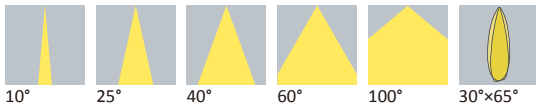
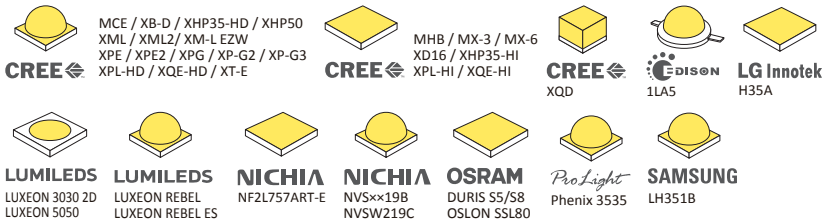


Datasheet FL Series

Available Distribution



LED



Recommend Applications



General Information



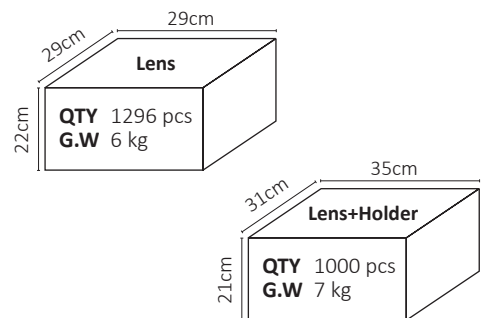
- Lens Material PMMA 8N
- Operating Temperature -40°C~+70°C
- Light Transmission Rate 400nm~900nm > 90%
- ☑ If necessary, Clean lenses with mild soap, water and soft cloth.
- ⚠ Never use any commercial cleaning solvents on lenses, like alcohol.
- 🧤 Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

Dimensions

Part Number	Diameter	Height
LL01ZZ-FLxxL06	Ø22	10.6
LL01XP-FLxxL06-Mx	Ø24.3	11.6
LL01LU-FLxxL06-Mx	Ø24.3	11.6
LL01CR-FLxxL06-Mx	Ø24.3	12.15
LL01CR-DAxxL06-Mx	Ø24.3	12.3
LL01ZZ-FLxxL06-Mx	24x24 (LxW)	11.5

*All dimensions are in millimeters.

Packaging Details (SPQ)



Accessories



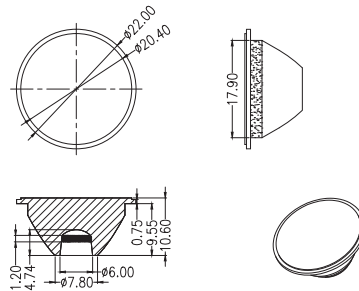
- 5 Different Types of Holder
LL01CRCM25Hx
LL01LUCN25Hx
LL01CRCO25Hx
LL01CRRM10Hx
LL01CRDA25Hx
- Available with Tape
LL01A00XGUX

Mechanical Specification

*All dimensions are in millimeters.

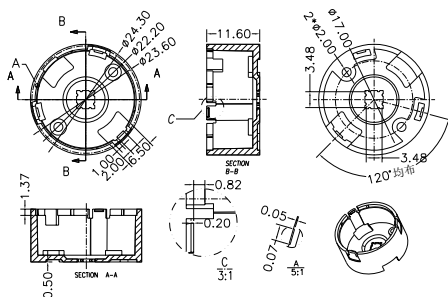
Lens Dimension

LL01ZZ-FLxxL06



Holder Dimension

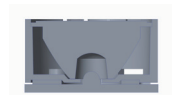
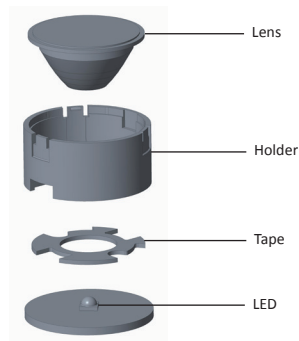
LL01CRCM25Hx



Assembly Instruction

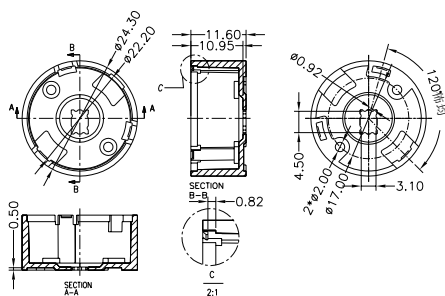
Part No LL01XP-FLxxL06-Mx-T
Holder LL01CRCM25Hx
Tape LL01A00XGUX

Fixing Method



Holder Dimension

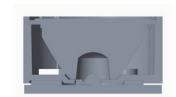
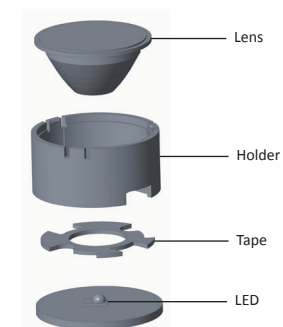
LL01LUCN25Hx



Assembly Instruction

Part No LL01LU-FLxxL06-Mx-T
Holder LL01LUCN25Hx
Tape LL01A00XGUX

Fixing Method

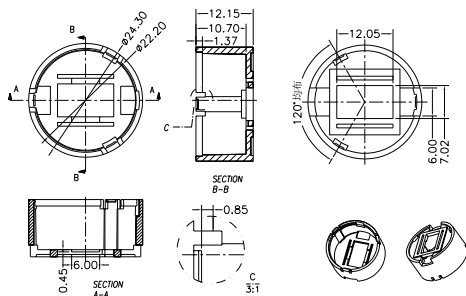


Mechanical Specification

*All dimensions are in millimeters.

Holder Dimension

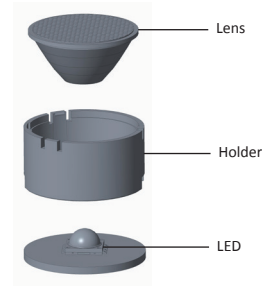
LL01CRCO25Hx



Assembly Instruction

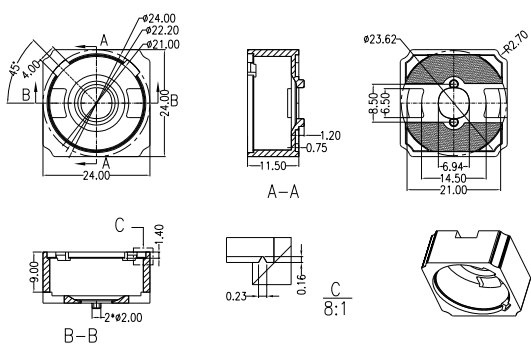
Part No LL01CR-FLxL06-Mx
Holder LL01CRCO25Hx

Fixing Method



Holder Dimension

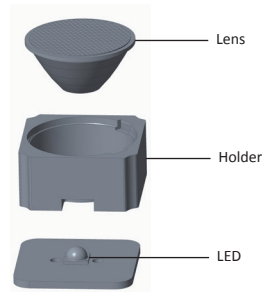
LL01CRRM10Hx



Assembly Instruction

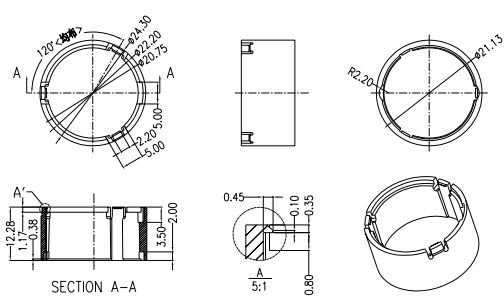
Part No LL01ZZ-FLxL06-Mx
Holder LL01CRRM10Hx

Fixing Method



Holder Dimension

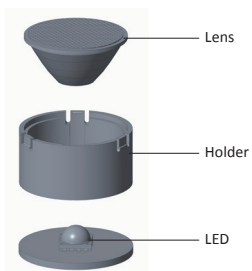
LL01CRDA25Hx



Assembly Instruction

Part No LL01CR-DAxL06-Mx
Holder LL01CRDA25Hx

Fixing Method



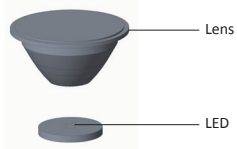
Mechanical Specification

*All dimensions are in millimeters.

Assembly Instruction

Part No LL01ZZ-FL××L06
LED CREE MHB / MX-3 / MX-6 / XD16 / XQE-HI
EDISON 1LA5 / OSRAM Duris S8

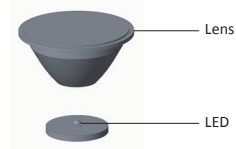
Fixing Method



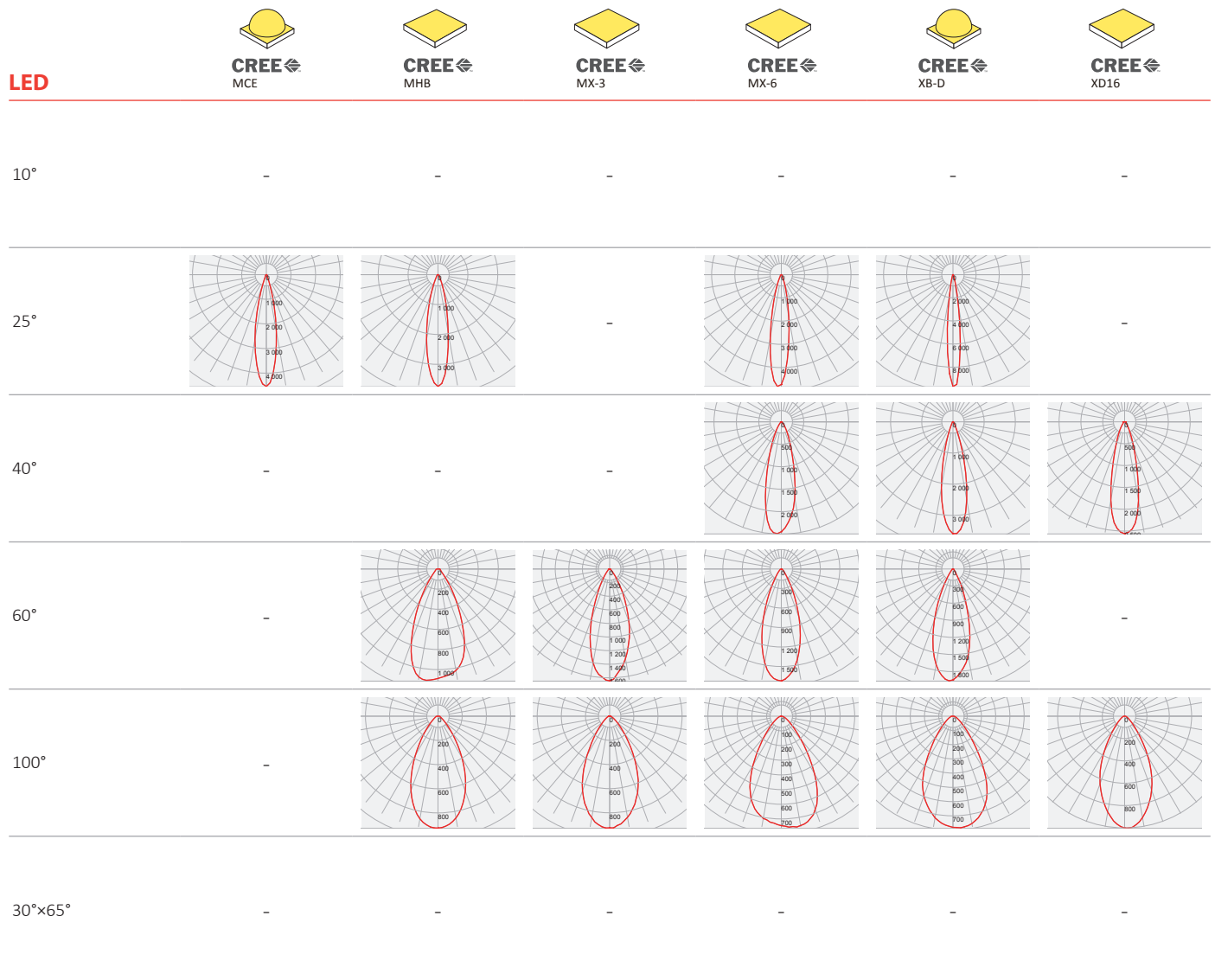
Assembly Instruction

Part No LL01ZZ-FL××L06
LED CREE XBD / XQD / XQE-HD

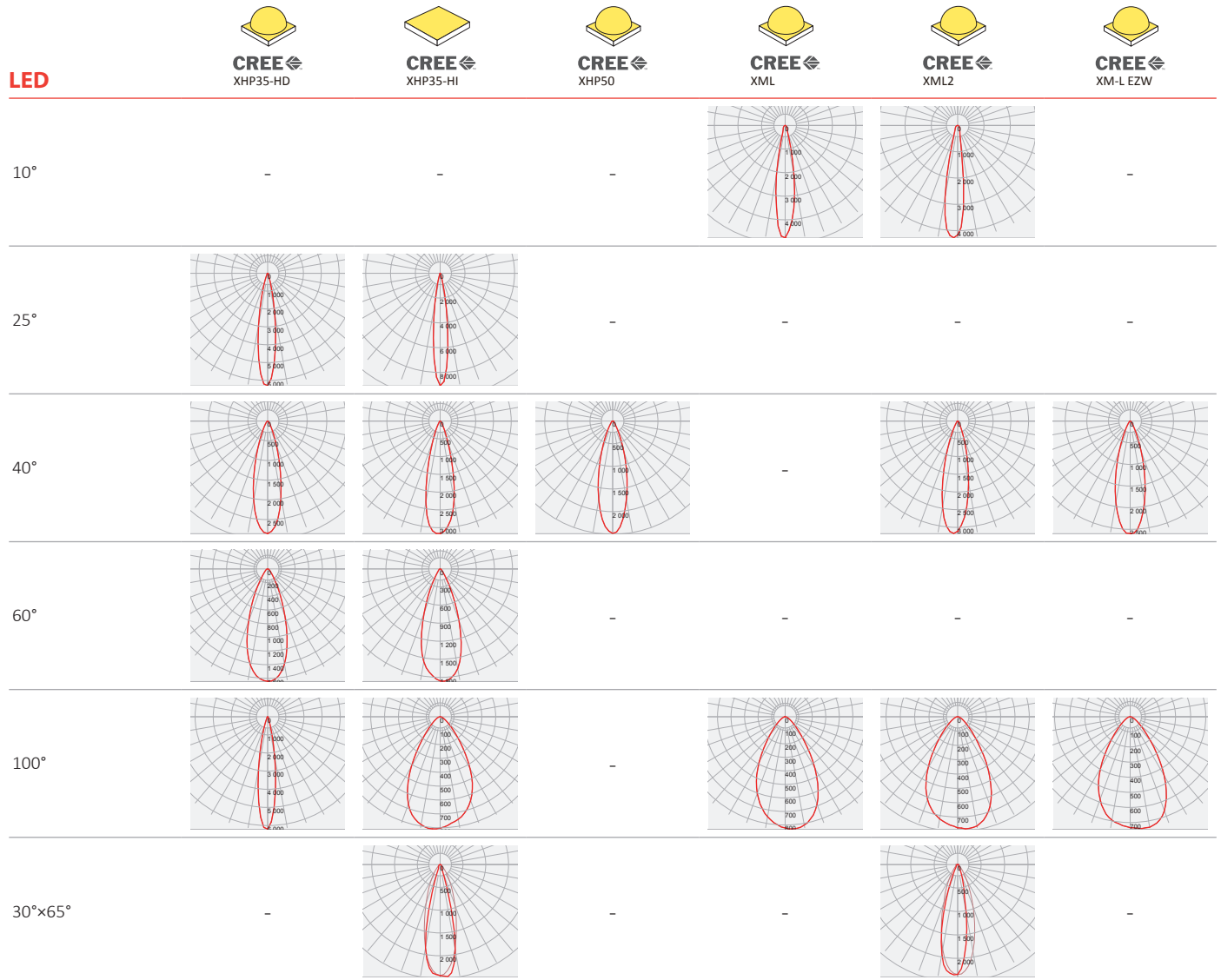
Fixing Method



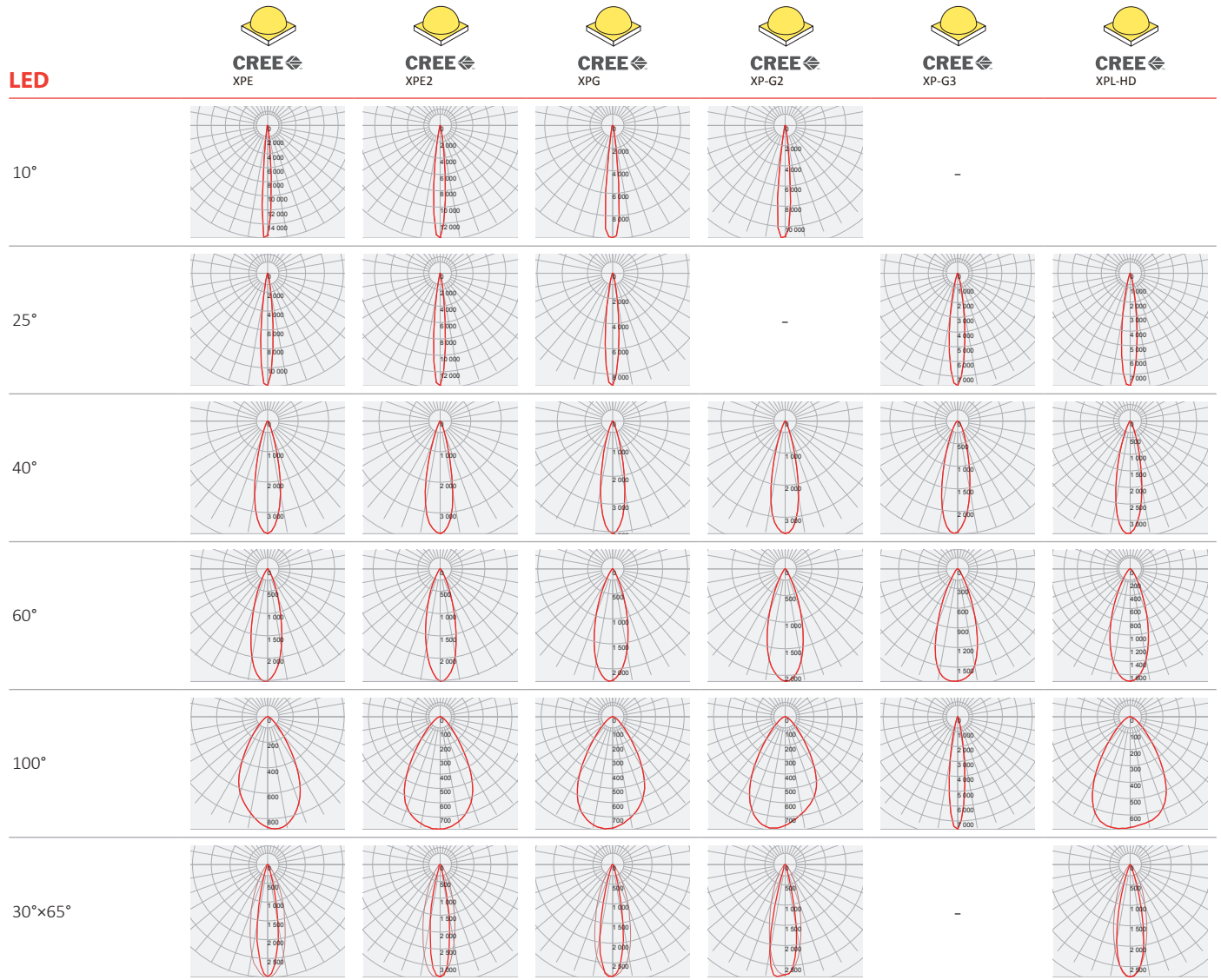
Photometric Distribution



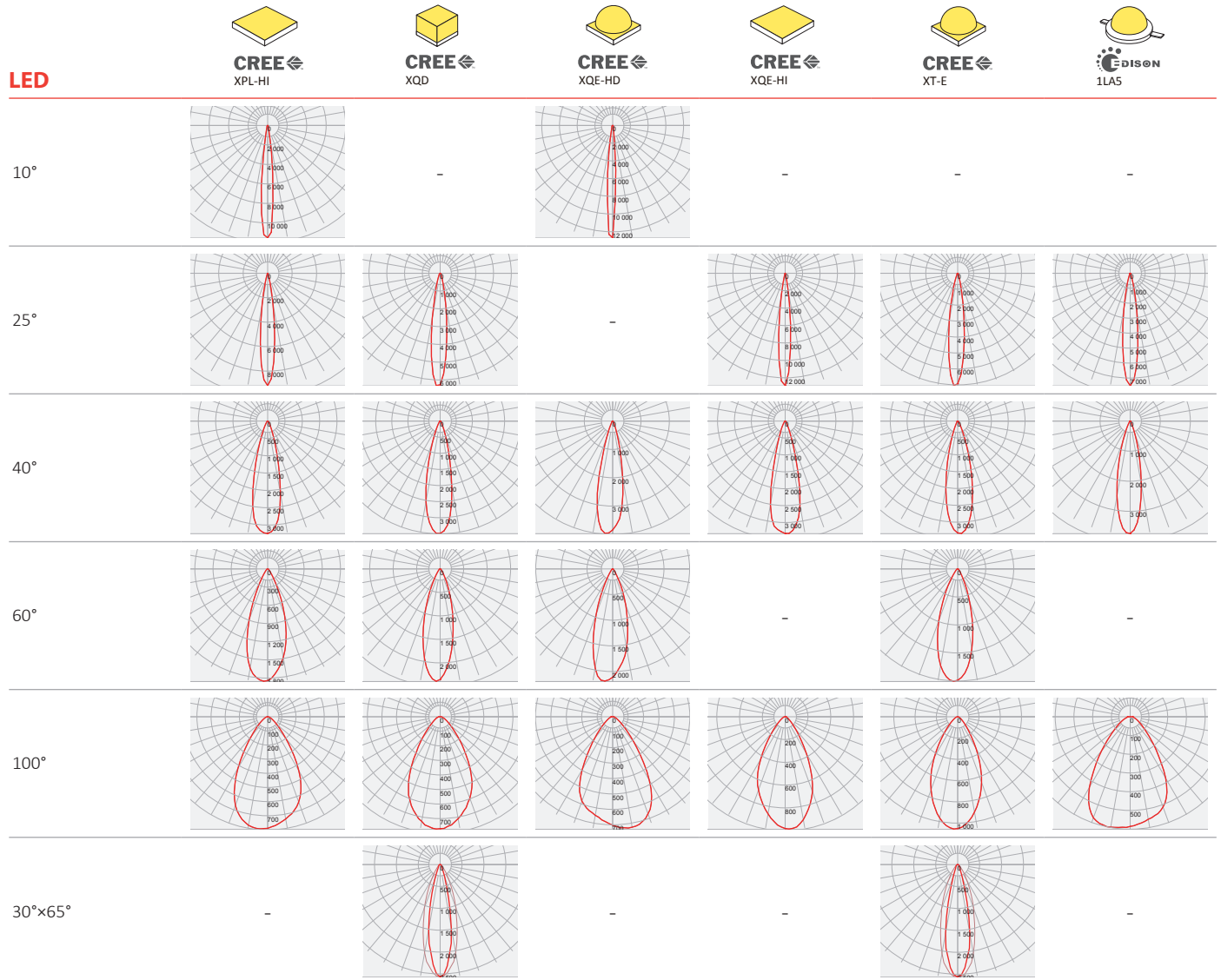
Photometric Distribution



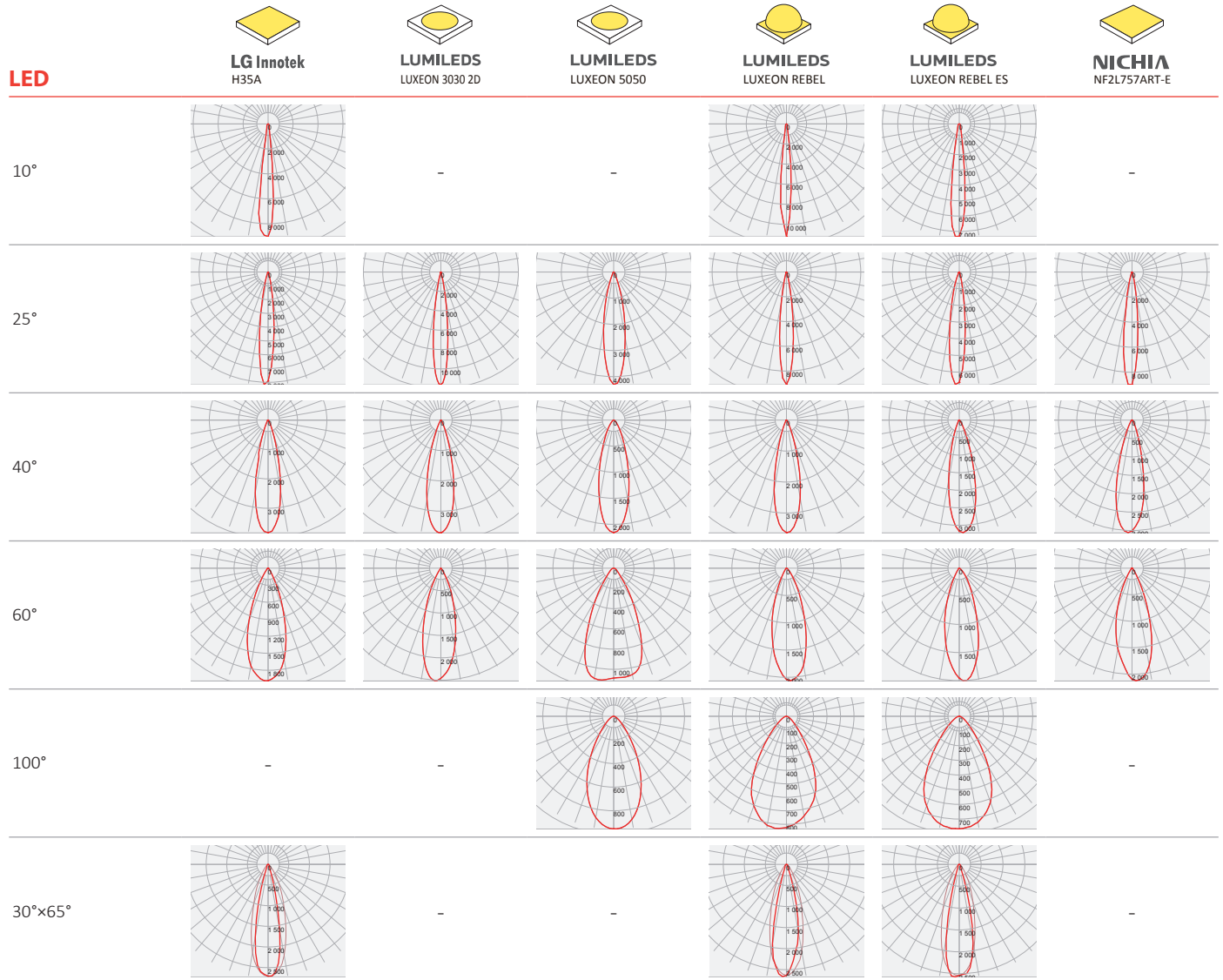
Photometric Distribution



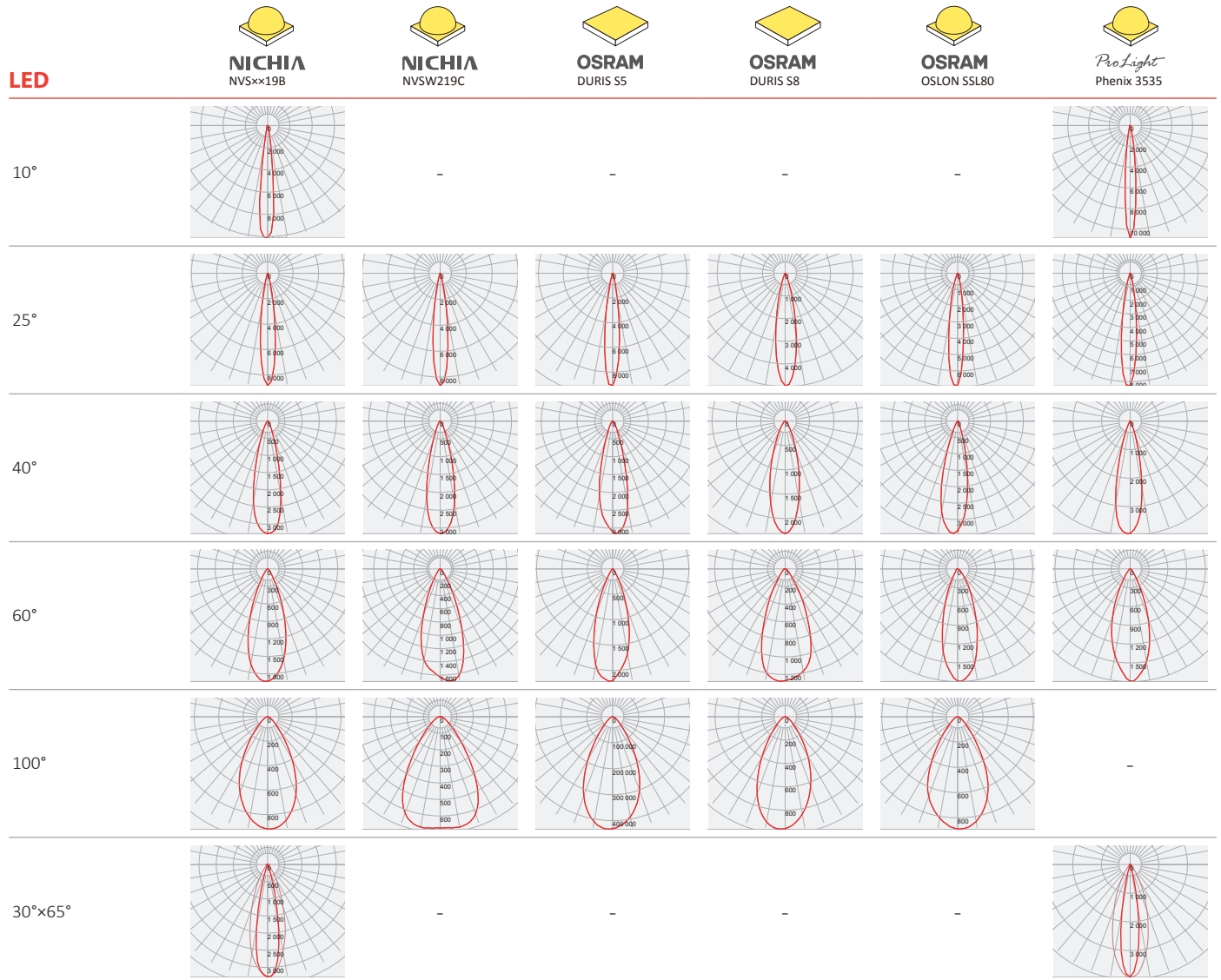
Photometric Distribution



Photometric Distribution



Photometric Distribution



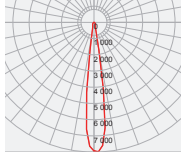
Photometric Distribution



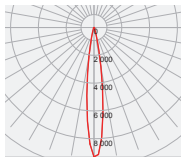
SAMSUNG
LH351B

LED

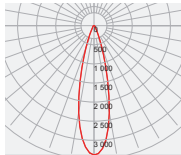
10°



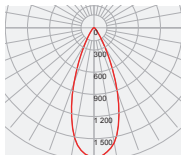
25°



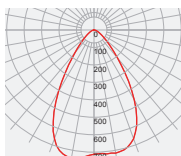
40°



60°



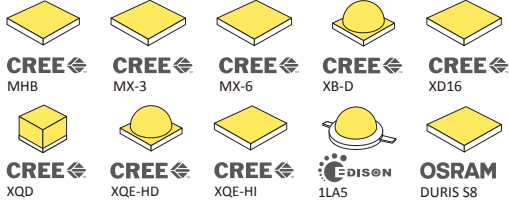
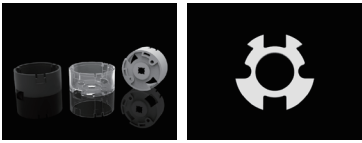
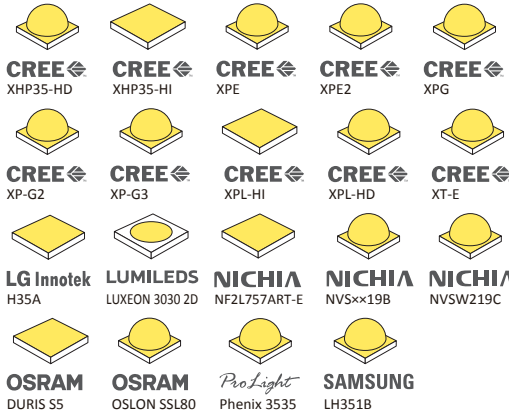
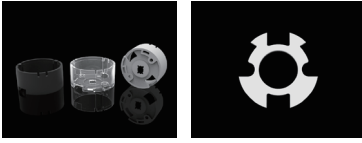
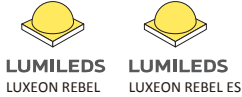
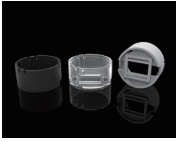

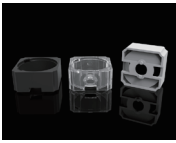

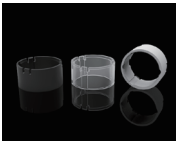

100°


















30°x65°









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





Details by LED







Part No	Holder	Tape	LED Package Size	LED
LL01ZZ-FL××L06	-	-	1616 / 2525 / 5050 Edison 1LA5	
LL01XP-FL××L06-M×-T	 LL01CRCM25H× LL01A00XGUX	-	3030 / 3535	
LL01LU-FL××L06-M×-T	 LL01LUCN25H× LL01A00XGUX	-	3146 / 3050	
LL01CR-FL××L06-M×	 LL01CRCO25H×	-	7075	
LL01ZZ-FL××L06-M×	 LL01CRRM10H×	-	5050	
LL01CR-DA××L06-M×	 LL01CRDA25H×	-	7075	

LED	Part No	FWHM	cd / lm	IES
 CREE MCE	LL01CR-DA10L06-M2	-	-	-
	LL01CR-DA25L06-M2	21°	4.5	↓
	LL01CR-DA40L06-M2	-	-	-
	LL01CR-DA60L06-M2	-	-	-
	LL01CR-DA100L06-M2	-	-	-
	LL01CR-DA3065L06-M2	-	-	-
	LL01CR-FL10L06-M2	-	-	-
	LL01CR-FL25L06-M2	21°	4.5	↓
	LL01CR-FL40L06-M2	-	-	-
	LL01CR-FL60L06-M2	-	-	-
	LL01CR-FL100L06-M2	-	-	-
	LL01CR-FL3065L06-M2	-	-	-
 CREE MHB	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	22°	3.7	↓
	LL01ZZ-FL40L06	-	-	-
	LL01ZZ-FL60L06	49°	1.1	↓
	LL01ZZ-FL100L06	54°	0.9	↓
 CREE MX-3	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	-	-	-
	LL01ZZ-FL40L06	-	-	-
	LL01ZZ-FL60L06	39°	1.6	↓
	LL01ZZ-FL100L06	55°	0.9	↓
	LL01ZZ-FL3065L06	-	-	-
 CREE MX-6	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	19°	4.8	↓
	LL01ZZ-FL40L06	29°	2.4	↓
	LL01ZZ-FL60L06	38°	1.7	↓
	LL01ZZ-FL100L06	62°	0.7	↓
	LL01ZZ-FL3065L06	-	-	-
 CREE XB-D	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	13°	9.6	↓
	LL01ZZ-FL40L06	25°	3.5	↓
	LL01ZZ-FL60L06	36°	1.9	↓
	LL01ZZ-FL100L06	61°	0.7	↓
 CREE XD16	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	-	-	-
	LL01ZZ-FL40L06	27°	2.5	↓
	LL01ZZ-FL60L06	-	-	-
	LL01ZZ-FL100L06	52°	1.0	↓
	LL01ZZ-FL3065L06	-	-	-
 CREE XHP35-HD	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	17°	6.2	↓
	LL01XP-FL40L06-M2-T	27°	2.8	↓
	LL01XP-FL60L06-M2-T	38°	1.6	↓
	LL01XP-FL100L06-M2-T	67°	0.6	↓
	LL01XP-FL3065L06-M2-T	-	-	-

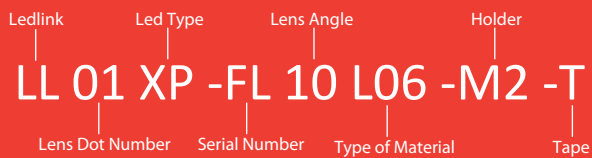
LED	Part No	FWHM	cd / lm	IES
 CREE XHP35-HI	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	14°	9.0	↓
	LL01XP-FL40L06-M2-T	27°	3.1	↓
	LL01XP-FL60L06-M2-T	37°	1.8	↓
	LL01XP-FL100L06-M2-T	61°	0.8	↓
	LL01XP-FL3065L06-M2-T	26°×32°	2.4	↓
 CREE XHP50	LL01ZZ-FL10L06-M2	-	-	-
	LL01ZZ-FL25L06-M2	-	-	-
	LL01ZZ-FL40L06-M2	29°	2.4	↓
	LL01ZZ-FL60L06-M2	-	-	-
	LL01ZZ-FL100L06-M2	-	-	-
	LL01ZZ-FL3065L06-M2	-	-	-
 CREE XML	LL01ZZ-FL10L06-M2	18°	4.7	↓
	LL01ZZ-FL25L06-M2	-	-	-
	LL01ZZ-FL40L06-M2	-	-	-
	LL01ZZ-FL60L06-M2	-	-	-
	LL01ZZ-FL100L06-M2	59°	0.8	↓
	LL01ZZ-FL3065L06-M2	-	-	-
 CREE XML2	LL01ZZ-FL10L06-M2	17°	4.2	↓
	LL01ZZ-FL25L06-M2	-	-	-
	LL01ZZ-FL40L06-M2	26°	3.1	↓
	LL01ZZ-FL60L06-M2	-	-	-
	LL01ZZ-FL100L06-M2	62°	0.7	↓
	LL01ZZ-FL3065L06-M2	24°×34°	2.3	↓
 CREE XML-EZW	LL01ZZ-FL10L06-M2	-	-	-
	LL01ZZ-FL25L06-M2	-	-	-
	LL01ZZ-FL40L06-M2	29°	2.5	↓
	LL01ZZ-FL60L06-M2	-	-	-
	LL01ZZ-FL100L06-M2	63°	0.7	↓
	LL01ZZ-FL3065L06-M2	-	-	-
 CREE XPE	LL01XP-FL10L06-M2-T	8°	15.9	↓
	LL01XP-FL25L06-M2-T	12°	11.8	↓
	LL01XP-FL40L06-M2-T	25°	3.6	↓
	LL01XP-FL60L06-M2-T	30°	2.5	↓
	LL01XP-FL100L06-M2-T	59°	0.8	↓
	LL01XP-FL3065L06-M2-T	20°×34°	2.9	↓
 CREE XPE2	LL01XP-FL10L06-M2-T	11°	13.7	↓
	LL01XP-FL25L06-M2-T	11°	13.6	↓
	LL01XP-FL40L06-M2-T	26°	3.6	↓
	LL01XP-FL60L06-M2-T	30°	2.5	↓
	LL01XP-FL100L06-M2-T	63°	0.7	↓
	LL01XP-FL3065L06-M2-T	19°×32°	3.3	↓
 CREE XPG	LL01XP-FL10L06-M2-T	12°	9.9	↓
	LL01XP-FL25L06-M2-T	13°	8.9	↓
	LL01XP-FL40L06-M2-T	23°	4.0	↓
	LL01XP-FL60L06-M2-T	33°	2.2	↓
	LL01XP-FL100L06-M2-T	63°	0.7	↓
	LL01XP-FL3065L06-M2-T	22°×35°	2.8	↓

LED	Part No	FWHM	cd / lm	IES
 CREE XP-G2	LL01XP-FL10L06-M2-T	12°	11.1	↓
	LL01XP-FL25L06-M2-T	-	-	-
	LL01XP-FL40L06-M2-T	26°	3.5	↓
	LL01XP-FL60L06-M2-T	35°	2.1	↓
	LL01XP-FL100L06-M2-T	63°	0.7	↓
	LL01XP-FL3065L06-M2-T	23°×32°	2.7	↓
 CREE XP-G3	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	15°	7.6	↓
	LL01XP-FL40L06-M2-T	28°	2.4	↓
	LL01XP-FL60L06-M2-T	39°	1.7	↓
	LL01XP-FL100L06-M2-T	58°	0.8	↓
	LL01XP-FL3065L06-M2-T	-	-	-
 CREE XPL-HD	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	15°	7.7	↓
	LL01XP-FL40L06-M2-T	25°	3.3	↓
	LL01XP-FL60L06-M2-T	38°	1.6	↓
	LL01XP-FL100L06-M2-T	67°	0.6	↓
	LL01XP-FL3065L06-M2-T	25°×33°	2.7	↓
 CREE XPL-HI	LL01XP-FL10L06-M2-T	11°	11.5	↓
	LL01XP-FL25L06-M2-T	14°	9.1	↓
	LL01XP-FL40L06-M2-T	26°	3.2	↓
	LL01XP-FL60L06-M2-T	38°	1.8	↓
	LL01XP-FL100L06-M2-T	62°	0.7	↓
	LL01XP-FL3065L06-M2-T	-	-	-
 CREE XQD	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	15°	6.3	↓
	LL01ZZ-FL40L06	25°	3.4	↓
	LL01ZZ-FL60L06	30°	2.3	↓
	LL01ZZ-FL100L06	61°	0.7	↓
	LL01ZZ-FL3065L06	22°×34°	2.5	↓
 CREE XQE-HD	LL01ZZ-FL10L06	8°	12.6	↓
	LL01ZZ-FL25L06	-	-	-
	LL01ZZ-FL40L06	24°	3.9	↓
	LL01ZZ-FL60L06	33°	2.1	↓
	LL01ZZ-FL100L06	64°	0.7	↓
	LL01ZZ-FL3065L06	-	-	-
 CREE XQE-HI	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	12°	12.8	↓
	LL01ZZ-FL40L06	27°	3.3	↓
	LL01ZZ-FL60L06	-	-	-
	LL01ZZ-FL100L06	54°	0.9	↓
	LL01ZZ-FL3065L06	-	-	-
 CREE XT-E	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	15°	7.0	↓
	LL01XP-FL40L06-M2-T	26°	3.3	↓
	LL01XP-FL60L06-M2-T	35°	2.0	↓
	LL01XP-FL100L06-M2-T	51°	1.0	↓
	LL01XP-FL3065L06-M2-T	23°×34°	2.5	↓

LED	Part No	FWHM	cd / lm	IES
 EDISON 1LA5	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	15°	7.5	↓
	LL01ZZ-FL40L06	24°	3.7	↓
	LL01ZZ-FL60L06	-	-	-
	LL01ZZ-FL100L06	70°	0.5	↓
	LL01ZZ-FL3065L06	-	-	-
 LG Innotek H35A	LL01XP-FL10L06-M2-T	12°	9.0	↓
	LL01XP-FL25L06-M2-T	14°	8.1	↓
	LL01XP-FL40L06-M2-T	24°	3.8	↓
	LL01XP-FL60L06-M2-T	37°	1.9	↓
	LL01XP-FL100L06-M2-T	-	-	-
	LL01XP-FL3065L06-M2-T	23°×34°	2.7	↓
 LUMILEDS LUXEON 3030 2D	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	14°	11.6	↓
	LL01XP-FL40L06-M2-T	26°	3.7	↓
	LL01XP-FL60L06-M2-T	32°	2.5	↓
	LL01XP-FL100L06-M2-T	-	-	-
	LL01XP-FL3065L06-M2-T	-	-	-
 LUMILEDS LUXEON 5050	LL01ZZ-FL10L06-M2	-	-	-
	LL01ZZ-FL25L06-M2	21°	4.3	↓
	LL01ZZ-FL40L06-M2	30°	2.1	↓
	LL01ZZ-FL60L06-M2	50°	1.1	↓
	LL01ZZ-FL100L06-M2	53°	0.9	↓
	LL01ZZ-FL3065L06-M2	-	-	-
 LUMILEDS LUXEON REBEL	LL01LU-FL10L06-M2-T	10°	11.2	↓
	LL01LU-FL25L06-M2-T	13°	9.0	↓
	LL01LU-FL40L06-M2-T	25°	3.6	↓
	LL01LU-FL60L06-M2-T	34°	2.0	↓
	LL01LU-FL100L06-M2-T	60°	0.8	↓
	LL01LU-FL3065L06-M2-T	24°×33°	2.6	↓
 LUMILEDS LUXEON REBEL ES	LL01LU-FL10L06-M2-T	13°	7.3	↓
	LL01LU-FL25L06-M2-T	15°	6.7	↓
	LL01LU-FL40L06-M2-T	26°	3.2	↓
	LL01LU-FL60L06-M2-T	33°	2.0	↓
	LL01LU-FL100L06-M2-T	63°	0.7	↓
	LL01LU-FL3065L06-M2-T	24°×33°	2.5	↓
 NICHIA NF2L757ART-E	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	14°	8.9	↓
	LL01XP-FL40L06-M2-T	26°	3.0	↓
	LL01XP-FL60L06-M2-T	35°	2.1	↓
	LL01XP-FL100L06-M2-T	-	-	-
	LL01XP-FL3065L06-M2-T	-	-	-
 NICHIA NVSx19B	LL01XP-FL10L06-M2-T	12°	10.1	↓
	LL01XP-FL25L06-M2-T	15°	8.8	↓
	LL01XP-FL40L06-M2-T	26°	3.2	↓
	LL01XP-FL60L06-M2-T	36°	1.9	↓
	LL01XP-FL100L06-M2-T	56°	0.9	↓
	LL01XP-FL3065L06-M2-T	21°×35°	3.2	↓

LED	Part No	FWHM	cd / lm	IES
 NICHIA NVSW219C	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	15°	8.6	↓
	LL01XP-FL40L06-M2-T	27°	3.1	↓
	LL01XP-FL60L06-M2-T	39°	1.6	↓
	LL01XP-FL100L06-M2-T	66°	0.6	↓
	LL01XP-FL3065L06-M2-T	-	-	-
 OSRAM DURIS S5	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	14°	9.0	↓
	LL01XP-FL40L06-M2-T	27°	3.1	↓
	LL01XP-FL60L06-M2-T	34°	2.2	↓
	LL01XP-FL100L06-M2-T	54°	1.0	↓
	LL01XP-FL3065L06-M2-T	-	-	-
 OSRAM DURIS S8	LL01ZZ-FL10L06	-	-	-
	LL01ZZ-FL25L06	20°	4.9	↓
	LL01ZZ-FL40L06	29°	2.3	↓
	LL01ZZ-FL60L06	45°	1.2	↓
	LL01ZZ-FL100L06	53°	0.9	↓
	LL01ZZ-FL3065L06	-	-	-
 OSRAM OSLOM SSL80	LL01XP-FL10L06-M2-T	-	-	-
	LL01XP-FL25L06-M2-T	14°	6.9	↓
	LL01XP-FL40L06-M2-T	25°	3.4	↓
	LL01XP-FL60L06-M2-T	34°	1.7	↓
	LL01XP-FL100L06-M2-T	58°	0.8	↓
	LL01XP-FL3065L06-M2-T	-	-	-
 <i>Poolight</i> Phenix 3535	LL01XP-FL10L06-M2-T	11°	10.8	↓
	LL01XP-FL25L06-M2-T	15°	8.2	↓
	LL01XP-FL40L06-M2-T	25°	3.9	↓
	LL01XP-FL60L06-M2-T	38°	1.7	↓
	LL01XP-FL100L06-M2-T	-	-	-
	LL01XP-FL3065L06-M2-T	17°x35°	3.9	↓
 SAMSUNG LH3518	LL01XP-FL10L06-M2-T	14°	7.9	↓
	LL01XP-FL25L06-M2-T	14°	9.3	↓
	LL01XP-FL40L06-M2-T	25°	3.3	↓
	LL01XP-FL60L06-M2-T	39°	1.7	↓
	LL01XP-FL100L06-M2-T	64°	0.7	↓
	LL01XP-FL3065L06-M2-T	-	-	-

Product Nomenclature



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