

## VERONICA-SQ-O

~55° + 12° oval beam

### SPECIFICATION:

Dimensions	Ø 22.5
Height	12.2 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

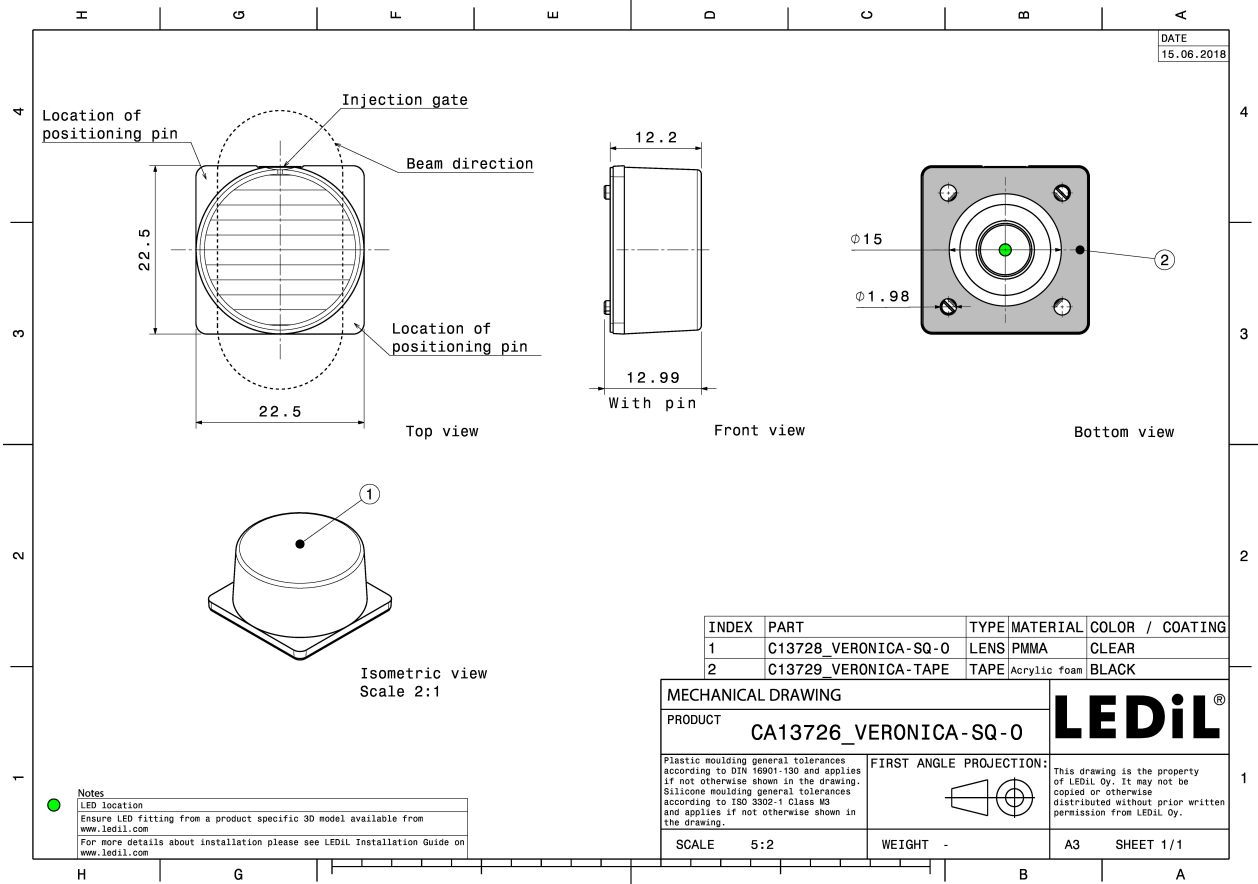
### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
VERONICA-SQ-O	Single lens	PMMA	clear		
VERONICA-TAPE	Tape	Acrylic foam tape	clear		



### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA13726_VERONICA-SQ-O	Single lens	1980	360	90	8.2
» Box size: 476 x 273 x 197 mm					

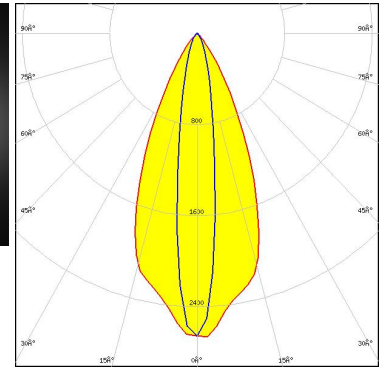
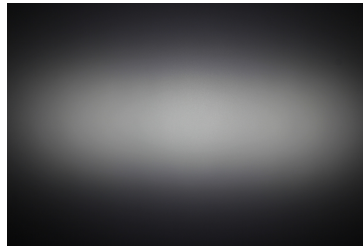


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



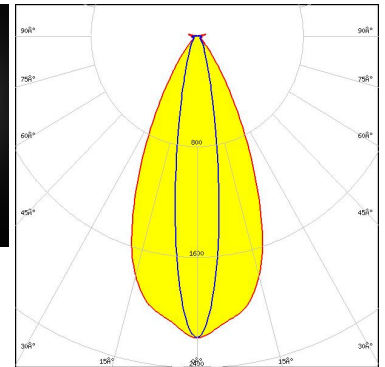
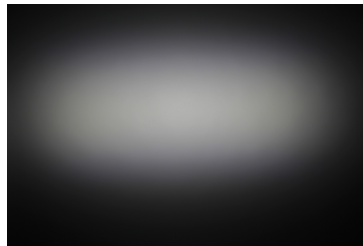
**LED** XB-H  
**FWHM / FWTM** 45.0 + 16.0° / 73.0 + 40.0°  
**Efficiency** 77 %  
**Peak intensity** 2.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



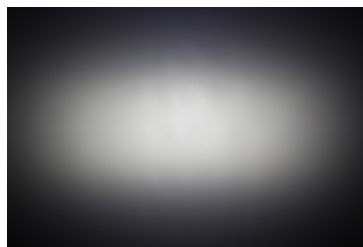
**LED** XD16  
**FWHM / FWTM** 47.0 + 17.0° / 76.0 + 41.0°  
**Efficiency** 87 %  
**Peak intensity** 2.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** XHP35 HD  
**FWHM / FWTM** 45.0 + 20.0° / 78.0 + 48.0°  
**Efficiency** 73 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

#### OPTICAL RESULTS (MEASURED):



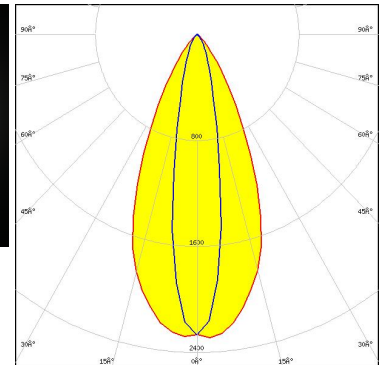
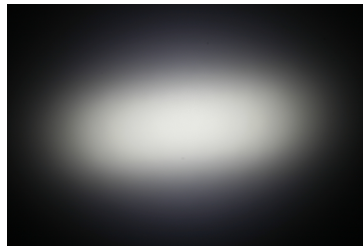
LED XHP35 HI  
 FWHM / FWTM 46.0 + 16.0° / 74.0 + 40.0°  
 Efficiency 75 %  
 Peak intensity 2.7 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



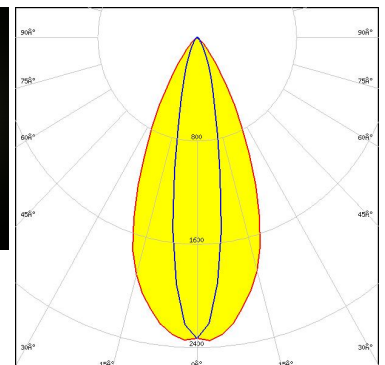
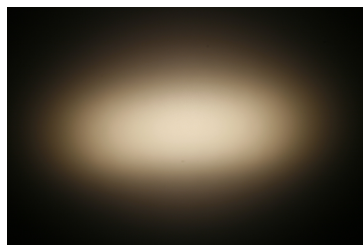
LED XM-L  
 FWHM / FWTM 47.0 + 20.0° / 77.0 + 46.0°  
 Efficiency 80 %  
 Peak intensity 2.3 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XM-L2  
 FWHM / FWTM 47.0 + 20.0° / 76.0 + 45.0°  
 Efficiency 80 %  
 Peak intensity 2.3 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

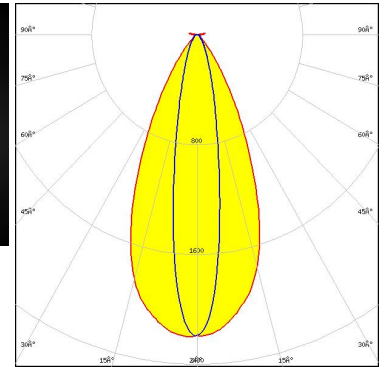
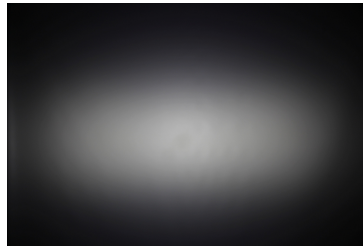


Light distribution files

#### OPTICAL RESULTS (MEASURED):



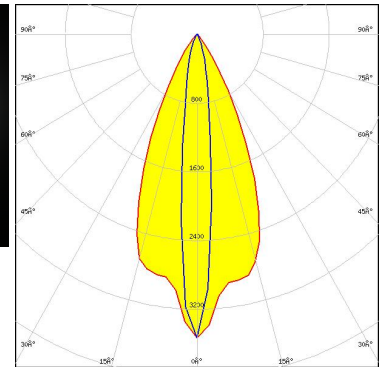
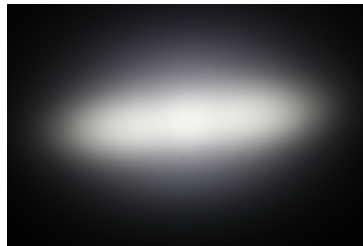
LED XM-L3  
 FWHM / FWTM 47.0 + 19.0° / 77.0 + 46.0°  
 Efficiency 88 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



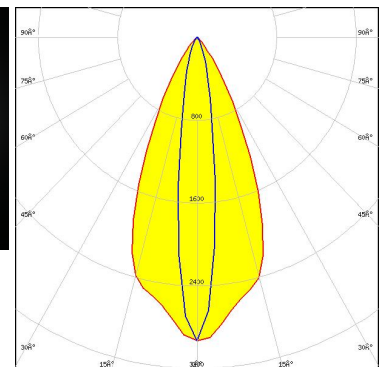
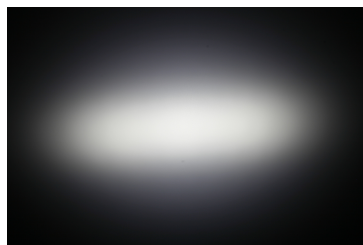
LED XP-E2  
 FWHM / FWTM 46.0 + 12.0° / 71.0 + 34.0°  
 Efficiency 80 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G2  
 FWHM / FWTM 47.0 + 14.0° / 76.0 + 40.0°  
 Efficiency 80 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

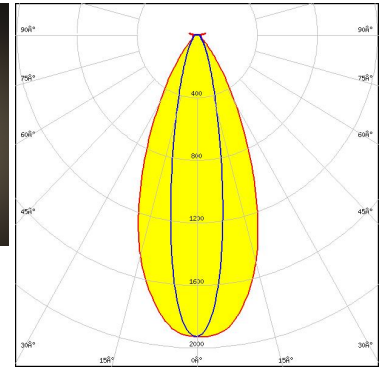


Light distribution files

#### OPTICAL RESULTS (MEASURED):



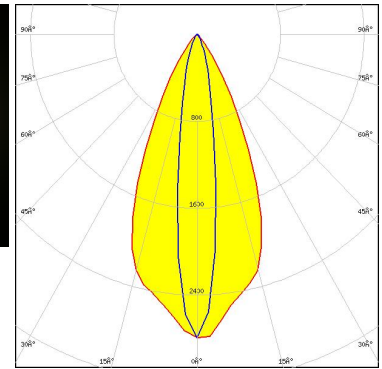
LED XP-L2  
 FWHM / FWTM 45.0 + 20.0° / 78.0 + 49.0°  
 Efficiency 86 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



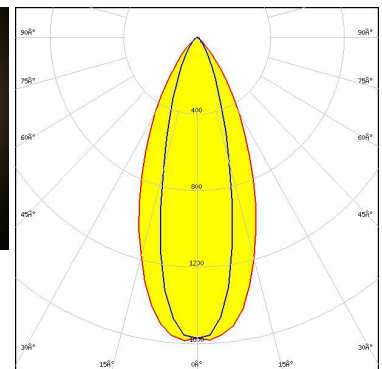
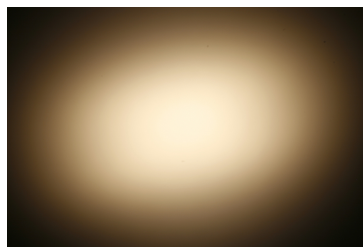
LED XT-E  
 FWHM / FWTM 47.0 + 16.0° / 74.0 + 40.0°  
 Efficiency 79 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON M/MX  
 FWHM / FWTM 45.0 + 28.0° / 81.0 + 60.0°  
 Efficiency 76 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

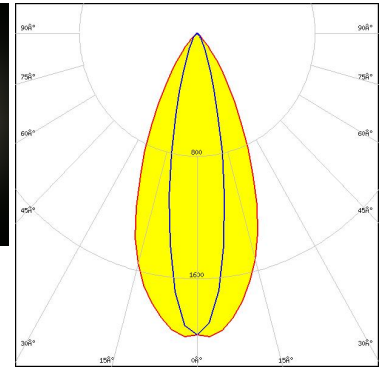
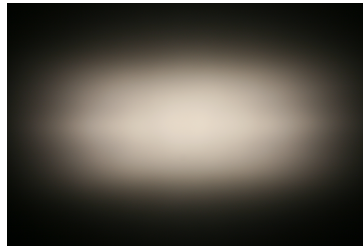


Light distribution files

#### OPTICAL RESULTS (MEASURED):



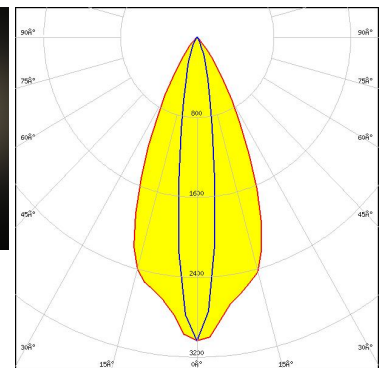
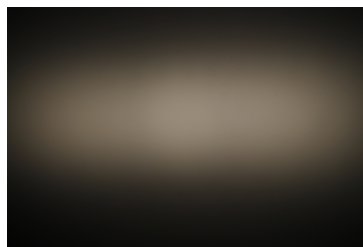
**LED** LUXEON MZ  
**FWHM / FWTM** 47.0 + 23.0° / 77.0 + 46.0°  
**Efficiency** 73 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



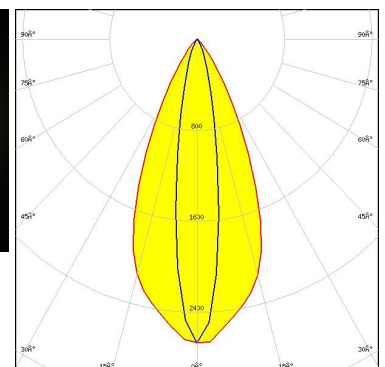
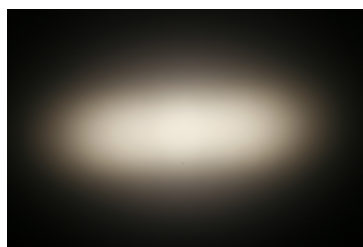
**LED** LUXEON Rebel  
**FWHM / FWTM** 47.0 + 15.0° / 72.0 + 38.0°  
**Efficiency** 80 %  
**Peak intensity** 3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** LUXEON Rebel ES  
**FWHM / FWTM** 47.0 + 17.0° / 74.0 + 39.0°  
**Efficiency** 80 %  
**Peak intensity** 2.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

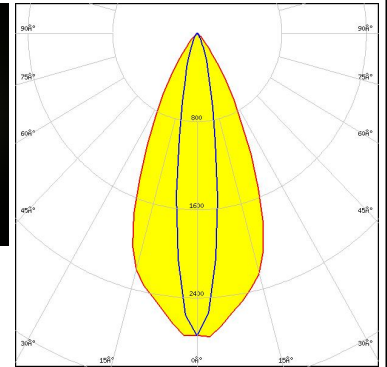


Light distribution files

#### OPTICAL RESULTS (MEASURED):



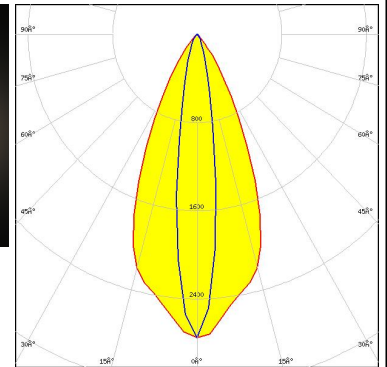
LED LUXEON T  
 FWHM / FWTM 47.0 + 17.0° / 74.0 + 39.0°  
 Efficiency 80 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



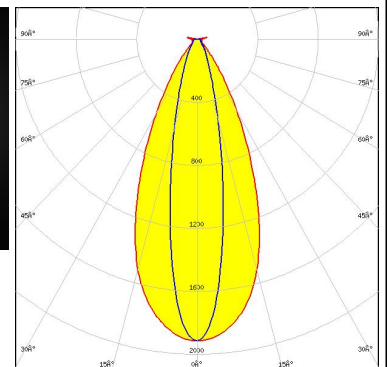
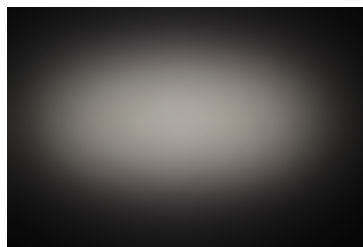
LED LUXEON TX  
 FWHM / FWTM 46.0 + 16.0° / 73.0 + 37.0°  
 Efficiency 77 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON V  
 FWHM / FWTM 46.0 + 21.0° / 79.0 + 50.0°  
 Efficiency 88 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



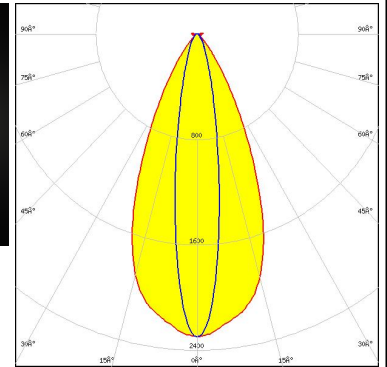
Light distribution files



#### OPTICAL RESULTS (MEASURED):



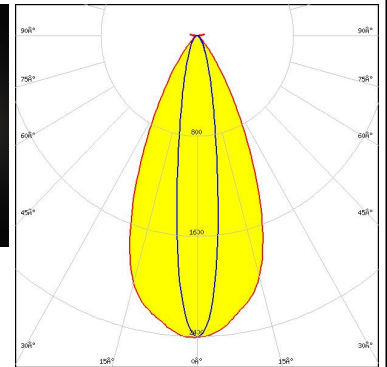
**LED** LUXEON V2  
**FWHM / FWTM** 47.0 + 17.0° / 76.0 + 43.0°  
**Efficiency** 87 %  
**Peak intensity** 2.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



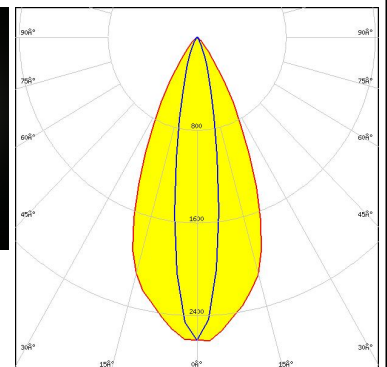
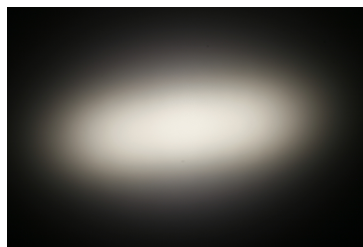
**LED** NVSW219F  
**FWHM / FWTM** 48.0 + 16.0° / 76.0 + 42.0°  
**Efficiency** 88 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** NVSxx19B/NVSxx19C  
**FWHM / FWTM** 47.0 + 18.0° / 74.0 + 37.0°  
**Efficiency** 80 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

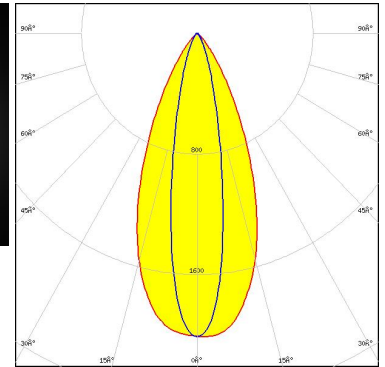
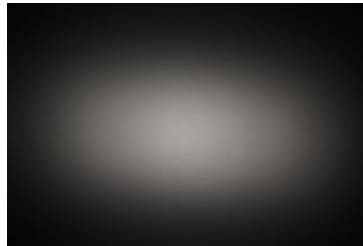


Light distribution files

#### OPTICAL RESULTS (MEASURED):



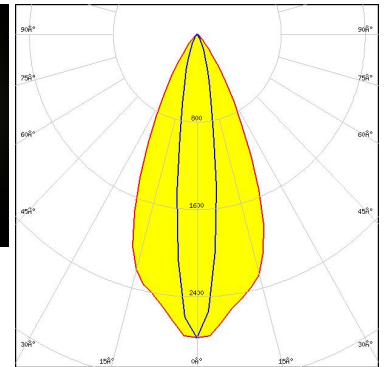
LED NWSx229A  
 FWHM / FWTM 20.0 + 45.0° / 75.0 + 45.0°  
 Efficiency 74 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



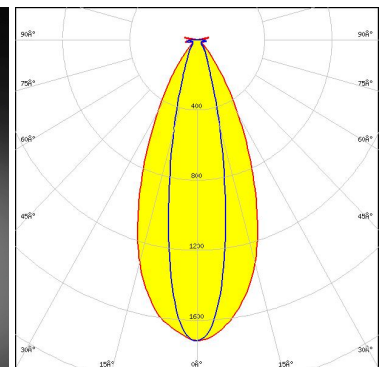
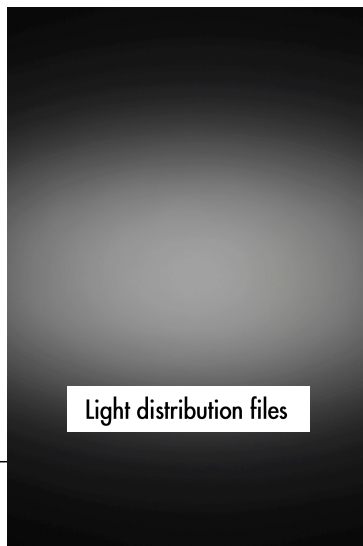
LED OSOLON Square EC  
 FWHM / FWTM 47.0 + 17.0° / 74.0 + 39.0°  
 Efficiency 79 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LH181A  
 FWHM / FWTM 46.0 + 22.0° / 79.0 + 48.0°  
 Efficiency 85 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

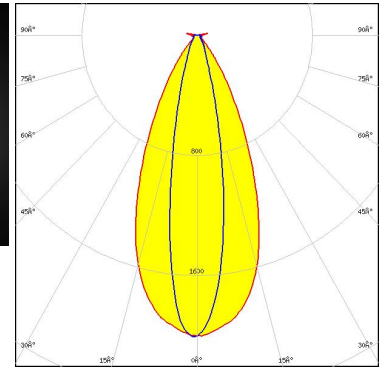


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

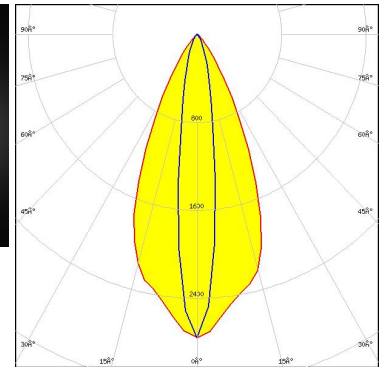
LED LH181B  
FWHM / FWTM 46.0 + 21.0° / 78.0 + 44.0°  
Efficiency 88 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

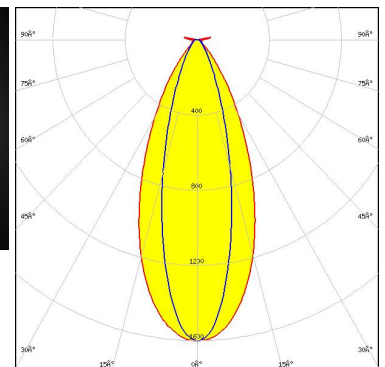
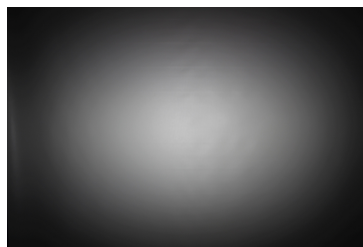
LED LH351Z  
FWHM / FWTM 47.0 + 15.0° / 73.0 + 40.0°  
Efficiency 78 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

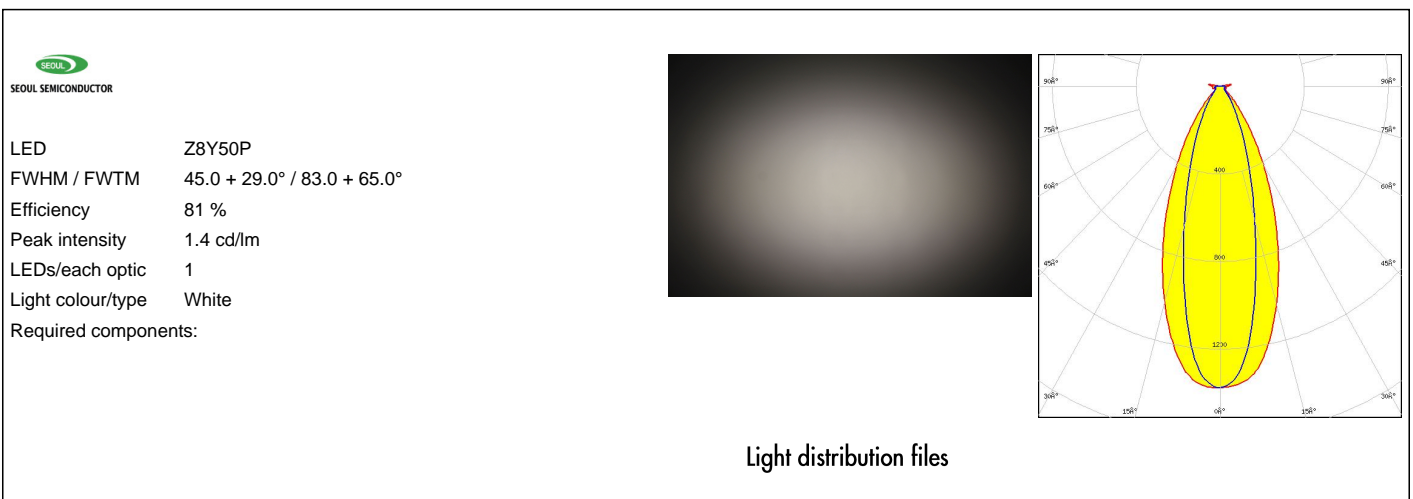
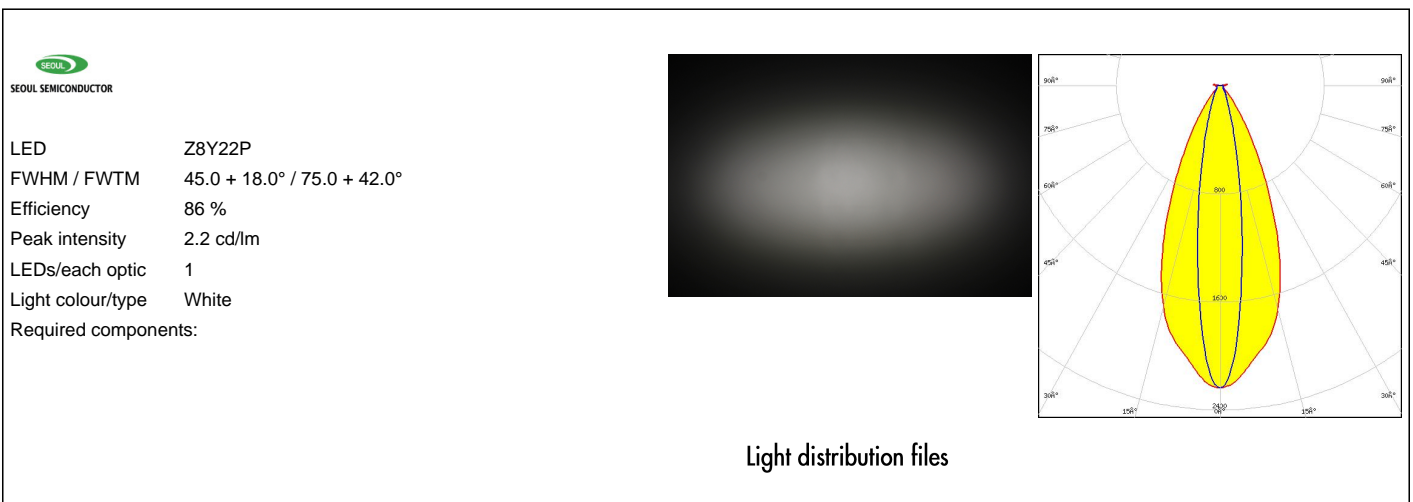
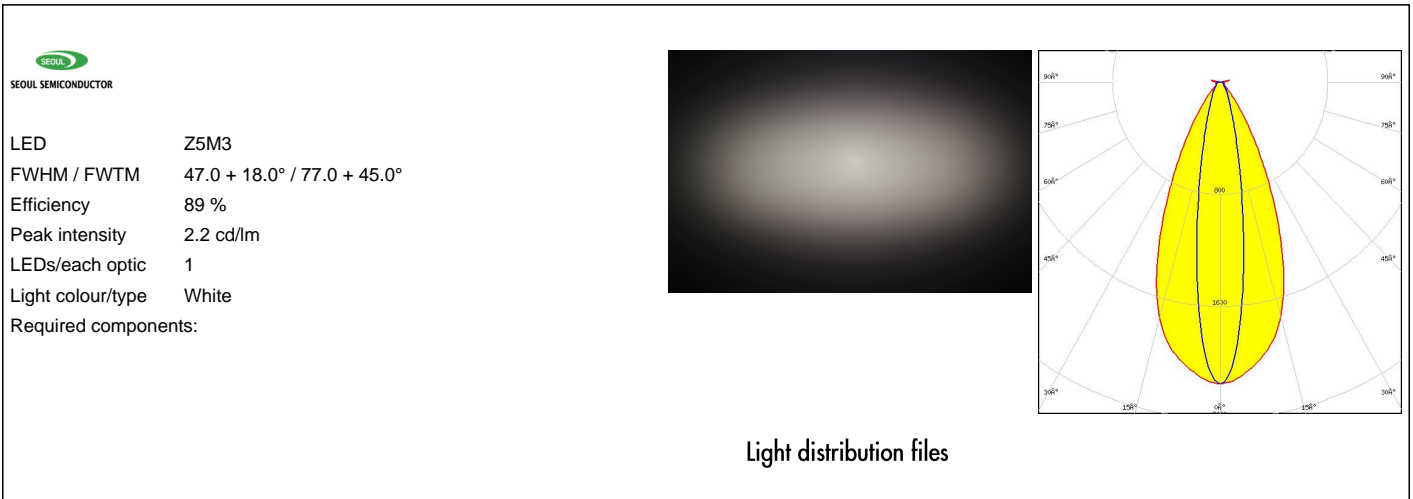


LED MJT 5050  
FWHM / FWTM 45.0 + 28.0° / 82.0 + 60.0°  
Efficiency 87 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

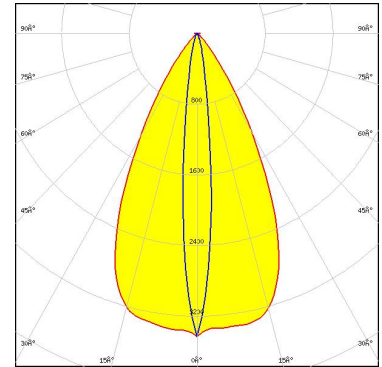
#### OPTICAL RESULTS (MEASURED):



### OPTICAL RESULTS (SIMULATED):



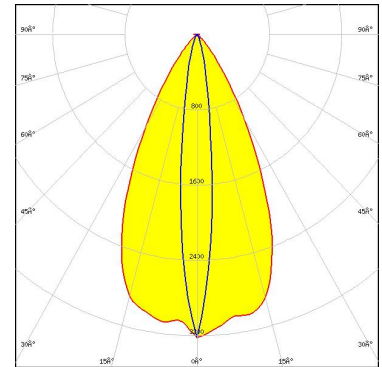
LED XP-E2  
 FWHM / FWTM 54.0 + 12.0° / 80.0 + 26.0°  
 Efficiency 89 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Blue  
 Required components:



Light distribution files



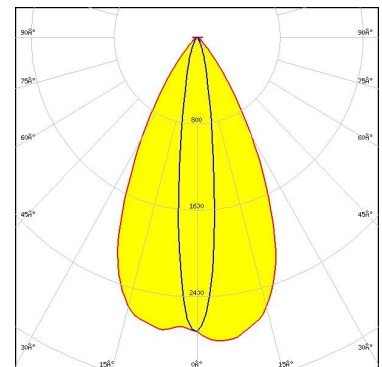
LED XP-E2  
 FWHM / FWTM 52.0 + 12.0° / 79.0 + 31.0°  
 Efficiency 88 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type Amber  
 Required components:



Light distribution files



LED XP-G2 HE  
 FWHM / FWTM 54.0 + 14.0° / 80.0 + 35.0°  
 Efficiency 92 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

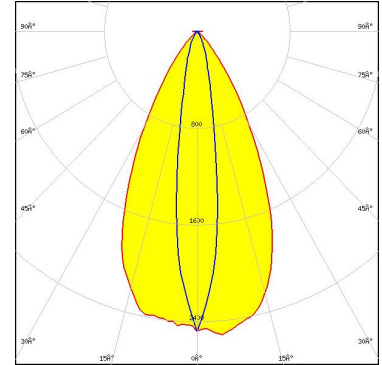


Light distribution files

### OPTICAL RESULTS (SIMULATED):



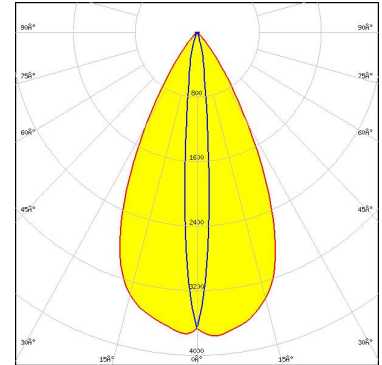
LED XP-L HD  
FWHM / FWTM 53.0 + 16.0° / 82.0 + 38.0°  
Efficiency 86 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



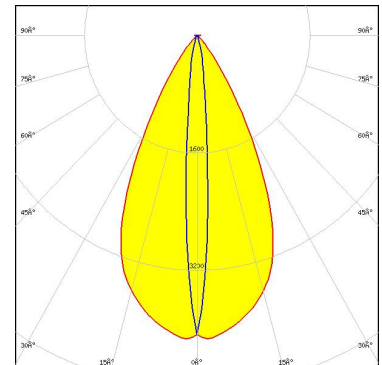
LED XQ-E HD  
FWHM / FWTM 53.0 + 10.0° / 78.0 + 27.0°  
Efficiency 89 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XQ-E HI  
FWHM / FWTM 53.0 + 8.0° / 76.0 + 24.0°  
Efficiency 89 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

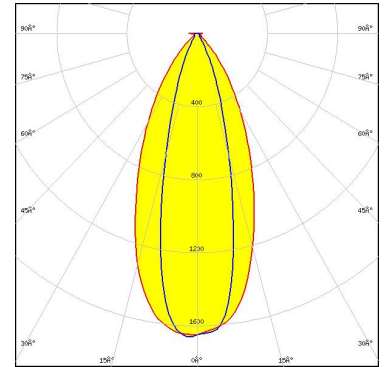


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



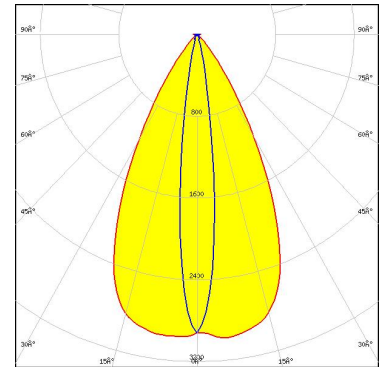
**LED** LUXEON C  
**FWHM / FWTM** 46.0 + 27.0° / 85.0 + 53.0°  
**Efficiency** 84 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 4  
**Light colour/type** RGBW  
**Required components:**



Light distribution files



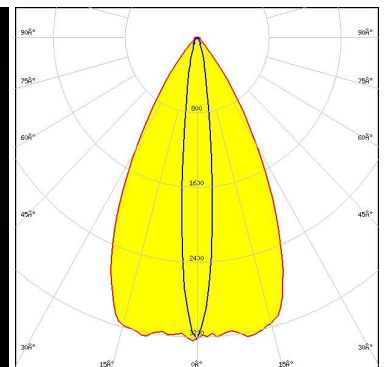
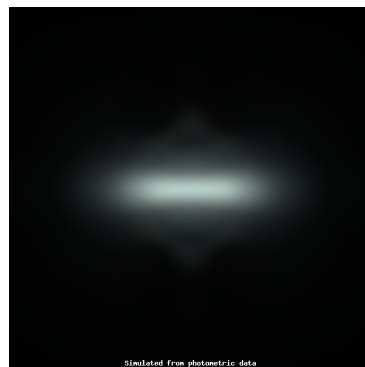
**LED** LUXEON HL1Z  
**FWHM / FWTM** 56.0 + 14.0° / 80.0 + 26.0°  
**Efficiency** 89 %  
**Peak intensity** 3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** SFT-40 Gen2  
**FWHM / FWTM** 56.0 + 12.0° / 80.0 + 30.0°  
**Efficiency** 92 %  
**Peak intensity** 3.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

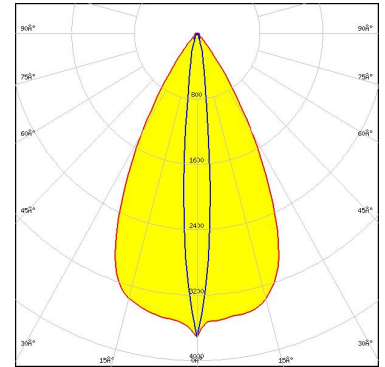


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



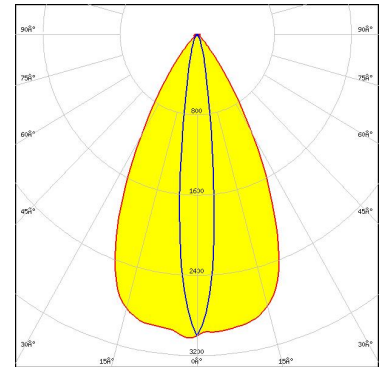
LED SFT-40-WCS  
 FWHM / FWTM 54.0 + 10.0° / 78.0 + 26.0°  
 Efficiency 92 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



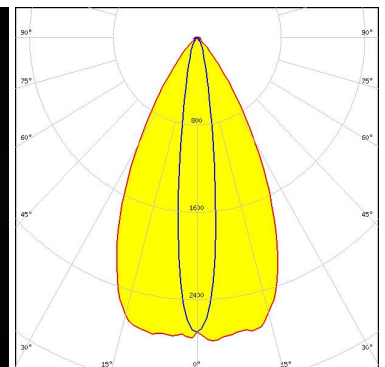
LED SFT-70X-WCS  
 FWHM / FWTM 54.0 + 14.0° / 80.0 + 31.0°  
 Efficiency 92 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



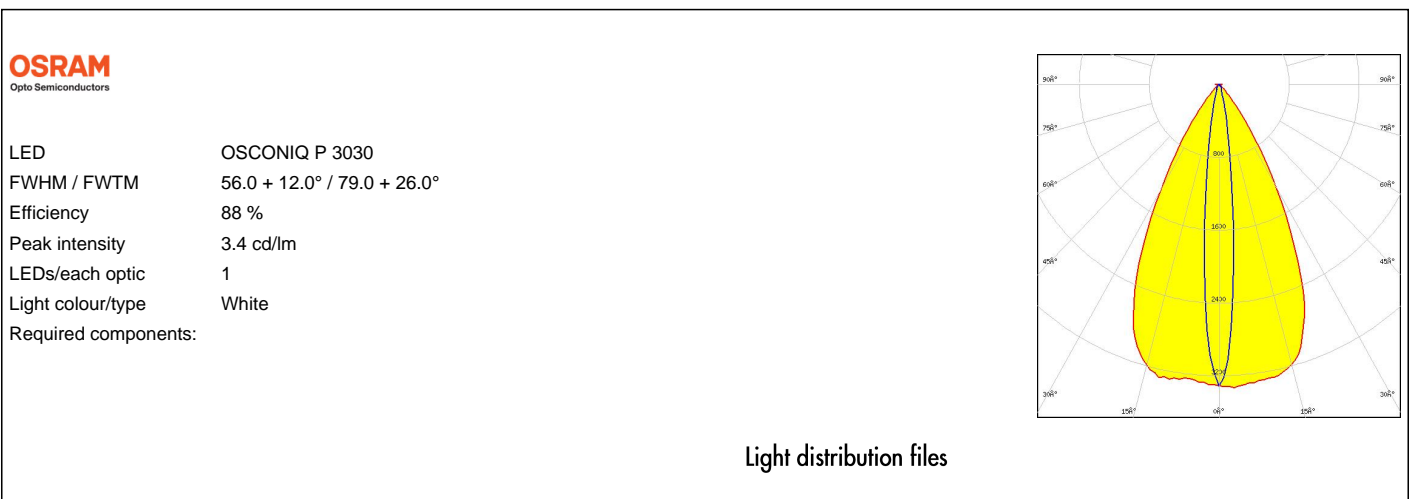
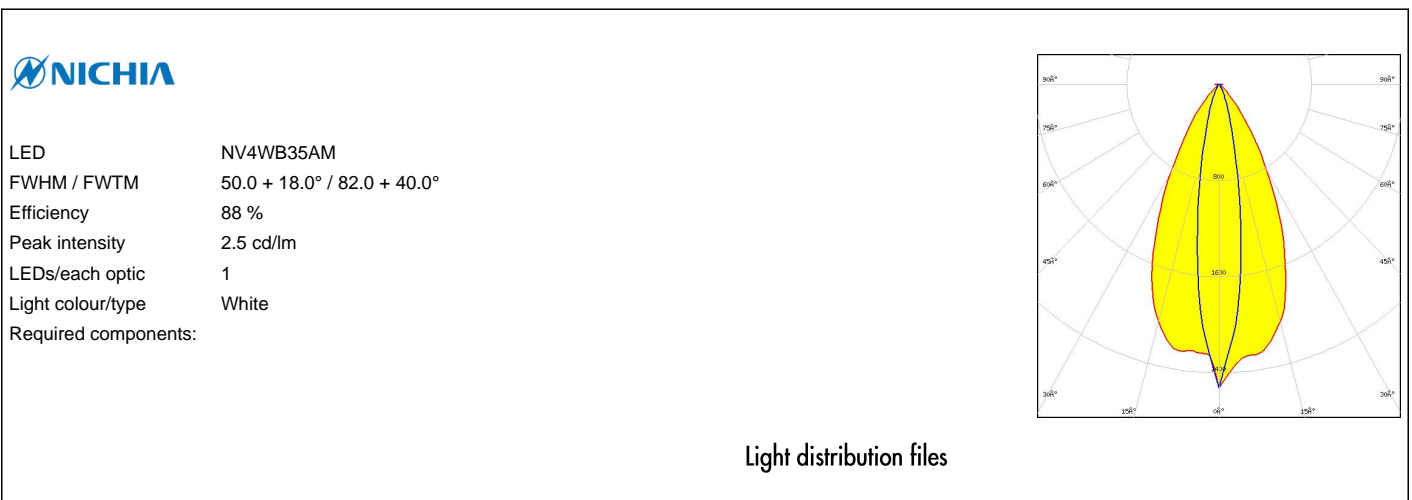
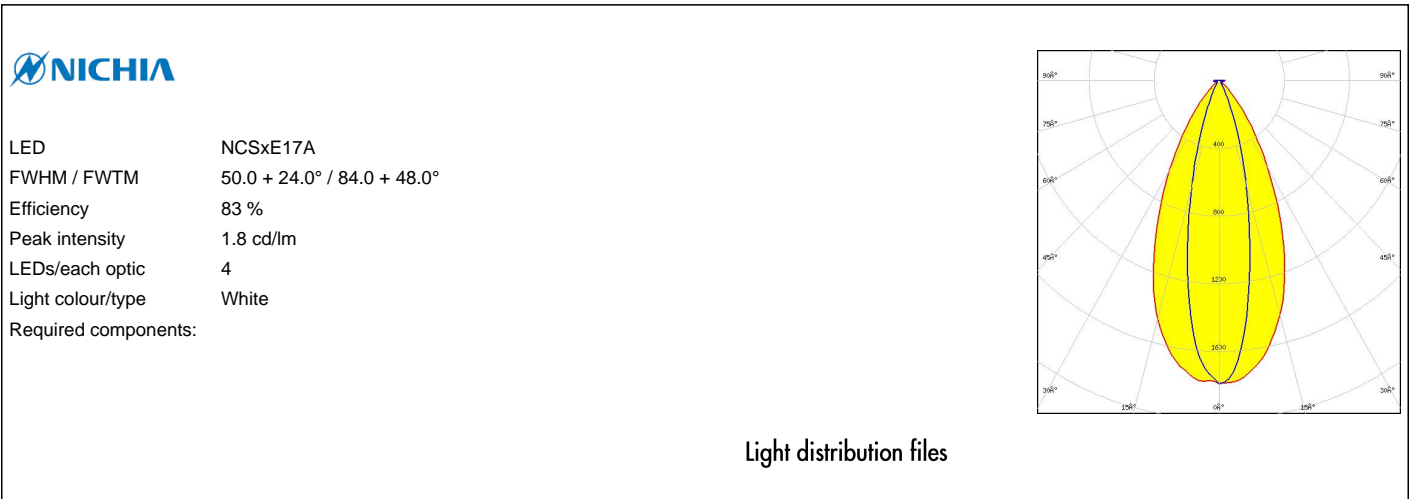
LED SFT-70X-WES-Gen2  
 FWHM / FWTM 56.0 + 14.0° / 82.0 + 34.0°  
 Efficiency 91 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



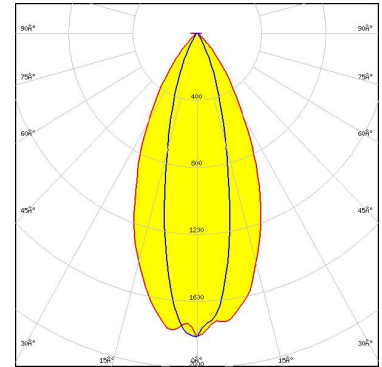
### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

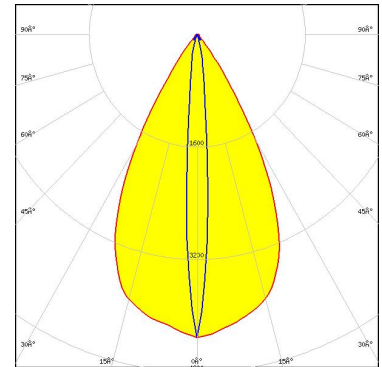
LED OSCONIQ P 7070  
 FWHM / FWTM 49.0 + 25.0° / 83.0 + 53.0°  
 Efficiency 84 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

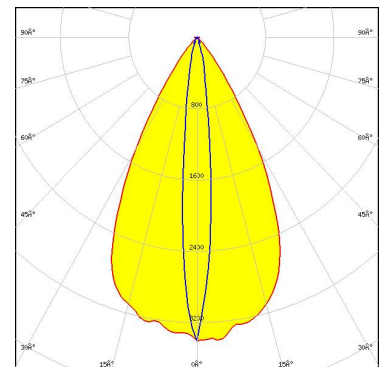
LED OSLON Pure 1414  
 FWHM / FWTM 56.0 + 8.0° / 76.0 + 22.0°  
 Efficiency 92 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files


**OSRAM**  
Opto Semiconductors

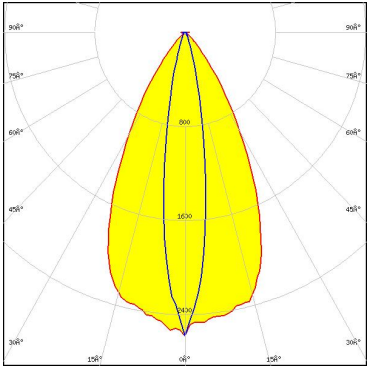
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 56.0 + 12.0° / 58.0 + 28.0°  
 Efficiency 88 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### OPTICAL RESULTS (SIMULATED):

 SEUL SEMICONDUCTOR	
LED	Z8Y22T
FWHM / FWTM	54.0 + 16.0° / 82.0 + 35.0°
Efficiency	89 %
Peak intensity	2.6 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:

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