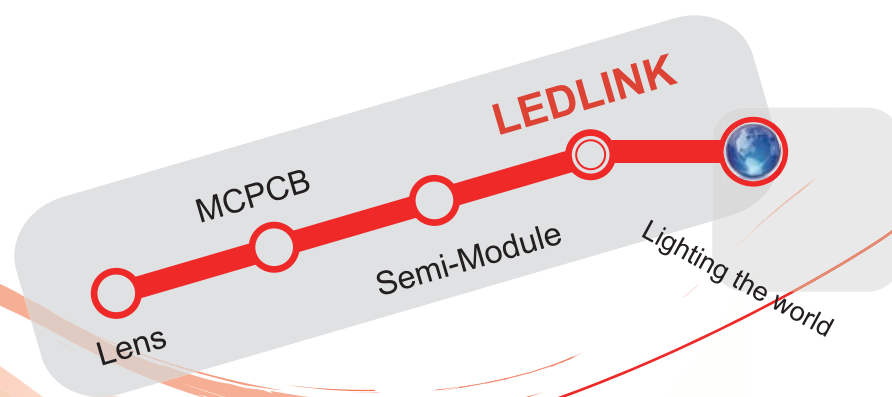
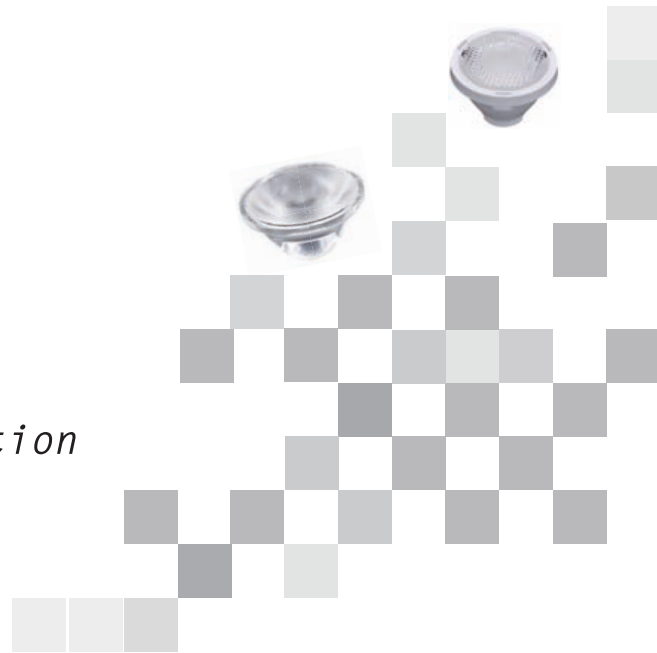


*Secondary Optical Lens
Efficiency & Beam pattern optimization*





www.ledlink-optics.com

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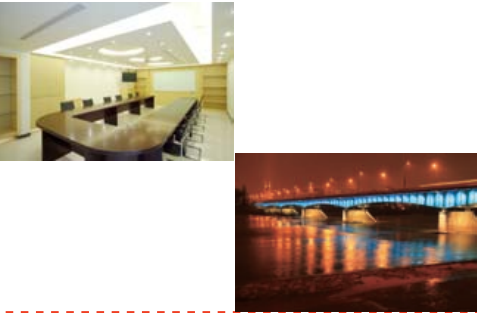
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Lens List By LED

CREE	CITIZEN	EDISON	PHILIPS LUMILEDS	NICHIA	OSRAM	SEOUL	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	
XPG..... 37				183(3 Chip). 57	Oslon..... 63	Z1..... 68	
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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

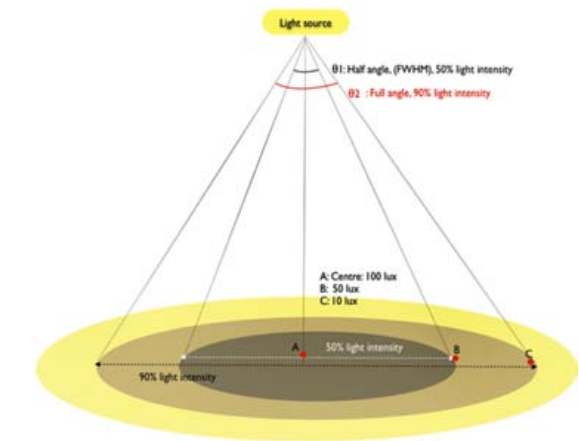
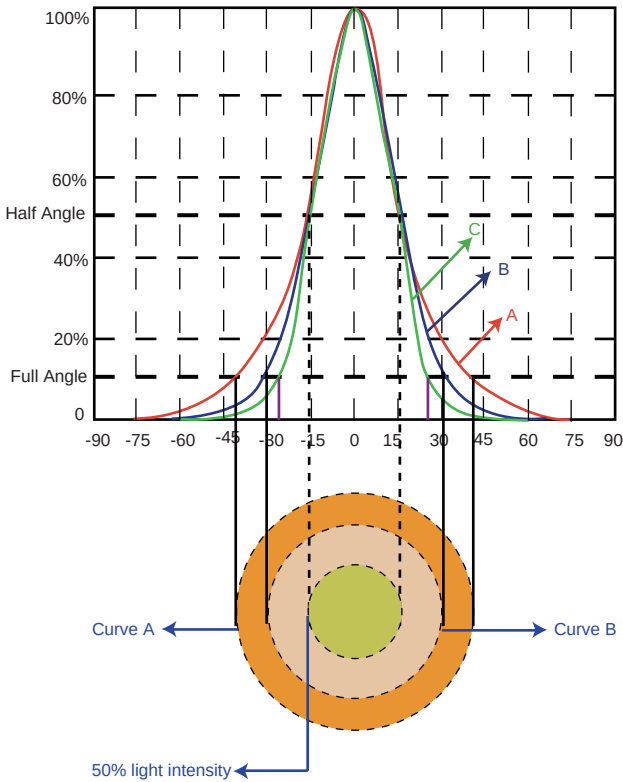
- UL certification approved
- 2010/11 Yang-Zhou factory established
- 2010/11 Ledlink relocation to Bannan Road Chung-Ho City Taipei
- Employees:700
- Monthly capacity: 12 KK/pcs



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

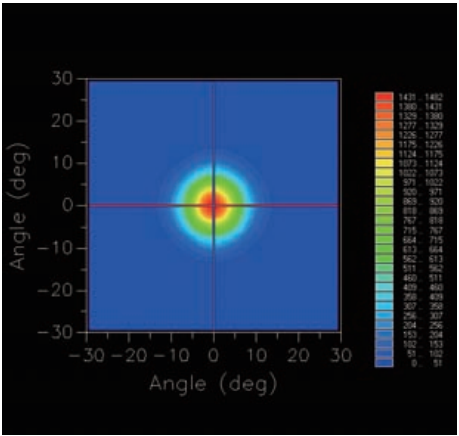
- 2008 - 2008/04 Ledlink established in Taipei
- 2008/10 Dong-Guan factory established
- Employees:200
- Monthly capacity: 6 KK/pcs

Definition of Beam Angle

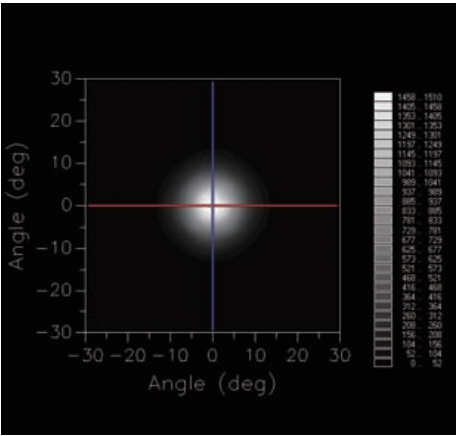


- Half angle: 50% light intensity, (FWHM)
- Full angle: 90% light intensity
- For Curve A, B, and C → half angle 30°
- Full angle
 - Curve A = 80°
 - Curve B = 60°
 - Curve C = 50°
- Full angle definition is more accurate as it allows the luminaries designer to arrange/ develop their LED lamp.

Machine measurement / Human eyes

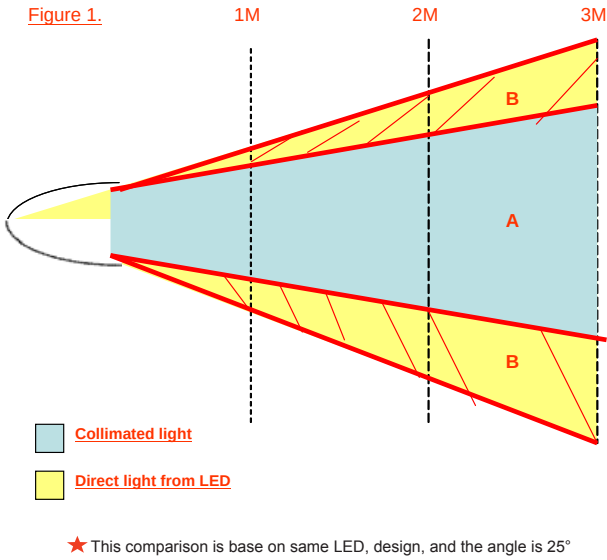


A) Machine measured beam pattern (light intensity)



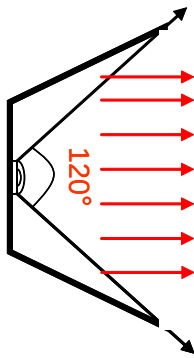
B) Beam pattern in human eyes

Reflector or Secondary Optics ?

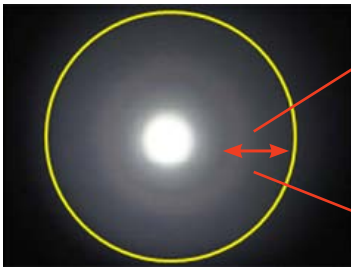


- Reflector:
 - Can't shift the light direction as there is no reflective surface. Take figure1 for example, the angle is 25° (area A) but the total beam cover area is about 40°.
 - The light in area B sometimes is useless (depends on application) and this does not make the best use of the light/ flux 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.

Reflector



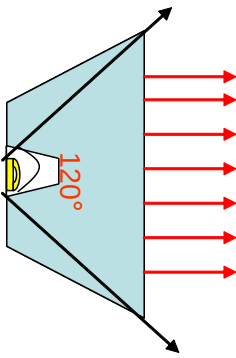
- Beam angle: Limited by the available height of the lamp



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.

Product Nomenclature

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

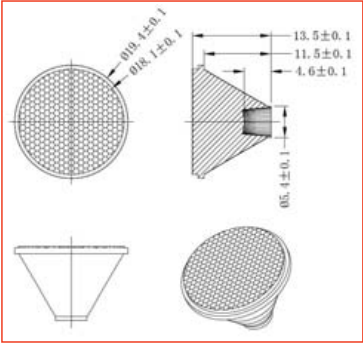
Indoor Lighting



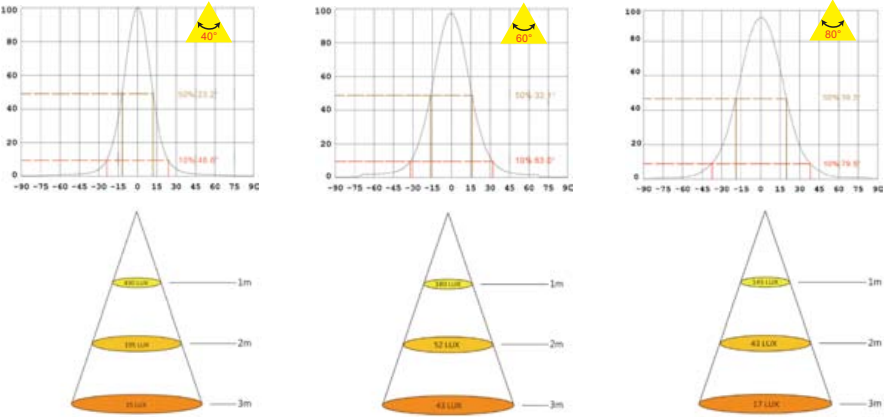
Indoor Lighting Lens



2D Drawings



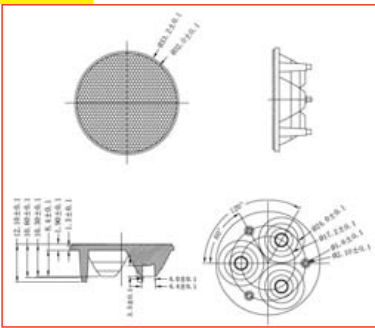
Part Number	DxH(mm)	Angle	LED	LED type
LL01NI-GRxxL	19.4x13.5	40° 60° 80°	NICHIA	083B



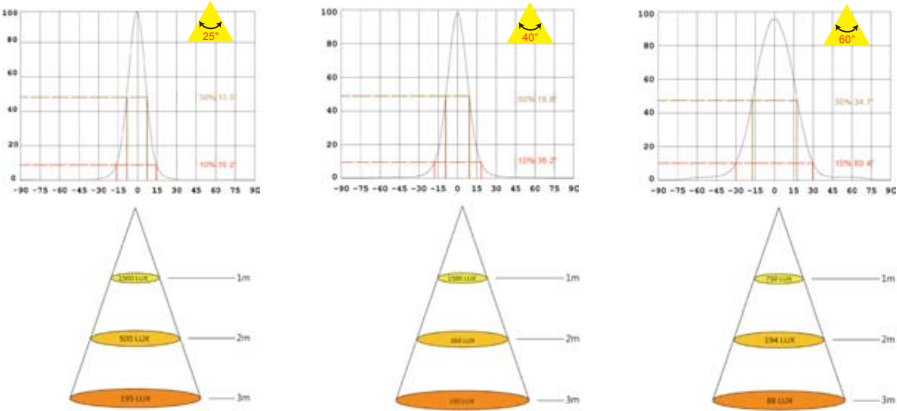
Indoor Lighting Lens



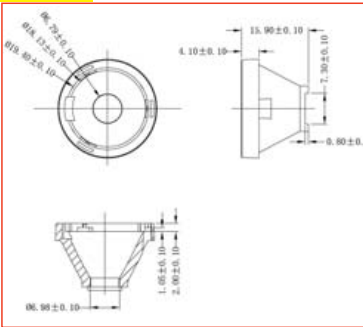
2D Drawings



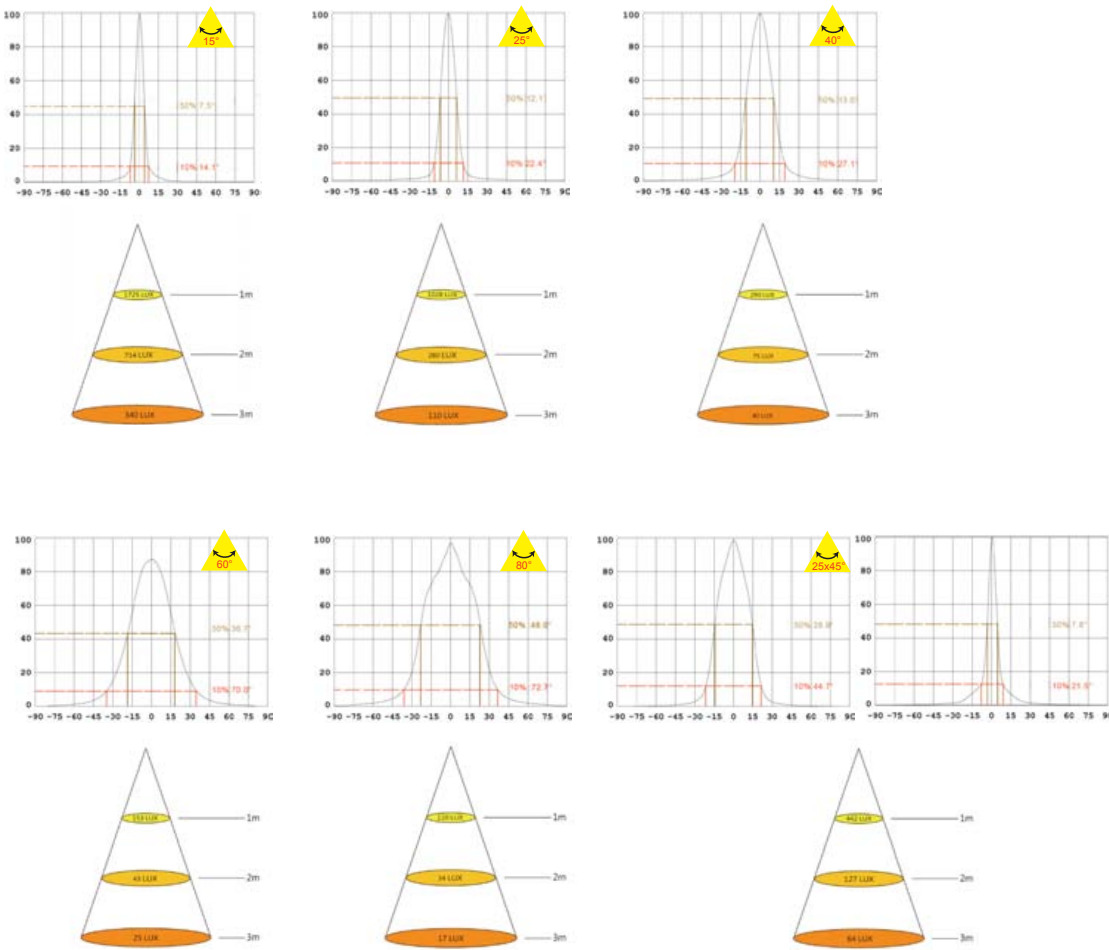
Part Number	DxH(mm)	Angle	LED	LED type
LL03ED-GKxxL (4/7/9/12 in 1 available)	33.2x10.3	25° 40° 60°	CREE	XPC/XPE/ XPG
			DISON	Federal
			PHILIPS LUMILEDS	Rebel
			NICHIA	119
			OSRAM	Oslo
			SEOL	Z5



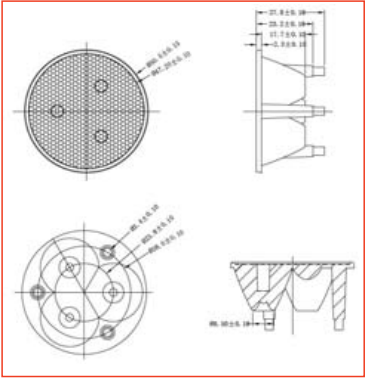
2D Drawings



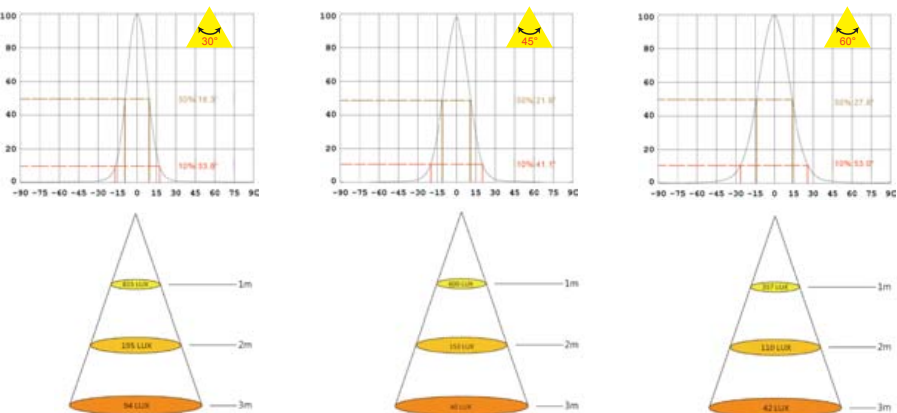
Part Number	DxH(mm)	Angle	LED	LED type
LL01CR-AOxxL-M2	23.5x15.9	15° 25° 40° 60° 80° 25°x45°	CREE	XRE



2D Drawings



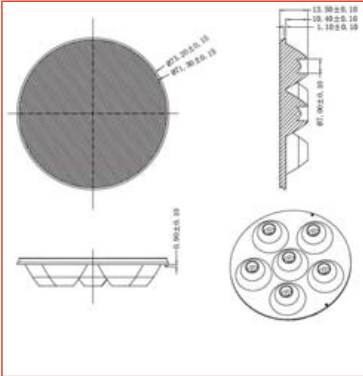
Part Number	DxH(mm)	Angle	LED	LED type
LL03ED-AFxxL	50.5x19.6	30° 45° 60°	CREE	CLN6A/MX3
			DISON	1LA5
			NICHIA	183/083B
			OSRAM	DD
			SEOL	P4/Z1



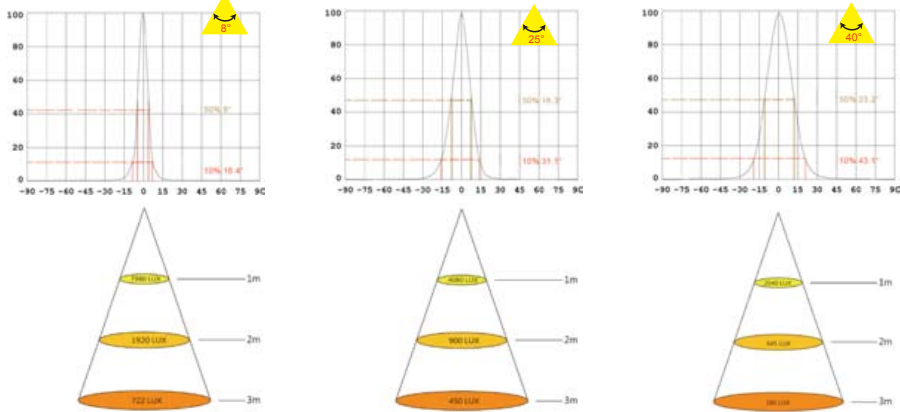
Indoor Lighting Lens



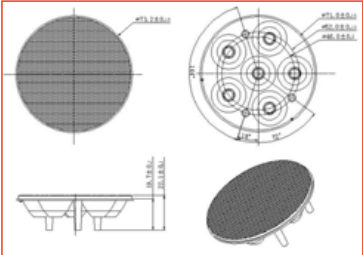
2D Drawings



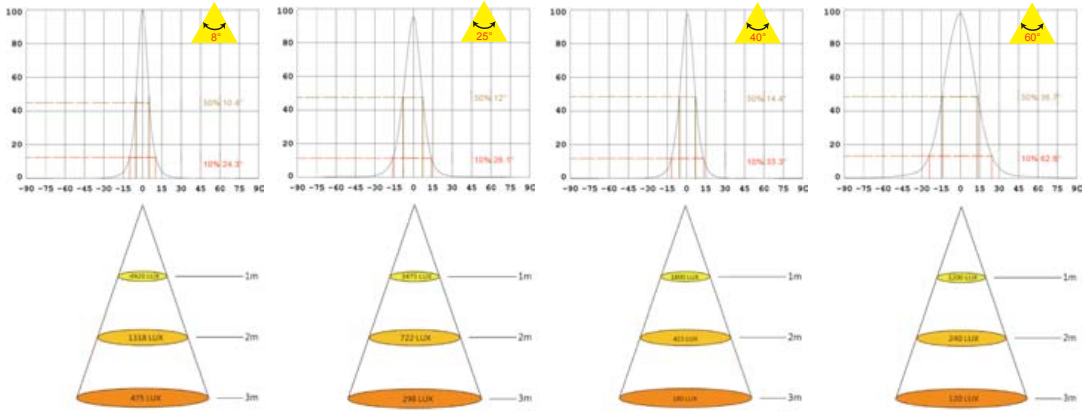
Part Number	 DxH(mm)	 Angle	LED	LED type
LL06ED-AExxL	73.2x13.5	8° 25° 40°	 CREE	XPE/XPG/ XRE/MX6/MX3
			 DISON	1LA5/Federal
			 PHILIPS LUMILEDS	Rebel
			 NICHIA	083B/183/119
			 OSRAM	GD/GDP/Oslon
			 SECOUL	P4/Z1/Z5



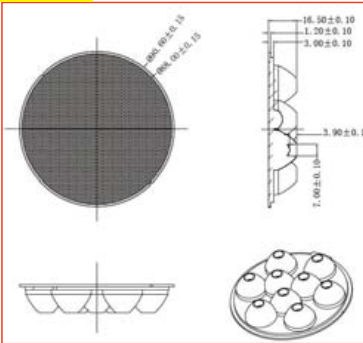
2D Drawings



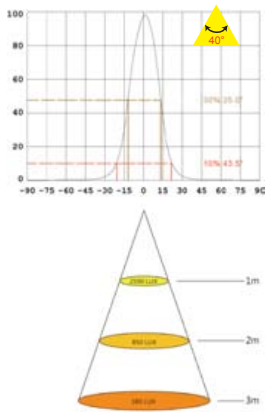
Part Number	 DxH(mm)	 Angle	LED	LED type
LL06ED-ADxxL	73.3x13.9	8° 25° 40° 60°	 CREE	XPE/XPG/ XRE/MX6/MX3
			 DISON	1LA5/Federal
			 PHILIPS LUMILEDS	Rebel
			 NICHIA	083B/183/119
			 OSRAM	GD/GDP/Oslon
			 SECOUL	P4/Z1/Z5



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
			 SECOUL	A4/P4/Z5



Application

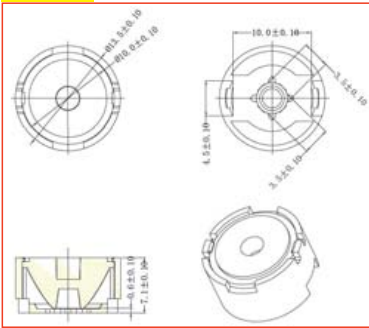
High Bay Lighting



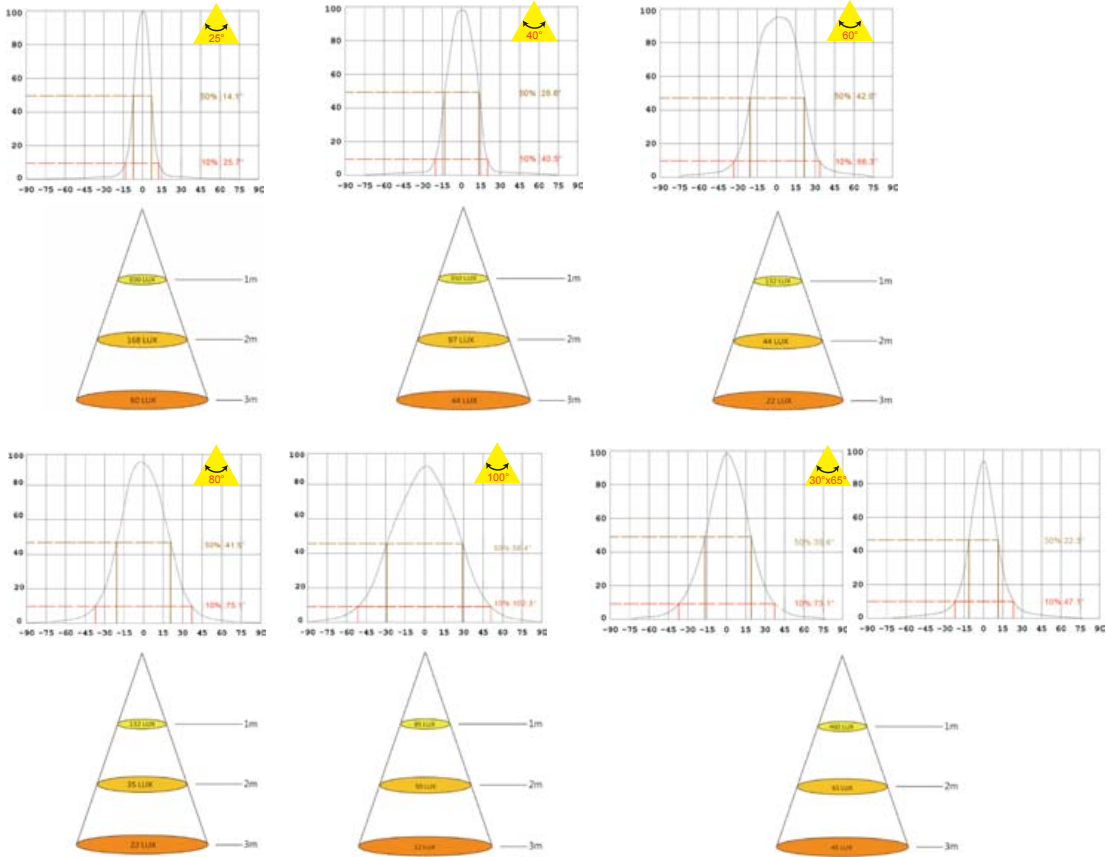
High Bay Lighting Lens



2D Drawings



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

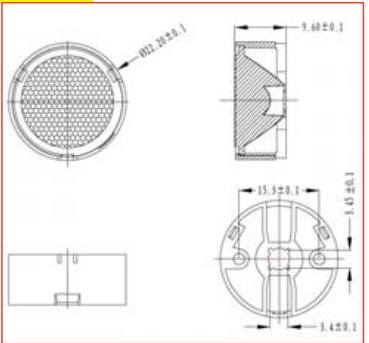


Application

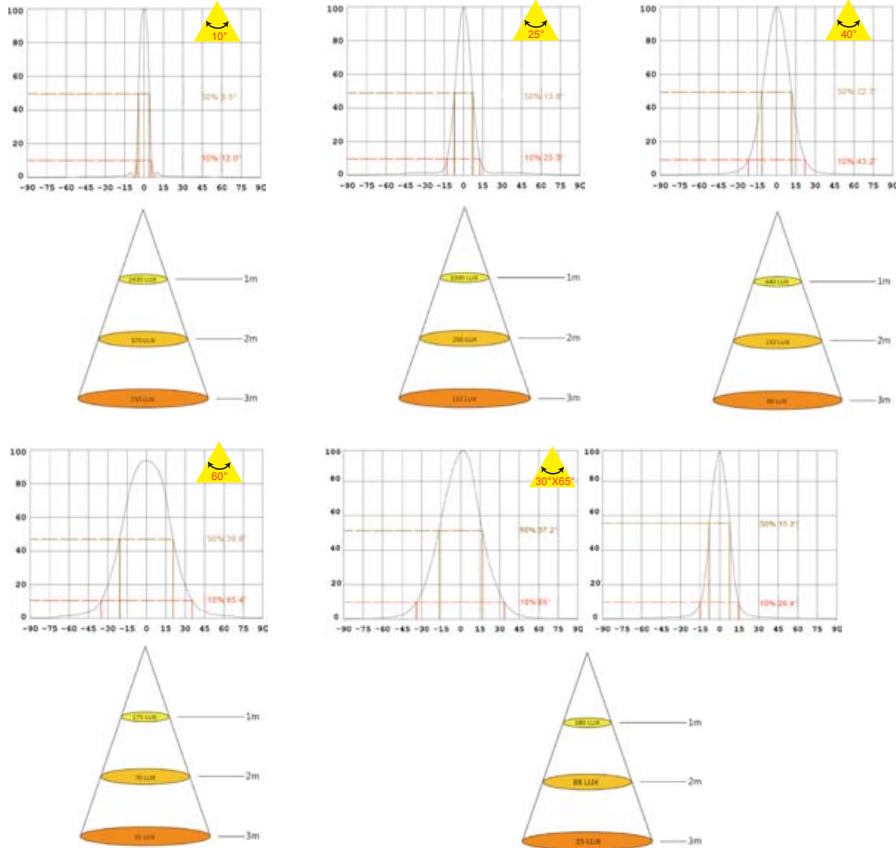
Stage Lighting



2D Drawings



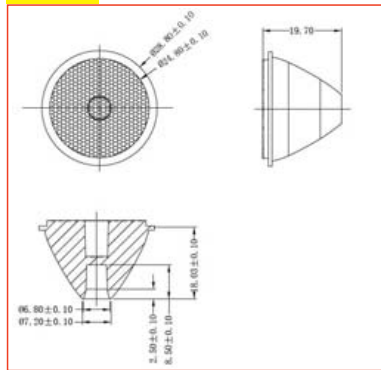
Part Number	 DxH(mm)	 Angle	LED	LED type
LL01ZZ-EXxxL-M2	22.4x9.6	10° 25° 40° 60° 30°x65°	 	XPE Rebel



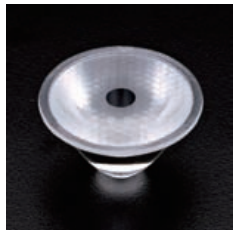
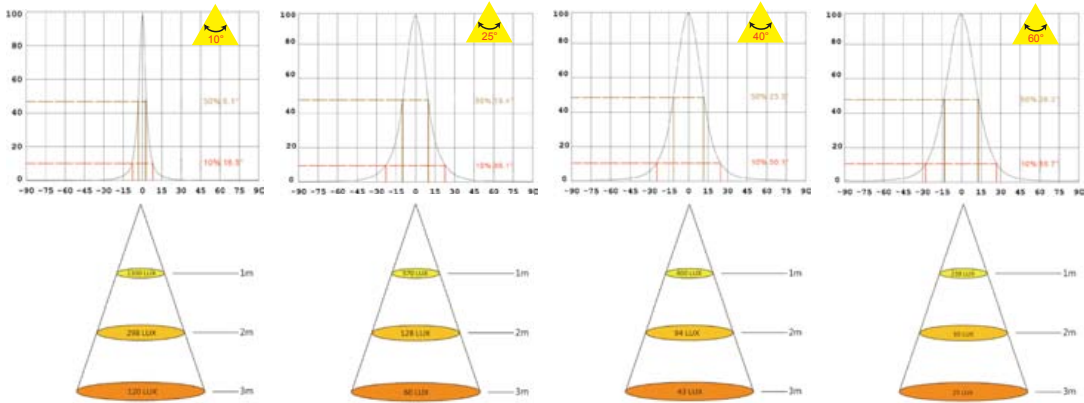
Stage Lighting Lens



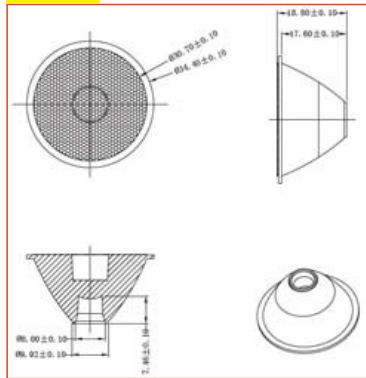
2D Drawings



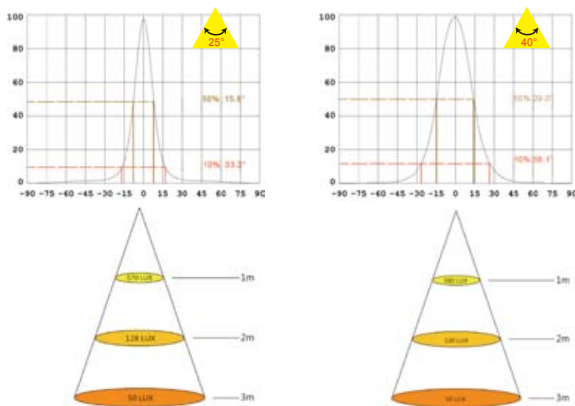
Part Number	DxH(mm)	Angle	LED	LED type
LL01ED-AJxxL	31x22.3	10° 25° 40° 60°	CREE	XPC/XPE/XPG/XRE/MX6/MX3
			DISON	1LA5/Federal
			PHILIPS LUMILEDS	Rebel
			NICHIA	083B/183/119
			OSRAM	GD/GDP/Oslon
			SEOUL	P4/Z1/Z5



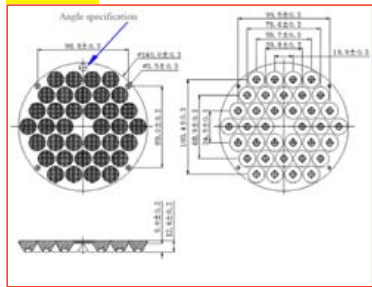
2D Drawings



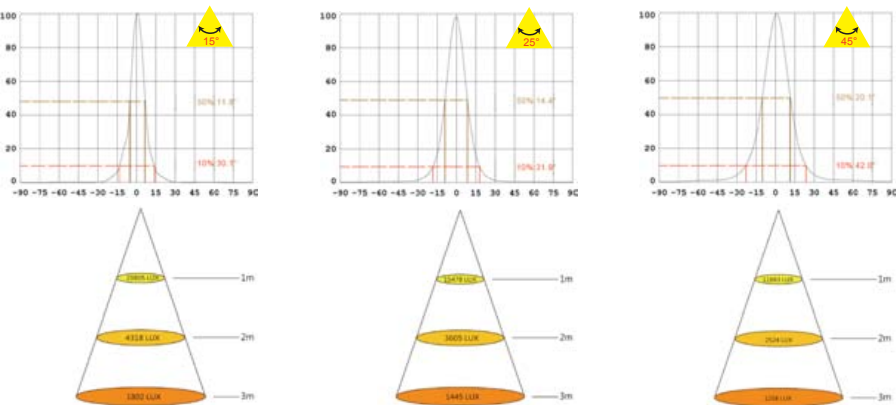
Part Number	DxH(mm)	Angle	LED	LED type
LL01ED-AKxxL	34.6x18.7	25° 40°	CREE	XPC/XPE/XPG/XRE/MX6/MX3
			DISON	1LA5/Federal
			PHILIPS LUMILEDS	Rebel
			NICHIA	083B/183/119
			OSRAM	GD/GDP/Oslon
			SEOUL	P4/Z1/Z5



2D Drawings



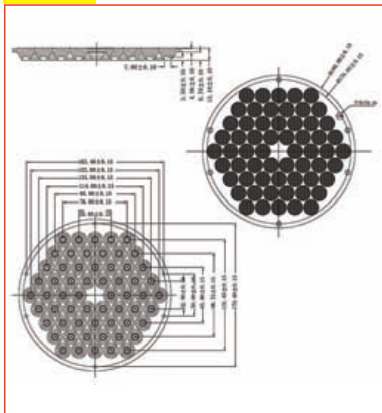
Part Number	DxH(mm)	Angle	LED	LED type
LL36ED-AAxxL	140x12.7	15° 25° 45°	CREE	XPC/XPE/XPG/XRE/MX6/MX3
			DISON	1LA5/Federal
			PHILIPS LUMILEDS	Rebel
			NICHIA	083B/183/119
			OSRAM	GD/GDP/Oslon
			SEOUL	P4/Z1/Z5



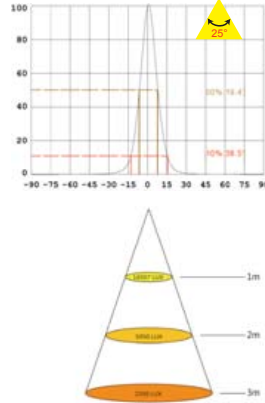
Stage Lighting Lens



2D Drawings



Part Number	DxH(mm)	Angle	LED	LED type
LL60ED-BOxxL	180x13.1	25°	CREE	MX3
			DISON	1LA5
			NICHIA	083B
			SEOUL	A4/P4



Note

Application

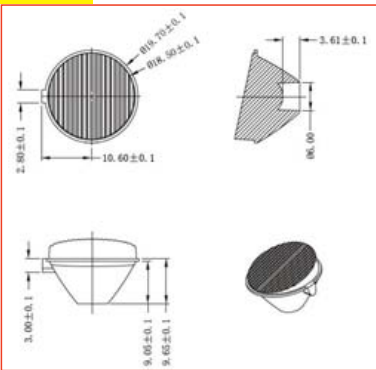
Wallwasher Lighting



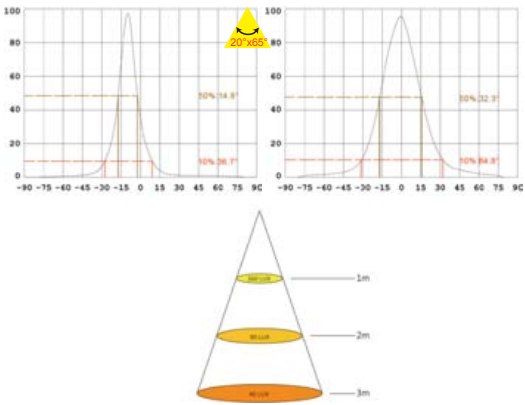
Wallwasher Lighting Lens



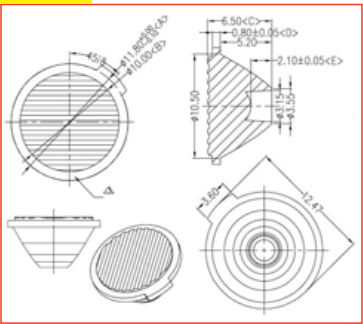
2D Drawings



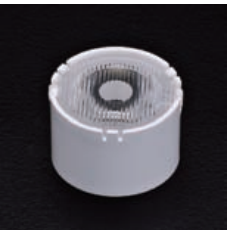
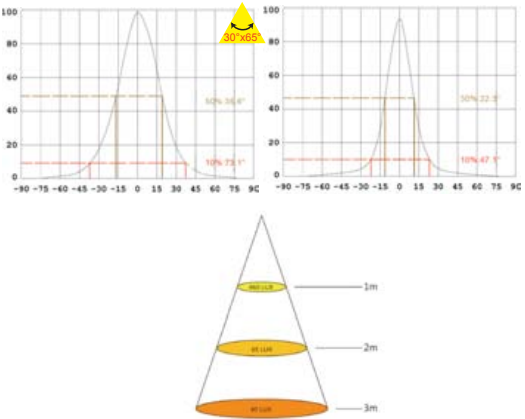
Part Number	 DxH(mm)	 Angle	LED	LED type
LL01LU-AA2065L-Mx	21x16.2	20° x 65°		1LA5 P4



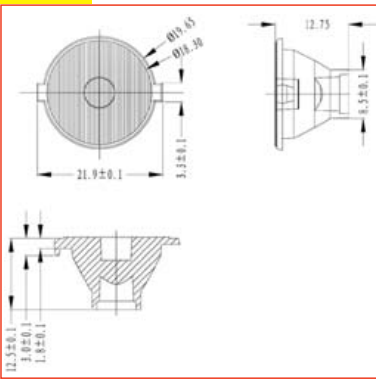
2D Drawings



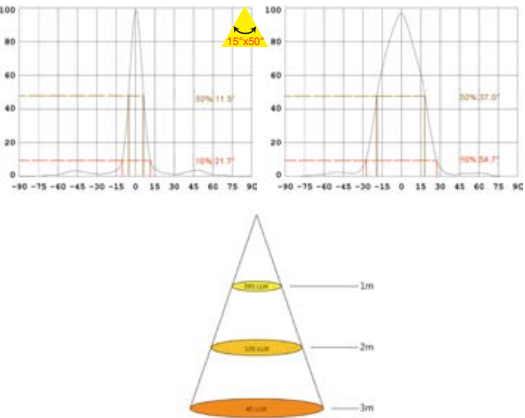
Part Number	 DxH(mm)	 Angle	LED	LED type
LL01CR-DF3065L-Mx	13.5x7.1	30° x 65°		XPE



2D Drawings



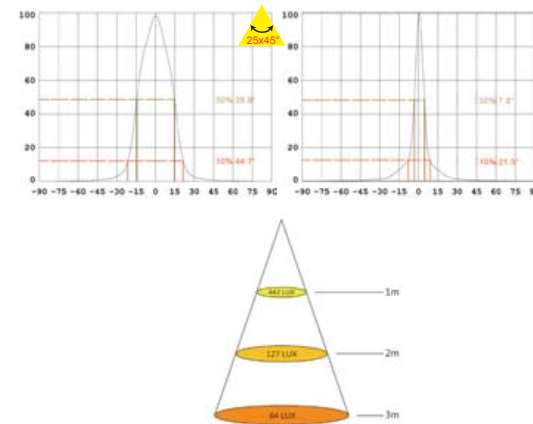
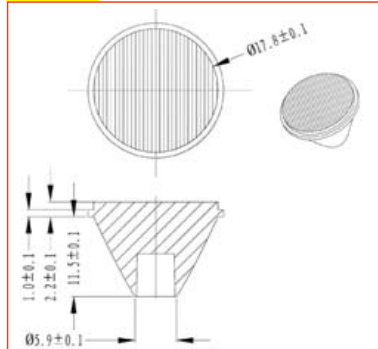
Part Number	 DxH(mm)	 Angle	LED	LED type
LL01CR-BR1550L	19.6x12.5	15° x 50°		XRE



Wallwasher Lighting Lens



Part Number	 DxH(mm)	 Angle	LED	LED type
LL01CR-AO2545L	19.4x13.5	25° x 45°		XRE
				1LA5



Application

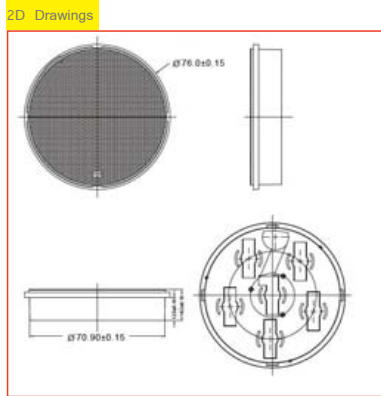
Flood Lighting



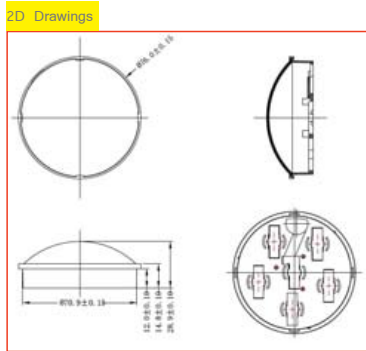
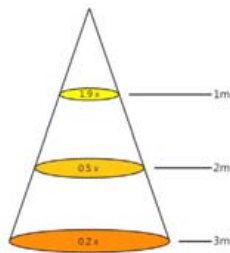
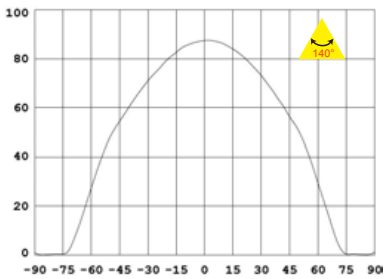
Note



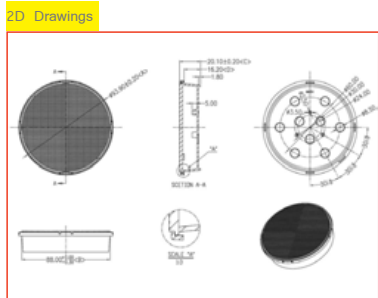
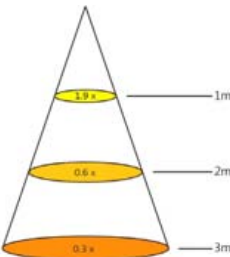
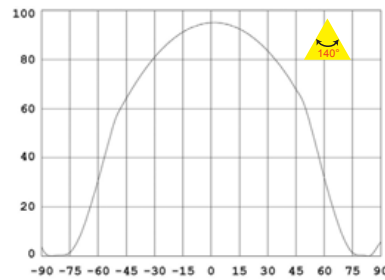
Flood Lighting Lens



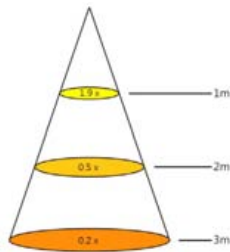
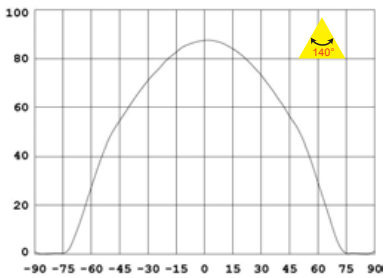
Part Number	 DxH(mm)	 Angle	LED	LED type
LL06ED-CO140L-M2	76x16.2	140°	 1LA5  P4	1LA5 P4



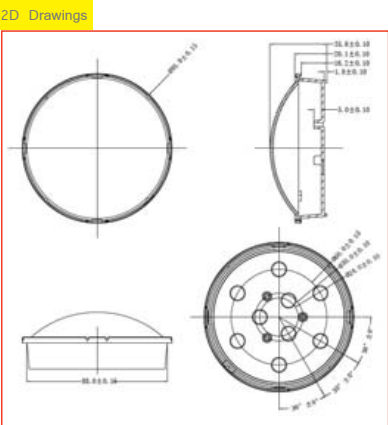
Part Number	 DxH(mm)	 Angle	LED	LED type
LL06ED-DA140L-M2	76x28.9	140°	 XRE  1LA5  P4	XRE 1LA5 P4



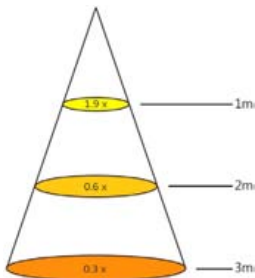
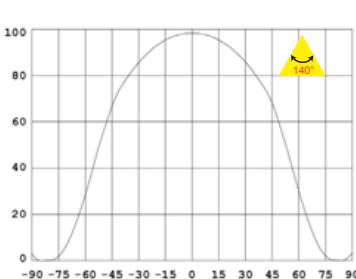
Part Number	 DxH(mm)	 Angle	LED	LED type
LL09ED-CO140L-M2	140x12.7	140°	 1LA5  P4	1LA5 P4



Flood Lighting Lens



Part Number	 DxH(mm)	 Angle	LED	LED type
LL09ED-DA140L-M2	93.9x35.6	140°	 1LA5  P4	1LA5 P4



Note

Application

Street Lighting

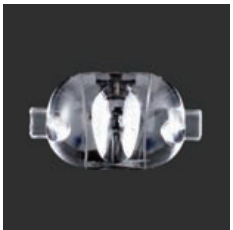
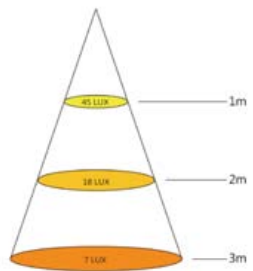
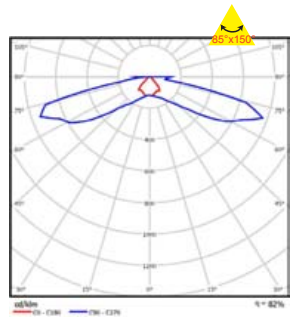
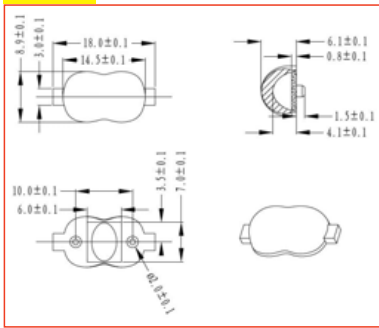


Street Lighting Lens-Asymmetrical Beam Pattern



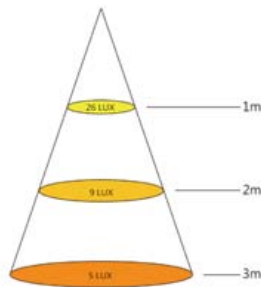
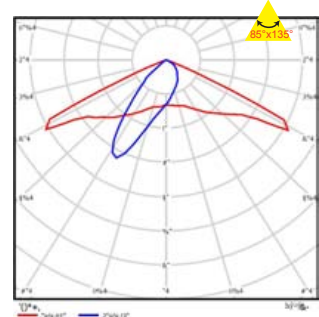
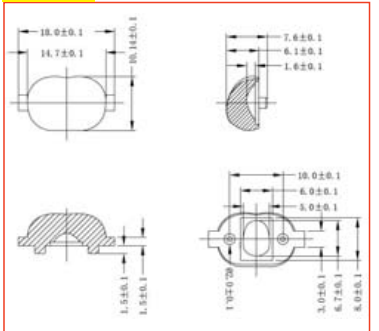
Part Number	 DxWxH(mm)	 Angle	LED	LED type
LL01CR-OG85150L	18x8.9x6.1	85° x 150°		XPE

2D Drawings



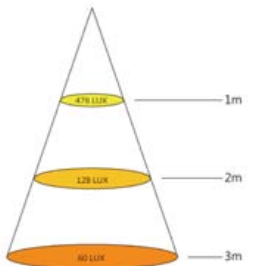
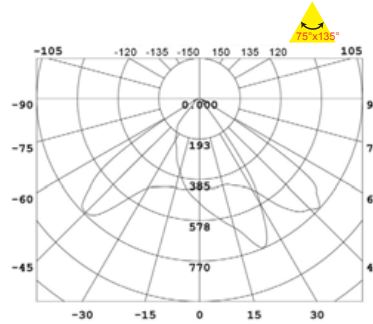
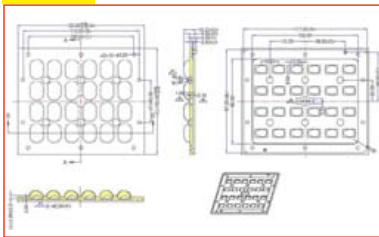
Part Number	 DxWxH(mm)	 Angle	LED	LED type
LL01CR-AU85135L	18x10.1x7.6	85° x 135°		XPE / XPG
				Federal
				Rebel
				Oslon

2D Drawings



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

2D Drawings

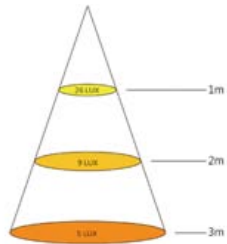
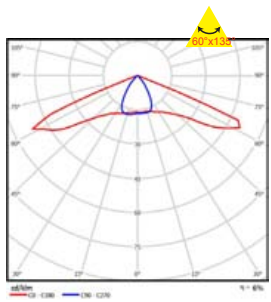
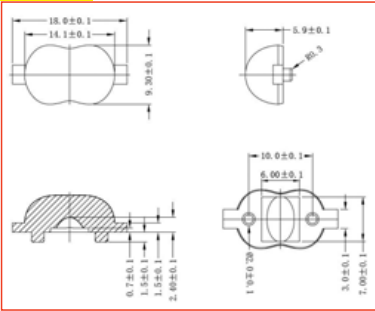


Street Lighting Lens-Symmetrical Beam Pattern



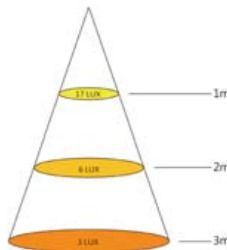
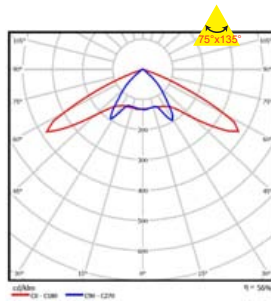
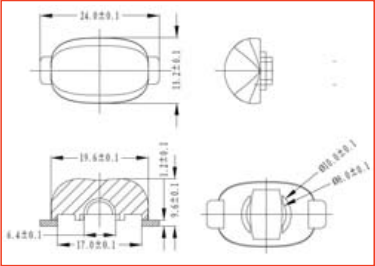
Part Number	 DxWxH(mm)	 Angle	LED	LED type
LL01CR-FT60135L	18x9.3x7	60° x 135°	   	XPE/XPG Federal Rebel Oslon

2D Drawings



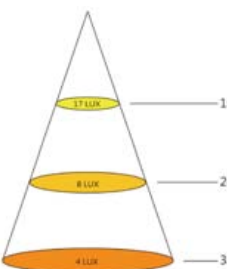
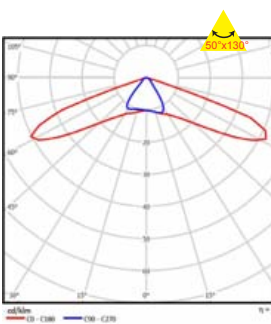
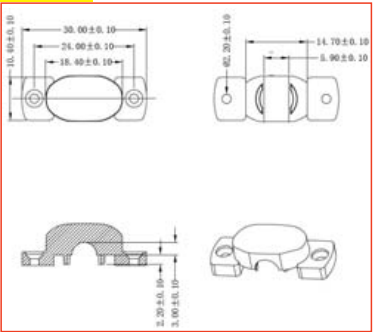
Part Number	 DxWxH(mm)	 Angle	LED	LED type
LL01SH-AU75135L	24x12.6x9.3	75°x135°	  	XRE 1LA5 P4

2D Drawings

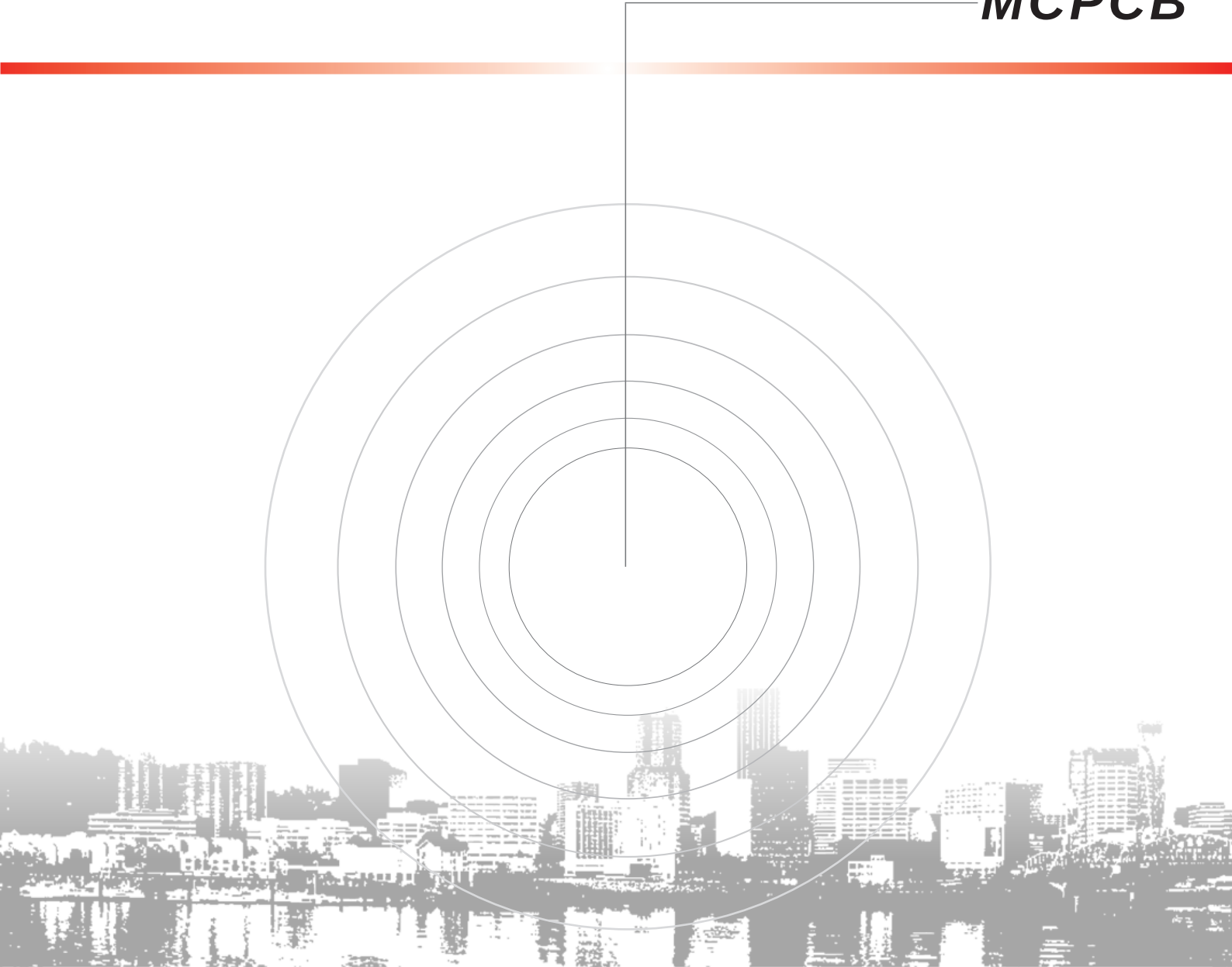


Part Number	 DxWxH(mm)	 Angle	LED	LED type
LL01ED-AU50130L	30x10.4x10.1	50°x130°	 	1LA5 P4

2D Drawings



MCPCB



MCPCB Nomenclature

LM - S01ED - 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

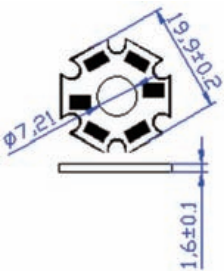
MCPCB

Single

Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-S01ED-AAx	LDKPED-01C3BS4-0120x1.6	Single Color	 	1LA5 P4	1S



2D Drawings



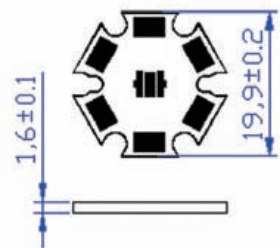
Compatible Lens



Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-S01XP-AAx	LDKPCR-01C3BS4-0320x1.6	Single Color		XPE	1S



2D Drawings



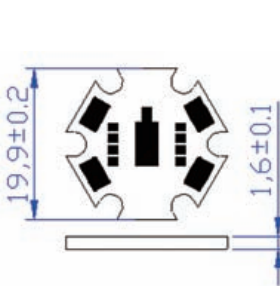
Compatible Lens



Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-S01MCE-AAx	LDKPCR-01C3BS4-0120x1.6	Single Color		MCE	1S



2D Drawings



Compatible Lens

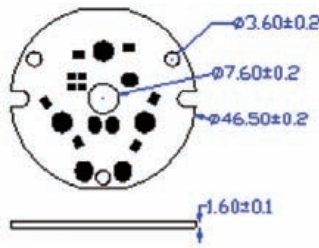


3 in 1

Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C03ED-ABM	LDKPED-03C3BS4-0146.5x1.6	RGB Color		1LA5	3S3P



2D Drawings



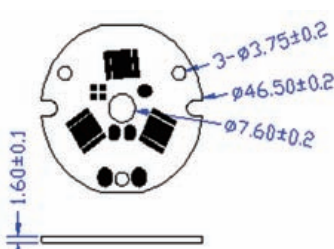
Compatible Lens



Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C03CR-ABx	LDKPCR-03C3BS4-0346.5x1.6	Single Color		XRE	3S3P



2D Drawings

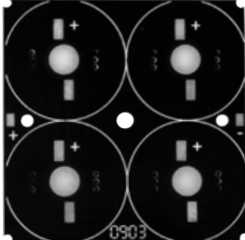


Compatible Lens

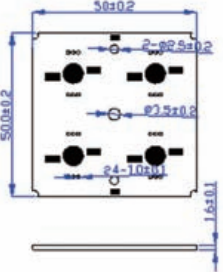


4 in 1

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



2D Drawings



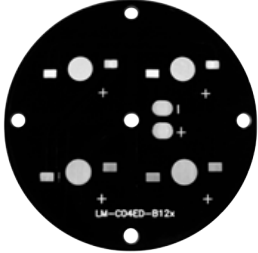
Compatible Lens

For Single Lens

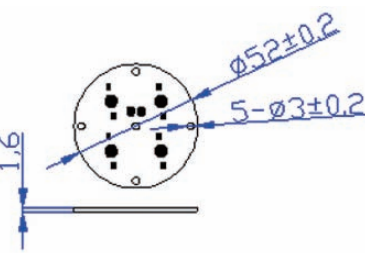
LL01ED-ALxxL LL01ED-FMxxL



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



2D Drawings



Compatible Lens

For Single Lens

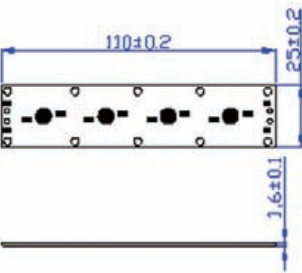
LL01ED-AJxxL LL01ED-AOxxL



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



2D Drawings



Compatible Lens

For Single Lens

LL01ED-AJxxL LL01ED-AOxxL

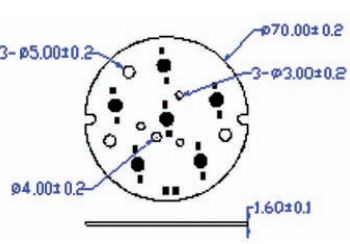


6 in 1

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



2D Drawings



Compatible Lens

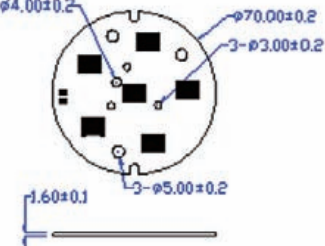
LL06ED-ADxxL LL06ED-AExxL-M2



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



2D Drawings



Compatible Lens

LL06ED-ADxxL LL06ED-AExxL-M2

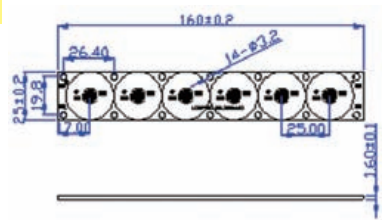


6 in 1

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



2D Drawings



Compatible Lens

For Single Lens

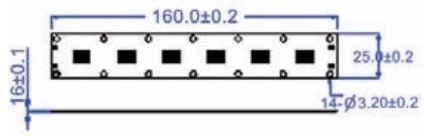
LL01CR-DGxxL LL01ZZ-FLxxL



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



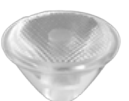
2D Drawings



Compatible Lens

For Single Lens

LL01CR-DGxxL LL01ZZ-FLxxL

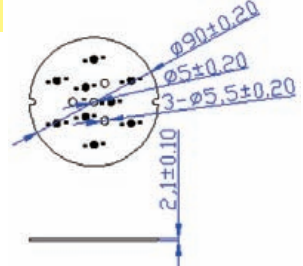


9 in 1

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



2D Drawings

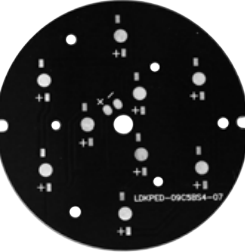


Compatible Lens

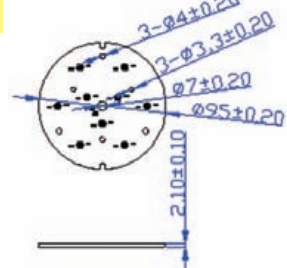
LL09ED-BZxxL-M2 LL09ED-ATxxL-M2



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



2D Drawings

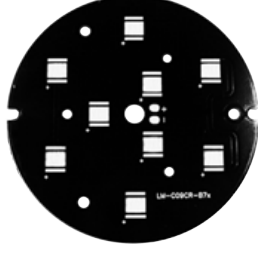


Compatible Lens

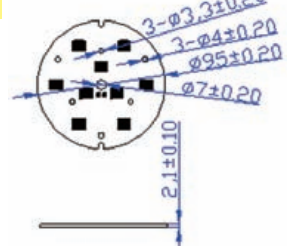
LL09ED-ACxxL



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



2D Drawings

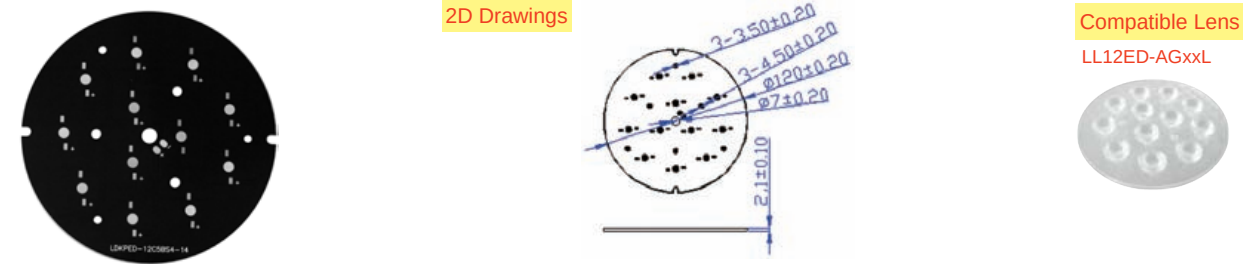


Compatible Lens

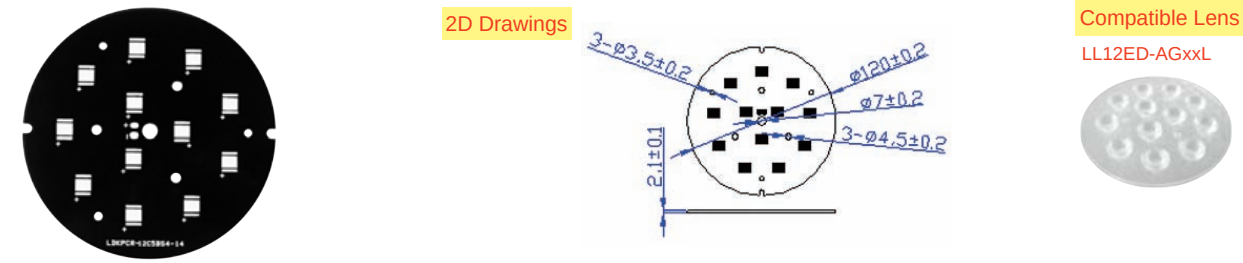
LL09ED-ACxxL



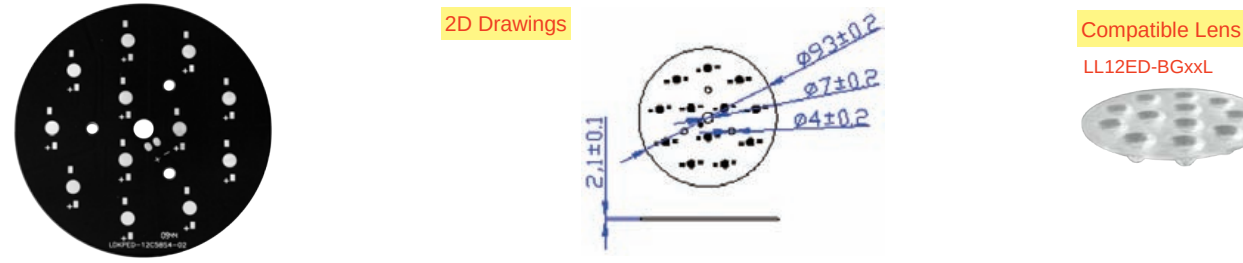
Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C12ED-AJx	LDKPED-12C5BS4-14120x2.0	Single Color	 	1LA5 P4	12S



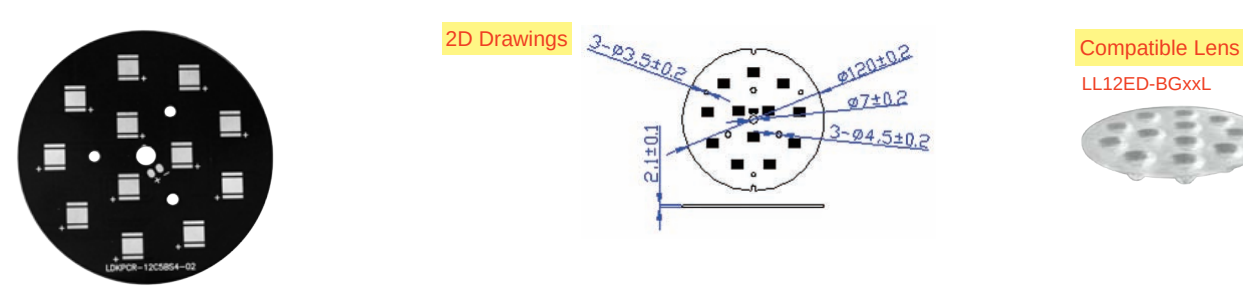
Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C12CR-AJx	LDKPCR-12C5BS4-14120x2.0	Single Color		XRE	4Sx3 12S



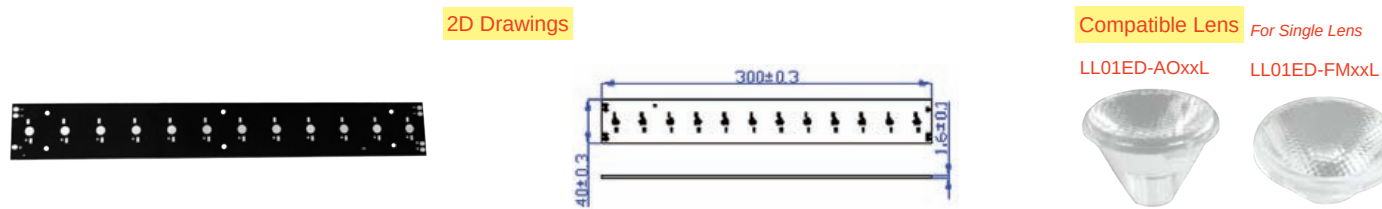
Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C12ED-AKx	LDKPED-12C5BS4-0293.0x2.0	Single Color	 	1LA5 P4	12S



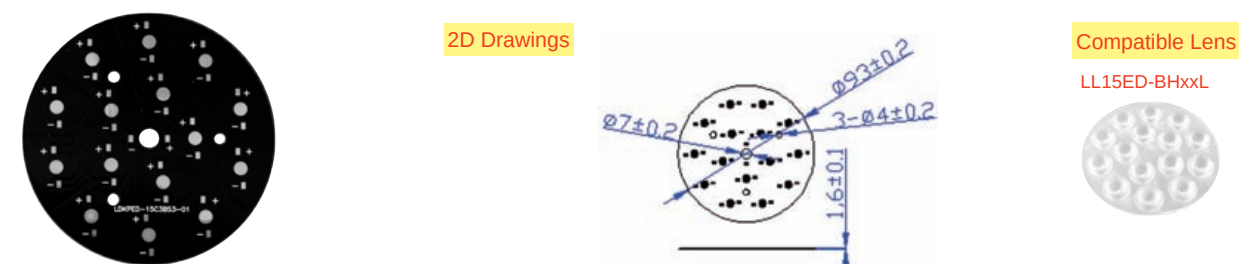
Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C12CR-AKx	LDKPCR-12C5BS4-0293.0x2.0	Single Color		XRE	12S



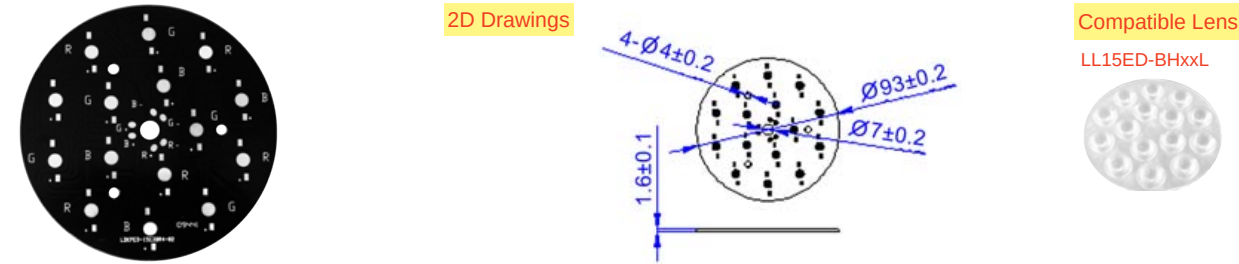
Part Number	 DxWxH(mm)	Color	LED	LED type	Circuit
LM-L12ED-ALx	LDKPED-12L3BS4-11300x40x1.6	Single Color	 	1LA5 P4	6S2P



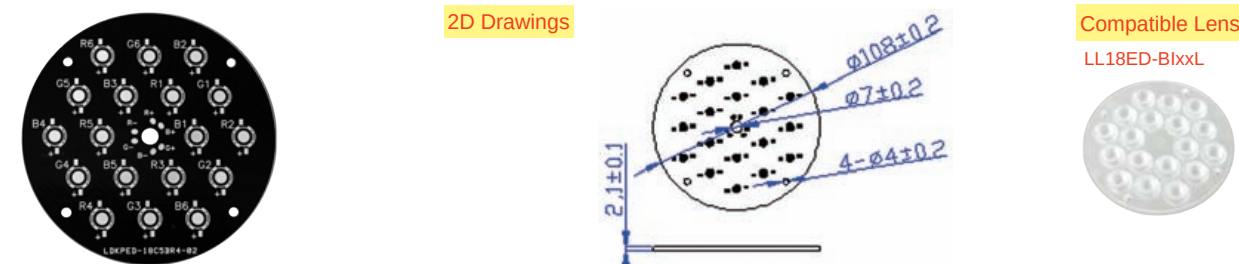
Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C15ED-AMx	LDKPED-15C3BS3-0193x1.6	Single Color	 	1LA5 P4	15S



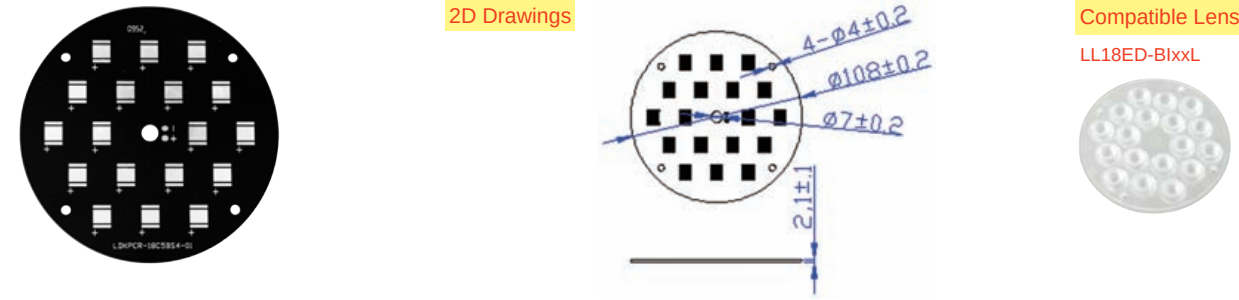
Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C15ED-AMRGB	LDKPED-15C3BR4-0293x1.6	RGB Color	 	1LA5 P4	5Sx3 15S



Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C18ED-ANx	LDKPED-18C5BR4-02108.0x2.0	Single Color	 	1LA5 P4	6Sx3 18S

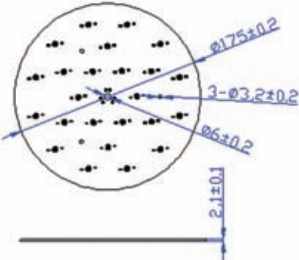


Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C18CR-ANx	LDKPCR-18C5BS4-01108.0x2.0	RGB Color		XRE	6Sx3 18S



Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C24ED-AOx	175.0x2.0	Single Color	 	1LA5 P4	8Sx3 24S

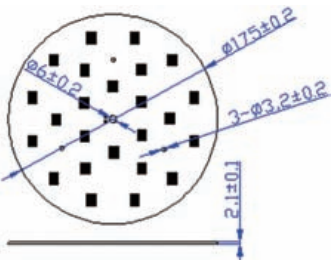


2D Drawings

Compatible Lens

Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C24CR-AOx	175.0x2.0	Single Color	 	1LA5 P4	8Sx3 24S

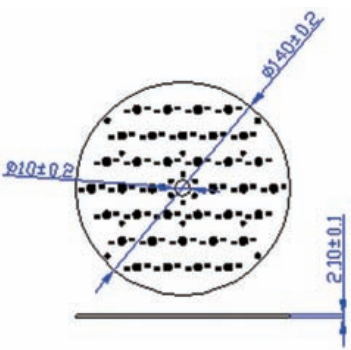


2D Drawings

Compatible Lens

Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C36ED-APRGB	140x2.0	RGB Color	 	1LA5 P4	12S 3P

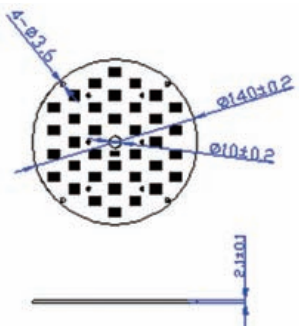


2D Drawings

Compatible Lens

Part Number	 DxH(mm)	Color	LED	LED type	Circuit
LM-C36CR-APx	140.0x2.0	Single Color		XRE	36S



2D Drawings

Compatible Lens

Lens List by LED



Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	40°		
	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°		
	LL01CR-FT60135L	18x9.3x7	60°x135°		
	LL24CR-AU75135L	120x100x10.2	75°x135°		

[illegible]

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-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)		
	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-BRxxL	19.6x12.5	40°		
	LL01CR-DFxxL	11.8x6.5	25° 40° 60° 100° 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°	✓	
	LL01CR-OTxxL-M2	17x10.5	25° 40° 60° 80°	✓	
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01NI-GRxxL	19.4x13.5	40° 60°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-CBxxL	25.6x10	15°		
	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° 60°	
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°		
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° 60°		
	LL07ZZ-FUxxL	50.3x10.8	15° 25°		
	LL07ZZ-FVxxL	39.1x10.6	15° 25°		
9 in 1	LL09ED-GKxxL	67x9.8	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
12 in 1	LL12ED-BGxxL	95x11.2	40°		
	LL12ED-GKxxL	67x10.8	40° 60°		
15 in 1	LL15ED-BHxxL	95x11.1	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)		
	LL24CR-AU75135L	120x100x10.2	75°x135°(Asymmetry)		

This image shows a full page of white paper with horizontal dashed lines, typical of primary school handwriting practice paper. The lines are evenly spaced and run across the entire width of the page. There are no margins, text, or other markings present.

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-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	20° 30° 40° 50° 60°	✓	
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AYxxL	43.8x24.5	10° 38°		
	LL01ZZ-FLxxL	22x10.6	25°	✓	
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	40° 60°		
	LL06ED-AExxL	73.2x13.5	40°		
	LL06ED-CDxxL	73.2x4.5	60°		
	LL06ED-DKxxL	73.3x13.7	60°		

Note

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-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°		
	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°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01ZZ-EXxxL	21x9.3	25° 40°		
	LL01ZZ-FLxxL	22x10.6	25° 40° 60°		
3 in 1	LL03CR-CExxL	34x9.9	38°		
	LL03CR-EKxxL	35x9.0	40° 60°		
	LL03ED-AZxxL	50.5x13	45°		
	LL03ED-BAxxL	50.5x13	45° 60°		
	LL03ED-CTxxL	31x11.2	38°		
6 in 1	LL06ED-ADxxL	73.3x13.9	25° 40° 60°		
	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°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		
60 in 1	LL60ED-BOxxL	180x13.1	25°		

This image shows a full page of white paper designed for handwriting practice. It features ten sets of horizontal dashed lines, each set consisting of three parallel lines spaced evenly down the page. These lines are intended to guide letter height and placement for children learning to write. The paper is otherwise completely blank, with no margins, text, or other markings.

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°	✓	
9 in 1	LL06ED-DKxx-MX	76x16.3	60°	✓	
	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°	✓	
12 in 1	LL09ED-DAxxL-MX	93.9x35.6	140°	✓	
	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-BGxxL	95x11.2	25° 40°		
15 in 1	LL12ED-BQxxL-MX	93.5x20.3	25°	✓	
18 in 1	LL15ED-BHxxL	95x11.1	25° 40°		
24 in 1	LL18ED-BIxxL	110x13.1	25° 40°		
36 in 1	LL24ED-ABxxL	174.5x12.5	25° 45°		
60 in 1	LL36ED-AAxxL	140x12.7	25° 45°		
Street Lighting	LL60ED-BOxxL	180x13.1	25°		
	LL01ED-AU50130L	30x10.4x10.1	50°x130°(Symmetry)		
	LL01ED-AU70135L	24x12.3x9.2	70°x135°(Symmetry)		
	LL01ED-AU75140L	24x11.3x10.1	75°x140°(Symmetry)		
Oval Lens	LL01SH-AU75135L	24x12.6x9.3	75°x135°(Symmetry)		
	LL24ED-AU75135L	135x112x9.7	75°x135°(Symmetry)		
	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-BRxxL	19.6x12.5	40°		
	LL01CR-DFxxL	11.8x6.5	25° 40° 60° 30°x65°	✓	
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-NExxL	19.4x14.8	40° 60°		
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	40°		
	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	10° 25° 40° 60° 30°x65°	✓	
	LL01ZZ-FLxxL	22x10.6	10° 25° 40° 60° 30°x65°	✓	
	3 in 1	LL03CR-CExxL	34x9.9	38°	
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	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°		
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°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
9 in 1	LL09ED-GKxxL	67x9.8	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-GKxxL	67x10.8	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)		

Note

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-BRxxL	19.6x12.5	40° 50°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01CR-FOxxL	35.8x15.8	40°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AQxxL	22.5x10.4	40° 60°		
	LL01ED-AS38R	19.9x10.6	38°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	80°		
	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°		
	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°	
LL03CR-EKxxL		35x9.0	40° 60°		
LL03ED-AFxxL		50.5x19.6	30° 45°		
LL03ED-AZxxL		50.5x13	60°		
LL03ED-BAxxL		50.5x13	45° 60°		
LL03ED-CExxL		34x9.9	38°		
LL03ZZ-EUxxL		33x9.9	38°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	40° 60°		
	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°		
	LL06ED-DKxxL	73.3x13.7	60°		
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°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
18 in 1	LL18ED-BIxxL	110x13.1	40°		
Street Lighting	LL01OS-AU60130L	30.1x14.3x8.5	60°x130°(Symmetry)		
Oval	LL01NI-DZ2040L	22x13.9	20°x40°		

Note

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-BVxxL	19x10.5	60°		
	LL01ED-CTxxL	31x11.2	38° 80°		
	LL01ED-CVxxL	19.6x12.3	25° 45°		
	LL01ED-FMxxL	19.9x10.6	38°		
	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-EXxxL	21x9.3	25° 40°		
	LL01ZZ-FLxxL	22x10.6	25° 60°		
	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-BCxxL		43.9x9.3	25°		
LL03ED-CTxxL		31x11.2	38° 80°		
LL03ZZ-EUxxL		33x9.9	38°		
4 in 1	LL04ED-BDxxL	43.9x9.7	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°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
6 in 1	LL06ED-DKxxL	73.3x13.7	60°		
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° 45°		
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	LL01OS-AU60130L	30.1x14.3x8.5	60°x130°(Symmetry)		
Oval	LL01NI-DZ2040L	22x13.9	20°x40°	✓	

Note

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-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° 25°x45°	✓	
	LL01ED-AJxxL	28.8x19.8	40° 60°		
	LL01ED-AKxxL	34.6x18.7	40°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40° 60°		
	LL01OS-AXxxL	19.7x11.5	40° 60°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01OS-HGxxL	9.7x6	30°		
	LL01ZZ-EXxxL	21x9.3	25° 40°	✓	
	LL01ZZ-FLxxL	22x10.6	25° 40° 60°	✓	
	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°		
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°		

Type	Part Number	 DxD(mm)	 Full Angle	Housing	Photo
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-ACxxL	95x12.8	25°		
	LL09ED-GKxxL	67x9.8	40°		
12 in 1	LL12ED-AGxxL	122x13.5	45°		
	LL12ED-GKxxL	67x10.8	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)		

Note

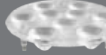
Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
Single	LL01CR-AOxxL	19.4x13.5	60°	✓	
	LL01CR-BRxxL	19.6x12.5	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°	✓	
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AQxxL	22.5x10.4	40° 60°	✓	
	LL01ED-BBxxL	35.8x15.9	40°		
	LL01ED-CTxxL	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°		
	LL01OS-CAxxL	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°		
	LL60ED-BOxxL	180x13.1	25°		
Oval	LL01LU-AA2065L	19.7x13.8	20°x65°		
	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°		
	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°		
	LL06ED-DKxxL	73.3x13.7	60°		
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°		

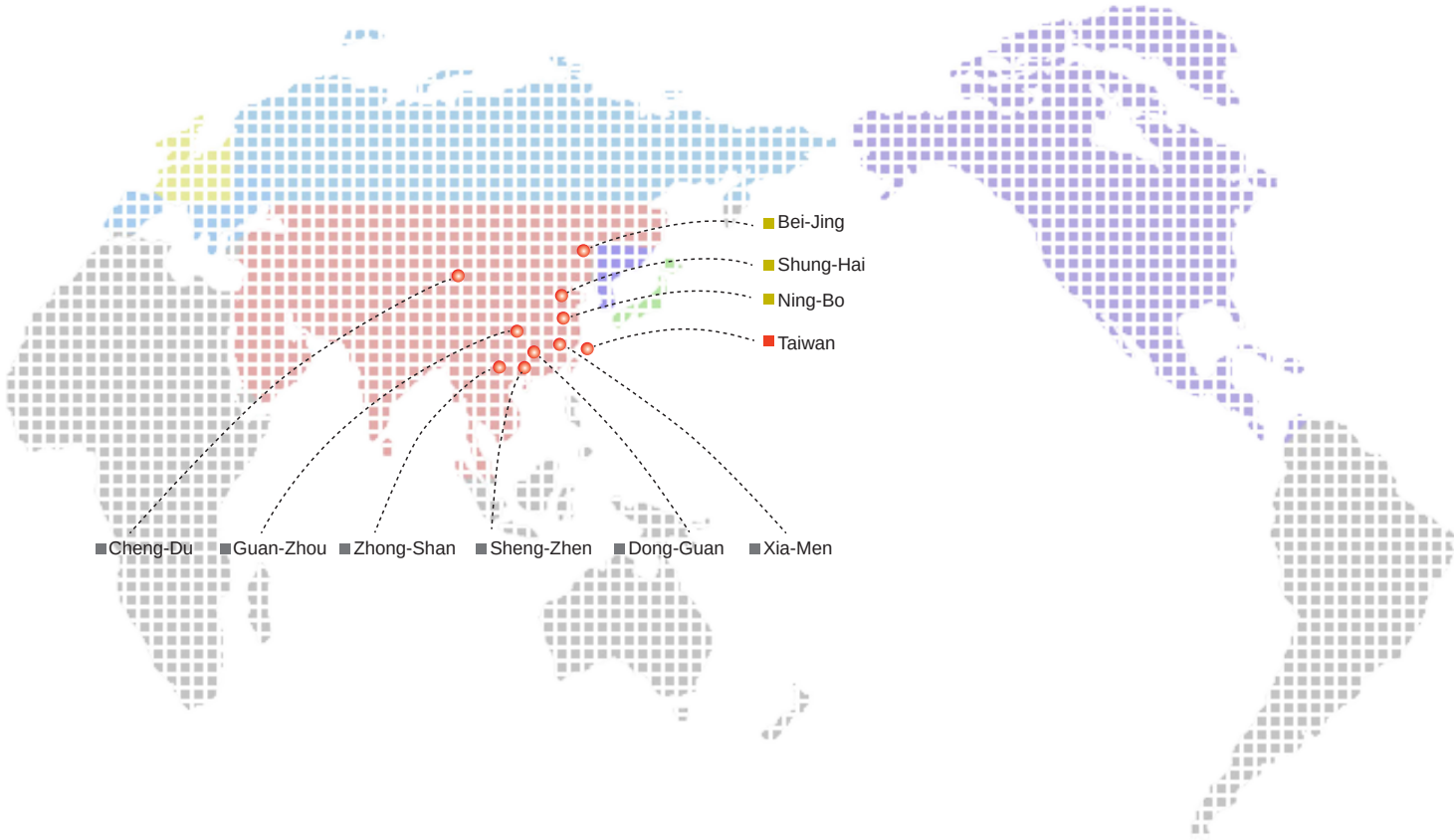
Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
	LL01CR-BMxxL	35.8x16.3	40°		
	LL01CR-DGxxL	28.8x16.5	30° 40°		
	LL01ED-AJxxL	28.8x19.8	25° 40° 60°		
	LL01ED-AKxxL	34.6x18.7	25° 40°		
	LL01ED-AS38R	19.9x10.6	38°		
	LL01ED-ASxxL	19.9x10.6	60°		
	LL01ED-BBxxL	35.8x15.9	60°		
	LL01ED-CTxxL	31x11.2	38°		
	LL01ED-FMxxL	19.9x10.6	38°		
	LL01NI-GRxxL	19.4x13.5	40° 60°		
	LL01OS-AXxxL	19.7x11.5	40°		
	LL01OS-BWxxL	37.2x15.4	30°		
	LL01OS-BYxxL	37.2x15.4	30°		
	LL01OS-CBxxL	25.6x10	15°		
	LL01ZZ-EXxxL	21x9.3	25° 40° 60°	✓	
	LL01ZZ-FLxxL	22x10.6	25° 40° 60°	✓	
3 in 1	LL03ED-GKxxL	33.2x10.3	40°		
	LL03LU-DMxxL	23.1x10.9	25° 40°		
	LL03LU-DOxxL	35x10.5	25°		
4 in 1	LL04ED-GKxxL	37x10.3	40°		
	LL04LU-DNxxL	25.4x10.4	25°		
	LL04LU-DOxxL	35x10.4	25°		
6 in 1	LL06CR-CKxxL	73.2x13.5	25°		
	LL06ED-ADxxL	73.3x13.9	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	25°		
	LL07ZZ-FVxxL	39.1x10.6	25°		

Type	Part Number	 DxH(mm)	 Full Angle	Housing	Photo
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-GKxxL	67x10.8	40°		
15 in 1	LL15ED-BHxxL	95x11.1	40°		
24 in 1	LL24ED-ABxxL	174.5x12.5	45°		
36 in 1	LL36ED-AAxxL	140x12.7	45°		

Note

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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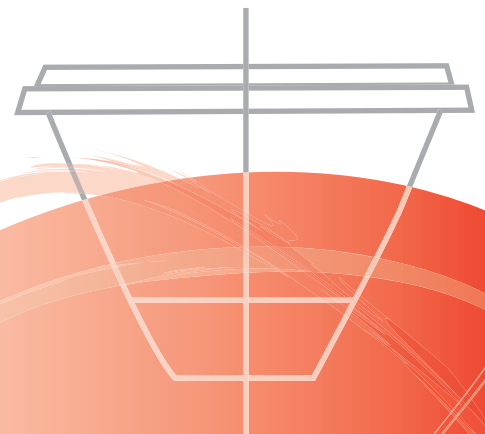
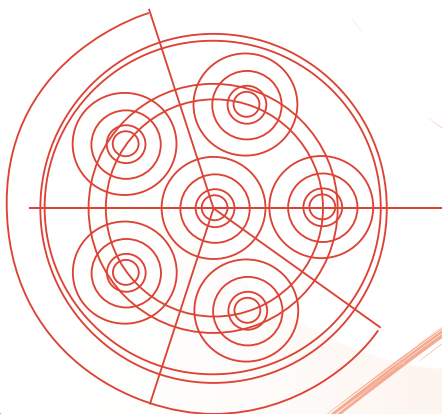
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