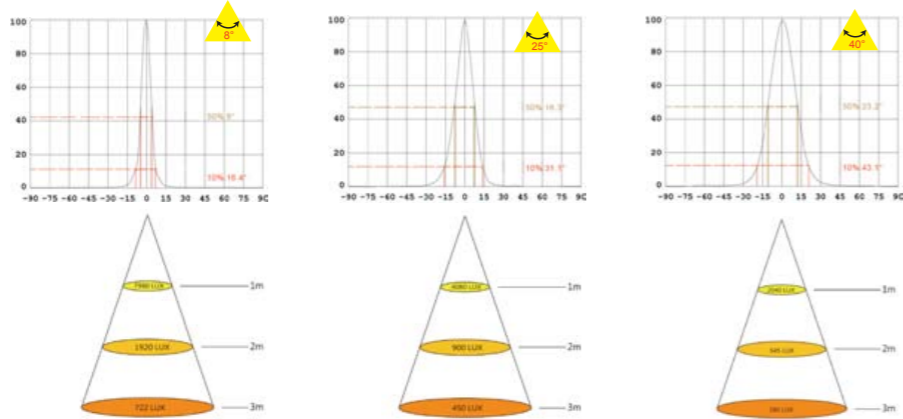
Indoor Lighting Lens



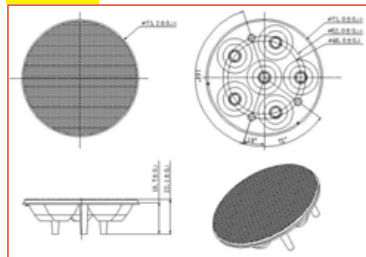
2D Drawings



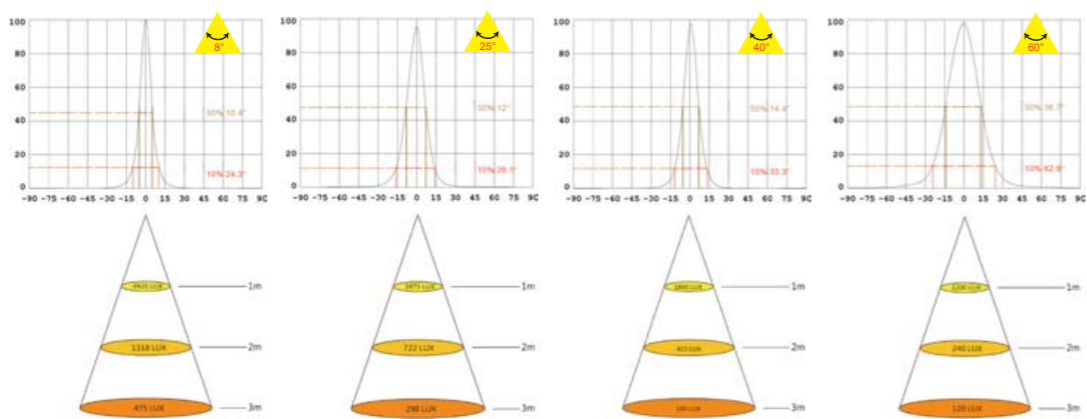
Part Number	DxH(mm)	Angle	LED	LED type
LL06ED-AExxL	73.2x13.5	8° 25° 40°	CREE	XPE/XPG/ XRE/MX6/MX3
			DISON	1LA5/Federal
			PHILIPS LUMILEDS	Rebel
			NICHIA	083B/183/119
			OSRAM	GD/GDP/Oslon
			SEKUL	P4/Z1/Z5



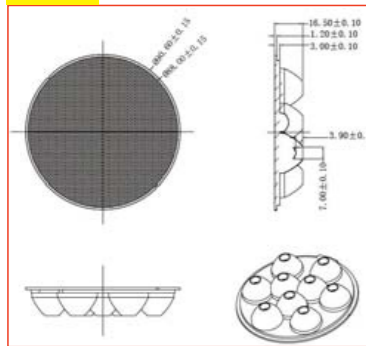
2D Drawings



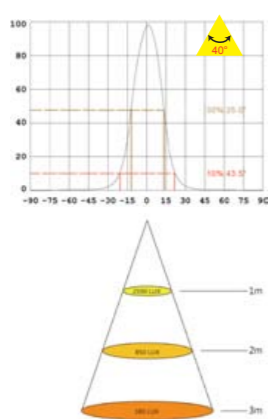
Part Number	DxH(mm)	Angle	LED	LED type
LL06ED-ADxxL	73.3x13.9	8° 25° 40° 60°	CREE	XPE/XPG/ XRE/MX6/MX3
			DISON	1LA5/Federal
			PHILIPS LUMILEDS	Rebel
			NICHIA	083B/183/119
			OSRAM	GD/GDP/Oslon
			SEKUL	P4/Z1/Z5



2D Drawings



Part Number	DxH(mm)	Angle	LED	LED type
LL09ED-ATxxL	90.6x16.5	40°	CREE	MX3/MX6/CLN6A
			DISON	1LA5/Federal
			PHILIPS LUMILEDS	Rebel
			NICHIA	083B/183/119
			OSRAM	GDP
			SEKUL	A4/P4/Z5

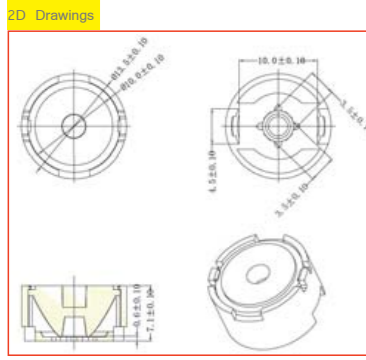


Application

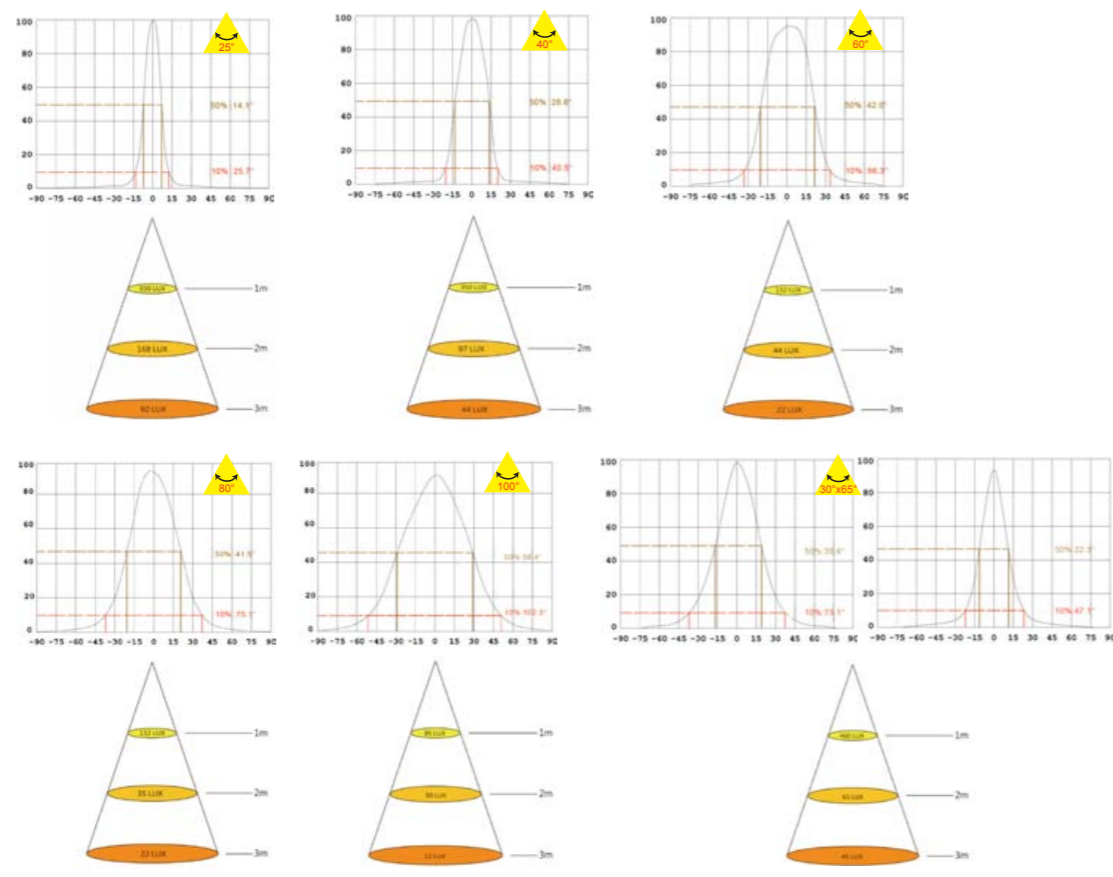
High Bay Lighting



High Bay Lighting Lens

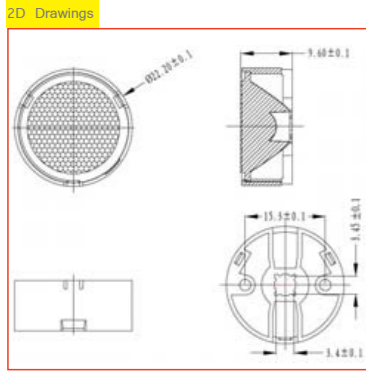


Part Number	DxH(mm)	Angle	LED	LED type
LL01CR-DFxxL-M2	13.5x7.1	25° 40° 60° 80° 100° 30°x65°	CREE PHILIPS LUMILEDS	XPE Rebel

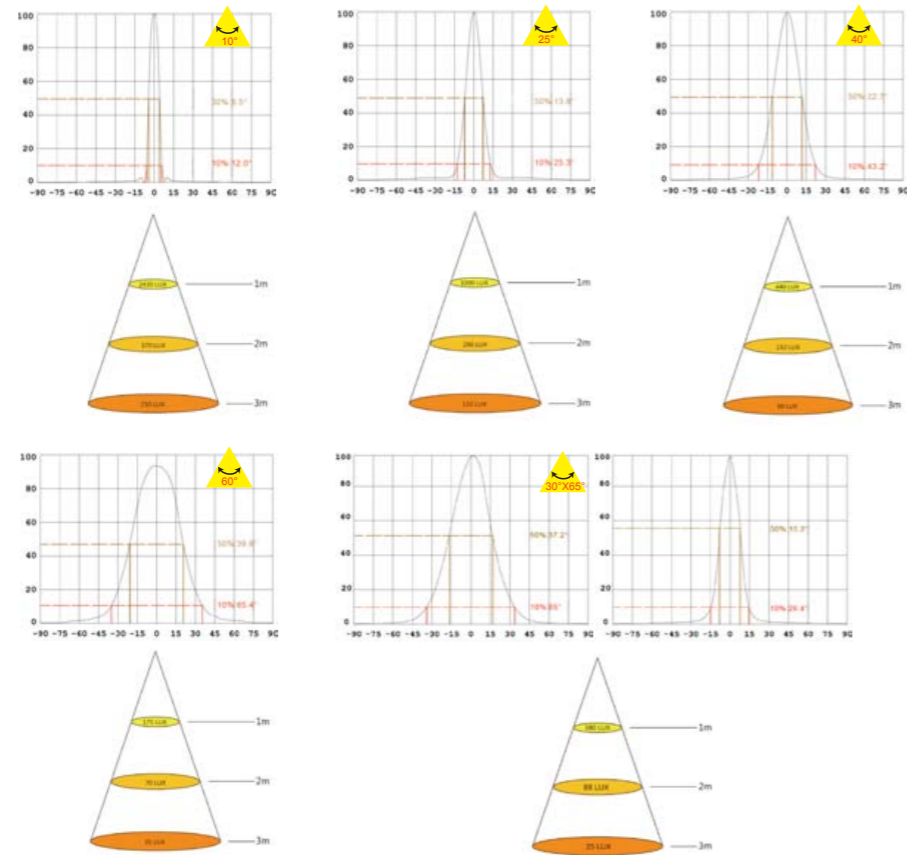


Application

Stage Lighting

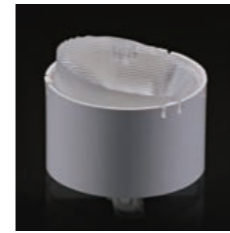


Part Number	DxH(mm)	Angle	LED	LED type
LL01ZZ-EXxxL-M2	22.4x9.6	10° 25° 40° 60° 30°x65°	CREE PHILIPS LUMILEDS	XPE Rebel

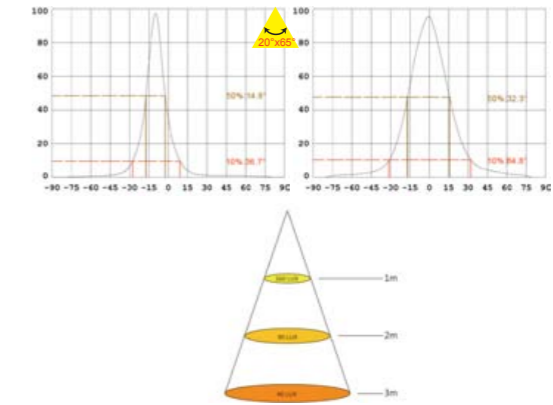
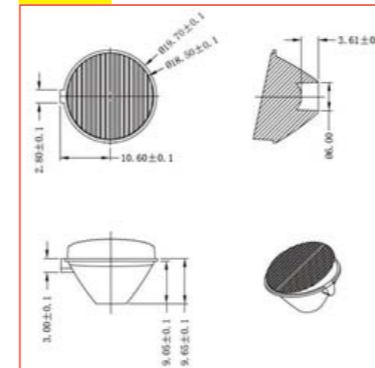


Wallwasher Lighting Lens

Part Number	DxH(mm)	Angle	LED	LED type
LL01LU-AA2065L-Mx	21x16.2	20° x 65°	DISON SEOUL	1LA5 P4



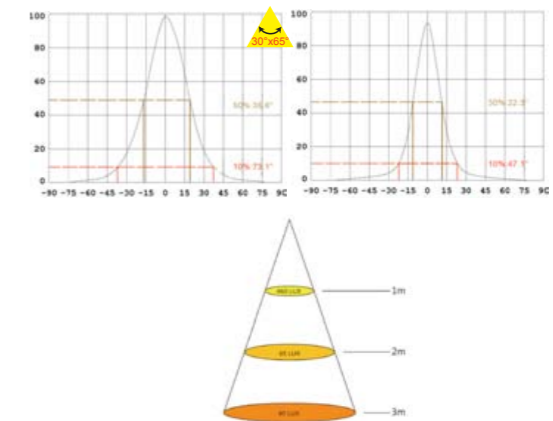
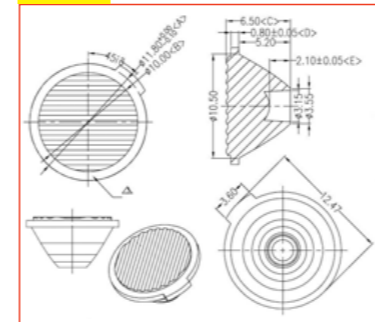
2D Drawings



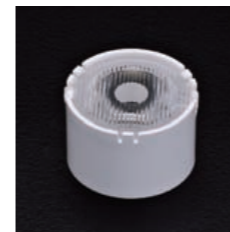
Part Number	DxH(mm)	Angle	LED	LED type
LL01CR-DF3065L-Mx	13.5x7.1	30° x 65°	CREE	XPE



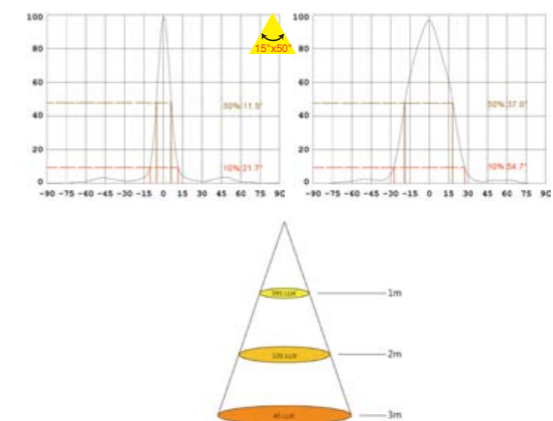
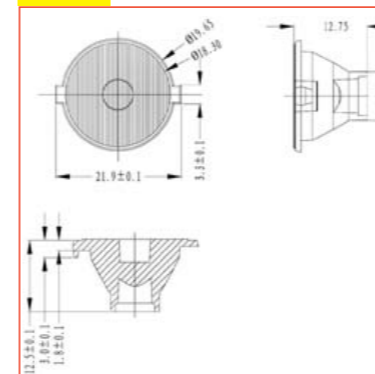
2D Drawings



Part Number	DxH(mm)	Angle	LED	LED type
LL01CR-BR1550L	19.6x12.5	15° x 50°	CREE	XRE



2D Drawings



Application

Wallwasher Lighting



Street Lighting Lens-Asymmetrical Beam Pattern

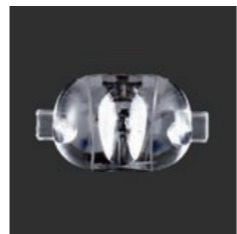
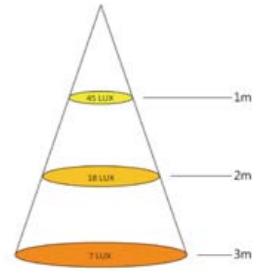
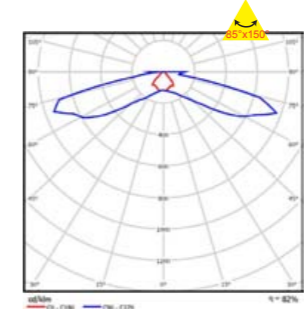
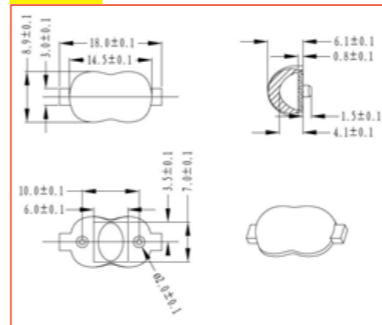
Application

Street Lighting



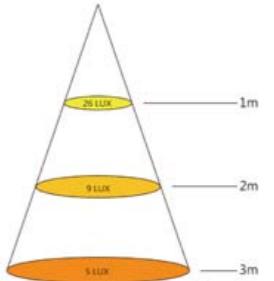
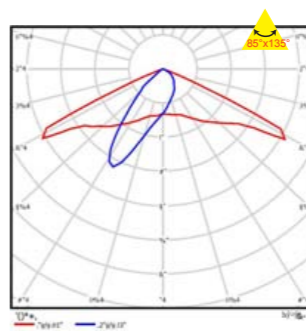
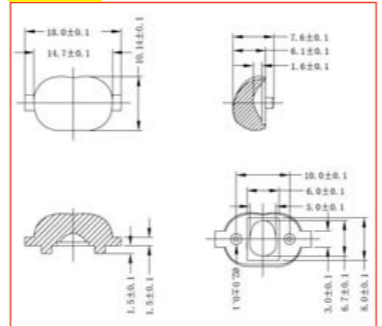
Part Number	DxWxH(mm)	Angle	LED	LED type
LL01CR-OG85150L	18x8.9x6.1	85° x 150°	CREE	XPE

2D Drawings



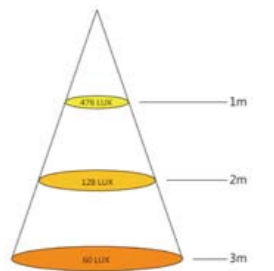
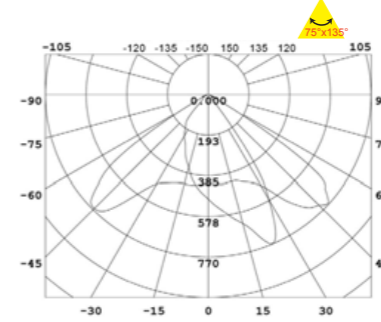
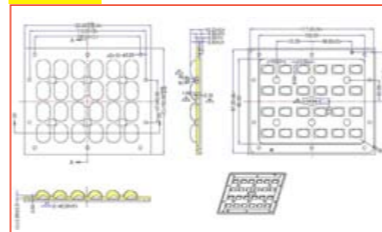
Part Number	DxWxH(mm)	Angle	LED	LED type
LL01CR-AU85135L	18x10.1x7.6	85° x 135°	CREE EDISON PHILIPS LUMILEDS OSRAM	XPE / XPG Federal Rebel Oslon

2D Drawings



Part Number	DxWxH(mm)	Angle	LED	LED type
LL24CR-AU75135L	120x100x10.2	75° x 135°	CREE LUMILEDS	XPC/XPE/XPG Rebel

2D Drawings

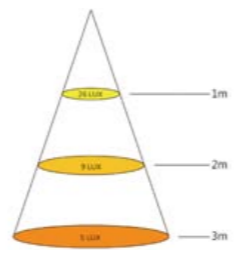
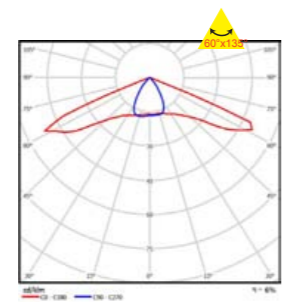
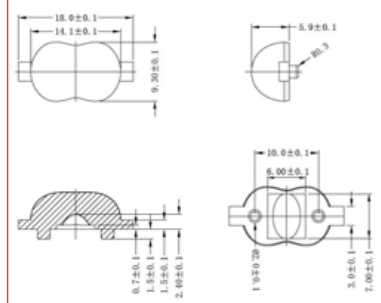


Street Lighting Lens-Symmetrical Beam Pattern



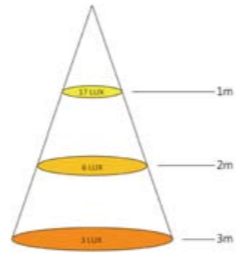
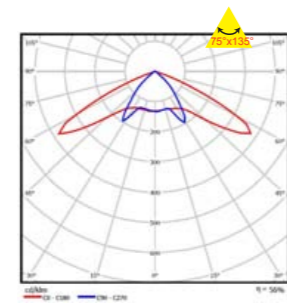
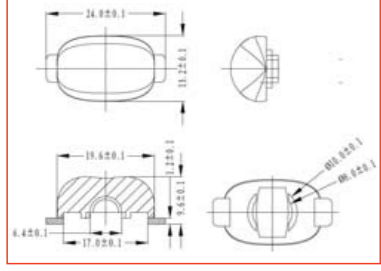
Part Number	DxWxH(mm)	Angle	LED	LED type
LL01CR-FT60135L	18x9.3x7	60° x 135°	XPE/XPG Federal Rebel Oslon	

2D Drawings



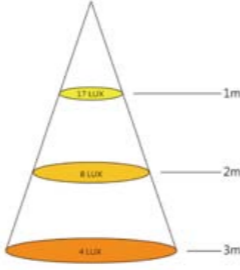
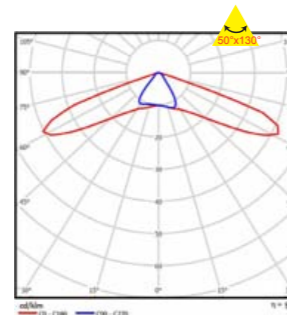
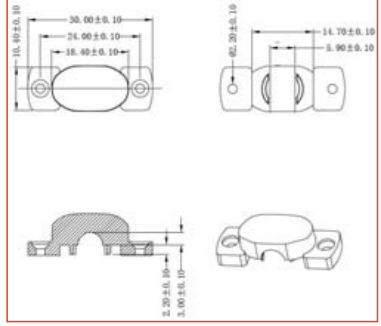
Part Number	DxWxH(mm)	Angle	LED	LED type
LL01SH-AU75135L	24x12.6x9.3	75°x135°	XRE 1LA5 P4	

2D Drawings



Part Number	DxWxH(mm)	Angle	LED	LED type
LL01ED-AU50130L	30x10.4x10.1	50°x130°	1LA5 P4	

2D Drawings



MCPCB



MCPCB Nomenclature

LM - **S** **01** **ED** - **AA** **X**

X1: Ledlink MCPCB
 X2: MCPCB shape
 X3: Led Q'ty
 X4: Led Type
 X5: Serial number
 X6: Led color

X1: Ledlink MCPCB

X2: MCPCB shape: C → Circle
 L → Linear
 Q → Square
 S → Stare

X3: Led Q'ty: 01,03,04,06,....,09,....,12,...36,60

X4: Led Type: CR → Cree
 ED → Edison
 MCE → MCE
 XP → XPE

X5: Serial Number: AA,AB,AC,.....,ZZ

X6: Led Color: X → Single color led
 RGB → R+G+B led
 M → RGB 3 in 1 led

MCPCB

Single

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-S01ED-AAx <small>LDKPED-01C3BS4-01</small>	20x1.6	Single Color	EDISON <small>SEQUIL</small>	1LA5 P4	1S



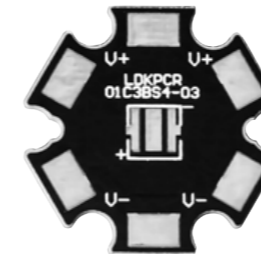
2D Drawings



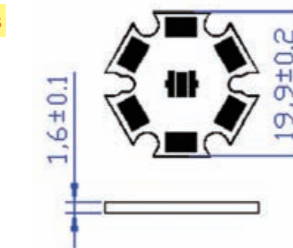
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-S01XP-AAx <small>LDKPCR-01C3BS4-03</small>	20x1.6	Single Color	CREE	XPE	1S



2D Drawings



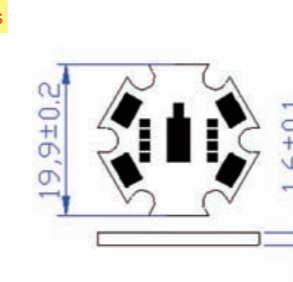
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-S01MCE-AAx <small>LDKPCR-01C3BS4-01</small>	20x1.6	Single Color	CREE	MCE	1S



2D Drawings

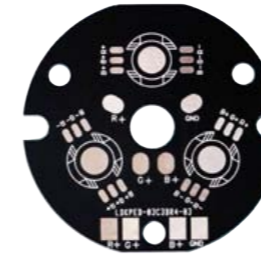


Compatible Lens

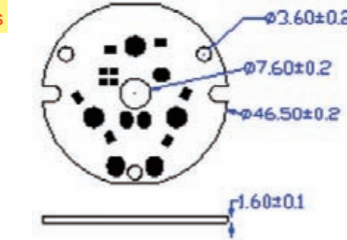


3 in 1

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C03ED-ABM <small>LDKPED-03C3BS4-01</small>	46.5x1.6	RGB Color	EDISON	1LA5	3S3P



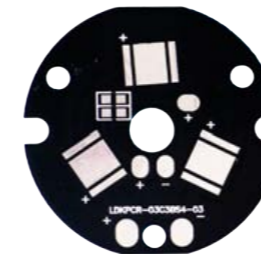
2D Drawings



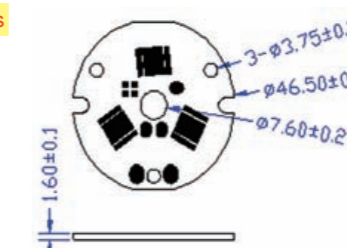
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C03CR-ABx <small>LDKPCR-03C3BS4-03</small>	46.5x1.6	Single Color	CREE	XRE	3S3P



2D Drawings

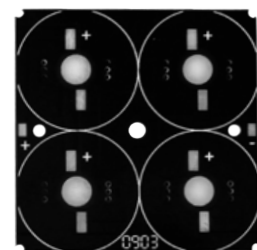


Compatible Lens

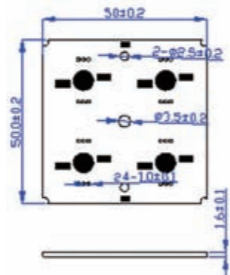


4 in 1

Part Number	DxWxH(mm)	Color	LED	LED type	Circuit
LM-Q04ED-ACx <small>LDKPED-04L3BS4-12</small>	50x50x1.6	Single Color		1LA5 P4	4S



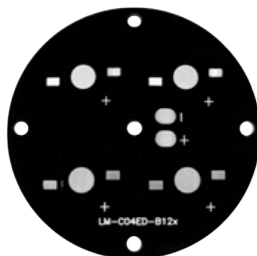
2D Drawings



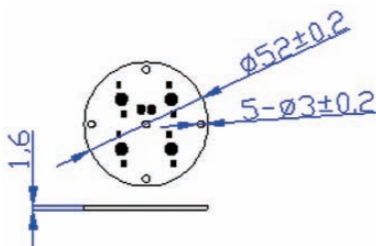
Compatible Lens For Single Lens
LL01ED-ALxxL LL01ED-FMxxL



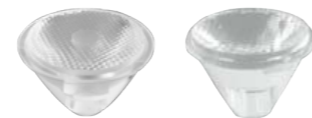
Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C04ED-ADx <small>LDKPED-04C3BS4-12</small>	52x1.6	Single Color		1LA5 P4	4S



2D Drawings



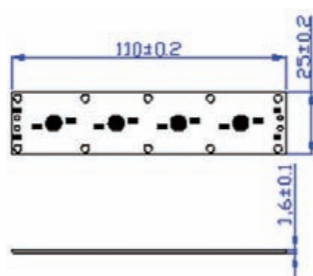
Compatible Lens For Single Lens
LL01ED-AJxxL LL01ED-AOxxL



Part Number	DxWxH(mm)	Color	LED	LED type	Circuit
LM-L04ED-AEx <small>LDKPED-04L3BS4-02</small>	110x25x1.6	Single Color		1LA5 P4	4S



2D Drawings

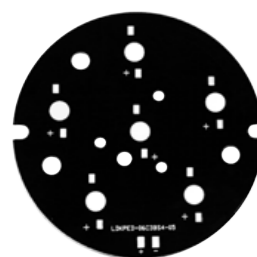


Compatible Lens For Single Lens
LL01ED-AJxxL LL01ED-AOxxL

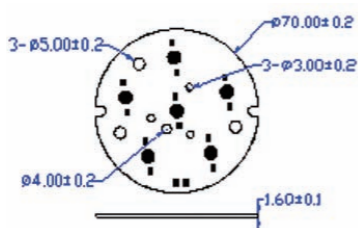


6 in 1

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C06ED-AFx <small>LDKPED-06C3BS4-05</small>	70x2.0	Single Color		1LA5 P4	5S



2D Drawings



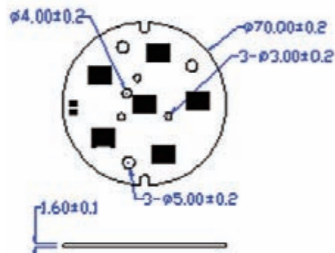
Compatible Lens
LL06ED-ADxxL LL06ED-AExxL-M2



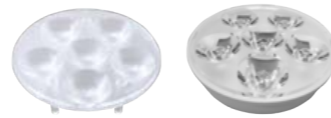
Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C06CR-AFx <small>LDKPCR-06C3BS4-06</small>	70x2.0	Single Color		XRE	5S



2D Drawings



Compatible Lens
LL06ED-ADxxL LL06ED-AExxL-M2

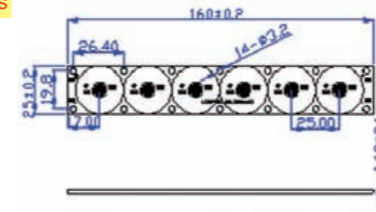


6 in 1

Part Number	DxWxH(mm)	Color	LED	LED type	Circuit
LM-L06ED-AGx <small>LDKPED-06L3BS4-03</small>	160x25x2.0	Single Color		1LA5 P4	6S



2D Drawings



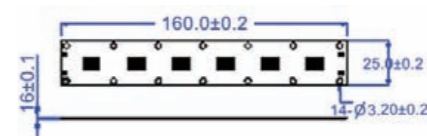
Compatible Lens For Single Lens
LL01CR-DGxxL LL01ZZ-FLxxL



Part Number	DxWxH(mm)	Color	LED	LED type	Circuit
LM-L06CR-AGx <small>LDKPCR-06L3BS4-03</small>	160x25x1.6	Single Color		XRE	6S



2D Drawings



Compatible Lens For Single Lens
LL01CR-DGxxL LL01ZZ-FLxxL

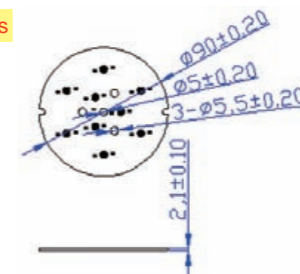


9 in 1

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C09ED-AHx <small>LDKPED-09C5BS4-03</small>	90.0x2.0	Single Color		1LA5 P4	9S



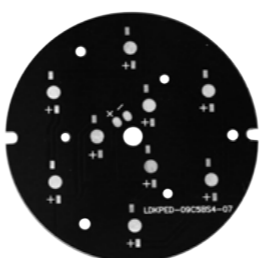
2D Drawings



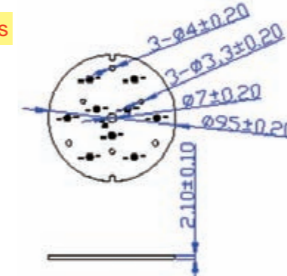
Compatible Lens
LL09ED-BZxxL-M2 LL09ED-ATxxL-M2



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C09ED-AIRGB <small>LDKPED-09C5BS4-07</small>	95.0x2.0	Single Color		1LA5 P4	3Sx3 9S



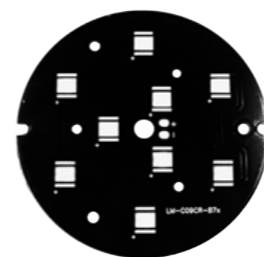
2D Drawings



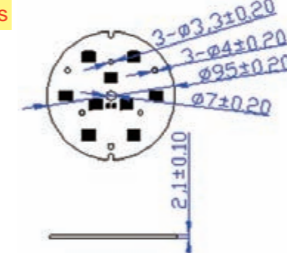
Compatible Lens
LL09ED-ACxxL



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C09CR-AIx <small>LDKPCR-09C5BS4-08</small>	95.0x2.0	RGB Color		XRE	3Sx3 9S



2D Drawings

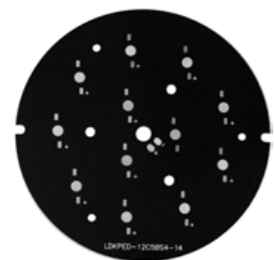


Compatible Lens
LL09ED-ACxxL

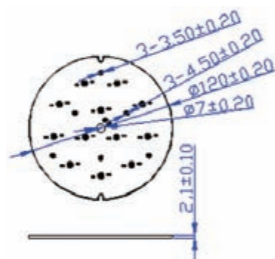


12 in 1

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C12ED-AJx <small>LDKPED-12C5BS4-14</small>	120x2.0	Single Color		1LA5 P4	12S



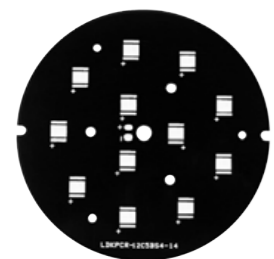
2D Drawings



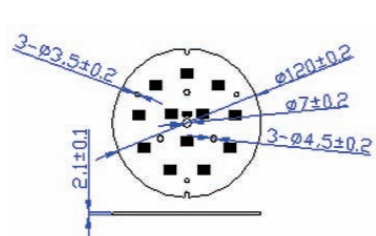
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C12CR-AJx <small>LDKPCR-12C5BS4-14</small>	120x2.0	Single Color		XRE	4Sx3 12S



2D Drawings



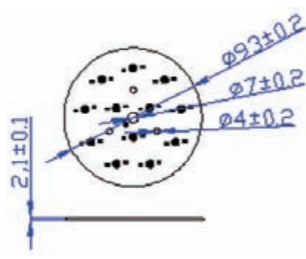
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C12ED-AKx <small>LDKPED-12C5BS4-02</small>	93.0x2.0	Single Color		1LA5 P4	12S



2D Drawings



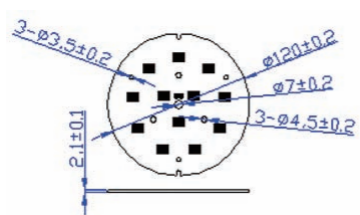
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C12CR-AKx <small>LDKPCR-12C5BS4-02</small>	93.0x2.0	Single Color		XRE	12S



2D Drawings



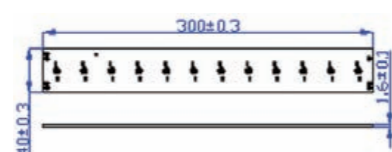
Compatible Lens



Part Number	DxWxH(mm)	Color	LED	LED type	Circuit
LM-L12ED-ALx <small>LDKPED-12L3BS4-11</small>	300x40x1.6	Single Color		1LA5 P4	6S2P



2D Drawings

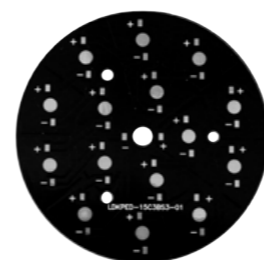


Compatible Lens For Single Lens

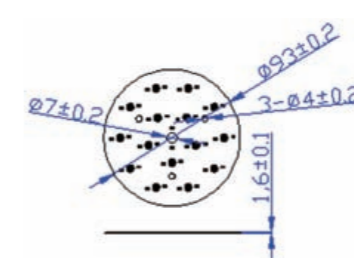


15 in 1

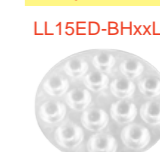
Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C15ED-AMx <small>LDKPED-15C3BS3-01</small>	93x1.6	Single Color		1LA5 P4	15S



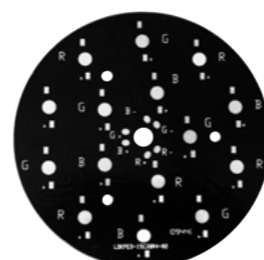
2D Drawings



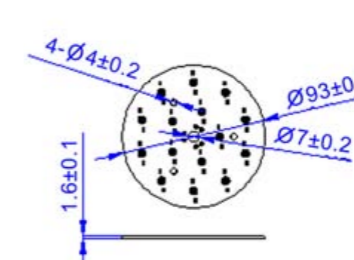
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C15ED-AMRGB <small>LDKPED-15C3BR4-02</small>	93x1.6	RGB Color		1LA5 P4	5Sx3 15S



2D Drawings

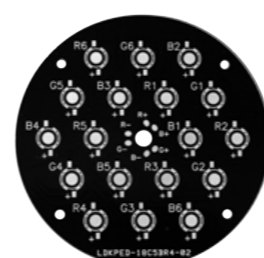


Compatible Lens

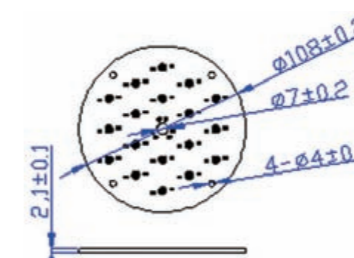


18 in 1

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C18ED-ANx <small>LDKPED-18C5BR4-02</small>	108.0x2.0	Single Color		1LA5 P4	6Sx3 18S



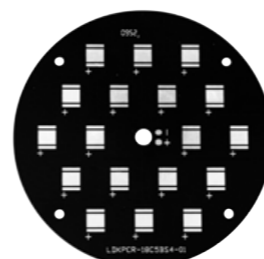
2D Drawings



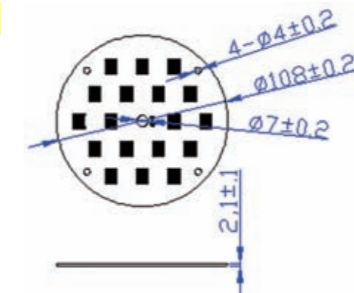
Compatible Lens



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C18CR-ANx <small>LDKPCR-18C5BS4-01</small>	108.0x2.0	RGB Color		XRE	6Sx3 18S



2D Drawings



Compatible Lens

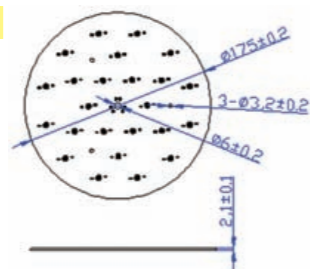


24 in 1

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C24ED-AOx <small>LDKPED-24C5BR4-01</small>	175.0x2.0	Single Color	 	1LA5 P4	8Sx3 24S



2D Drawings



Compatible Lens

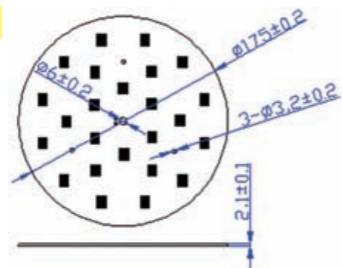
LL24ED-ABxxL



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C24CR-AOx <small>LDKPCR-24C5BS4-01</small>	175.0x2.0	Single Color	 	1LA5 P4	8Sx3 24S



2D Drawings



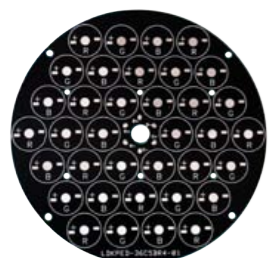
Compatible Lens

LL24ED-ABxxL

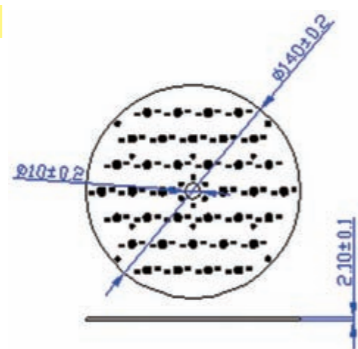


36 in 1

Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C36ED-APRGB <small>LDKPED-36C5BR4-01</small>	140x2.0	RGB Color	 	1LA5 P4	12S 3P



2D Drawings



Compatible Lens

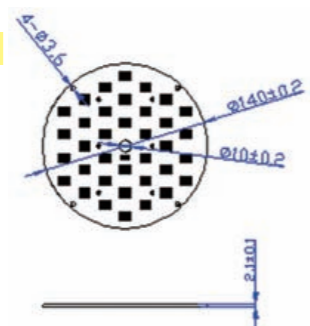
LL36ED-AAxxL



Part Number	DxH(mm)	Color	LED	LED type	Circuit
LM-C36CR-APx <small>LDKPCR-36C5BS4-01</small>	140.0x2.0	Single Color		XRE	36S



2D Drawings

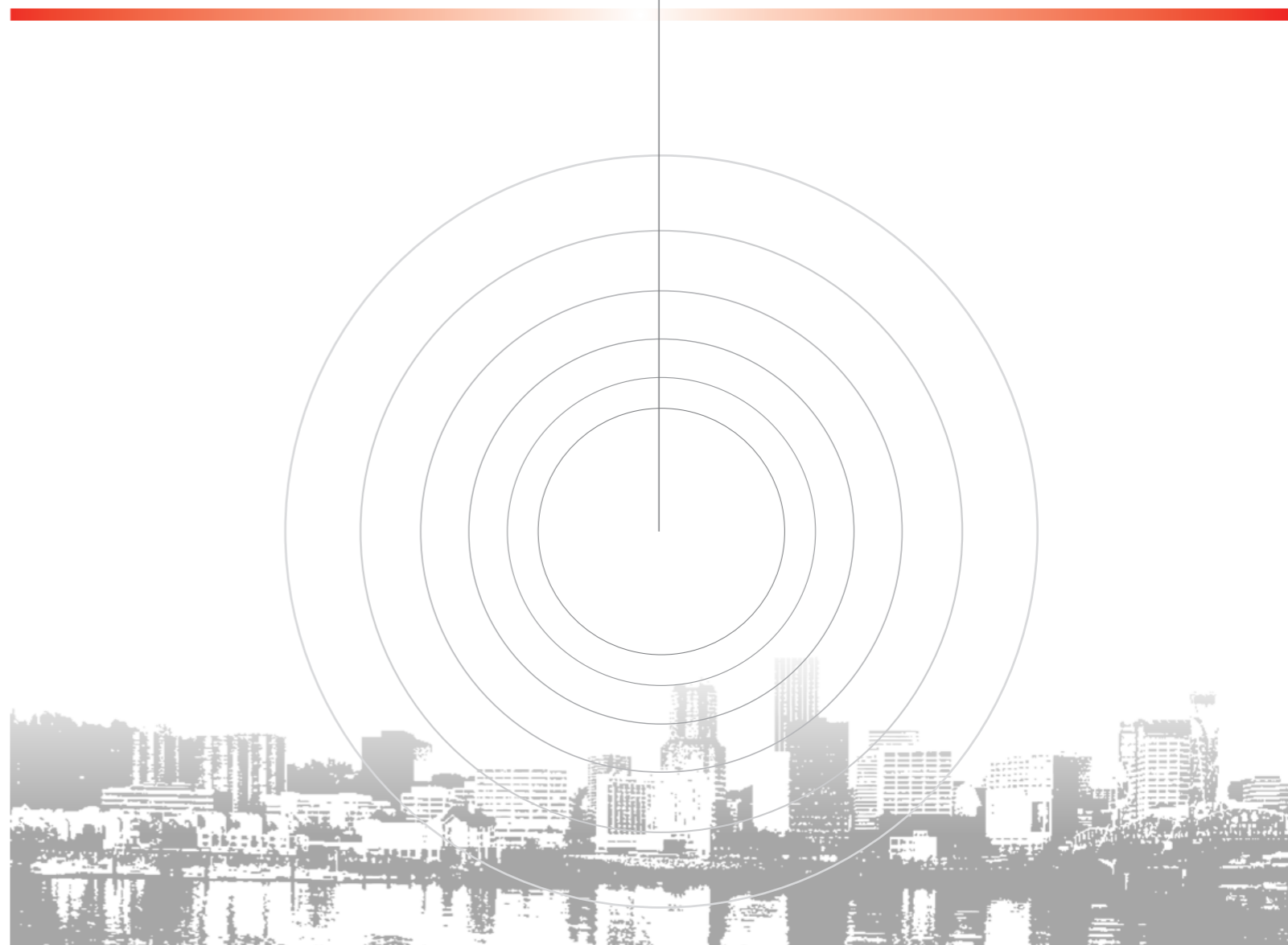
























Compatible Lens






















LL36ED-AAxxL




























Lens List by LED



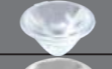



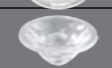
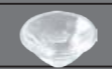

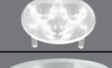
















Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DFxxL	11.8x6.5	25° 40° 60° 30°x65°	✓	
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-HQxxL	14.8x10	30° 40° 60°	✓	
	LL01CR-NExxL	19.4x14.8	25° 40° 60° 25°x45°	✓	
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	60°		
	LL01OS-AXxxL	19.7x11.5	40°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01ZZ-EXxxL	21x9.3	10° 25° 40° 60° 30°x65°	✓	
LL01ZZ-FLxxL	22x10.6	10° 25° 40° 60° 30°x65°	✓		
3 in 1	LL03ED-GKxxL	33.2x10.3	40°		
	LL03LU-DMxxL	23.1x10.9	15° 25° 40°		
	LL03LU-DOxxL	35x10.5	15° 25° 40°		
4 in 1	LL04CR-GPxxL	22.2x6.7	25°		
	LL04ED-GKxxL	37x10.3	40°		
	LL04LU-DNxxL	25.4x10.4	15° 25°		
	LL04LU-DOxxL	35x10.4	15° 25°		
	LL04ZZ-EXxxL	25.4x10.4	30°		
5 in 1	LL05CR-FRxxL	35.8x6.5	25° 40° 60°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40°		
	LL06ED-AExxL	73.2x13.5	25° 40°		




































Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
6 in 1	LL06ED-ATxxL	73.2x13.5	40°		
7 in 1	LL07CR-FRxxL	35.8x6.5	25° 40° 60°		
	LL07ED-GKxxL	47x10.7	40°		
	LL07ZZ-FUxxL	50.3x10.8	15° 25°		
	LL07ZZ-FVxxL	39.1x10.6	15° 25°		
9 in 1	LL09CR-FRxxL	45x7.0	25° 40° 60°		
	LL09ED-GKxxL	67x9.8	40°		
12 in 1	LL12CR-FRxxL	45x7.0	25° 40° 60°		
	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-GKxxL	67x10.8	40°		
18 in 1	LL18ED-BLxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		
Street Lighting	LL01CR-AU85135L	18X10.1X7.6	85°x135°(Asymmetry)		
	LL01CR-FT60135L	18x9.3x7	60°x135°(Symmetry)		
	LL01CR-KM6090L	17.6x11.6x8.6	60°x90°(Symmetry--Tunnel Lighting)		
	LL01CR-OG85150L	18x8.9x6.1	85°x150°(Asymmetry)		
	LL01OS-AU60130L	30.1x14.3x8.5	60°x130°(Symmetry)		
	LL24CR-AU75135L	120x100x10.2	75°x135°(Asymmetry)		


Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-AOxxL	19.4x13.5	60°	✓	
	LL01CR-BMxxL	35.8x16.3	15° 40°		
	LL01CR-BRxxL	19.6x12.5	30° 40° 50° 10°x45° 15°x50° 15°x80° 40°x90°	✓	
	LL01CR-BSxxL	19.8x12.5	10° 38° 60°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-FOxxL	35.8x15.8	40°		
	LL01CR-FYxxL	19.4x13.5	80°		
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AOxxL	19.4x13.5	30° 40° 60° 80° 25°x45°		
	LL01NI-GRxxL	19.4x13.5	40°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01ZZ-FLxxL	22x10.6	25°		
	3 in 1	LL03CR-CExxL	34x9.9	38°	
LL03CR-EQxxL		34.8x10.8	38°		
LL03ZZ-EUxxL		33x9.9	38°		
6 in 1	LL06CR-CKxxL	73.2x13.5	10° 25°	✓	
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
	LL06ED-DKxxL	73.3x13.7	60°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		
Street Lighting	LL01CR-AU50120L	21x11.8x9.4	50°x120°(Symmetry)		
	LL01SH-AU75135L	24x12.6x9.3	75°x135°(Symmetry)		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-SQxxL	19.4x12.9	60°		
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AQxxL	22.5x10.4	60°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CVxxL	19.6x12.3	45°		
	LL01ED-CYxxL	26.8x20.6	30° 45°		
	LL01NI-GRxxL	19.4x13.5	40° 60° 80°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01ZZ-FLxxL	22x10.6	40°		
6 in 1	LL06ED-ADxxL	73.3x13.9	40° 60°		
9 in 1	LL09ED-ATxxL	90.6x16.5	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-AOxxL	19.4x13.5	60°		
	LL01CR-BRxxL	19.6x12.5	40° 50°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AQxxL	22.5x10.4	40° 60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	38° 80°		
	LL01ED-CVxxL	19.6x12.3	45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01ZZ-EXxxL	21x9.3	25° 40°		
	LL01ZZ-FLxxL	22x10.6	25° 40° 60°		
3 in 1	LL03CR-CExxL	34x9.9	38°		
	LL03ED-AFxxL	50.5x19.6	45° 60°		
	LL03ED-AZxxL	50.5x13	60°		
	LL03ZZ-EUxxL	33x9.9	38°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
	LL06ED-DKxxL	73.3x13.7	60°		
9 in 1	LL09ED-ACxxL	95x12.8	25°		
	LL09ED-ATxxL	90.6x16.5	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		























Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-PVxxL	45X23.6	45° 60° 80°		
	LL01ED-AYxxL	43.8x24.5	10° 38°		
	LL01ED-IHxxL	87x44.25	60°		






















Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AOxxL-Mx	23.5x17.5	30° 40° 60° 70° 80° 40°x55°	✓	
	LL01ED-AJxxL	28.8x19.8	10° 25° 40° 60°	✓	
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-ALxxL-Mx	21.3x14	15° 30°x65°	✓	
	LL01ED-AMxxL-Mx	21.5x14	15°	✓	
	LL01ED-ANxxL-Mx	25x13	25°	✓	
	LL01ED-APxxL-MX	24.7x20.3	30° 40° 60° 70° 80° 40°x55°	✓	
	LL01ED-AQxxL-Mx	26.7x13.1	40° 60°	✓	
	LL01ED-ARxxL-Mx	21.3x14	30° 45° 60°	✓	
	LL01ED-ASxxL-Mx	21.9x13	15° 38° 60°	✓	
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-BJxxL	19.7x11.8	38°		
	LL01ED-BLxxL-MX	21x14	38° 30°x65°	✓	
	LL01ED-BNxxL-MX	22.6x9.87	25° 15°x50°	✓	
	LL01ED-BPxxL-MX	21.3x14	45°	✓	
	LL01ED-BSxxL-MX	21.7x12.3	38°	✓	
	LL01ED-BVxxL-Mx	21.3x14	60°	✓	
	LL01ED-CSxxL-MX	21.5x12.95	38°	✓	
	LL01ED-CTxxL	31x11.2	38° 80°		
	LL01ED-CVxxL-MX	22x15	25° 45°	✓	
	LL01ED-DPxxL	22.1x7.6	60°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	60°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01ZZ-EXxxL	21x9.3	25° 40° 60°		
LL01ZZ-FLxxL	22x10.6	25° 40°			
3 in 1	LL03CR-CExxL	34x9.9	38°		
	LL03ED-AFxxL	50.5x19.6	45° 60°		
	LL03ED-AZxxL	50.5x18.6	25° 45° 60°		
	LL03ED-BAxxL	50.5x17	25° 45° 60°		







Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
3 in 1	LL03ED-BCxxL	43.9x9.3	15° 25°		
	LL03ED-CTxxL	31x11.2	38° 80°		
	LL03ED-EKxxL	35x9	25° 40° 60°		
4 in 1	LL04ED-BDxxL	35x10.4	15° 25° 40°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°	✓	
	LL06ED-ATxxL	73.2x13.5	40°	✓	
	LL06ED-BExxL	43.9x8.5	25°		
	LL06ED-CDxxL-MX	76x17.5	60°	✓	
	LL06ED-COxxL-MX	76x16.2	140°	✓	
	LL06ED-DAxxL-MX	76x28.9	140°	✓	
	LL06ED-DKxx-MX	76x16.3	60°	✓	
9 in 1	LL09ED-ACxxL	95x12.8	25°		
	LL09ED-ATxxL-MX	93.8x20.1	40°	✓	
	LL09ED-BQxxL-MX	93.9x18.9	60°	✓	
	LL09ED-BZxxL-MX	93.9x18.9	25°	✓	
	LL09ED-COxxL-MX	90.9x20.9	140°	✓	
	LL09ED-DAxxL-MX	93.9x35.6	140°	✓	
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	25° 40°		
	LL12ED-BQxxL-MX	93.5x20.3	25°	✓	
15 in 1	LL15ED-BHxxL	95x11.1	25° 40°		
18 in 1	LL18ED-BIxxL	110x13.1	25° 40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	25° 45°		
36 in 1	LL36ED-AAxxL	140x12.7	25° 45°		
60 in 1	LL60ED-BOxxL	180x13.1	25°		
Street Lighting	LL01ED-AU50130L	30x10.4x10.1	50°x130°(Symmetry)		
	LL01ED-AU70135L	24x12.3x9.2	70°x135°(Symmetry)		
	LL01SH-AU75140L	24x11.3x10.1	75°x140°(Symmetry)		
	LL24ED-AU75135L	135x112x9.7	75°x135°(Symmetry)		
Oval Lens	LL01LU-AA2065L	19.7x13.8	20°x65°	✓	



































Type	Part Number	DxH(mm)	Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-HQxxL	14.8x10	30° 40° 60°		
	LL01CR-NExxL	19.4x14.8	40° 60°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CVxxL	19.6x12.3	25° 45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01ZZ-EXxxL	21x9.3	25° 40° 60° 30°x65°	✓	
LL01ZZ-FLxxL	22x10.6	25° 40° 60° 30°x65°	✓		
3 in 1	LL03ED-AZxxL	50.5x13	45° 60°		
	LL03ED-BAxxL	50.5x13	45° 60°		
	LL03ED-CTxxL	31x11.2	38°		
	LL03ED-GKxxL	33.2x10.3	40° 60°		
	LL03LU-DMxxL	23.1x10.9	15° 25° 40°		
	LL03LU-DOxxL	35x10.5	15° 25° 40°		
4 in 1	LL04ED-EXxxL	25.4x10.4	60°		
	LL04ED-GKxxL	37x10.3	40° 60°		
	LL04LU-DNxxL	25.4x10.4	15° 25°		
	LL04LU-DOxxL	35x10.4	15° 25°		
	LL04ZZ-EXxxL	25.4x10.4	30°		
5 in 1	LL05CR-FRxxL	35.8x6.5	25° 40° 60°		













Type	Part Number	DxH(mm)	Full Angle	Housing	Photo
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
7 in 1	LL07CR-FRxxL	35.8x6.5	25° 40° 60°		
	LL07ED-GKxxL	47x10.7	40° 60°		
	LL07ZZ-FUxxL	50.3x10.8	15° 25°		
	LL07ZZ-FVxxL	39.1x10.6	15° 25°		
9 in 1	LL09CR-FRxxL	45x7.0	25° 40° 60°		
	LL09ED-ATxxL	90.6x16.5	25° 40° 60°		
	LL09ED-GKxxL	67x9.8	40°		
12 in 1	LL12CR-FRxxL	45x7.0	25° 40° 60°		
	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	40°		
	LL12ED-GKxxL	67x10.8	25° 40° 60°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		
Street Lighting	LL01CR-AU85135L	18X10.1X7.6	85°x135°(Asymmetry)		
	LL01CR-FT60135L	18x9.3x7	60°x135°(Symmetry)		
	LL01CR-KM6090L	17.6x11.6x8.6	60°x90°(Symmetry--Tunnel Lighting)		
Oval Lens	LL01LU-AA2065L	19.7x13.8	20°x65°		





























Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-BMxxL	35.8x16.3	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-HQxxL	14.8x10	40° 60°		
	LL01CR-NExxL	19.4x14.8	40° 60° 25°x45°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-ASxxR	19.9x10.6	38°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01ED-CYxxL	26.8x20.6	30° 45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40° 60°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01ZZ-EXxxL	21x9.3	25° 40° 60° 30°x65°		
	LL01ZZ-FLxxL	22x10.6	25° 40° 60° 30°x65°		
	3 in 1	LL03CR-EKxxL	35x9.0	40°	
LL03ED-CTxxL		31x11.2	38°		
LL03ED-GKxxL		33.2x10.3	40°		
LL03LU-DMxxL		23.1x10.9	25° 40°		
4 in 1	LL04ED-GKxxL	37x10.3	40°		
	LL04LU-DNxxL	25.4x10.4	25°		
	LL04LU-DOxxL	35x10.4	25°		
	LL04LU-GPxxL	22.2x6.8	45°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		




Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
6 in 1	LL06ED-AExxL	73.2x13.5	40°		
	LL06ED-ATxxL	73.2x13.5	40°		
7 in 1	LL07ED-GKxxL	47x10.7	40°		
	LL07ZZ-FUxxL	50.3x10.8	25°		
	LL07ZZ-FVxxL	39.1x10.6	25°		
9 in 1	LL09ED-ACxxL	95x12.8	25°		
	LL09ED-ATxxL	90.6x16.5	40°		
	LL09ED-GKxxL	67x9.8	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BQxxL	91x17	25°		
	LL12ED-GKxxL	67x10.8	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	25° 45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		
Street Lighting	LL01CR-AU85135L	18X10.1X7.6	85°x135°(Asymmetry)		
	LL01CR-FT60135L	18x9.3x7	60°x135°(Symmetry)		
	LL01CR-KM6090L	17.6x11.6x8.6	60°x90°(Symmetry--Tunnel Lighting)		
	LL01CR-OG85150L	18x8.9x6.1	85°x150°(Asymmetry)		
Oval Lens	LL01CR-BR4090L	19.6x12.5	40°x90°		
	LL01ED-AL3065L	19.7x9.9	30°x65°		






















Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40° 50°		
	LL01CR-BSxxL	19.8x12.5	38°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AQxxL	22.5x10.4	40°		
	LL01ED-CTxxL	31x11.2	38° 80°		
	LL01ED-CVxxL	19.6x12.3	25° 45°		
	LL01NI-GRxxL	19.4x13.5	40° 60° 80°	✓	
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01ZZ-EXxxL	21x9.3	40°		
	LL01ZZ-FLxxL	22x10.6	25°		
	3 in 1	LL03CR-CExxL	34x9.9	38°	
LL03ED-AFxxL		50.5x19.6	45° 60°		
LL03ED-AZxxL		50.5x13	45° 60°		
LL03ED-BAxxL		50.5x13	45° 60°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
	LL06ED-DKxxL	73.3x13.7	60°		
9 in 1	LL09ED-ACxxL	95x12.8	25°		
	LL09ED-ATxxL	90.6x16.5	40°		
12 in 1	LL12ED-BGxxL	95x11.2	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		
60 in 1	LL60ED-BOxxL	180x13.1	25°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-HQxxL	14.8x10	30° 40° 60°	✓	
	LL01CR-NExxL	19.4x14.8	40° 60°	✓	
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	40°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01ED-CVxxL	19.6x12.3	45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01ZZ-EXxxL	21x9.3	40° 60°	✓	
	LL01ZZ-FLxxL	22x10.6	25° 40° 60°	✓	
3 in 1	LL03ED-AZxxL	50.5x13	45°		
	LL03ED-BAxxL	50.5x13	45°		
	LL03ED-GKxxL	33.2x10.3	40°		
	LL03LU-DMxxL	23.1x10.9	15° 25° 40°		
	LL03LU-DOxxL	35x10.5	15° 25° 40°		
4 in 1	LL04ED-GKxxL	37x10.3	40°		
	LL04LU-DNxxL	25.4x10.4	15° 25°		
	LL04LU-DOxxL	35x10.4	15° 25°		
6 in 1	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
7 in 1	LL07ED-GKxxL	47x10.7	40°		
	LL07ZZ-FUxxL	50.3x10.8	15° 25°		
	LL07ZZ-FVxxL	39.1x10.6	15° 25°		
9 in 1	LL09ED-ATxxL	90.6x16.5	40°		
	LL09ED-GKxxL	67x9.8	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-GKxxL	67x10.8	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01ED-CVxxL	19.6x12.3	45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40°		
	LL01OS-AXxxL	19.7x11.5	20° 40° 60°	✓	
	LL01OS-BWxxL	37.2x15.4	10° 30° 76°		
	LL01OS-BYxxL	37.2x15.4	10° 30° 56° 76°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01OS-DCxxL	37.2x10	56°		
	LL01ZZ-EXxxL	21x9.3	40°		
	LL01ZZ-FLxxL	22x10.6	40°		
3 in 1	LL03CR-CExxL	34x9.9	38°		
	LL03ED-CTxxL	31x11.2	38°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
	LL06ED-DKxxL	73.3x13.7	60°		
9 in 1	LL09ED-ATxxL	90.6x16.5	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
Street Lighting	LL01OS-AU60130L	30.1x14.3x8.5	60°x130°(Symmetry)		
	LL01OS-EL85135L	20.3x12.9x8	85°x135°(Asymmetry)		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	40°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01ED-CVxxL	19.6x12.3	45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40°		
	LL01OS-AXxxL	19.7x11.5	40° 60°	✓	
	LL01OS-BWxxL	37.2x15.4	30° 76°		
	LL01OS-BYxxL	37.2x15.4	30° 56° 76°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01OS-DCxxL	37.2x10	56°		
	LL01ZZ-EXxxL	21x9.3	40°		
LL01ZZ-FLxxL	22x10.6	25° 40°			
3 in 1	LL03CR-CExxL	34x9.9	38°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
	LL06ED-DKxxL	73.3x13.7	60°		
12 in 1	LL12ED-BGxxL	95x11.2	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-AOxxL	19.4x13.5	60°	✓	
	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°	✓	
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AQxxL	22.5x10.4	40° 60°	✓	
	LL01ED-BBxxL	35.8x15.9	40°		
	LL01ED-CTxxL	31x11.2	38° 80°		
	LL01ED-CVxxL	19.6x12.3	25° 45°	✓	
	LL01ED-FMxxL	19.9x10.6	38°	✓	
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01SE-BSxxL	19.9x10.8	38°		
	LL01ZZ-EXxxL	21x9.3	40° 60°		
	LL01ZZ-FLxxL	22x10.6	25°		
	3 in 1	LL03CR-CExxL	34x9.9	38°	
LL03ED-AFxxL		50.5x19.6	45° 60°		
LL03ED-AZxxL		50.5x13	45° 60°		
LL03ED-BAxxL		50.5x13	45° 60°		
LL03ED-CExxL		34x9.9	38°		
LL03ED-CTxxL		31x11.2	38° 80°		
4 in 1	LL04ED-BDxxL	43.9x9.7	40°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
	LL06ED-BExxL	43.9x8.5	25°		

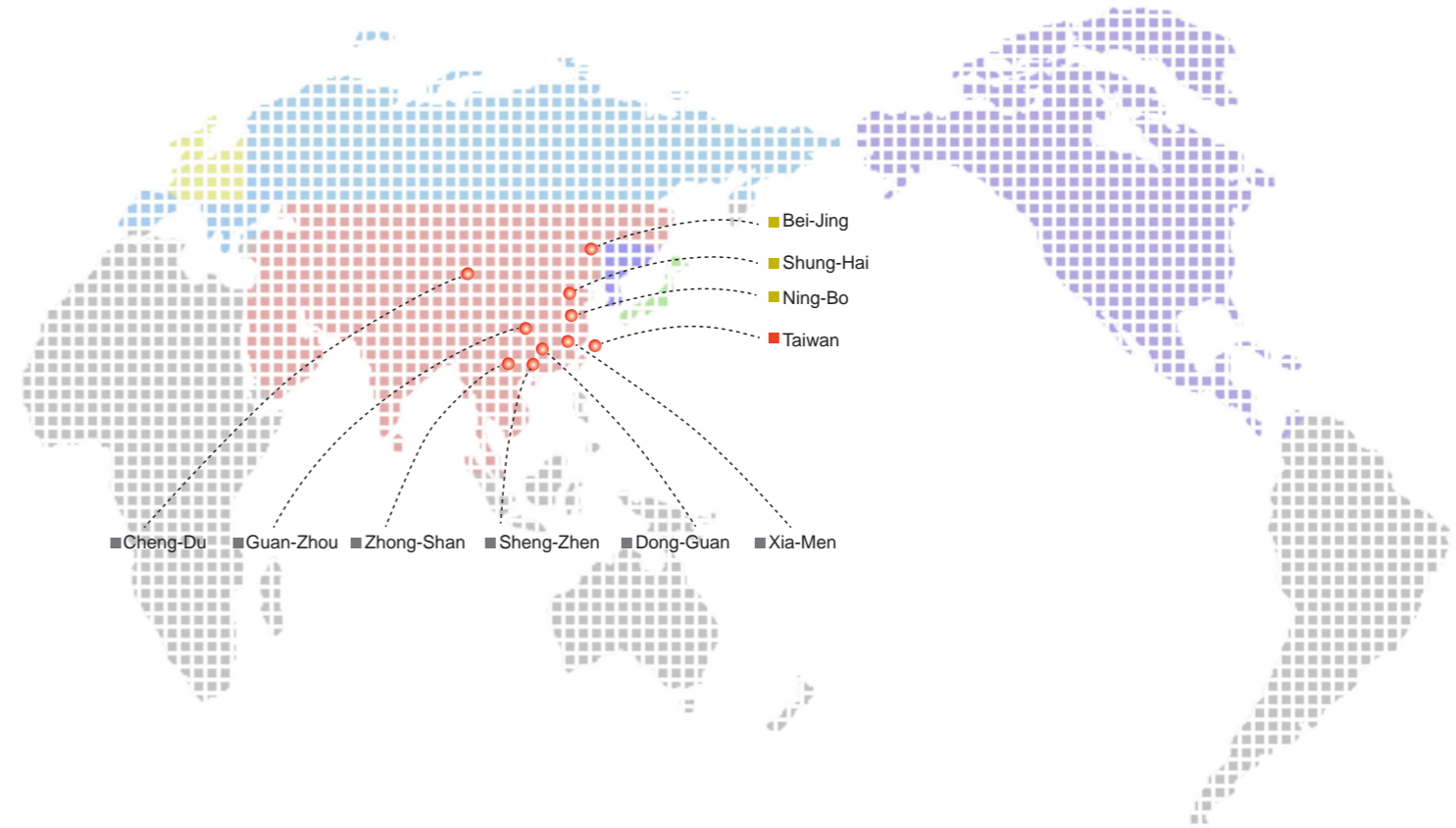
Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
6 in 1	LL06ED-DKxxL	73.3x13.7	60°		
7 in 1	LL07ED-BFxxL	43.9x8.6	25°		
9 in 1	LL09ED-ACxxL	95x12.8	25°		
	LL09ED-ATxxL	90.6x16.5	40°		
	LL09ED-BZxxL	90.6x16.5	25°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	25° 40°		
	LL12ED-BQxxL	91x17	25°		
15 in 1	LL15ED-BHxxL	95x11.1	25° 40°		
18 in 1	LL18ED-BIxxL	110x13.1	25° 40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	25° 45°		
36 in 1	LL36ED-AAxxL	140x12.7	25° 45°		
60 in 1	LL60ED-BOxxL	180x13.1	25°		
Street Lighting	LL01ED-AU50130L	30x10.4x10.1	50°x130°(Symmetry)		
	LL01ED-AU70135L	24x12.3x9.2	70°x135°(Symmetry)		
	LL01SH-AU75135L	24x12.6x9.3	75°x135°(Symmetry)		
Oval	LL01ED-AL3065L	19.7x9.9	30°x65°		
	LL01LU-AA2065L	19.7x13.8	20°x65°	✓	
	LL01NI-DZ2040L	22x13.9	20°x40°		

Type	Part Number	DxH(mm)	Full Angle	Housing	Photo
Single	LL01CR-BRxxL	19.6x12.5	40° 50° 40°x90°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AQxxL	22.5x10.4	40° 60°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	38° 80°		
	LL01ED-CVxxL	19.6x12.3	45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01OS-CBxxL	25.6x10	15°		
	3 in 1	LL03CR-EKxxL	35x9.0	40° 60°	
LL03ED-CTxxL		31x11.2	38° 80°		
4 in 1	LL04ED-BDxxL	43.9x9.7	40°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-AExxL	73.2x13.5	40°		
	LL06ED-ATxxL	73.2x13.5	40°		
9 in 1	LL09ED-ACxxL	95x12.8	25°		
	LL09ED-ATxxL	90.6x16.5	40°		
	LL09ED-BZxxL	90.6x16.5	25°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
18 in 1	LL18ED-BIxxL	110x13.1	25° 40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	25° 45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		
60 in 1	LL60ED-BOxxL	180x13.1	25°		
	LL01LU-AA2065L	19.7x13.8	20°x65°		
Oval	LL01NI-DZ2040L	22x13.9	20°x40°		

Type	Part Number	DxH(mm)	Full Angle	Housing	Photo
Single	LL01CR-DGxxL	28.8x16.5	40° 60°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01ZZ-EXxxL	21x9.3	40°		
	LL01ZZ-FLxxL	22x10.6	25°		
	3 in 1	LL03CR-CExxL	34x9.9	38°	
LL03ED-AFxxL		50.5x19.6	30° 45°		
LL03ED-CTxxL		31x11.2	38°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	25° 40°		
	LL06ED-AExxL	73.2x13.5	25° 40°		
	LL06ED-ATxxL	73.2x13.5	40°		
12 in 1	LL06ED-DKxxL	73.3x13.7	60°		
	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		

Type	Part Number	DxH(mm)	Full Angle	Housing	Photo
Single	LL01CR-AOxxL	19.4x13.5	60°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-FOxxL	35.8x15.8	40°		
	LL01CR-FYxxL	19.4x13.5	80°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AOxxL	19.4x13.5	60°		
	LL01ED-AQxxL	22.5x10.4	60°		
	LL01ED-BBxxL	35.8x15.9	40°		
	LL01ED-BVxxL	19x10.5	60°		
	LL01ED-CTxxL	31x11.2	38° 80°		
	LL01ED-CVxxL	19.6x12.3	45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01OS-AXxxL	19.7x11.5	20° 40° 60°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01OS-CBxxL	25.6x10	15°		
LL01ZZ-EXxxL	21x9.3	25° 40°			
LL01ZZ-FLxxL	22x10.6	25° 40°			
3 in 1	LL03CR-CExxL	34x9.9	38°		
	LL03ED-AZxxL	50.5x13	45° 60°		
	LL03ED-BAxxL	50.5x13	45° 60°		
	LL03ZZ-EUxxL	33x9.9	38°		
4 in 1	LL04ED-BDxxL	43.9x9.7	40°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	60°		
	LL06ED-DKxxL	73.3x13.7	60°		
9 in 1	LL09ED-BZxxL	90.6x16.5	25°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		

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2011.01 Ver 1.0

