

## HEIDI-RS

~8° spot beam

### SPECIFICATION:

Dimensions	Ø 21.6
Height	11.7 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

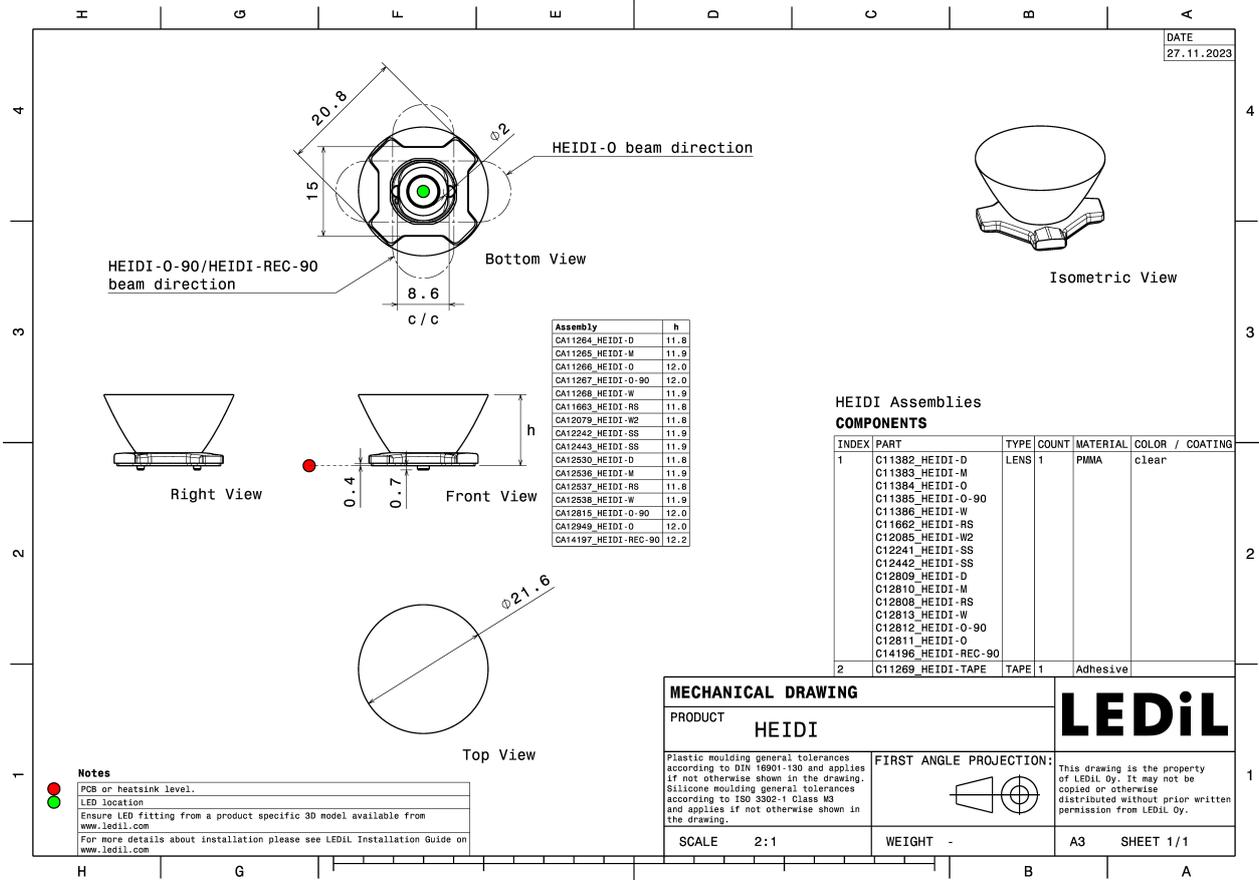


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
HEIDI-RS	Single lens	PMMA	clear		
HEIDI-TAPE	Tape	Acryl tape	black		

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11663_HEIDI-RS	Single lens	3264	204	204	10.4
» 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 XB-D  
FWHM / FWTM 8.0°  
Efficiency 91 %  
Peak intensity 19.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



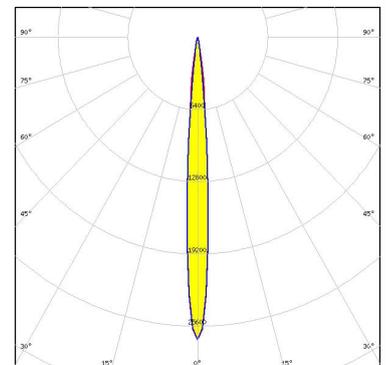
LED XB-H  
FWHM / FWTM 10.0° / 19.0°  
Efficiency 90 %  
Peak intensity 18.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-E  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 93 %  
Peak intensity 26.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

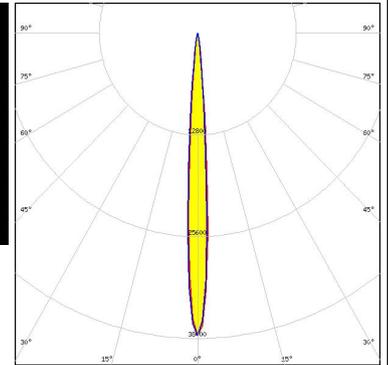


Light distribution files

### OPTICAL RESULTS (MEASURED):



LED XP-E2  
 FWHM / FWTM 8.0° / 14.0°  
 Efficiency 90 %  
 Peak intensity 38 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

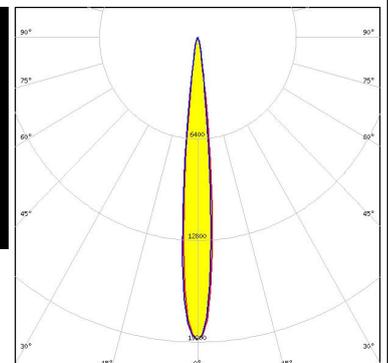
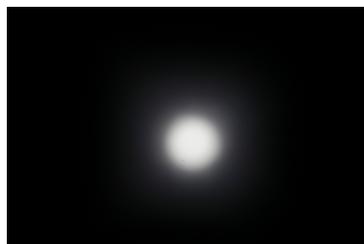


LED XP-G  
 FWHM / FWTM 9.0° / 20.0°  
 Efficiency 93 %  
 Peak intensity 16.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



LED XP-G2  
 FWHM / FWTM 11.0° / 20.0°  
 Efficiency 91 %  
 Peak intensity 19.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

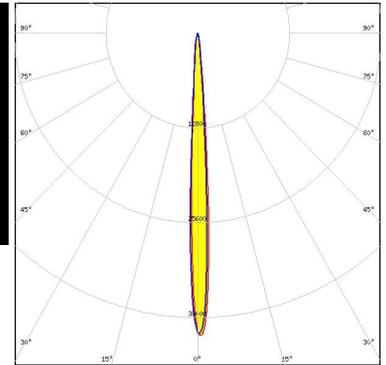


Light distribution files

### OPTICAL RESULTS (MEASURED):



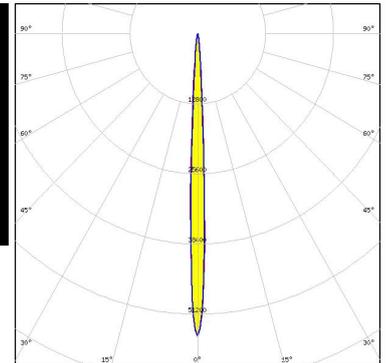
LED XQ-E HD  
 FWHM / FWTM 6.0° / 12.0°  
 Efficiency 94 %  
 Peak intensity 42.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



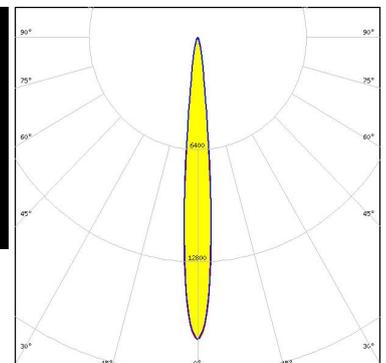
LED XQ-E HI  
 FWHM / FWTM 5.0° / 11.0°  
 Efficiency 94 %  
 Peak intensity 55.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XT-E  
 FWHM / FWTM 10.0° / 21.0°  
 Efficiency 97 %  
 Peak intensity 17.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

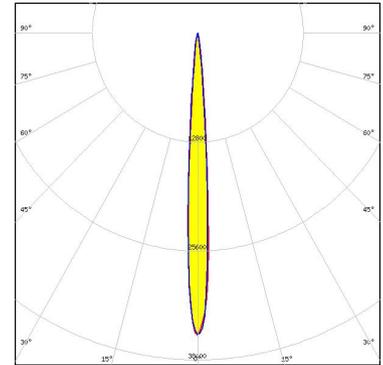


Light distribution files

#### OPTICAL RESULTS (MEASURED):



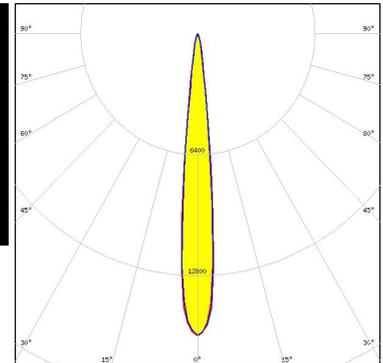
LED LUXEON C  
 FWHM / FWTM 7.0° / 14.0°  
 Efficiency 92 %  
 Peak intensity 35.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



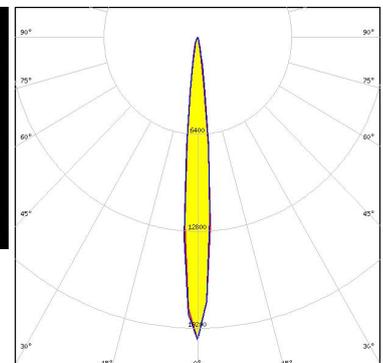
LED LUXEON T  
 FWHM / FWTM 11.0° / 20.0°  
 Efficiency 92 %  
 Peak intensity 16.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON TX  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 90 %  
 Peak intensity 19.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### OPTICAL RESULTS (MEASURED):

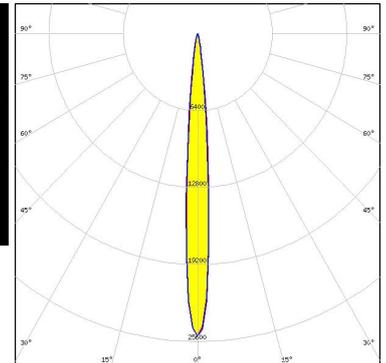


LED NCSxx19A  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 89 %  
Peak intensity 19 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

[Light distribution files](#)



LED NCSxx19B  
FWHM / FWTM 9.0° / 18.0°  
Efficiency 90 %  
Peak intensity 25.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



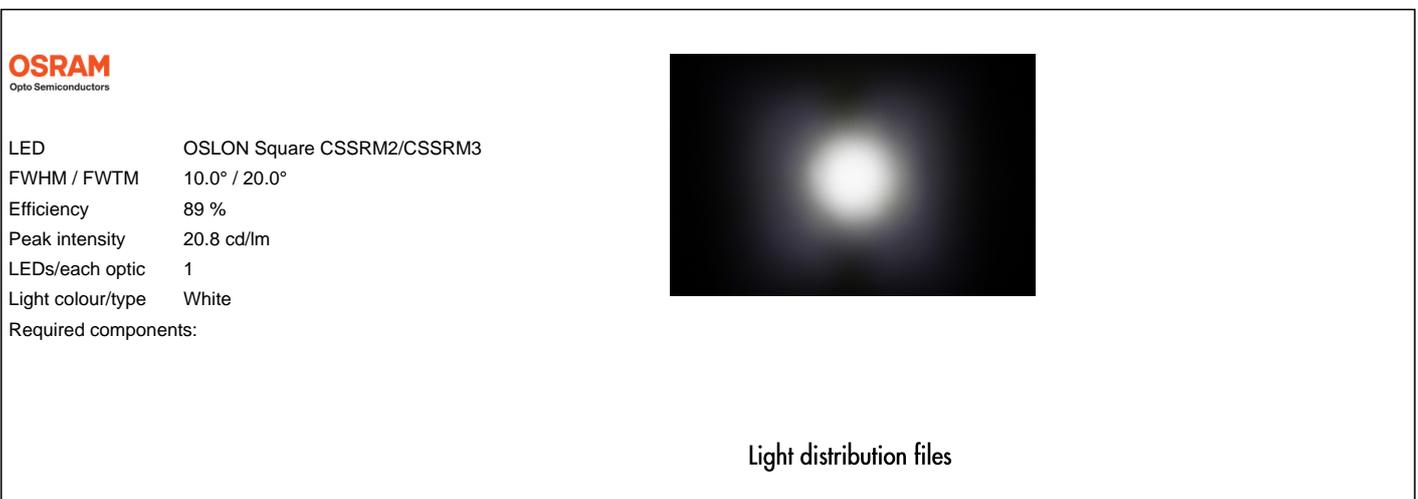
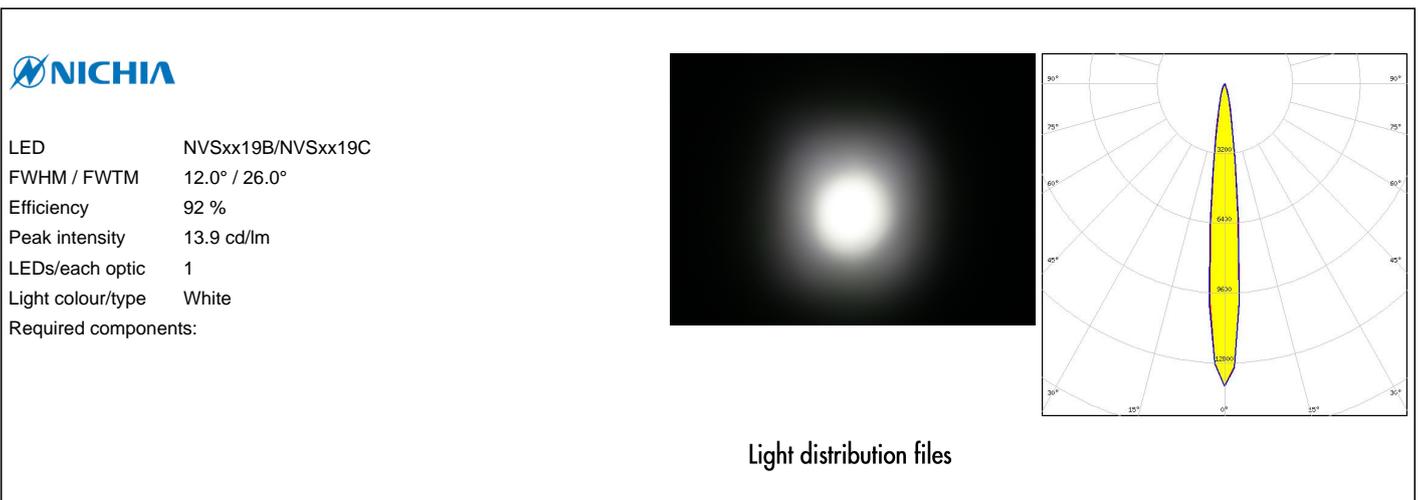
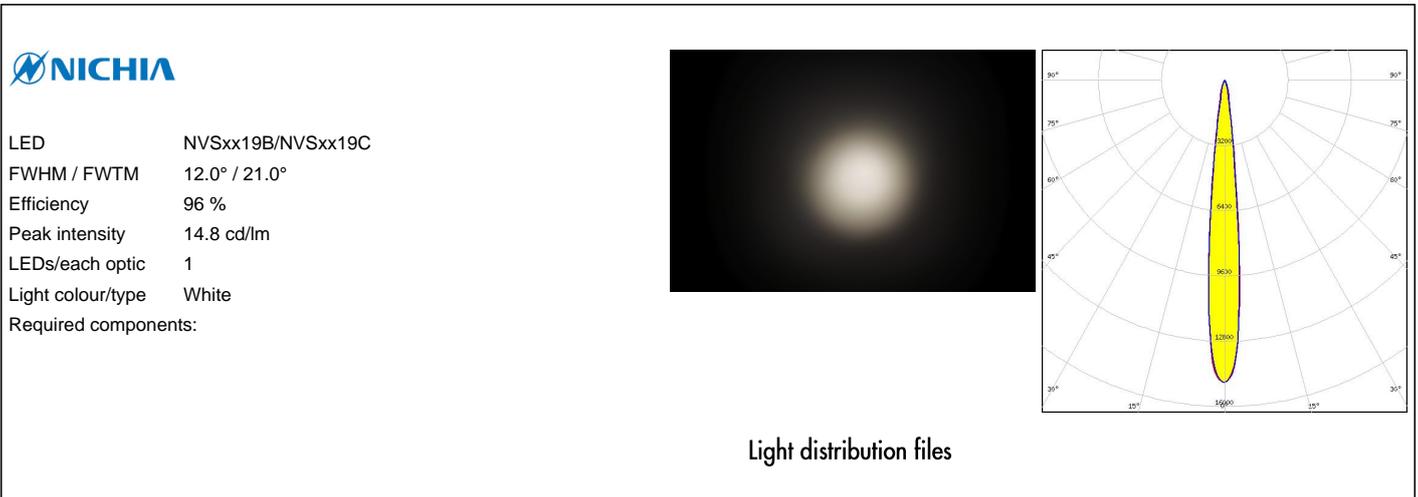
[Light distribution files](#)



LED NVSxx19A  
FWHM / FWTM 10.0° / 23.0°  
Efficiency 89 %  
Peak intensity 13.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

[Light distribution files](#)

### OPTICAL RESULTS (MEASURED):



### OPTICAL RESULTS (MEASURED):

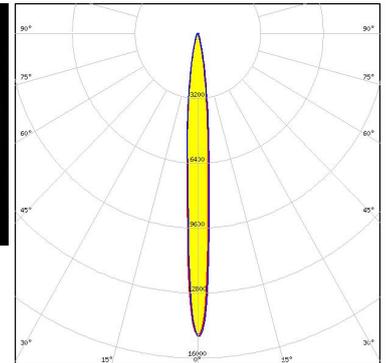
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM / FWTM 7.0° / 16.0°  
Efficiency 93 %  
Peak intensity 24.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

**SAMSUNG**

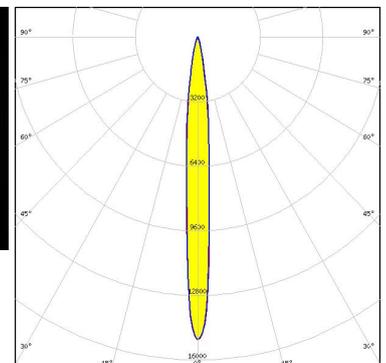
LED LH181A  
FWHM / FWTM 8.0° / 24.0°  
Efficiency 94 %  
Peak intensity 14.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED LH181B  
FWHM / FWTM 9.0° / 24.0°  
Efficiency 94 %  
Peak intensity 15 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

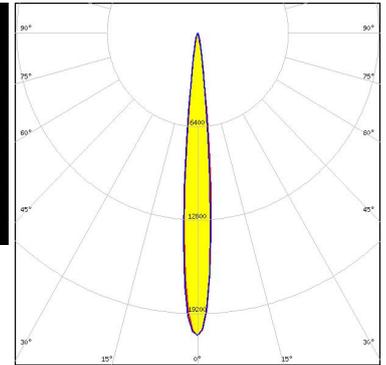


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

LED LH351Z  
 FWHM / FWTM 11.0° / 19.0°  
 Efficiency 89 %  
 Peak intensity 20.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

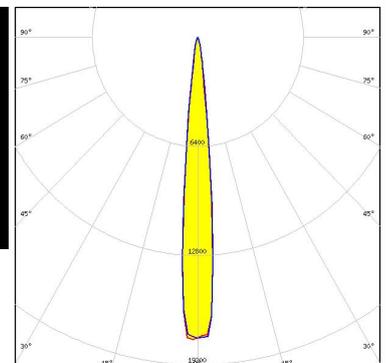
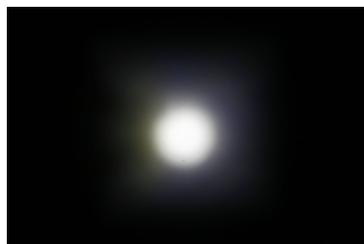


LED Z5  
 FWHM / FWTM 7.0° / 16.0°  
 Efficiency 93 %  
 Peak intensity 32.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



LED Z5M1/Z5M2  
 FWHM / FWTM 11.0° / 19.0°  
 Efficiency 94 %  
 Peak intensity 17.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

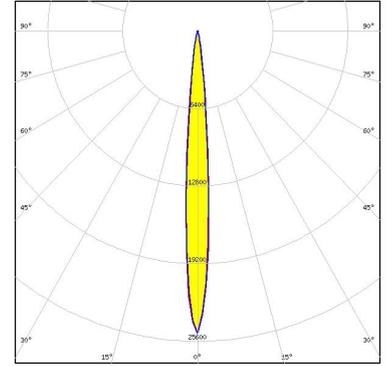


Light distribution files

### OPTICAL RESULTS (SIMULATED):



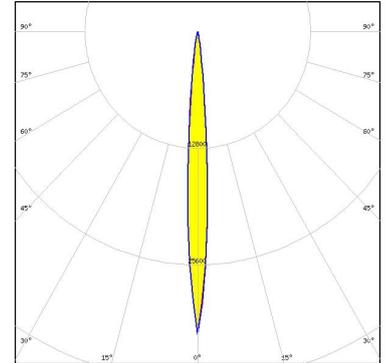
**LED** XB-D  
**FWHM / FWTM** 8.0° / 18.0°  
**Efficiency** 93 %  
**Peak intensity** 25 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



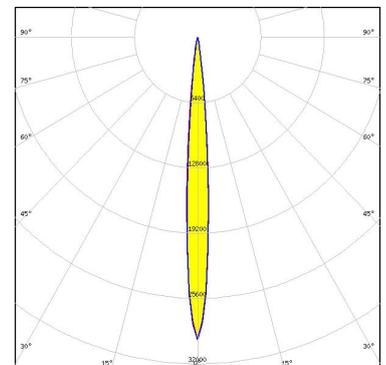
**LED** XE-G  
**FWHM / FWTM** 8.0° / 16.0°  
**Efficiency** 97 %  
**Peak intensity** 33.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** XE-G  
**FWHM / FWTM** 8.0° / 16.0°  
**Efficiency** 95 %  
**Peak intensity** 29.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Red  
**Required components:**

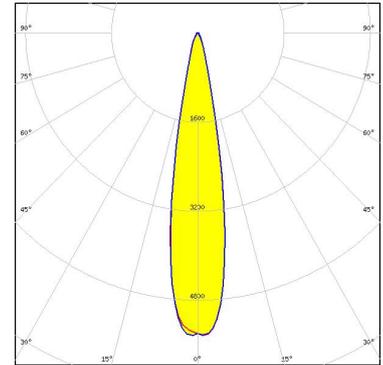


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



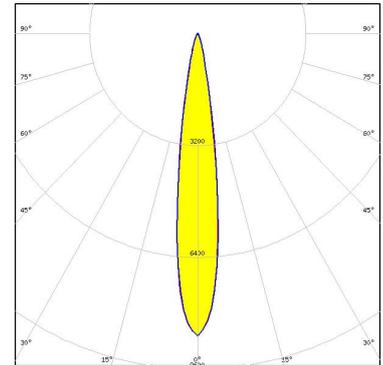
LED XHP35.2 HD  
 FWHM / FWTM 20.0° / 34.0°  
 Efficiency 91 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



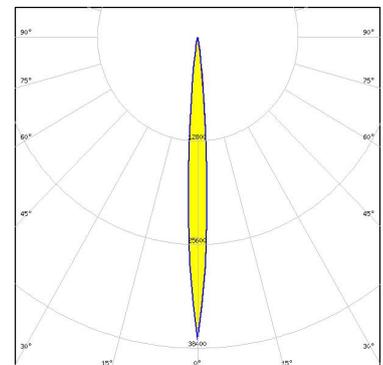
LED XHP35.2 HI  
 FWHM / FWTM 16.0° / 29.0°  
 Efficiency 94 %  
 Peak intensity 8.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-E2  
 FWHM / FWTM 8.0° / 16.0°  
 Efficiency 96 %  
 Peak intensity 37.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

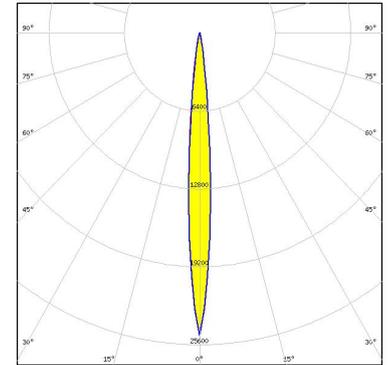


Light distribution files

### OPTICAL RESULTS (SIMULATED):



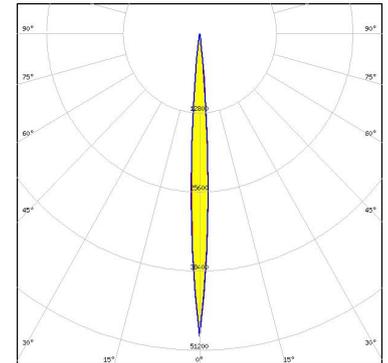
LED XP-G4 HI  
 FWHM / FWTM 8.0° / 18.0°  
 Efficiency 97 %  
 Peak intensity 24.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



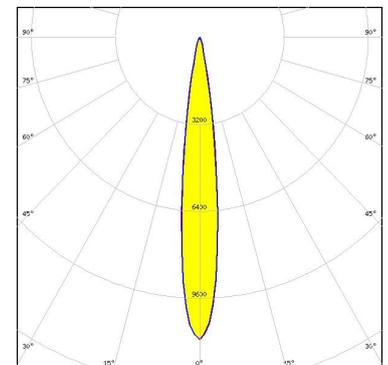
LED LUXEON CZ  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 96 %  
 Peak intensity 48.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON HL2X  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 94 %  
 Peak intensity 11.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

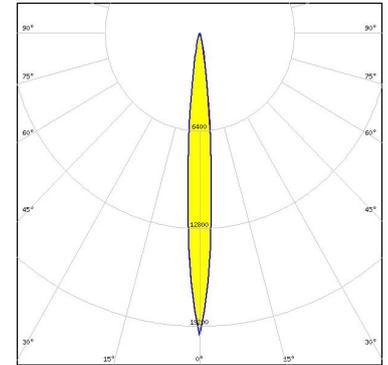


Light distribution files

### OPTICAL RESULTS (SIMULATED):



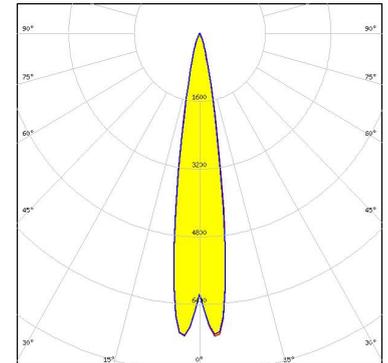
LED LUXEON HL2Z  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 95 %  
 Peak intensity 19.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



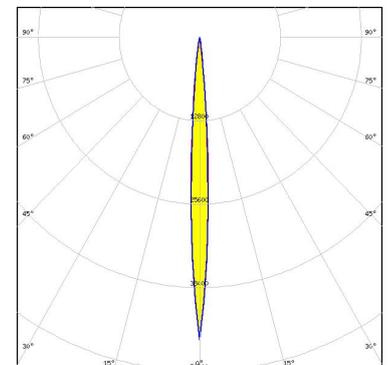
LED LUXEON MZ  
 FWHM / FWTM 18.0° / 31.0°  
 Efficiency 95 %  
 Peak intensity 7.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Rubix  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 96 %  
 Peak intensity 46.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Green  
 Required components:

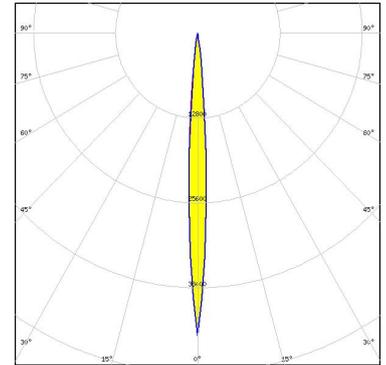


Light distribution files

### OPTICAL RESULTS (SIMULATED):



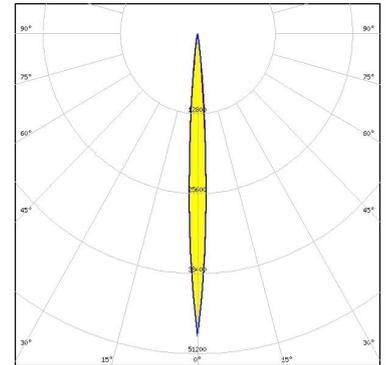
LED LUXEON Rubix  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 96 %  
Peak intensity 45.6 cd/lm  
LEDs/each optic 1  
Light colour/type Blue  
Required components:



Light distribution files



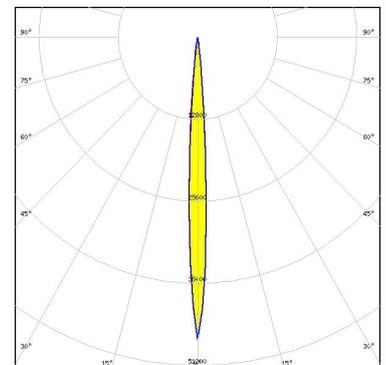
LED LUXEON Rubix  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 96 %  
Peak intensity 48.4 cd/lm  
LEDs/each optic 1  
Light colour/type Red  
Required components:



Light distribution files



LED LUXEON Rubix  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 96 %  
Peak intensity 47.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

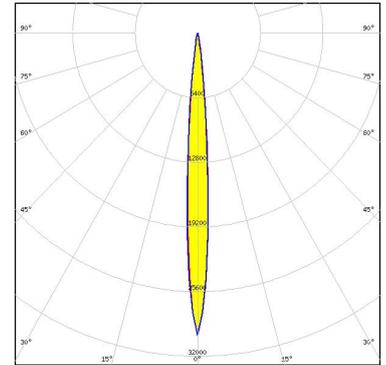


Light distribution files

### OPTICAL RESULTS (SIMULATED):



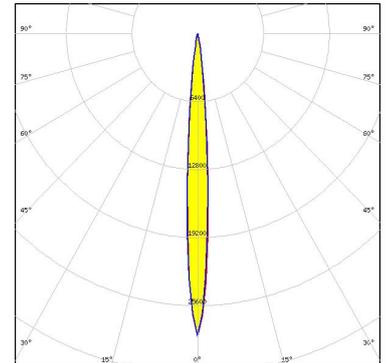
LED LUXEON SunPlus 20 Line (120 deg)  
FWHM / FWTM 8.0° / 16.0°  
Efficiency 96 %  
Peak intensity 30 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



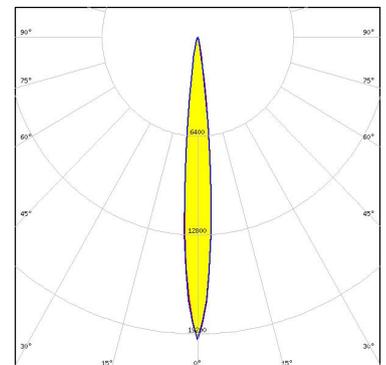
LED LUXEON SunPlus 20 Line (150 deg)  
FWHM / FWTM 8.0° / 17.0°  
Efficiency 91 %  
Peak intensity 28.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON TX  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 96 %  
Peak intensity 19.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

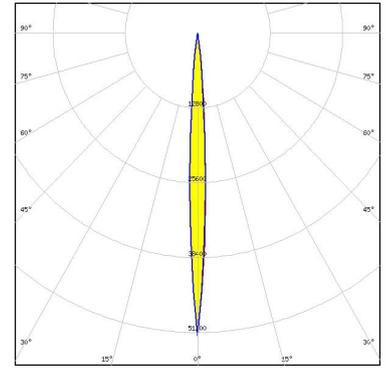


Light distribution files

### OPTICAL RESULTS (SIMULATED):



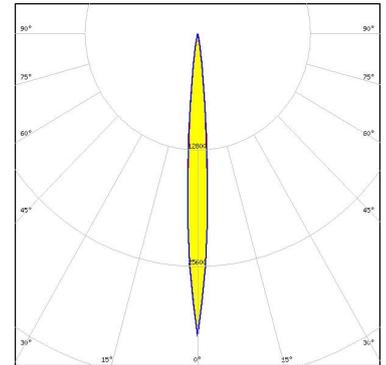
LED LUXEON Z  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 95 %  
 Peak intensity 51.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



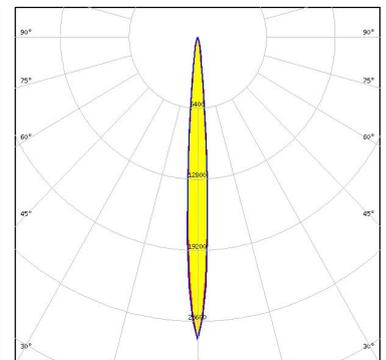
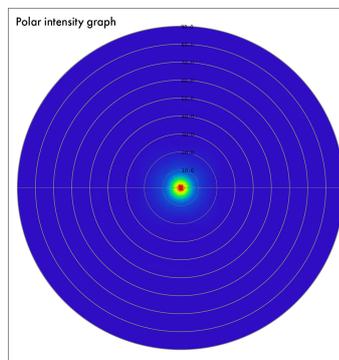
LED LUXEON Z ES  
 FWHM / FWTM 7.7° / 17.0°  
 Efficiency 94 %  
 Peak intensity 33.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED SST-10-IR-B90  
 FWHM / FWTM 8.0° / 16.0°  
 Efficiency 95 %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:

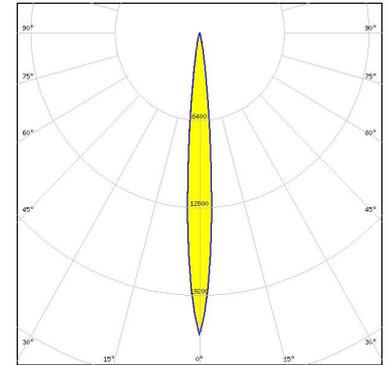


Light distribution files

### OPTICAL RESULTS (SIMULATED):



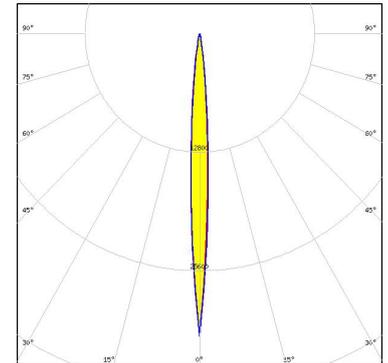
LED SST-20 Gen1  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 94 %  
 Peak intensity 22.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



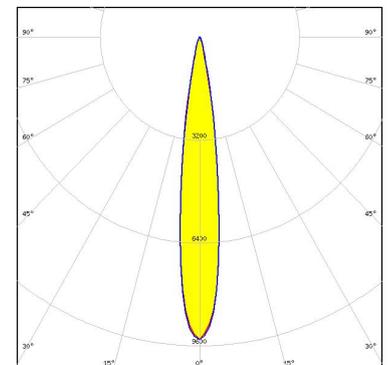
LED NFSx757G  
 FWHM / FWTM 6.0° / 17.0°  
 Efficiency 96 %  
 Peak intensity 32.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSW519A  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 92 %  
 Peak intensity 9.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

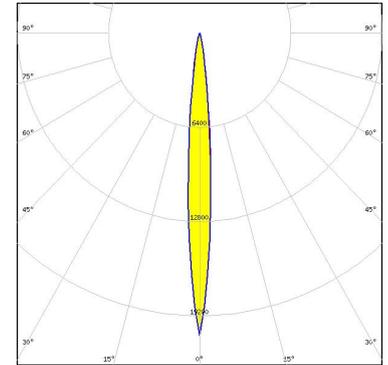


Light distribution files

### OPTICAL RESULTS (SIMULATED):



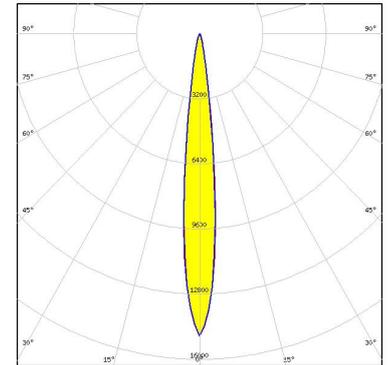
LED NVSxE21A  
FWHM / FWTM 8.0° / 20.0°  
Efficiency 93 %  
Peak intensity 20.6 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



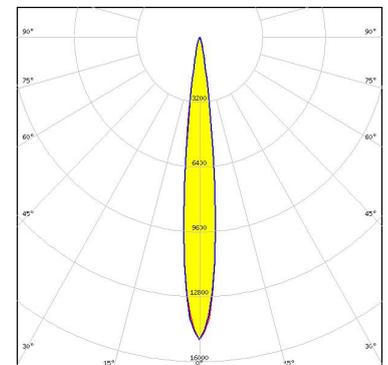
LED NVSxx19B/NVSxx19C  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 94 %  
Peak intensity 14.9 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSxx19B/NVSxx19C  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 94 %  
Peak intensity 14.9 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:

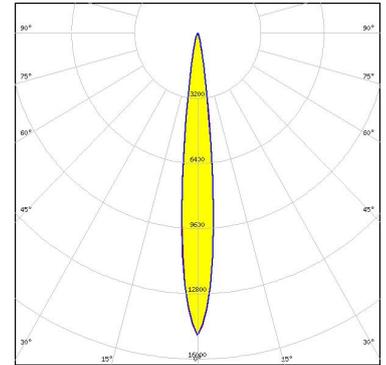


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED NVSxx19B/NVSxx19C  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 94 %  
Peak intensity 14.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

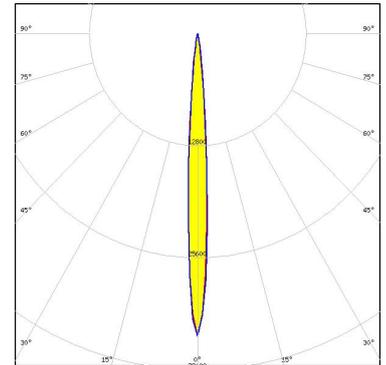


Light distribution files



Osram Opto Semiconductors

LED OSCONIQ P 3030  
FWHM / FWTM 7.1° / 16.0°  
Efficiency 96 %  
Peak intensity 34.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

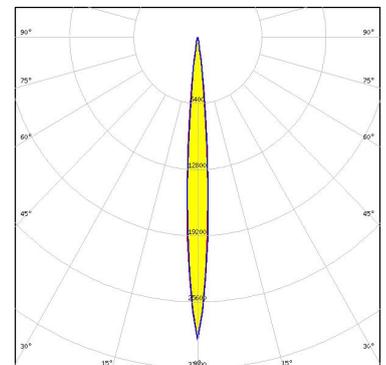


Light distribution files



Osram Opto Semiconductors

LED OSOLON PURE 1010  
FWHM / FWTM 8.0° / 16.0°  
Efficiency 93 %  
Peak intensity 29.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### OPTICAL RESULTS (SIMULATED):

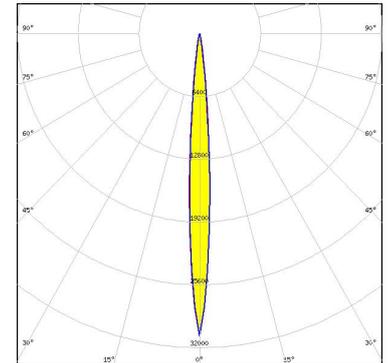
**OSRAM**  
Opto Semiconductors

LED OSLON Square EC  
FWHM / FWTM 12.0°  
Efficiency %  
Peak intensity 11.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

**OSRAM**  
Opto Semiconductors

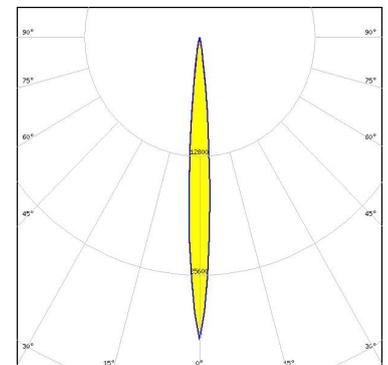
LED OSLON Square Flat  
FWHM / FWTM 8.0° / 17.0°  
Efficiency 96 %  
Peak intensity 30.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM / FWTM 8.0° / 16.0°  
Efficiency 96 %  
Peak intensity 32.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

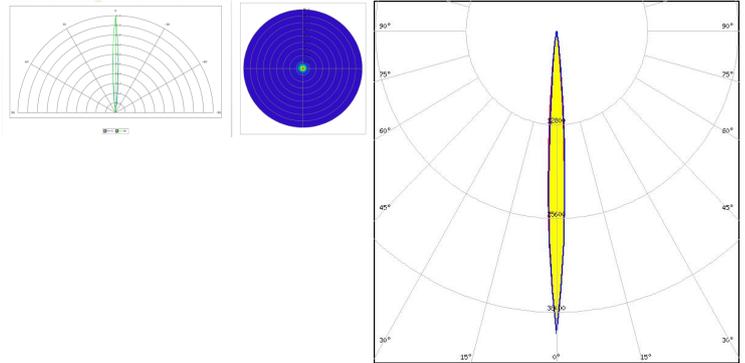


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

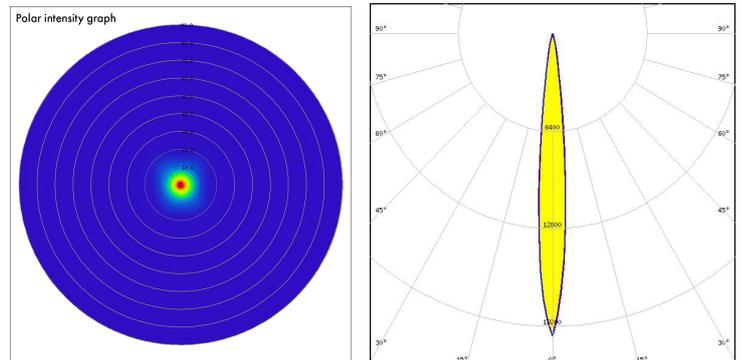
LED SFH 4170S  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

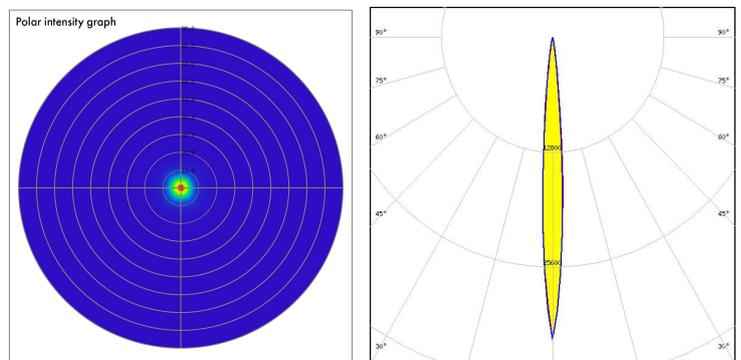
LED SFH 4715AS  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 96 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED SFH 4716AS  
FWHM / FWTM 8.0° / 15.0°  
Efficiency 95 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:

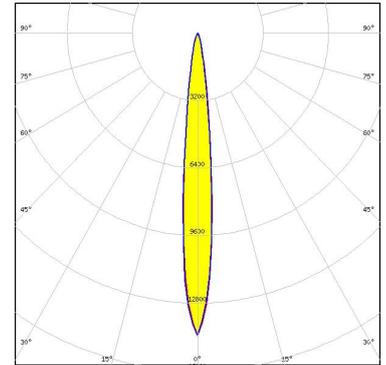


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

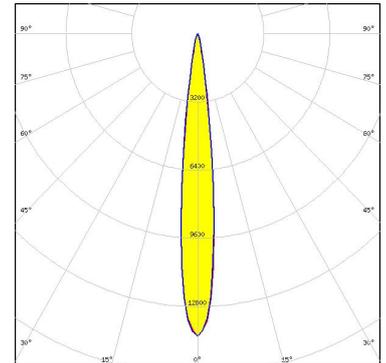
LED LH231B  
FWHM / FWTM 11.0° / 24.0°  
Efficiency 96 %  
Peak intensity 14.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

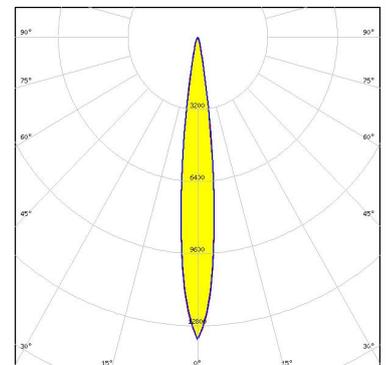
LED LH351B  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 94 %  
Peak intensity 14.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED LH351C  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 95 %  
Peak intensity 13.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

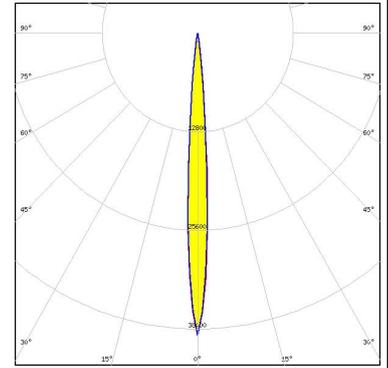


Light distribution files

### OPTICAL RESULTS (SIMULATED):



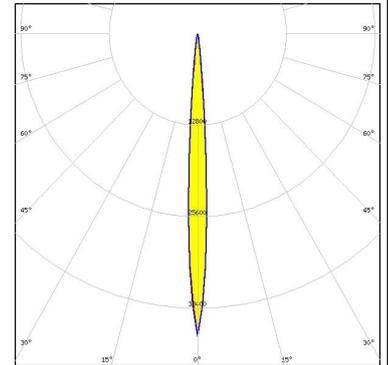
LED MGN1108MS  
FWHM / FWTM 8.0° / 14.0°  
Efficiency 97 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files



LED MJN1108MS  
FWHM / FWTM 8.0° / 14.0°  
Efficiency 97 %  
LEDs/each optic 1  
Light colour/type IR  
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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