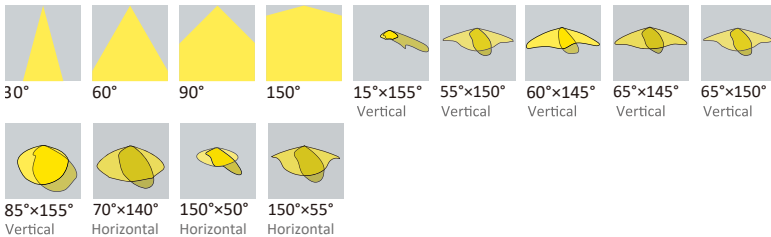




## Datasheet CUQ Series

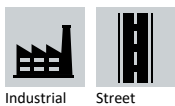
### Available Distribution



### LED



### Recommend Applications



### General Information

PMMA 70°C -40°C	PC 110°C -40°C	PMMA 8N HB 1.5mm RTI 90°C	PC LEV1700K V-2 1.5mm RTI 130°C	PC 1250Z HB 1.5mm RTI 125°C	400nm~900nm > 90%	IP & IK
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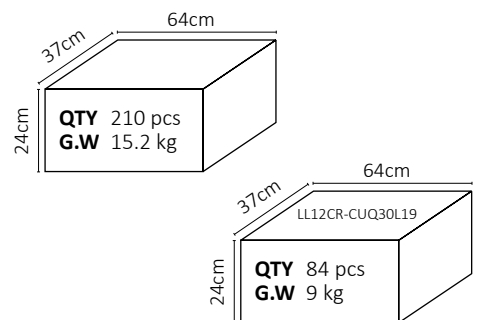
- Lens Material L06: PMMA 8N / L02: PC LEV1700KL / L19: PC 1250Z
- Operating Temperature PMMA: -40°C~+70°C / PC: -40°C~+110°C
- UL Flammability PMMA: HB / PC 1700KL: V-2 / 1250Z: HB @1.5mm
- UL RTI Elec PMMA: 90°C / PC 1700KL: 130°C / 1250Z: 125°C @1.5mm
- Light Transmission Rate 400nm~900nm > 90%
- ☑ If necessary, Clean lenses with mild soap, water and soft cloth.
- ⚠ Never use any commercial cleaning solvents on lenses, like alcohol.
- ⚠ Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

### Dimensions

Part Number	Height	Part Number	Height
LL12CR-CUQ30L19	13.15	LL12LU-CUQ15050L19	8.4
LL12CR-CUQ60L19	11.28	LL12NI-CUQ55150L02	8.87
LL12CR-CUQ90L19	8.81	LL12NI-CUQ65145Lxx	8.64
LL12CR-CUQ150L19	8.63	LL12NI-CUQ65150L06	8.88
LL12CR-CUQ15155L19	8.87	LL12NI-CUQ15055Lxx	8.4
LL12CR-CUQ60145L19	8.15		
LL12CR-CUQ70140L19	9.04		
LL12CR-CUQ85155L19	8.58		
<b>L×W</b>	<b>173×71.4</b>		

\*All dimensions are in millimeters.

### Packaging Details (SPQ)



### Accessories



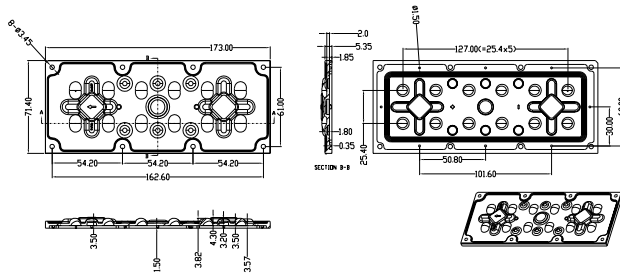
- Available with Waterproof Gasket LL01A00RSOX2

# Mechanical Specification

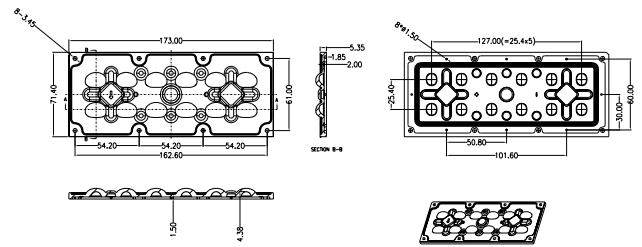
\*All dimensions are in millimeters.

## Lens Dimension

\* Lenses are *vertical* to long side.  
(15°×155° / 55°×150° / 60°×145° / 65°×145° / 65°×150° / 85°×155°)

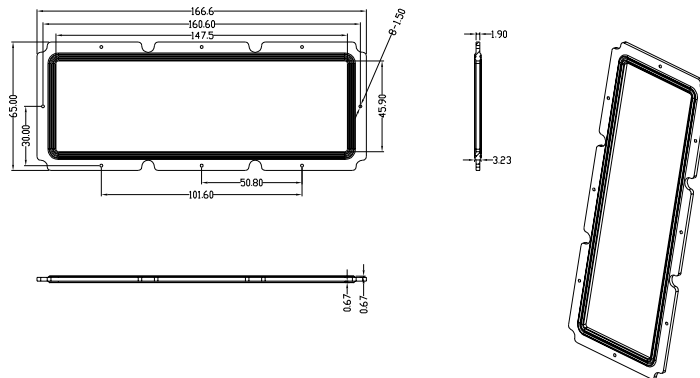


\* Lenses are *horizontal* to long side.  
(70°×140° / 150°×50° / 150°×55°)



## Waterproof Gasket Dimension

LL01A00RSOX2

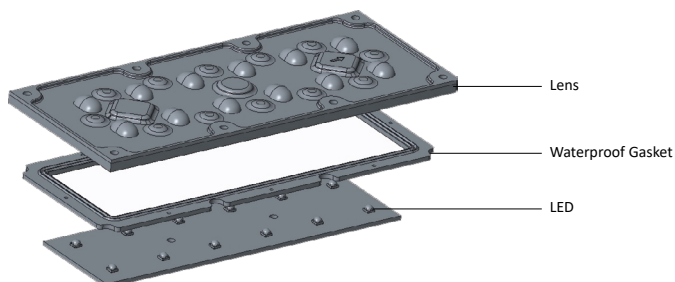


## Assembly Instruction





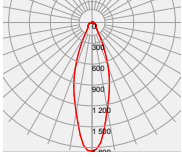
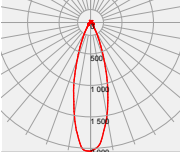
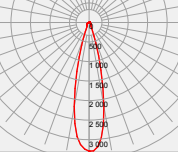
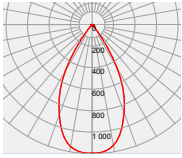
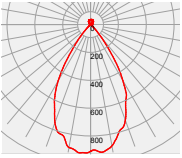
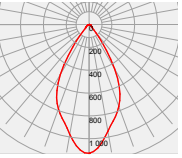
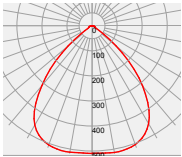
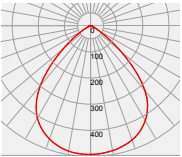
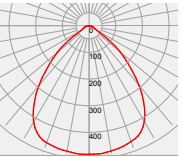
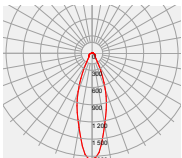
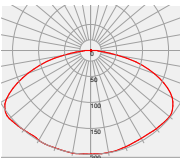
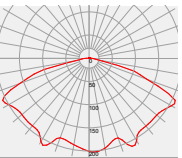
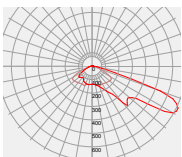
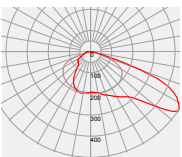
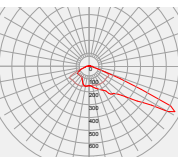

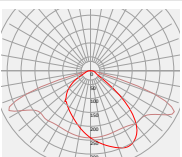
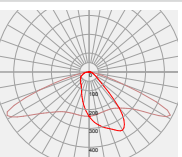
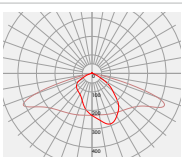

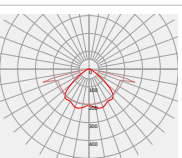
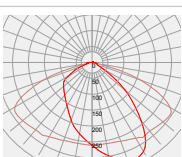
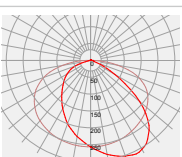
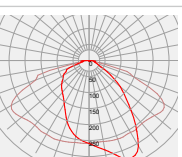
Fixing Method







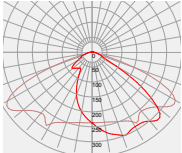
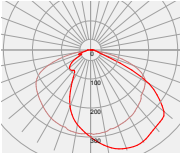
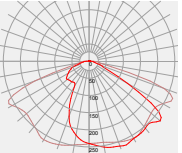
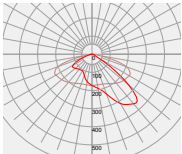
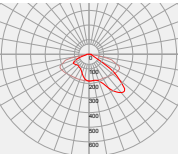
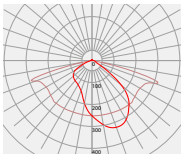
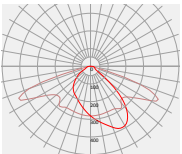
Screw








# Photometric Distribution

LED	 <b>LUMILEDS</b> LUXEON 5050	 <b>CREE</b> MHB-A	 <b>CREE</b> XP-G3	 <b>NICHIA</b> NFMW488
30°				-
60°				-
90°				-
150°				-
15°x155°				-
55°x150°		-	-	
60°x145°	-	-		-
65°x145°		-	-	-
65°x150°		-		-
70°x140°				-

# Photometric Distribution

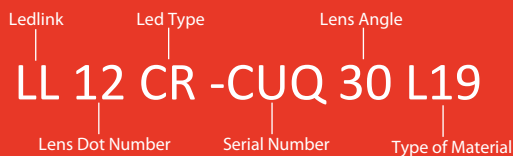
LED	 <b>LUMILEDS</b> LUXEON 5050	 <b>CREE</b> MHB-A	 <b>CREE</b> XP-G3	 <b>NICHIA</b> NFMW488
85°×155°				-
150°×50°		-		-
150°×55°		-	-	

# Details by LED

Part No	Waterproof Gasket	LED Package Size	LED
LL12xx-CUQxxLxx	 LL01A00RSOX2	3535 / 5050 / 5656	   

LED	Part No	Type	FWHM	cd / lm	IES
 <b>LUMILEDS</b> LUXEON 5050	LL12CR-CUQ30L19	-	32°	1.8	
	LL12CR-CUQ60L19	-	55°	1.1	
	LL12CR-CUQ90L19	-	86°	0.5	
	LL12CR-CUQ150L19	V-Very Short	142°	0.2	
	LL12CR-CUQ15155L19	IV-Very Short	31°×134°	0.7	
	LL12CR-CUQ60145L19	-	-	-	-
	LL12CR-CUQ70140L19	II-Short	73°×142°	0.4	
	LL12CR-CUQ85155L19	II-Short	76°×138°	0.4	
	LL12LU-CUQ15050L19	II-Short	63°×156°	0.6	
	LL12NI-CUQ15055L02	II-Medium	59°×153°	0.5	
	LL12NI-CUQ15055L06	II-Medium	66°×152°	0.4	
	LL12NI-CUQ55150L02	II-Medium	74°×149°	0.4	
	LL12NI-CUQ65145L02	II-Short	67°×149°	0.5	
	LL12NI-CUQ65145L06	II-Short	65°×151°	0.4	
LL12NI-CUQ65150L06	II-Medium	65°×151°	0.4		
 <b>CREE</b> MHB-A	LL12CR-CUQ30L19	-	30°	2.0	
	LL12CR-CUQ60L19	-	60°	0.9	
	LL12CR-CUQ90L19	-	88°	0.4	
	LL12CR-CUQ150L19	V-Very Short	148°	0.2	
	LL12CR-CUQ15155L19	III-Very Short	38°×137°	0.5	
	LL12CR-CUQ60145L19	-	-	-	-
	LL12CR-CUQ70140L19	II-Very Short	86°×147°	0.3	
	LL12CR-CUQ85155L19	III-Short	86°×142°	0.3	
 <b>CREE</b> XP-G3	LL12CR-CUQ30L19	-	24°	3.2	
	LL12CR-CUQ60L19	-	55°	1.1	
	LL12CR-CUQ90L19	-	86°	0.4	
	LL12CR-CUQ150L19	V-Very Short	148°	0.2	
	LL12CR-CUQ15155L19	III-Very Short	16°×140°	0.7	
	LL12CR-CUQ60145L19	I-Short	51°×139°	0.5	
	LL12CR-CUQ70140L19	II-Short	71°×145°	0.4	
	LL12CR-CUQ85155L19	II-Short	84°×144°	0.4	
	LL12LU-CUQ15050L19	III-Medium	48°×150°	0.5	
	LL12NI-CUQ65150L06	II-Medium	102°×154°	0.5	
 <b>NICHIA</b> NFMW488	LL12NI-CUQ55150L02	II-Short	81°×144°	0.3	
	LL12NI-CUQ15055L02	I-Short	144°×70°	0.5	

## Product Nomenclature



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