

## IRIS

~5° real spot beam optimized for CREE XP-E.  
Assembly with holder and installation tape.

## SPECIFICATION:

Dimensions	Ø 38.0 mm
Height	27.1 mm
Fastening	glue, tape, pin, screw
ROHS compliant	yes ⓘ



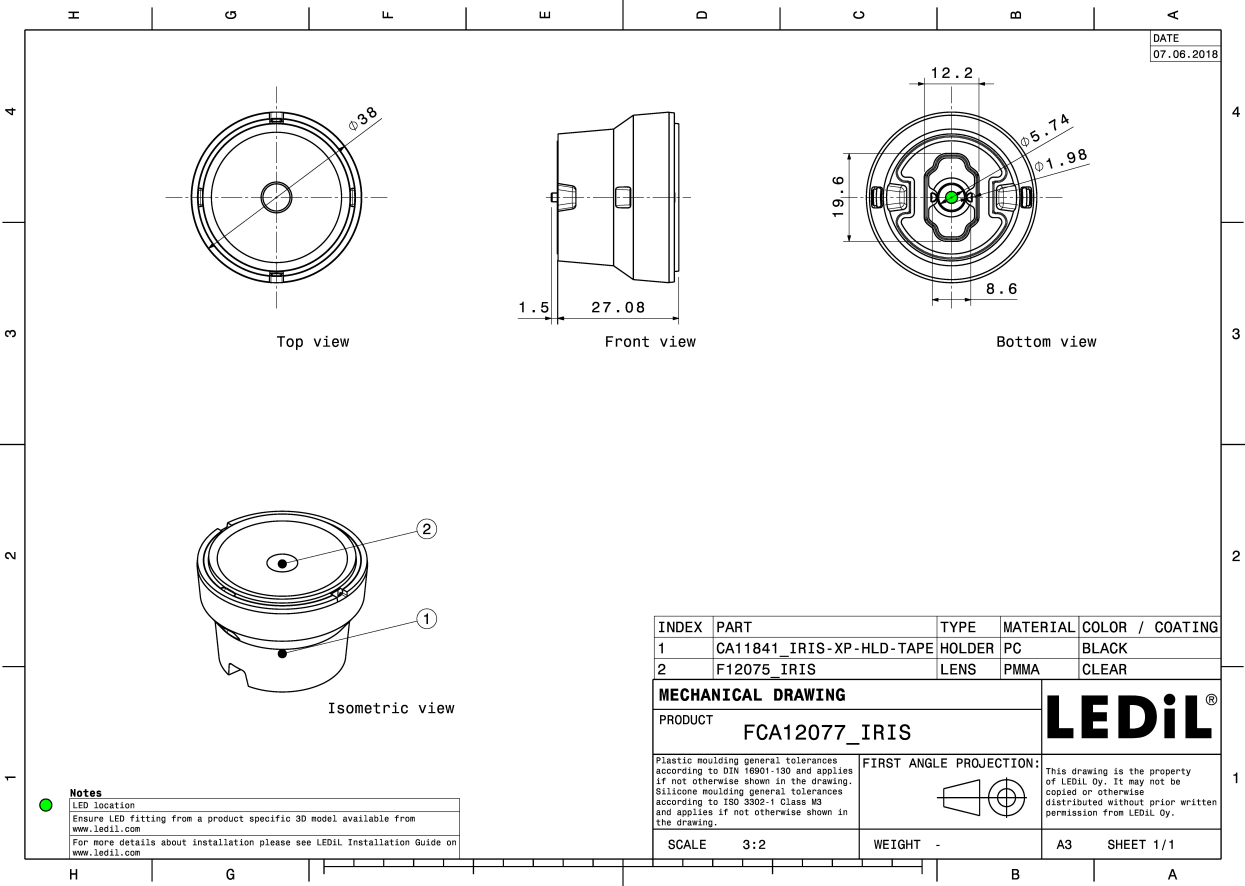
LEDiL

## MATERIALS:

Component	Type	Material	Colour	Finish	Length
IRIS	Single lens	PMMA	clear		
IRIS-XP-HLD-TAPE	Assembly	PC	black		

## ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FCA12077_IRIS	Single lens	378	126	42	8.9
» Box size: 480 x 280 x 300 mm					

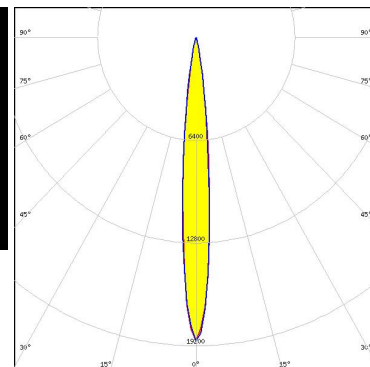


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



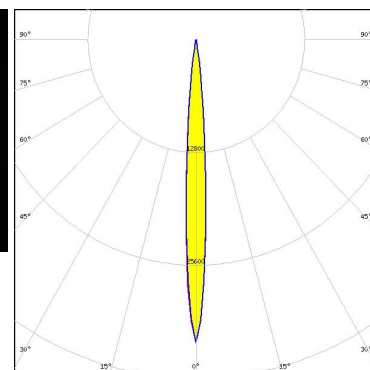
LED XHP35 HD  
FWHM / FWTM 10.0° / 23.0°  
Efficiency 89 %  
Peak intensity 18.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



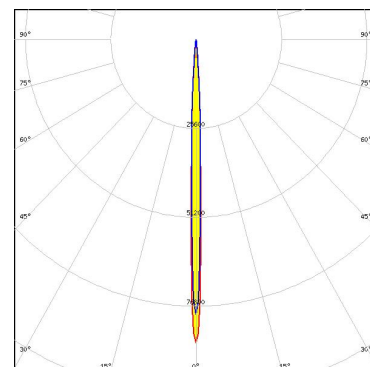
LED XHP35 HI  
FWHM / FWTM 7.6° / 17.0°  
Efficiency 90 %  
Peak intensity 35.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-E  
FWHM / FWTM 4.0° / 9.0°  
Efficiency 93 %  
Peak intensity 87.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

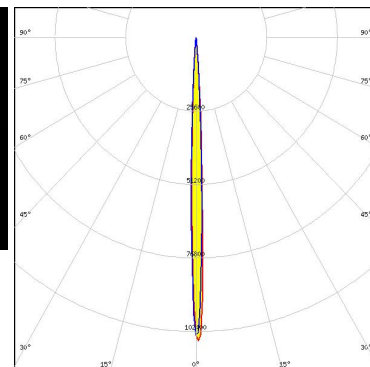


Light distribution files

### OPTICAL RESULTS (MEASURED):



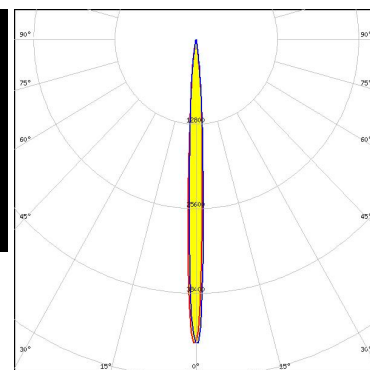
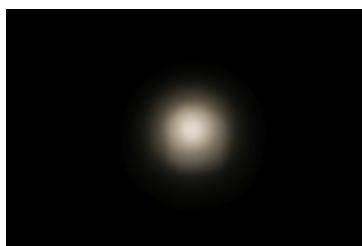
LED XP-E2  
FWHM / FWTM 5.0° / 9.0°  
Efficiency 93 %  
Peak intensity 103.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



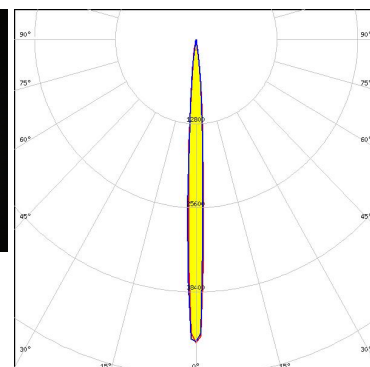
LED XP-G  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 94 %  
Peak intensity 46.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-G2  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 95 %  
Peak intensity 46 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



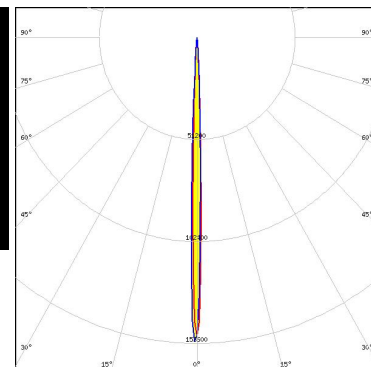
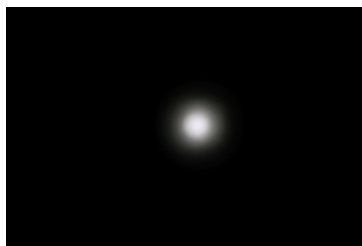
Light distribution files



### OPTICAL RESULTS (MEASURED):



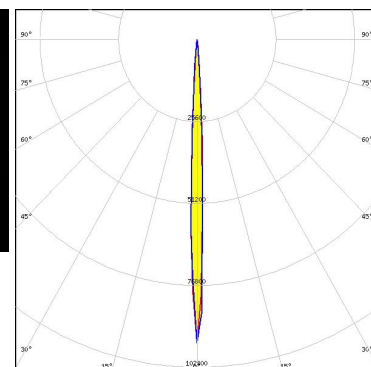
LED XP-P  
FWHM / FWTM 3.0° / 8.0°  
Efficiency 96 %  
Peak intensity 152.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



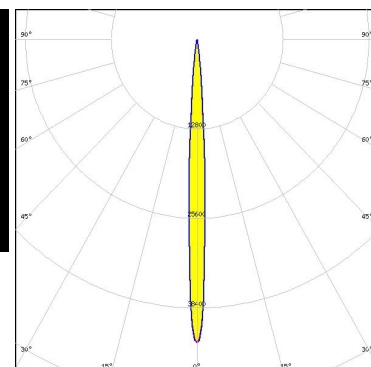
LED XQ-E HI  
FWHM / FWTM 3.9° / 9.0°  
Efficiency 88 %  
Peak intensity 123.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XT-E  
FWHM / FWTM 6.0° / 13.0°  
Efficiency 91 %  
Peak intensity 44 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

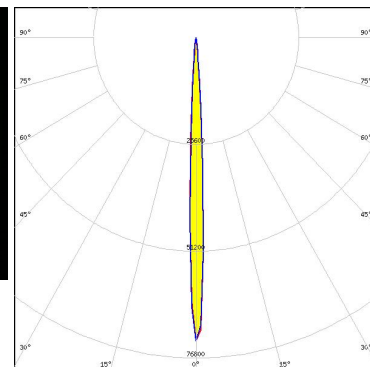


Light distribution files

### OPTICAL RESULTS (MEASURED):



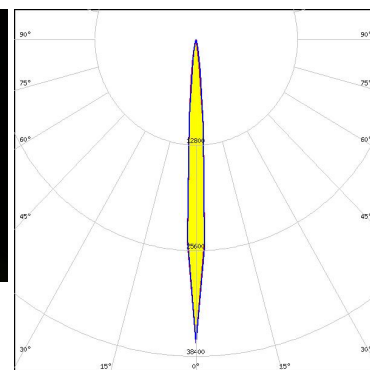
LED LUXEON Rebel  
FWHM / FWTM 5.0° / 9.0°  
Efficiency %  
Peak intensity 75.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



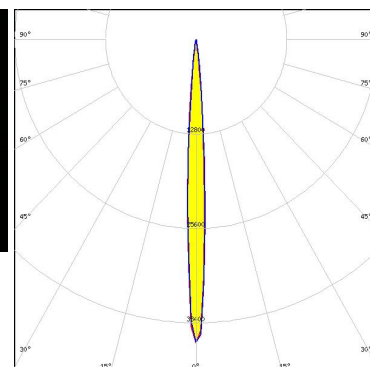
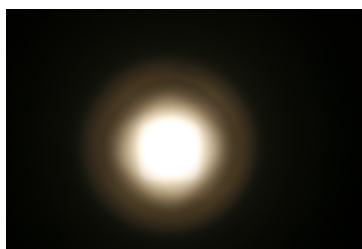
LED LUXEON Rebel ES  
FWHM / FWTM 7.0° / 14.0°  
Efficiency 93 %  
Peak intensity 38.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON T  
FWHM / FWTM 7.0° / 14.0°  
Efficiency 94 %  
Peak intensity 40.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

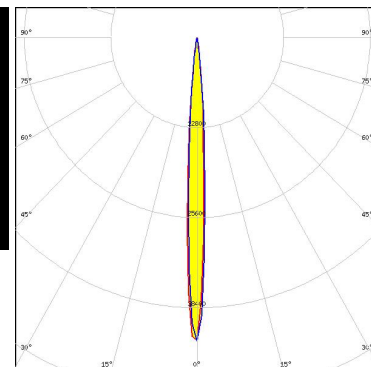


Light distribution files

#### OPTICAL RESULTS (MEASURED):



LED LUXEON TX  
FWHM / FWTM 6.9° / 15.0°  
Efficiency 89 %  
Peak intensity 43.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

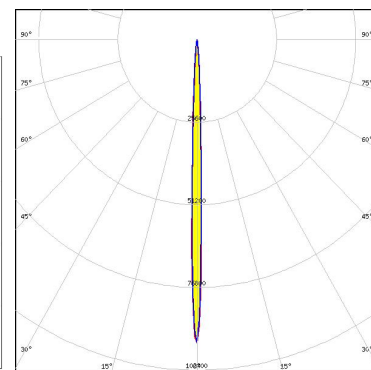
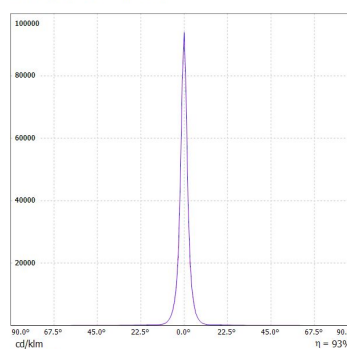


Light distribution files



LED LUXEON Z ES  
FWHM / FWTM 4.0° / 9.0°  
Efficiency 93 %  
Peak intensity 94.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Luminaire: LEDiL Oy FCA12077\_IRIS\_Z\_ES  
Lamps: 1 x Philips Lumileds Luxeon Z ES (LX22-S070)  
84 6520lm@250mA, P=0.73W@30V, I=240 mA



Light distribution files



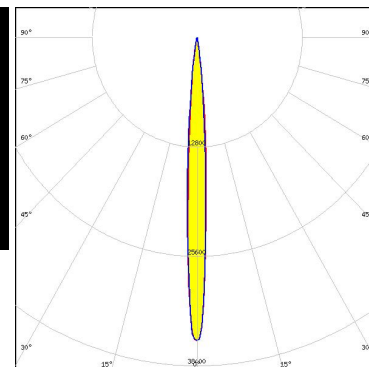
LED NCSxx19A  
FWHM / FWTM 5.0° / 11.0°  
Efficiency %  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

#### OPTICAL RESULTS (MEASURED):



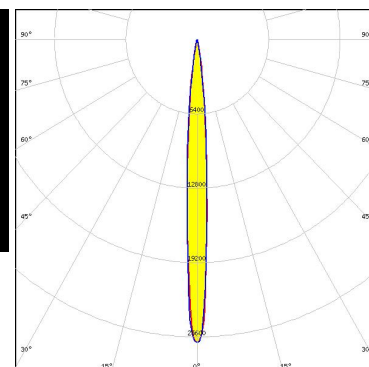
LED NVSW219F  
FWHM / FWTM 7.0° / 16.0°  
Efficiency 94 %  
Peak intensity 35.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



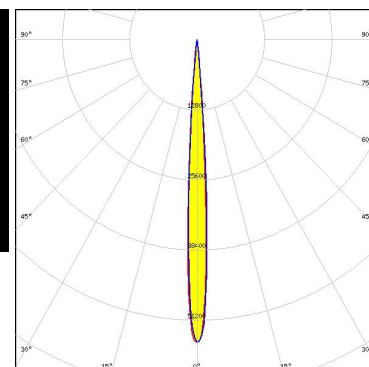
LED NVSW3x9A  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 89 %  
Peak intensity 26.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSW719AC  
FWHM / FWTM 7.0° / 11.0°  
Efficiency 91 %  
Peak intensity 55.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### OPTICAL RESULTS (MEASURED):

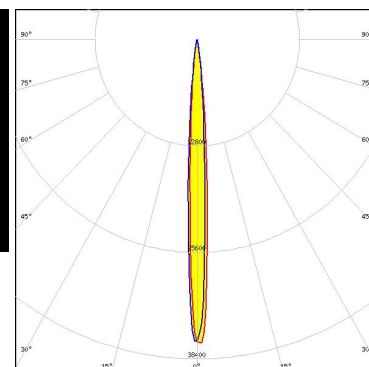


LED NVSxx19A  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 93 %  
 Peak intensity 38.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



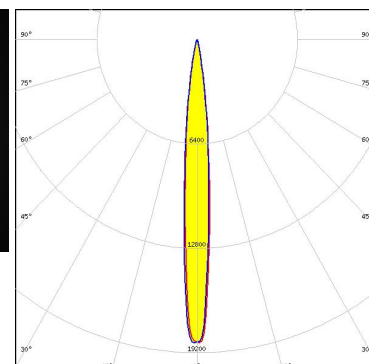
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 7.0° / 15.0°  
 Efficiency 92 %  
 Peak intensity 36.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NWSx229A  
 FWHM / FWTM 10.0° / 21.0°  
 Efficiency 91 %  
 Peak intensity 18.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

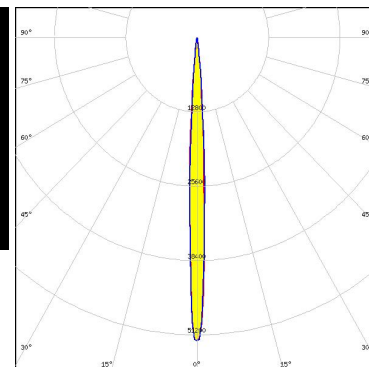


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

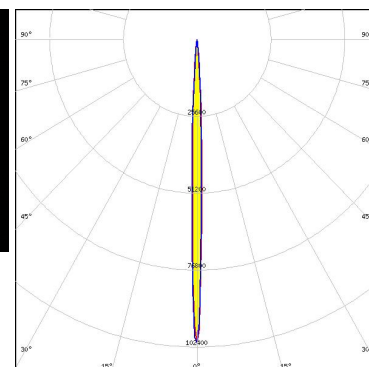
LED OSLON Square EC  
FWHM / FWTM 6.0° / 12.0°  
Efficiency 92 %  
Peak intensity 52 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM / FWTM 4.0° / 9.0°  
Efficiency 94 %  
Peak intensity 101 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

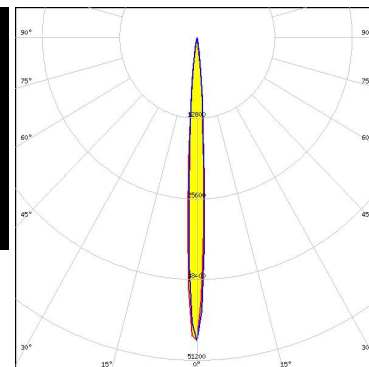
LED OSLON SSL 80  
FWHM / FWTM 4.0° / 9.0°  
Efficiency 90 %  
Peak intensity 89 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

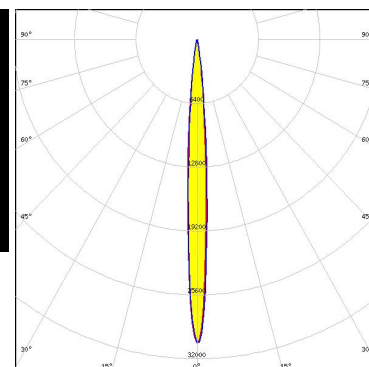
LED LH351Z  
FWHM / FWTM 7.0° / 15.0°  
Efficiency 89 %  
Peak intensity 48.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED Z5M3  
FWHM / FWTM 7.0° / 16.0°  
Efficiency 92 %  
Peak intensity 30 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

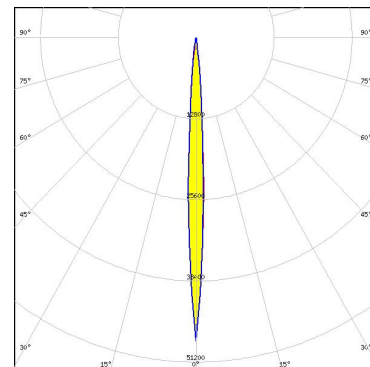


Light distribution files

### OPTICAL RESULTS (SIMULATED):



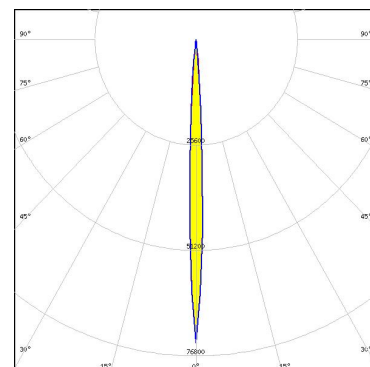
LED XD16  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 91 %  
Peak intensity 47.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



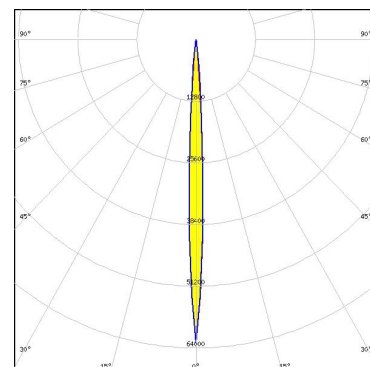
LED XE-G  
FWHM / FWTM 6.0° / 12.0°  
Efficiency 92 %  
Peak intensity 73.6 cd/lm  
LEDs/each optic 1  
Light colour/type Royal Blue  
Required components:



Light distribution files



LED XE-G  
FWHM / FWTM 6.0° / 12.0°  
Efficiency 92 %  
Peak intensity 62.9 cd/lm  
LEDs/each optic 1  
Light colour/type Red  
Required components:



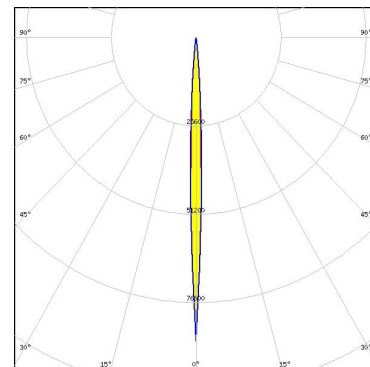
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



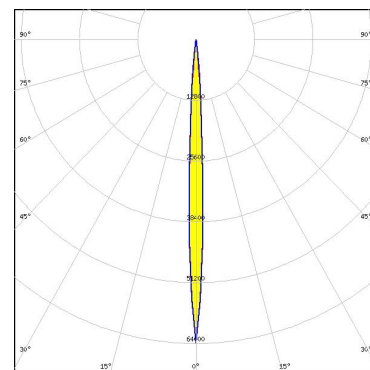
LED XE-G  
 FWHM / FWTM 4.0° / 10.0°  
 Efficiency 91 %  
 Peak intensity 87.9 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



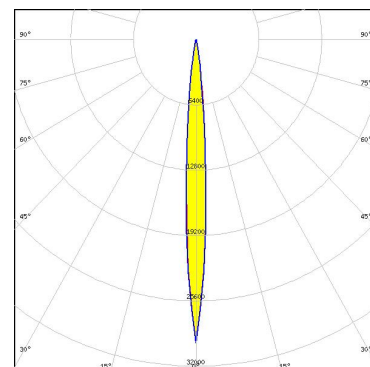
LED XE-G  
 FWHM / FWTM 6.0° / 12.0°  
 Efficiency 93 %  
 Peak intensity 63.9 cd/m  
 LEDs/each optic 1  
 Light colour/type Red  
 Required components:



Light distribution files



LED XP-G2 HE  
 FWHM / FWTM 8.0° / 18.0°  
 Efficiency 92 %  
 Peak intensity 29.7 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

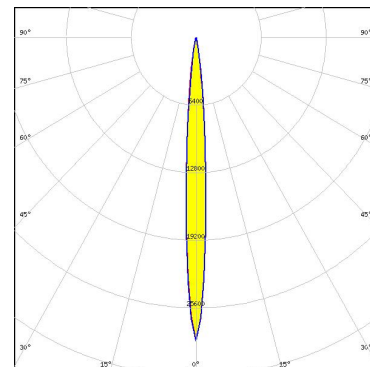


Light distribution files

### OPTICAL RESULTS (SIMULATED):



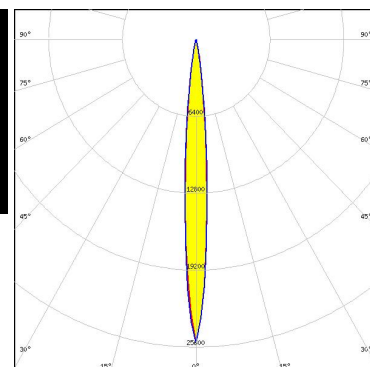
LED XP-G3  
FWHM / FWTM 7.7° / 18.0°  
Efficiency 91 %  
Peak intensity 28.7 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



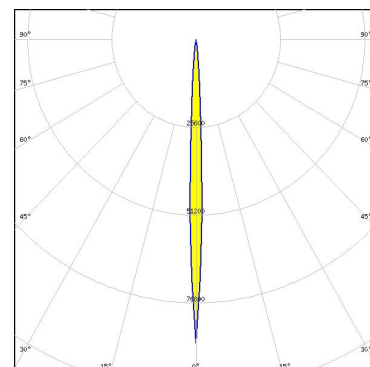
LED XP-L HD  
FWHM / FWTM 8.6° / 19.0°  
Efficiency 93 %  
Peak intensity 25.3 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-P  
FWHM / FWTM 4.0° / 10.0°  
Efficiency 93 %  
Peak intensity 88.5 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:

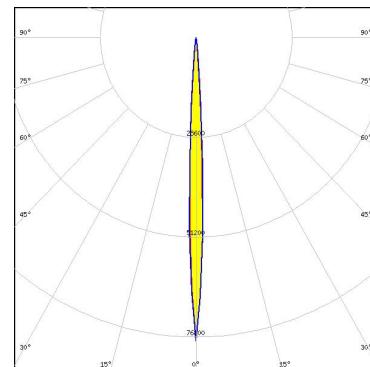


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



LED XQ-E HD  
 FWHM / FWTM 5.3° / 11.0°  
 Efficiency 94 %  
 Peak intensity 77.8 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

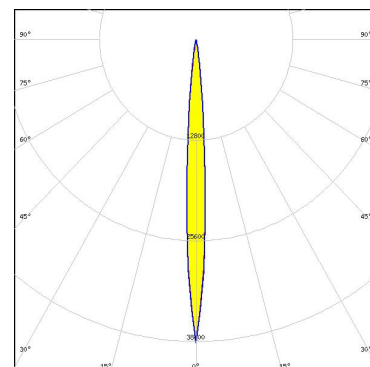


LED XQ-E HD  
 FWHM / FWTM 5.0° / 11.5°  
 Efficiency 93 %  
 Peak intensity 80 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



LED LUXEON H50-2  
 FWHM / FWTM 7.0° / 15.0°  
 Efficiency 94 %  
 Peak intensity 38.6 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED	LUXEON HL2Z
FWHM / FWTM	6.0° / 14.0°
Efficiency	93 %
Peak intensity	54.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

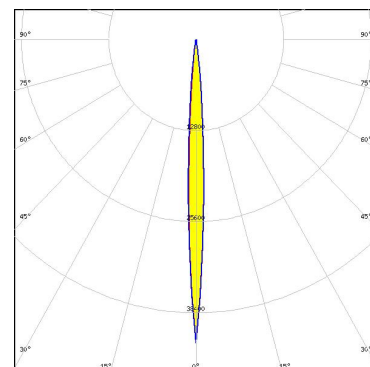


LED	LUXEON Rubix
FWHM / FWTM	4.0° / 8.0°
Efficiency	92 %
Peak intensity	130.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files



LED	LUXEON SunPlus 20 Line (150 deg)
FWHM / FWTM	6.0° / 14.0°
Efficiency	90 %
Peak intensity	42.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

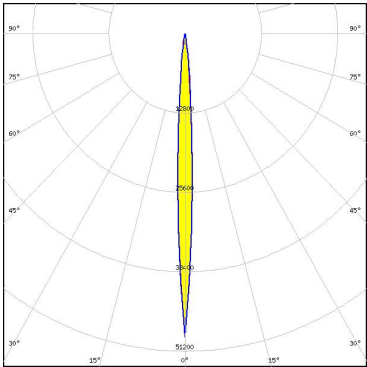


Light distribution files

OPTICAL RESULTS (SIMULATED):



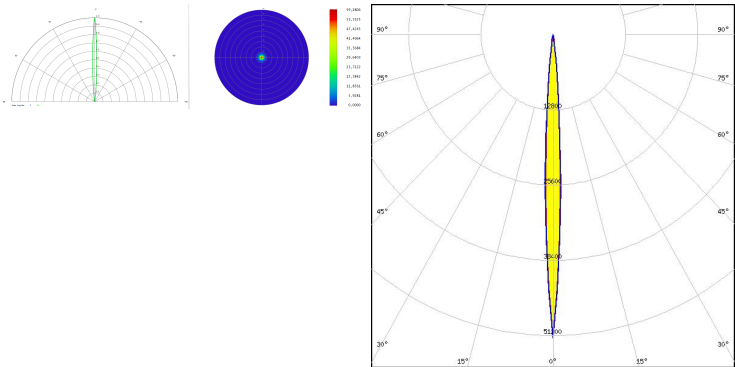
LED LUXEON SunPlus 35 Line  
FWHM / FWTM 6.0° / 15.0°  
Efficiency 94 %  
Peak intensity 49.9 cd/m  
LEDs/each optic 1  
Light colour/type Blue  
Required components:



Light distribution files



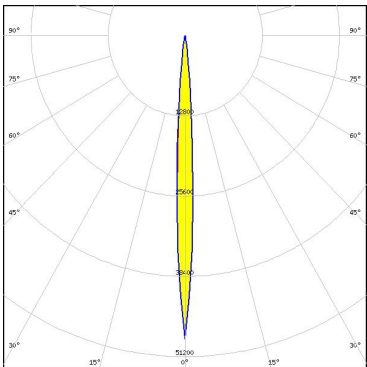
LED SST-10-B130  
FWHM / FWTM 6.0° / 13.0°  
Efficiency 94 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files



LED SST-20  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 93 %  
Peak intensity 48.4 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:

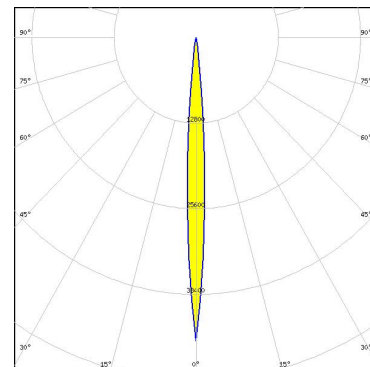


Light distribution files

### OPTICAL RESULTS (SIMULATED):



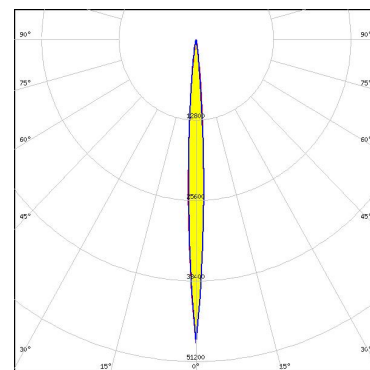
LED NVSW719AC  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 94 %  
Peak intensity 45.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



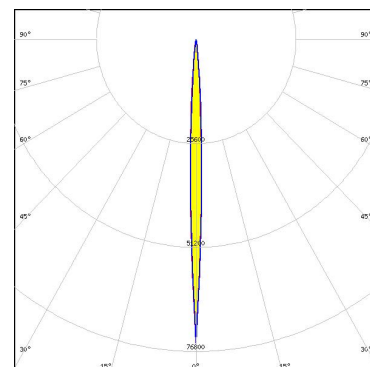
LED Duris S5 (Single chip)  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 94 %  
Peak intensity 48.2 cd/lm  
LEDs/each optic 1  
Light colour/type Yellow  
Required components:



Light distribution files



LED Duris S5 (Single chip)  
FWHM / FWTM 4.0° / 12.0°  
Efficiency 93 %  
Peak intensity 74.7 cd/lm  
LEDs/each optic 1  
Light colour/type Red  
Required components:

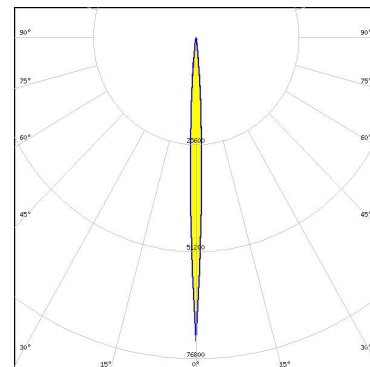


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

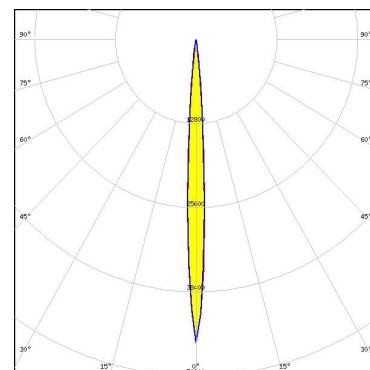
LED Duris S5 (Single chip)  
FWHM / FWTM 4.0° / 12.0°  
Efficiency 93 %  
Peak intensity 72.5 cd/lm  
LEDs/each optic 1  
Light colour/type Green  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

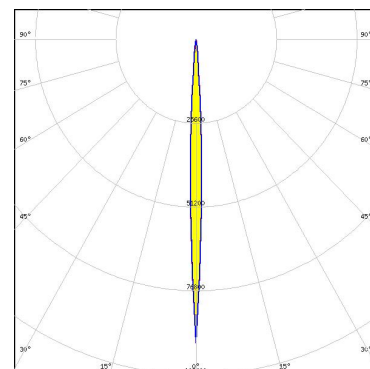
LED OSCONIQ P 3737 (2W version)  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 94 %  
Peak intensity 46.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM Black Flat (LUW HWQP)  
FWHM / FWTM 4.2° / 10.0°  
Efficiency 94 %  
Peak intensity 92 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

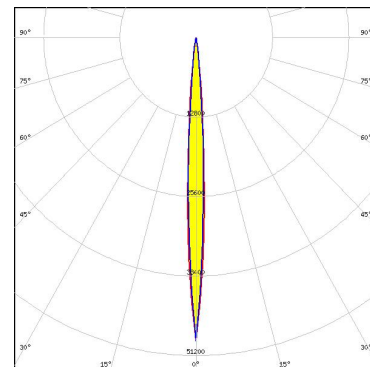


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

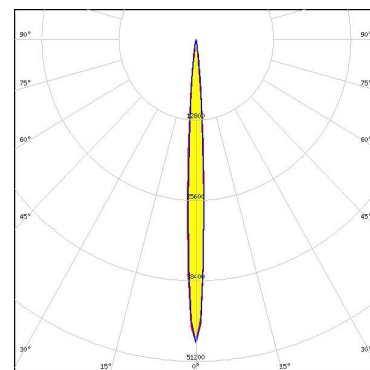
LED OSLON Black Flat (LUW HWQP)  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 94 %  
Peak intensity 48.9 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

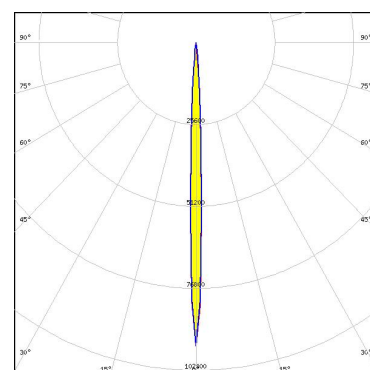
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 6.4° / 14.0°  
Efficiency 94 %  
Peak intensity 48.3 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSTAR Projection Compact (KW.CSLNM1.TG)  
FWHM / FWTM 4.0° / 10.0°  
Efficiency 93 %  
Peak intensity 94.8 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



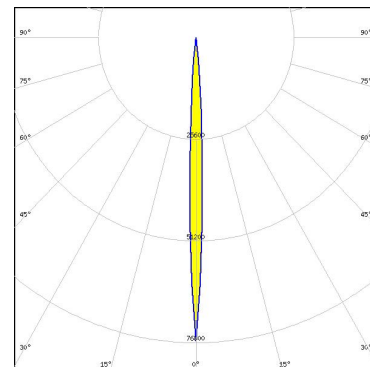
Light distribution files



### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

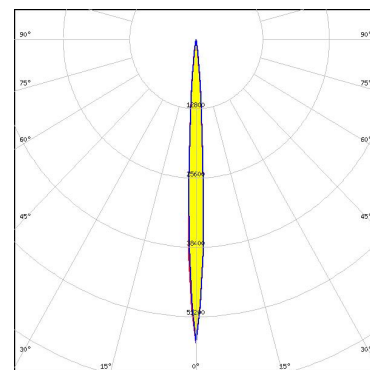
LED OSTAR Projection Compact (KW.CSLNM1.TG)  
FWHM / FWTM 6.0° / 12.0°  
Efficiency 94 %  
Peak intensity 76.4 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

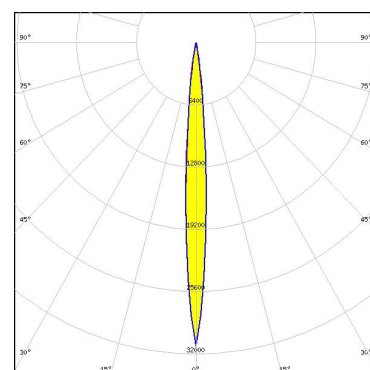
LED SFH 4716AS  
FWHM / FWTM 6.0° / 12.0°  
Efficiency 94 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**SAMSUNG**

LED LH351C  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 93 %  
Peak intensity 31.2 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:

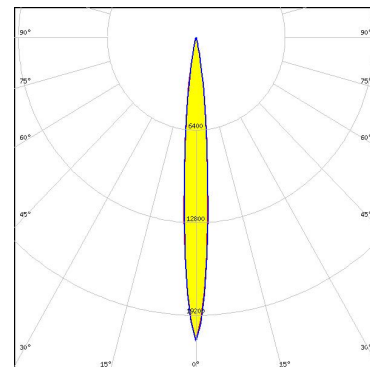


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

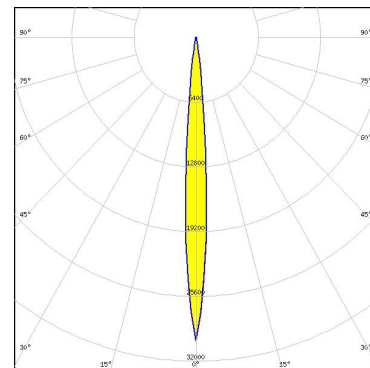
LED LH351D  
FWHM / FWTM 9.3° / 21.0°  
Efficiency 90 %  
Peak intensity 21 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED Z8Y22P  
FWHM / FWTM 8.0°  
Efficiency 98 %  
Peak intensity 29.9 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

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