

## OLGA-S

~11° spot beam. Assembly with holder and installation tape.

## SPECIFICATION:

Dimensions	Ø 32.0
Height	19.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

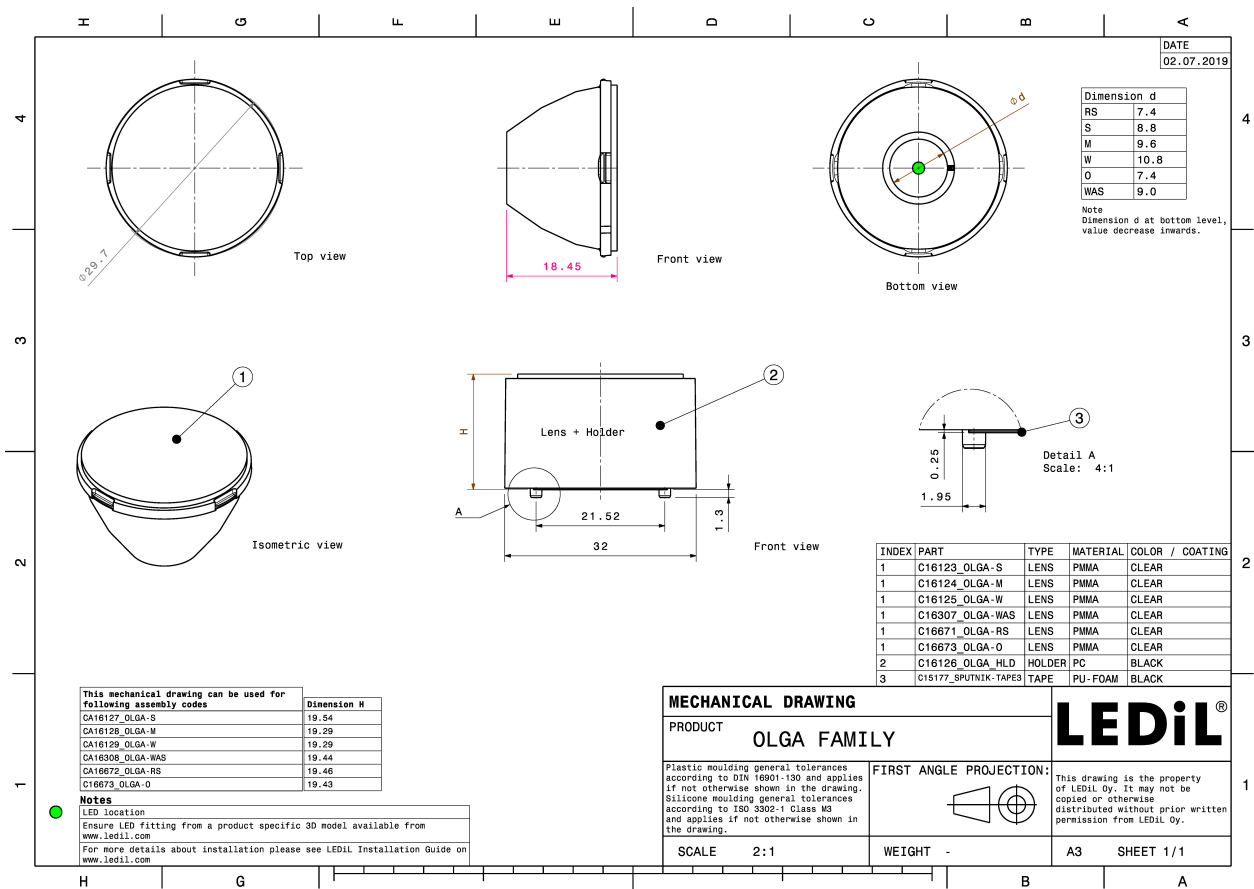


## MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
OLGA-HLD2	Holder	PC	black		
OLGA-S	Single lens	PMMA	clear		
SPUTNIK-TAPE3	Tape	Acryl tape	black		

## ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA16127_OLGA-S » Box size: 476 x 273 x 292 mm	792	132	66	9.8

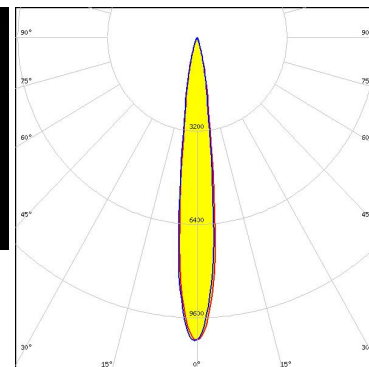


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



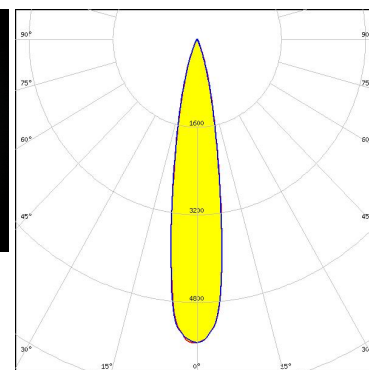
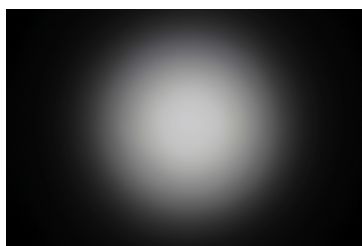
LED XD16  
FWHM / FWTM 13.0° / 28.0°  
Efficiency 82 %  
Peak intensity 10.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



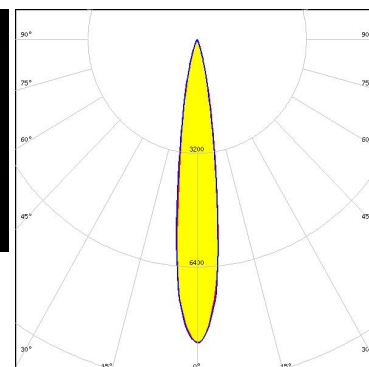
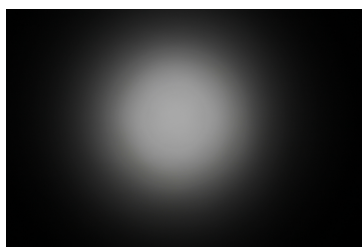
LED XHP35 HD  
FWHM / FWTM 19.0° / 37.0°  
Efficiency 83 %  
Peak intensity 5.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XHP35 HI  
FWHM / FWTM 15.0° / 31.0°  
Efficiency 87 %  
Peak intensity 8.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

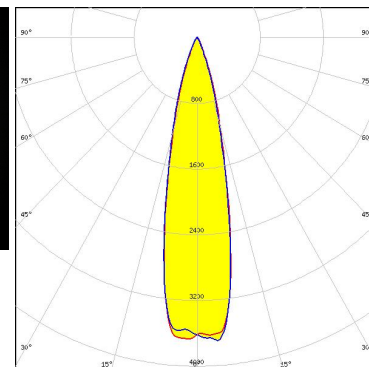
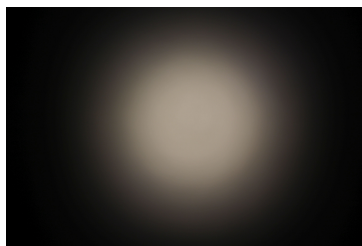


Light distribution files

### OPTICAL RESULTS (MEASURED):



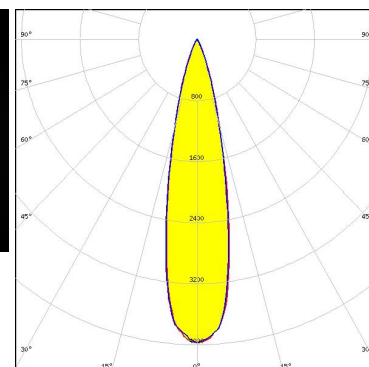
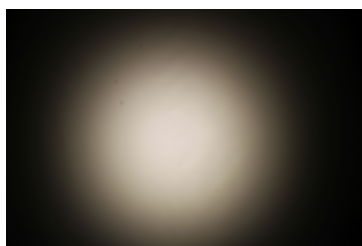
LED XHP50  
FWHM / FWTM 24.0° / 44.0°  
Efficiency 83 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



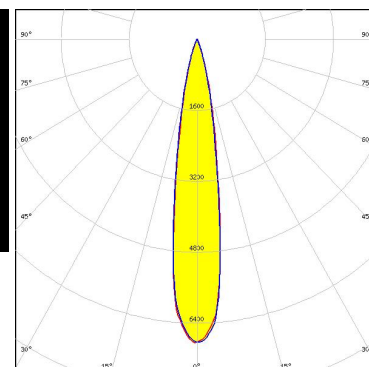
LED XHP50.2  
FWHM / FWTM 23.0° / 43.0°  
Efficiency 82 %  
Peak intensity 4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XM-L  
FWHM / FWTM 17.0° / 34.0°  
Efficiency 86 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



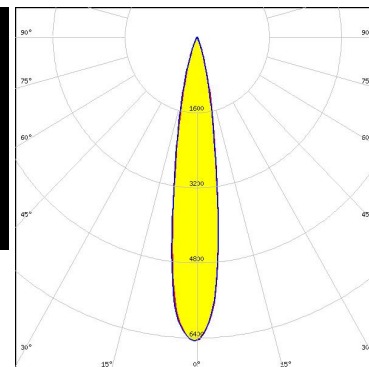
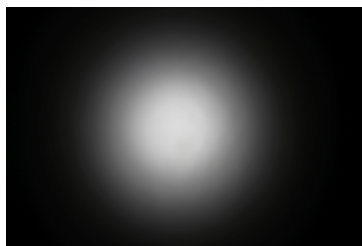
Light distribution files



### OPTICAL RESULTS (MEASURED):



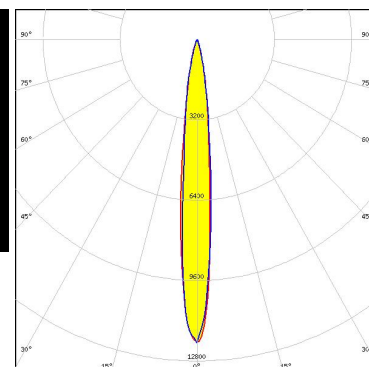
LED XM-L3  
FWHM / FWTM 17.0° / 35.0°  
Efficiency 85 %  
Peak intensity 6.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



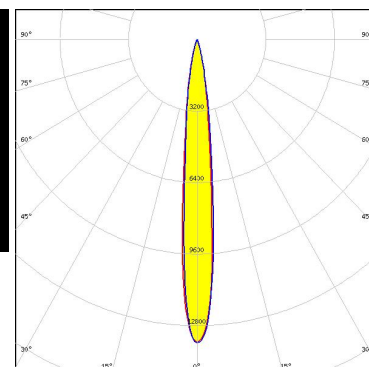
LED XP-E  
FWHM / FWTM 11.0° / 27.0°  
Efficiency 87 %  
Peak intensity 12.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-E2  
FWHM / FWTM 11.0° / 26.0°  
Efficiency 89 %  
Peak intensity 13.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

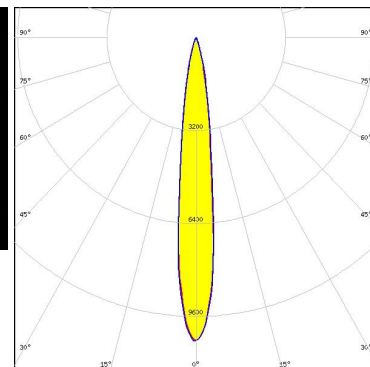


Light distribution files

### OPTICAL RESULTS (MEASURED):



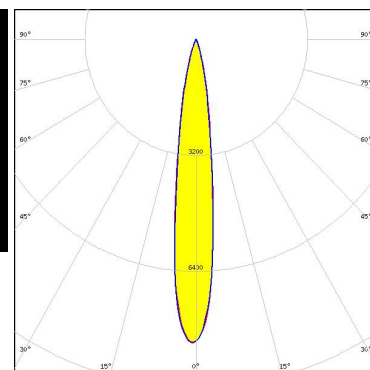
LED XP-G2  
FWHM / FWTM 13.0° / 29.0°  
Efficiency 87 %  
Peak intensity 10 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



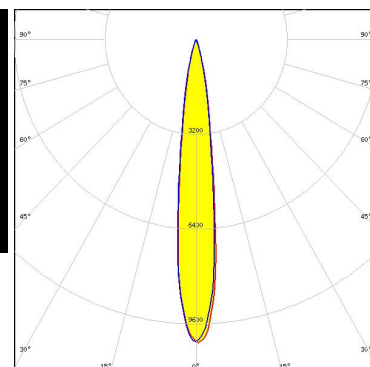
LED XP-G3  
FWHM / FWTM 14.0° / 31.0°  
Efficiency 86 %  
Peak intensity 8.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-L HI  
FWHM / FWTM 14.0° / 29.0°  
Efficiency 88 %  
Peak intensity 10.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

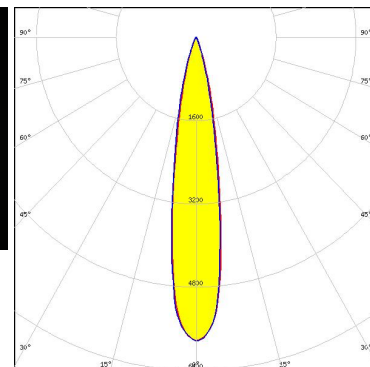
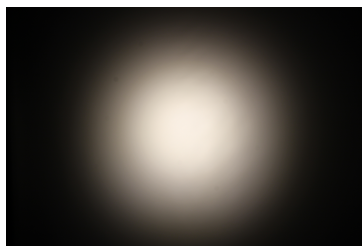


Light distribution files

### OPTICAL RESULTS (MEASURED):



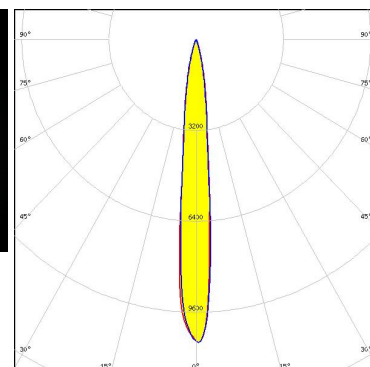
LED XP-L2  
FWHM / FWTM 18.0° / 36.0°  
Efficiency 82 %  
Peak intensity 5.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



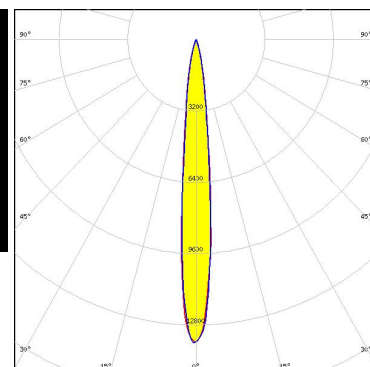
LED XQ-E HD  
FWHM / FWTM 11.0° / 28.0°  
Efficiency 81 %  
Peak intensity 11 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XQ-E HI  
FWHM / FWTM 11.0° / 26.0°  
Efficiency 86 %  
Peak intensity 13.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

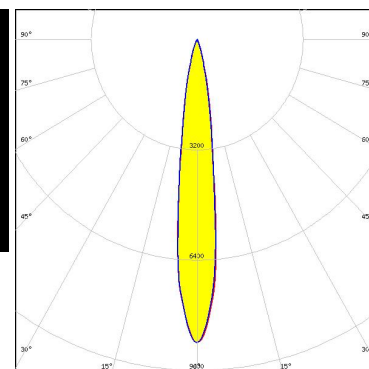
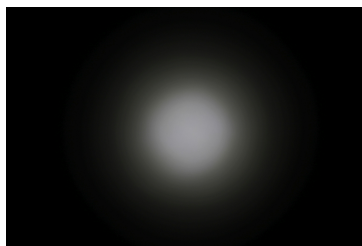


Light distribution files

### OPTICAL RESULTS (MEASURED):



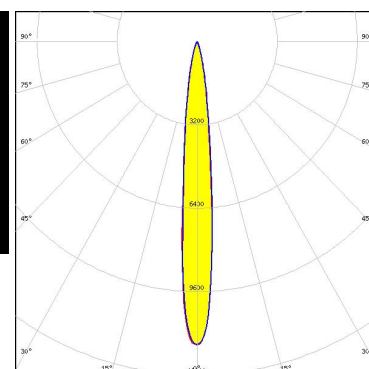
LED XT-E  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 84 %  
Peak intensity 8.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



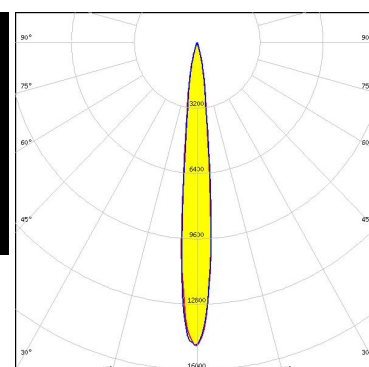
LED LUXEON C  
FWHM / FWTM 11.0° / 27.0°  
Efficiency 84 %  
Peak intensity 11.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON CZ  
FWHM / FWTM 11.0° / 25.0°  
Efficiency 89 %  
Peak intensity 14.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

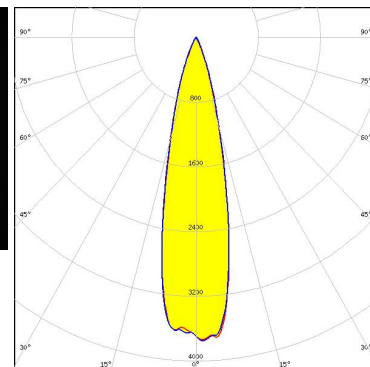
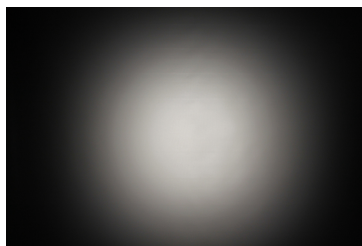


Light distribution files

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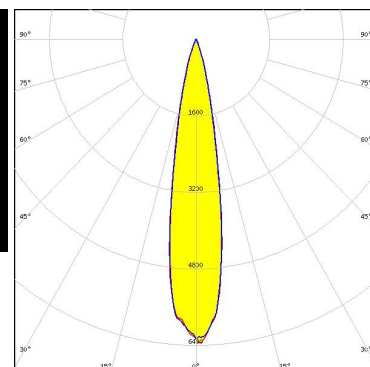
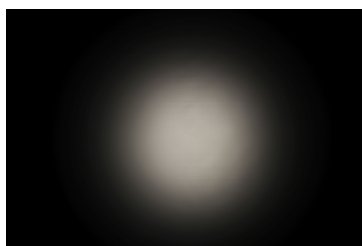
LED LUXEON M/MX  
FWHM / FWTM 24.0° / 44.0°  
Efficiency 84 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



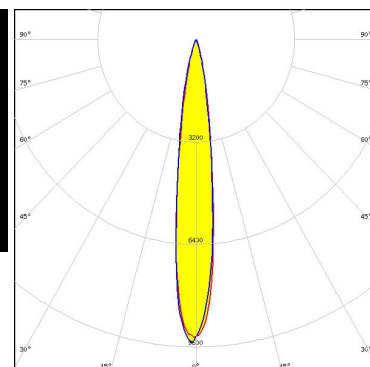
LED LUXEON MZ  
FWHM / FWTM 19.0° / 35.0°  
Efficiency 86 %  
Peak intensity 6.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON Rebel ES  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 86 %  
Peak intensity 9.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

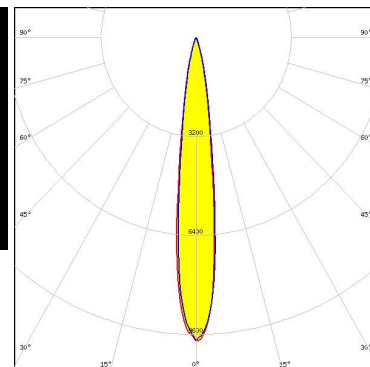


Light distribution files

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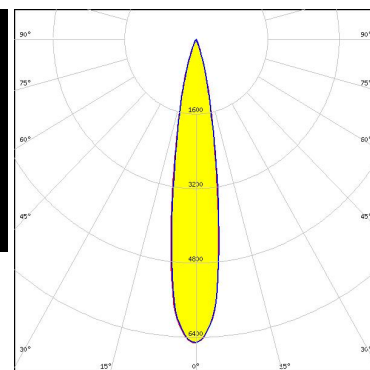
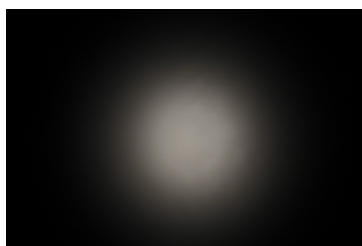
LED LUXEON TX  
FWHM / FWTM 14.0° / 29.0°  
Efficiency 86 %  
Peak intensity 9.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



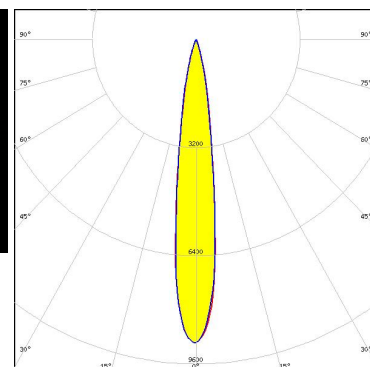
LED LUXEON V  
FWHM / FWTM 18.0° / 35.0°  
Efficiency 84 %  
Peak intensity 6.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON V2  
FWHM / FWTM 15.0° / 31.0°  
Efficiency 86 %  
Peak intensity 9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



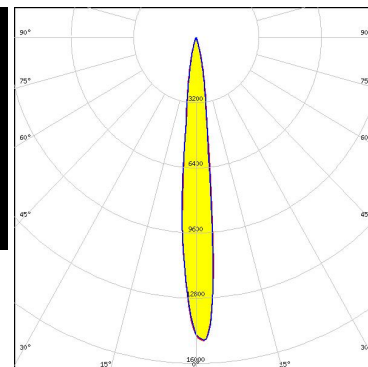
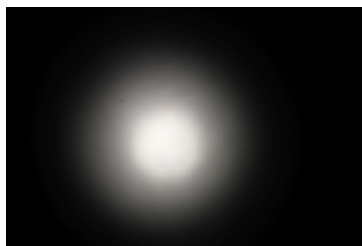
Light distribution files



### OPTICAL RESULTS (MEASURED):



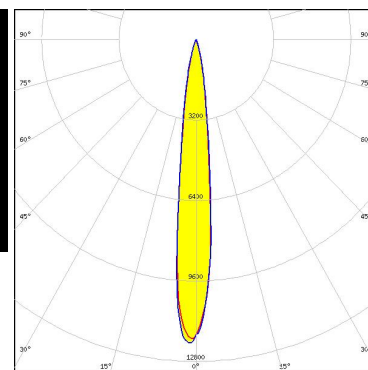
LED LUXEON Z  
FWHM / FWTM 11.0° / 25.0°  
Efficiency 88 %  
Peak intensity 15.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



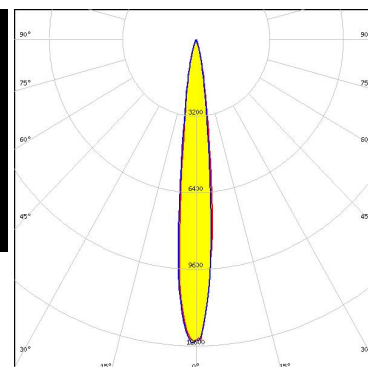
LED LUXEON Z ES  
FWHM / FWTM 12.0° / 27.0°  
Efficiency 89 %  
Peak intensity 12.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NCSxE17A  
FWHM / FWTM 12.0° / 26.0°  
Efficiency 87 %  
Peak intensity 12.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



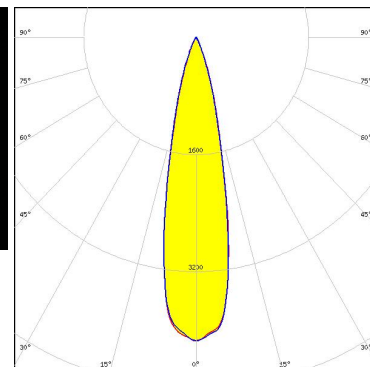
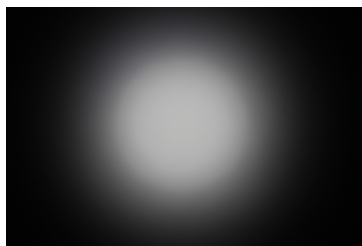
Light distribution files



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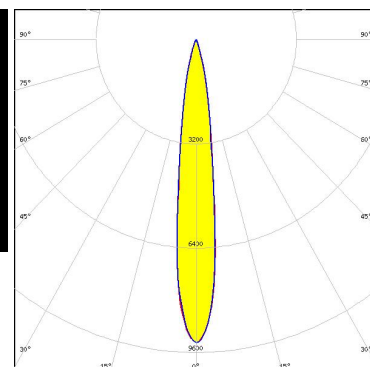
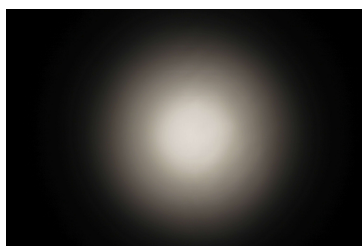
LED NV4x144A  
FWHM / FWTM 23.0° / 43.0°  
Efficiency 84 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



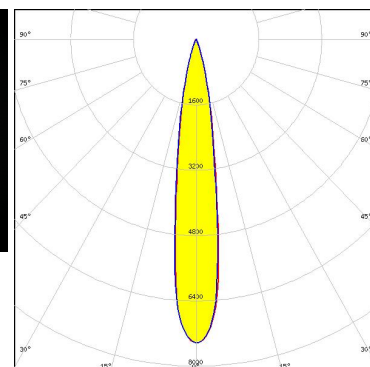
LED NVSW219D  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 85 %  
Peak intensity 9.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSW319B  
FWHM / FWTM 16.0° / 33.0°  
Efficiency 86 %  
Peak intensity 7.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

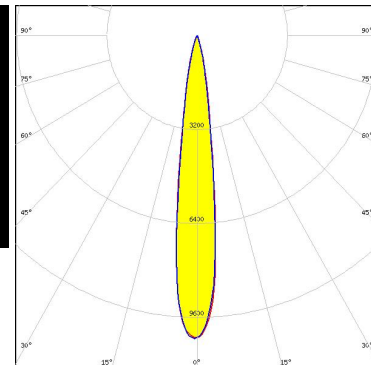


Light distribution files

### OPTICAL RESULTS (MEASURED):



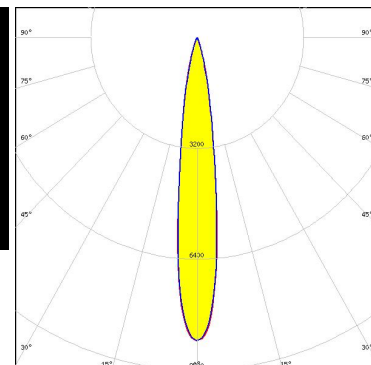
LED NVSxE21A  
FWHM / FWTM 14.0° / 28.0°  
Efficiency 87 %  
Peak intensity 10.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



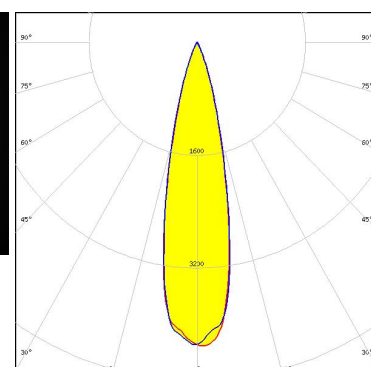
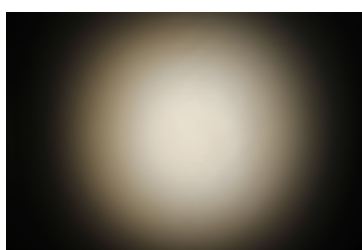
LED NVSxx19B/NVSxx19C  
FWHM / FWTM 15.0° / 31.0°  
Efficiency 85 %  
Peak intensity 8.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED Duris S8  
FWHM / FWTM 24.0° / 43.0°  
Efficiency 86 %  
Peak intensity 4.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

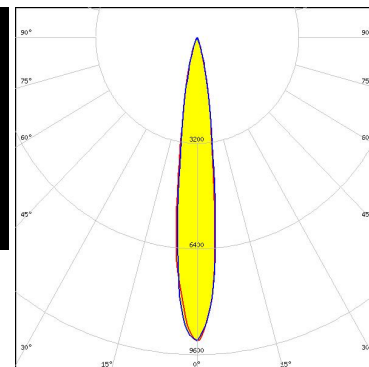
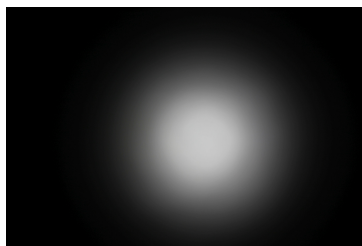


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

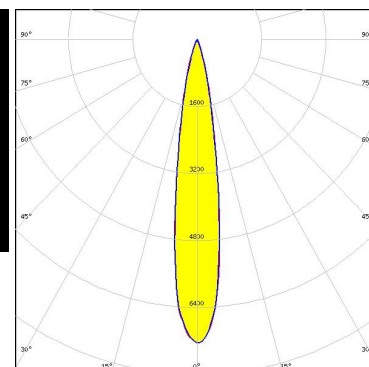
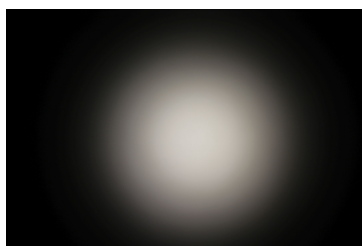
LED OSCONIQ P 3737 (2W) PUSRA1  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 87 %  
Peak intensity 9.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

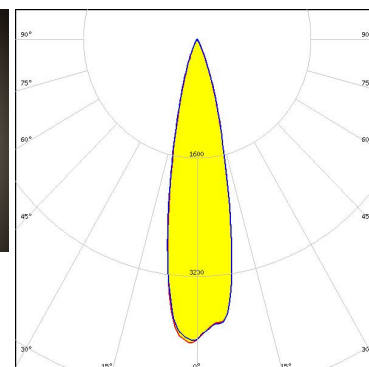
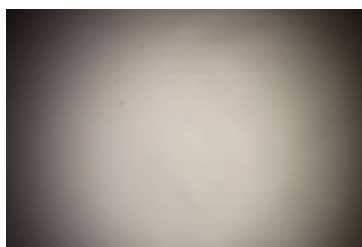
LED OSCONIQ P 3737 (3W) PUSTA1  
FWHM / FWTM 17.0° / 33.0°  
Efficiency 86 %  
Peak intensity 7.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 7070  
FWHM / FWTM 23.0° / 42.0°  
Efficiency 84 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

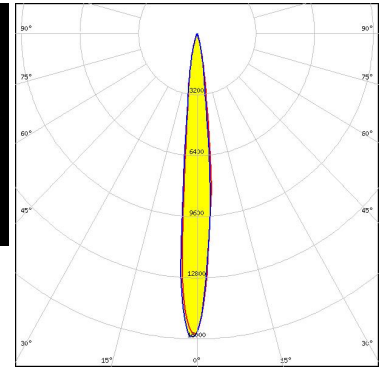


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

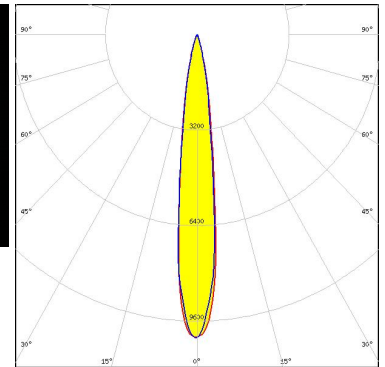
LED OSLON Black Flat (LUW HWQP)  
FWHM / FWTM 11.0° / 24.0°  
Efficiency 88 %  
Peak intensity 16 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

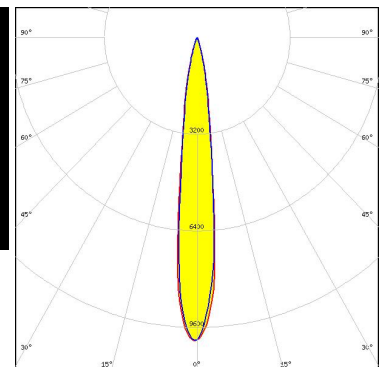
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 87 %  
Peak intensity 10.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON Square EC  
FWHM / FWTM 13.0° / 29.0°  
Efficiency 85 %  
Peak intensity 10 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

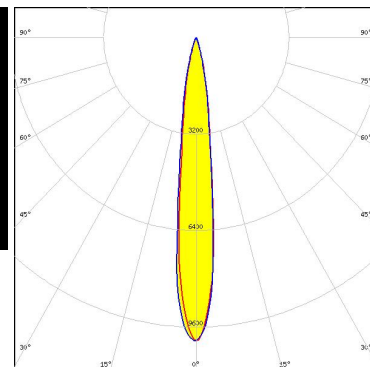


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

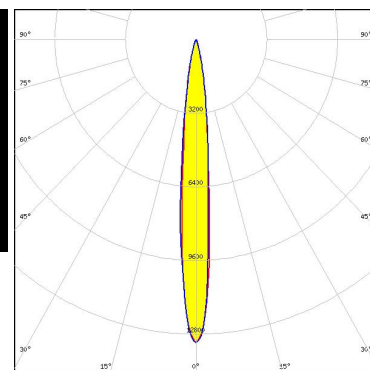
LED OSLON Square PC  
FWHM / FWTM 13.0° / 30.0°  
Efficiency 85 %  
Peak intensity 10.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

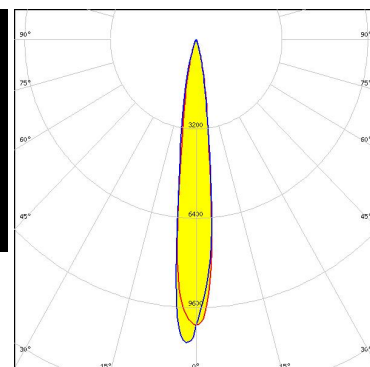
LED OSLON SSL 150  
FWHM / FWTM 11.0° / 26.0°  
Efficiency 87 %  
Peak intensity 13 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 80  
FWHM / FWTM 13.0° / 28.0°  
Efficiency 86 %  
Peak intensity 11.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

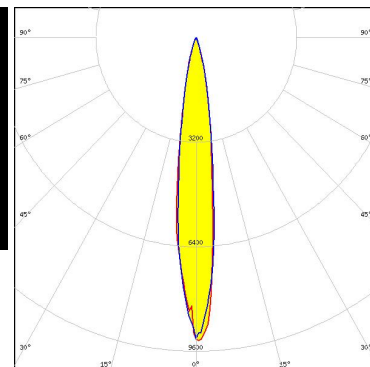
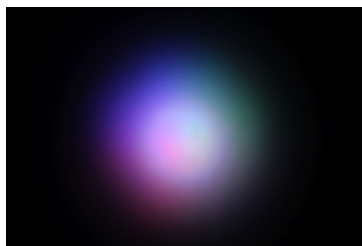


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

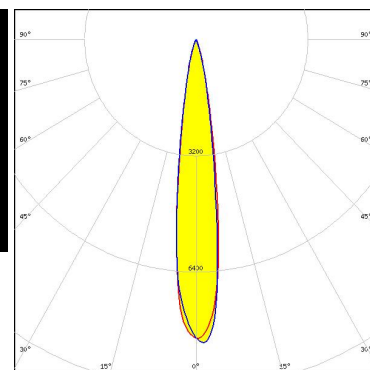
LED OSTAR Stage (S2WN)  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 86 %  
Peak intensity 9.3 cd/lm  
LEDs/each optic 1  
Light colour/type RGBW  
Required components:



Light distribution files

**SAMSUNG**

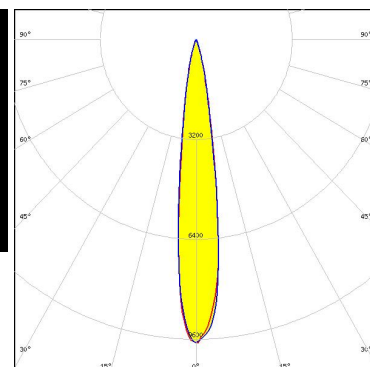
LED LH181A  
FWHM / FWTM 15.0° / 30.0°  
Efficiency 81 %  
Peak intensity 8.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED LH181B  
FWHM / FWTM 15.0° / 29.0°  
Efficiency 87 %  
Peak intensity 9.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



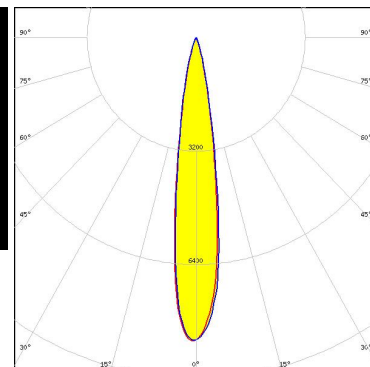
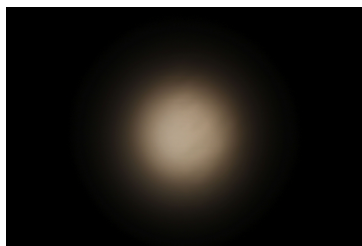
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

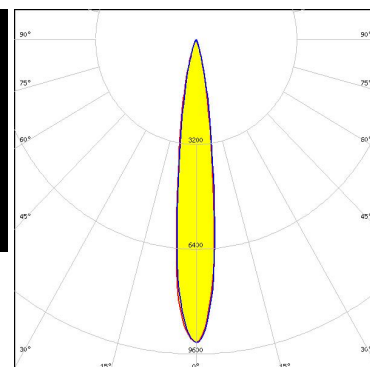
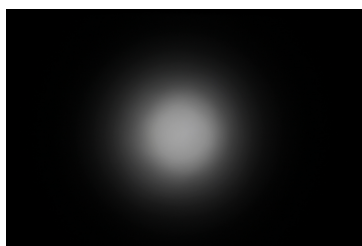
LED LH231B  
FWHM / FWTM 16.0° / 31.0°  
Efficiency 88 %  
Peak intensity 8.6 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

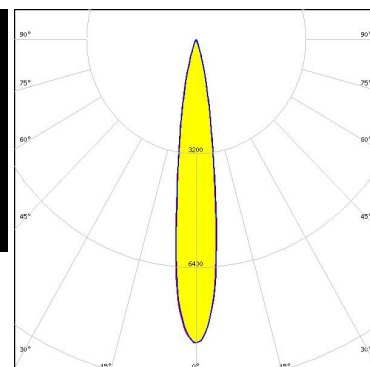
LED LH351B  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 87 %  
Peak intensity 9.3 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED LH351C  
FWHM / FWTM 15.0° / 31.0°  
Efficiency 86 %  
Peak intensity 8.5 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



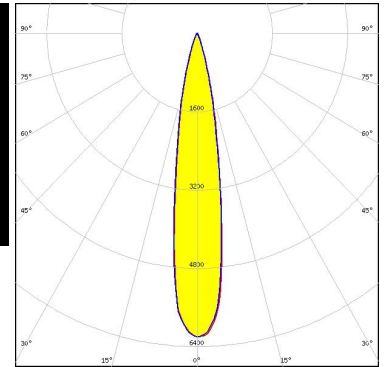
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

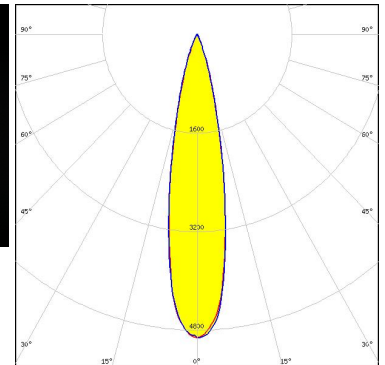
LED LH351D  
FWHM / FWTM 18.0° / 36.0°  
Efficiency 85 %  
Peak intensity 6.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

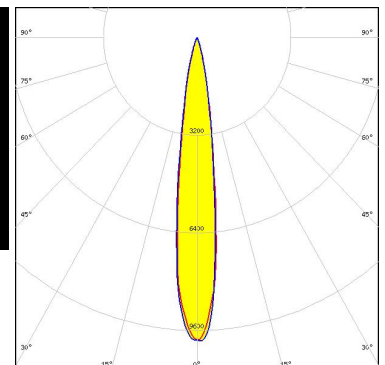
LED LH508A  
FWHM / FWTM 21.0° / 40.0°  
Efficiency 86 %  
Peak intensity 4.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED LM302A  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 89 %  
Peak intensity 9.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

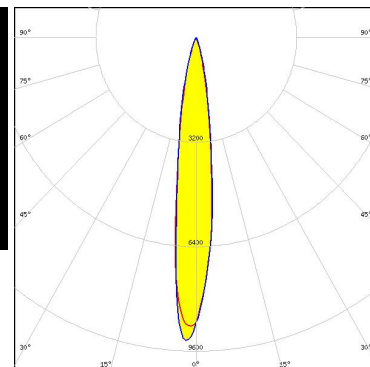


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

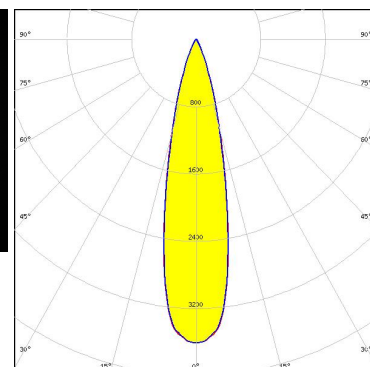
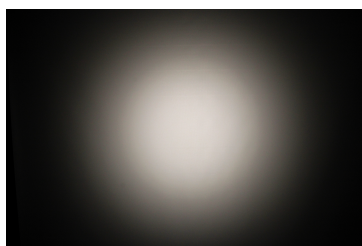
LED LM561B  
FWHM / FWTM 14.0° / 31.0°  
Efficiency 88 %  
Peak intensity 9.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



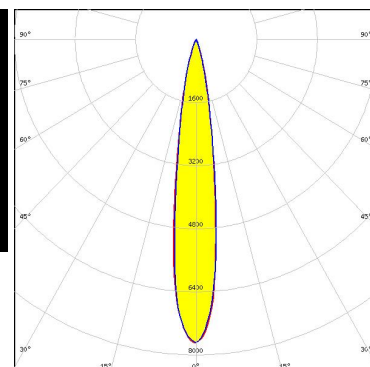
LED WICOP 5050  
FWHM / FWTM 24.0° / 45.0°  
Efficiency 81 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED Z5M3  
FWHM / FWTM 16.0° / 32.0°  
Efficiency 84 %  
Peak intensity 7.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

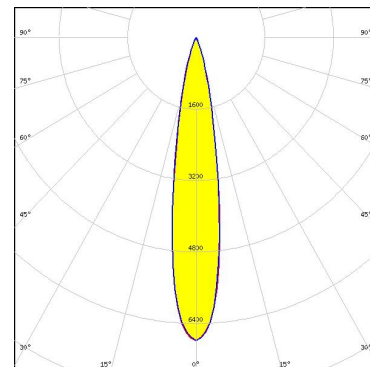


Light distribution files

### OPTICAL RESULTS (SIMULATED):



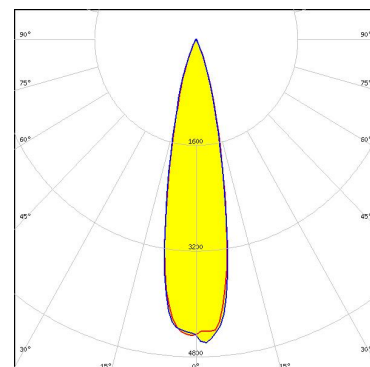
LED XHP35.2 HI  
FWHM / FWTM 18.0° / 36.0°  
Efficiency 88 %  
Peak intensity 6.8 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



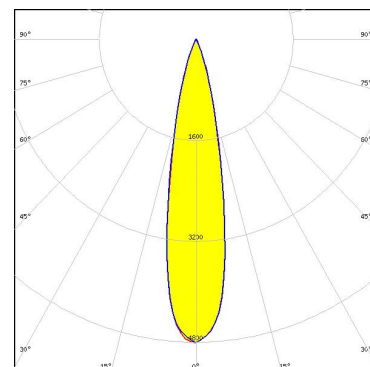
LED XHP50  
FWHM / FWTM 23.0° / 42.0°  
Efficiency 86 %  
Peak intensity 4.6 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XHP50.3 HD  
FWHM / FWTM 22.0° / 40.0°  
Efficiency 84 %  
Peak intensity 4.8 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:

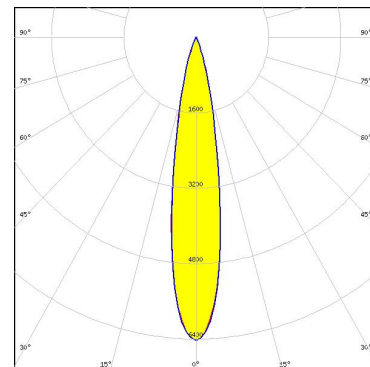


Light distribution files

### OPTICAL RESULTS (SIMULATED):



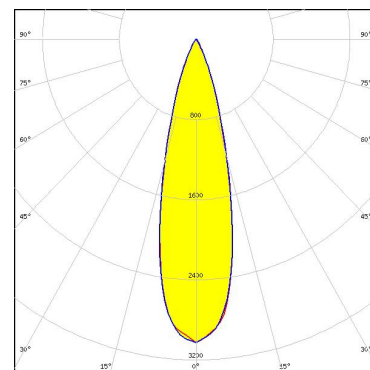
LED XHP50.3 HI  
FWHM / FWTM 18.0° / 36.0°  
Efficiency 95 %  
Peak intensity 6.4 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



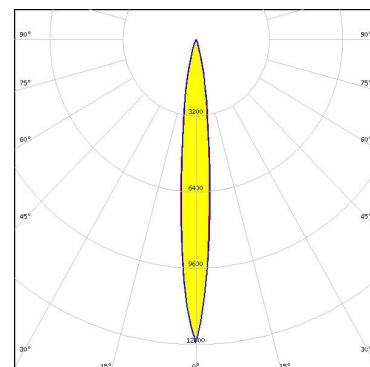
LED XHP70.3 HD  
FWHM / FWTM 26.0 + 28.0° / 50.0°  
Efficiency 82 %  
Peak intensity 3 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-E2  
FWHM / FWTM 11.0° / 28.0°  
Efficiency 91 %  
Peak intensity 12.7 cd/Im  
LEDs/each optic 1  
Light colour/type Amber  
Required components:

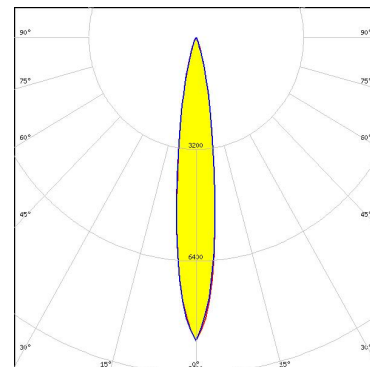


Light distribution files

### OPTICAL RESULTS (SIMULATED):



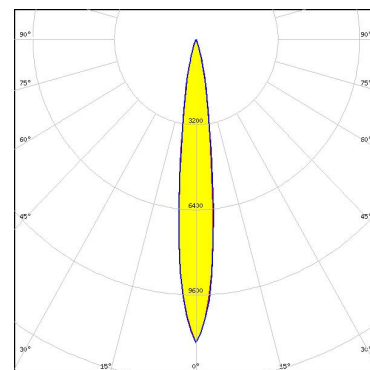
LED XP-G2 HE  
FWHM / FWTM 15.0° / 32.0°  
Efficiency 88 %  
Peak intensity 8.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



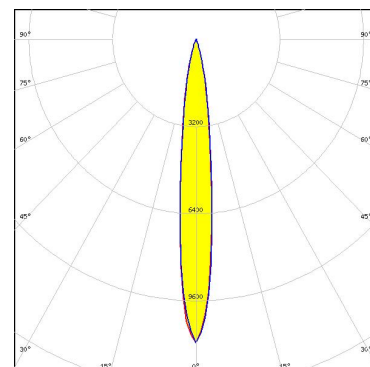
LED XP-G4  
FWHM / FWTM 14.0° / 29.0°  
Efficiency 90 %  
Peak intensity 11.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-G4 HI  
FWHM / FWTM 12.0° / 30.0°  
Efficiency 90 %  
Peak intensity 11.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

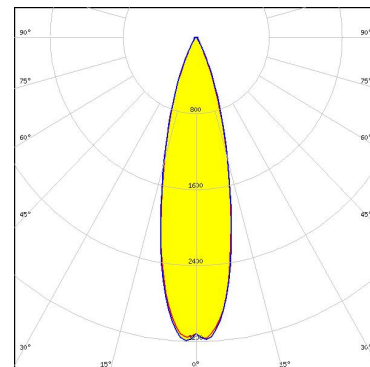


Light distribution files

### OPTICAL RESULTS (SIMULATED):



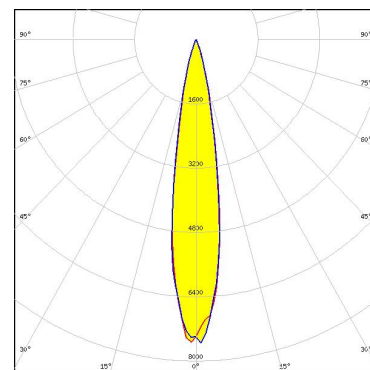
LED LUXEON 7070  
FWHM / FWTM 26.0° / 51.0°  
Efficiency 94 %  
Peak intensity 3.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



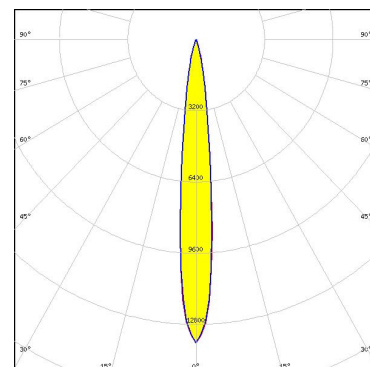
LED LUXEON MZ  
FWHM / FWTM 18.0° / 34.0°  
Efficiency 90 %  
Peak intensity 7.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED SFT-12R-W-A  
FWHM / FWTM 12.0° / 27.0°  
Efficiency 93 %  
Peak intensity 13.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

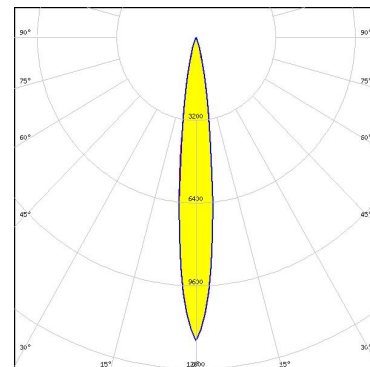


Light distribution files

### OPTICAL RESULTS (SIMULATED):



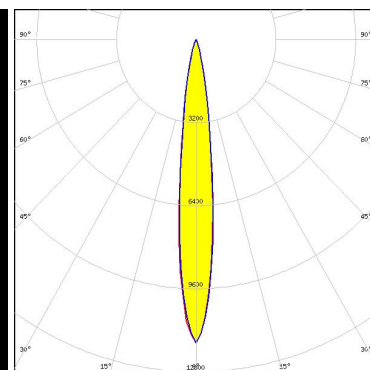
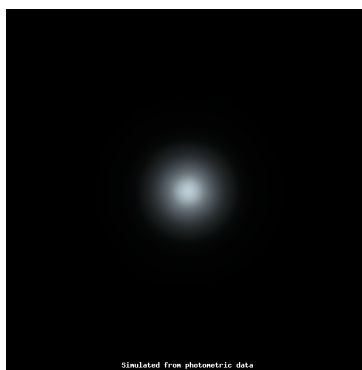
LED SST-20 Gen1  
FWHM / FWTM 14.0° / 28.0°  
Efficiency 91 %  
Peak intensity 11.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



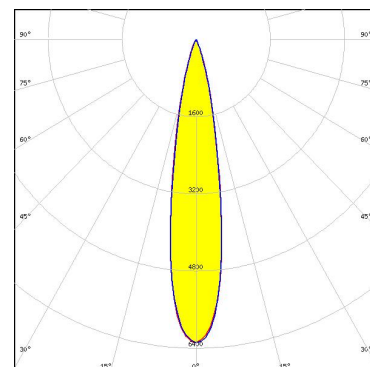
LED SST-20 Gen2  
FWHM / FWTM 13.0° / 28.0°  
Efficiency 90 %  
Peak intensity 11.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED SST-70X-WCS  
FWHM / FWTM 20.0° / 37.0 + 36.0°  
Efficiency 89 %  
Peak intensity 6.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



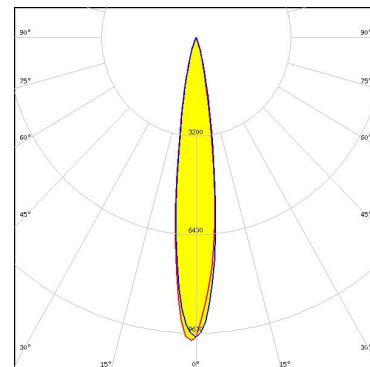
Light distribution files



### OPTICAL RESULTS (SIMULATED):



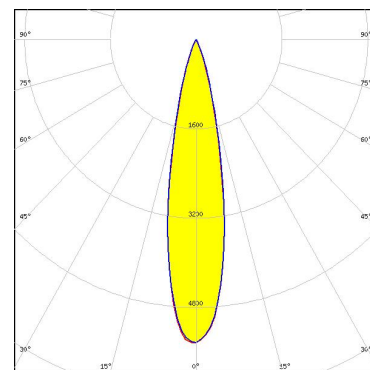
LED NF2x757G  
FWHM / FWTM 16.0° / 31.0°  
Efficiency 91 %  
Peak intensity 9.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



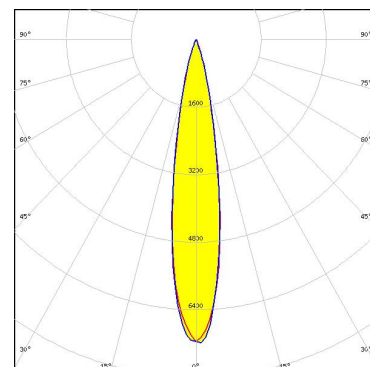
LED NFMW48xA  
FWHM / FWTM 21.0° / 40.0°  
Efficiency 89 %  
Peak intensity 5.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NV4WB35AM  
FWHM / FWTM 18.0° / 34.0°  
Efficiency 89 %  
Peak intensity 7.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

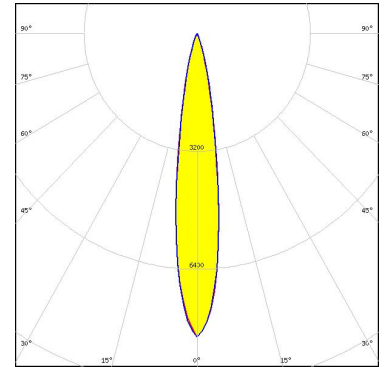


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

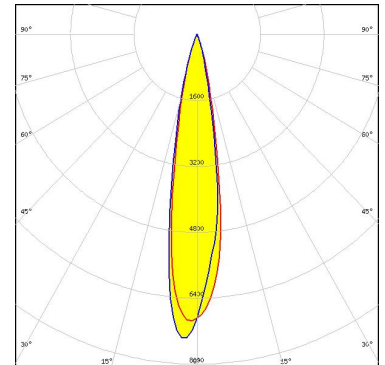
LED OSCONIQ P 3737 (3W) PUSTA1  
FWHM / FWTM 16.0° / 33.0°  
Efficiency 89 %  
Peak intensity 8.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

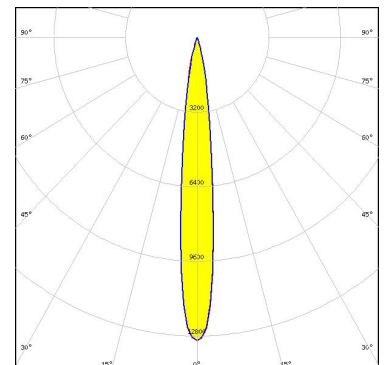
LED OSLO Pure 1414  
FWHM / FWTM 19.0 + 18.0° / 35.0 + 33.0°  
Efficiency 89 %  
Peak intensity 7.4 cd/lm  
LEDs/each optic 4  
Light colour/type RGBW  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLO Pure 1414  
FWHM / FWTM 12.0° / 28.0°  
Efficiency 92 %  
Peak intensity 13 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

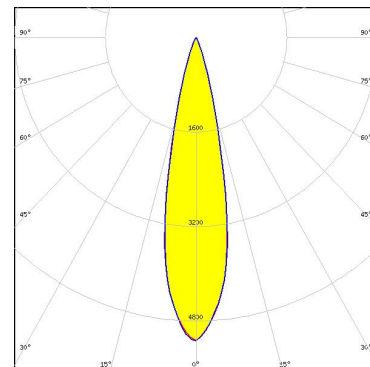


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

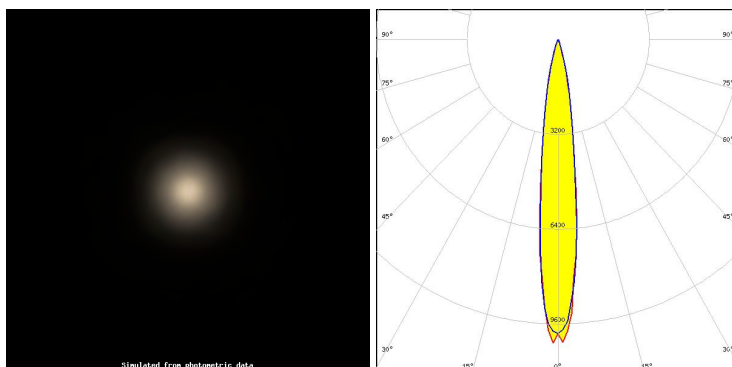
LED LH151B  
FWHM / FWTM 22.0° / 38.0°  
Efficiency 88 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 4  
Light colour/type White  
Required components:



Light distribution files



LED Z5M3-E1  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 89 %  
Peak intensity 10.6 cd/lm  
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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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P.R.CHINA

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