

## VERONICA-SQ-M

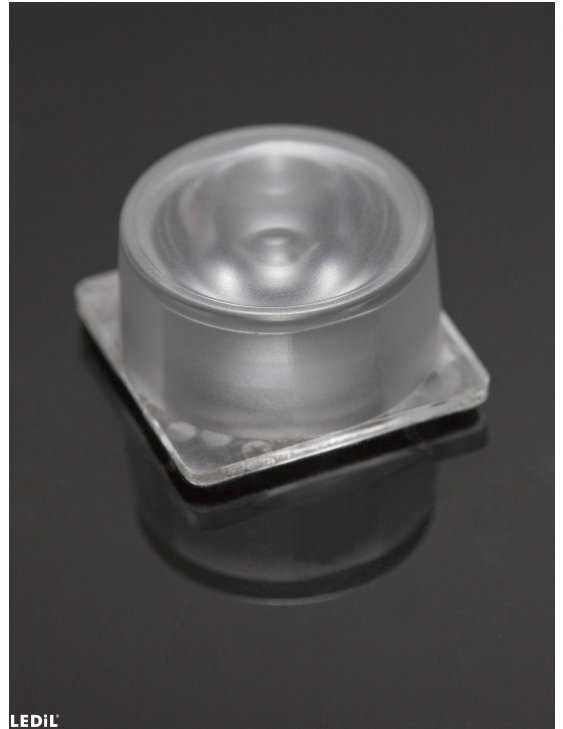
~30° medium beam

### SPECIFICATION:

Dimensions	22.5 x 22.5
Height	11.8 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

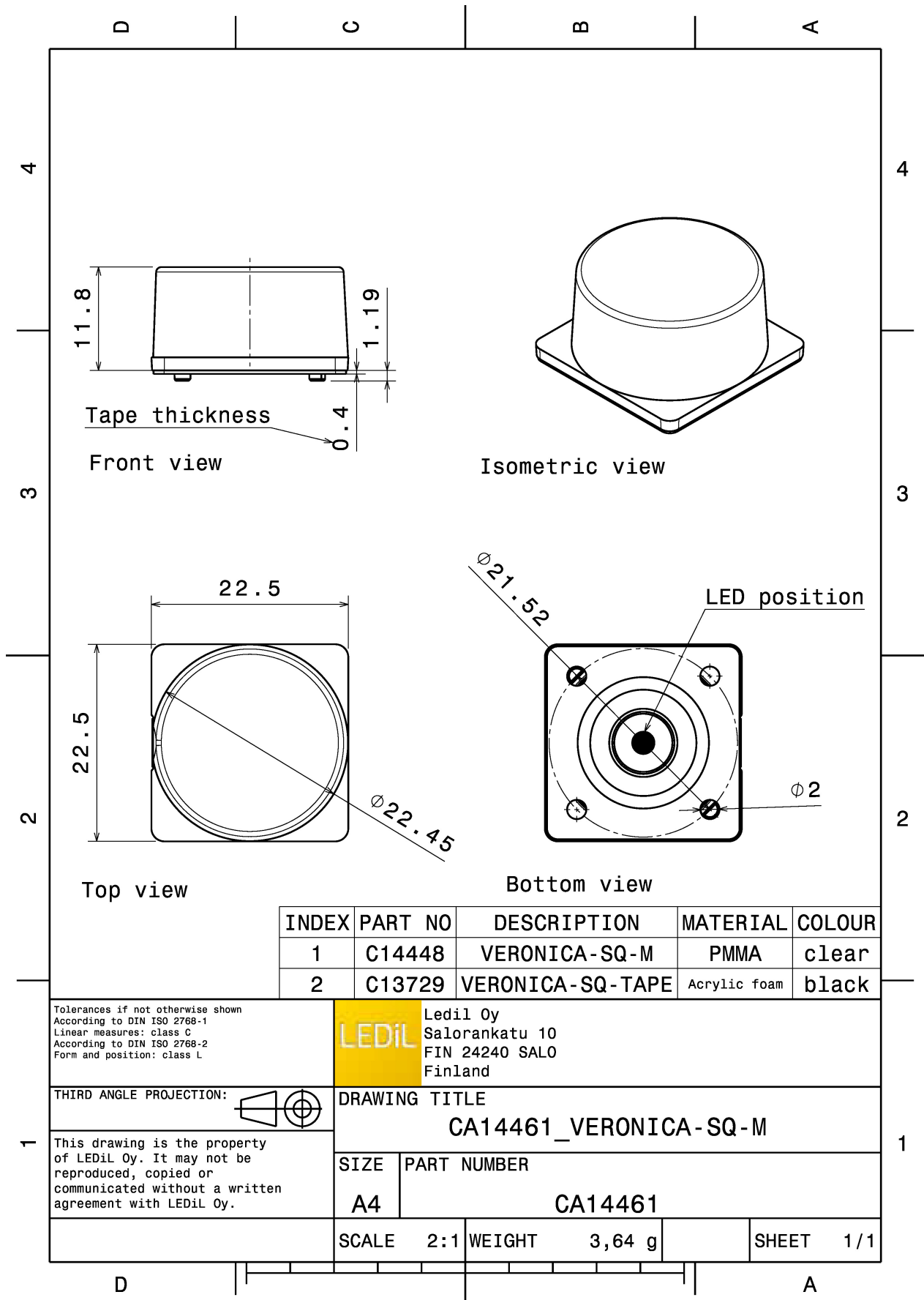
### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
VERONICA-SQ-M	Single lens	PMMA	clear		
VERONICA-TAPE	Tape	Acryl tape	clear		



### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA14461_VERONICA-SQ-M	Single lens	1980	360	180	8.2
» Box size: 476 x 273 x 197 mm					

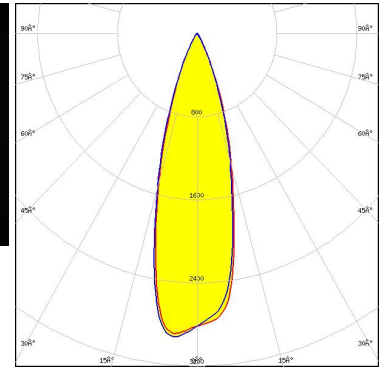
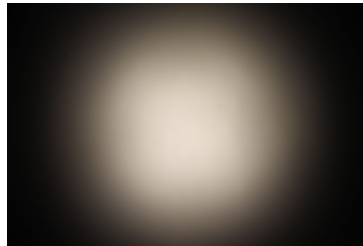


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



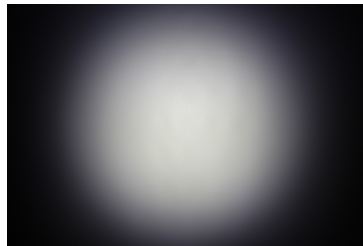
LED XB-H  
FWHM / FWTM 29.0° / 52.0°  
Efficiency 91 %  
Peak intensity 3 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



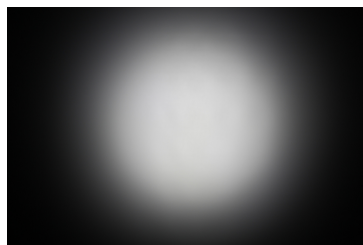
LED XHP35 HD  
FWHM / FWTM 40.0° / 64.0°  
Efficiency 88 %  
Peak intensity 1.9 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XHP35 HI  
FWHM / FWTM 33.0° / 54.0°  
Efficiency 88 %  
Peak intensity 2.7 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:

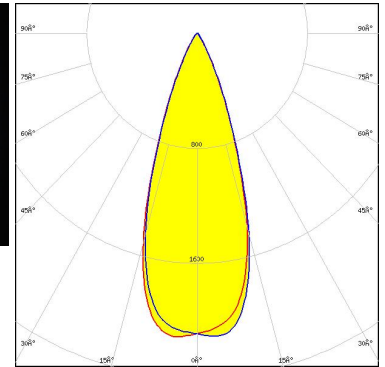
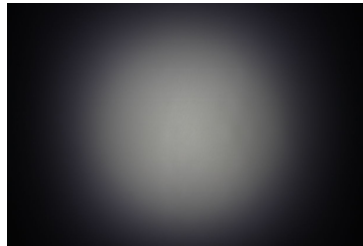


Light distribution files

#### OPTICAL RESULTS (MEASURED):



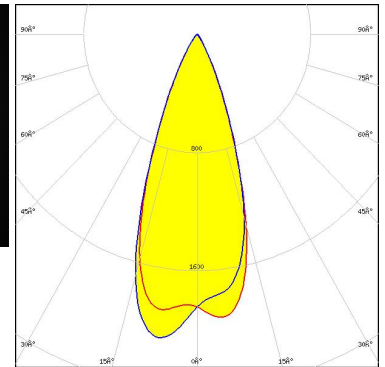
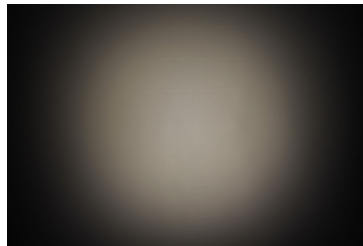
LED XM-L  
FWHM / FWTM 37.0° / 59.0°  
Efficiency 92 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



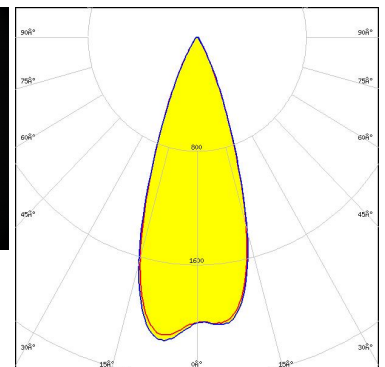
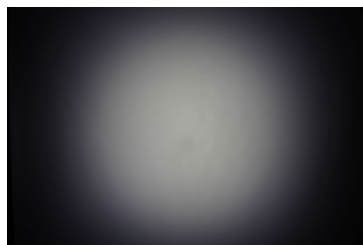
LED XM-L2  
FWHM / FWTM 38.0° / 60.0°  
Efficiency 91 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XM-L3  
FWHM / FWTM 37.0° / 58.0°  
Efficiency 95 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

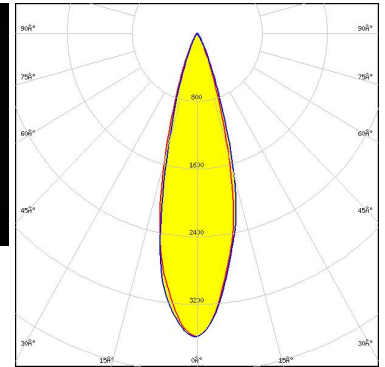
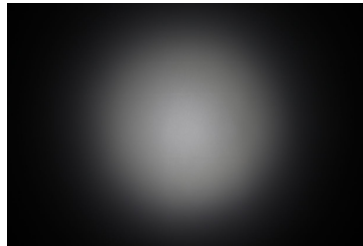


Light distribution files

#### OPTICAL RESULTS (MEASURED):



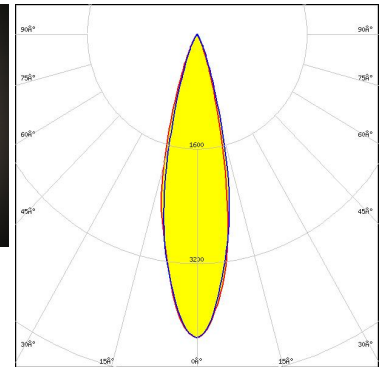
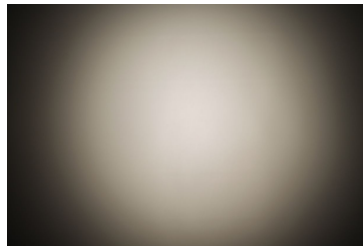
LED XP-E  
 FWHM / FWTM 28.0° / 47.0°  
 Efficiency 93 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



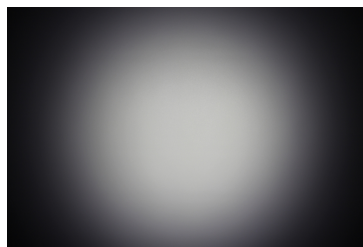
LED XP-E2  
 FWHM / FWTM 25.0° / 45.0°  
 Efficiency 94 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G2  
 FWHM / FWTM 30.0° / 52.0°  
 Efficiency 89 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

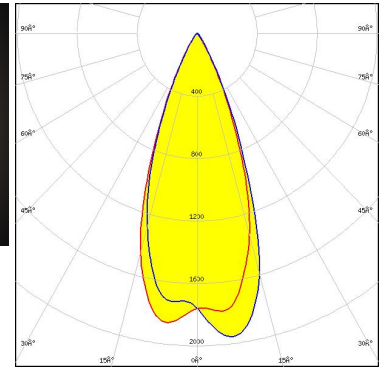
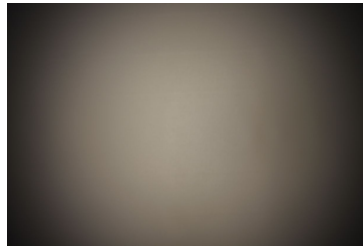


Light distribution files

### OPTICAL RESULTS (MEASURED):



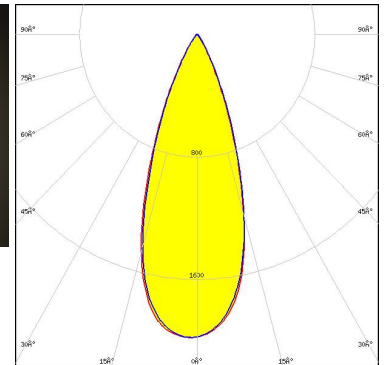
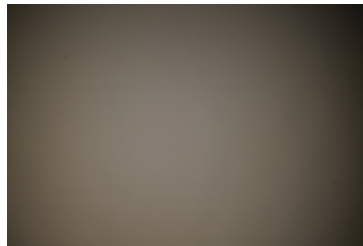
LED XP-L HD  
FWHM / FWTM 40.0° / 61.0°  
Efficiency 91 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



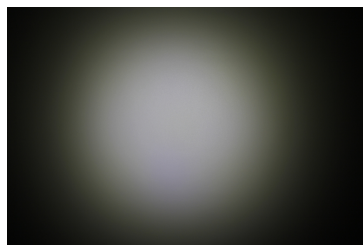
LED XP-L2  
FWHM / FWTM 37.0° / 60.0°  
Efficiency 87 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XT-E  
FWHM / FWTM 27.0° / 50.0°  
Efficiency 87 %  
Peak intensity 3.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

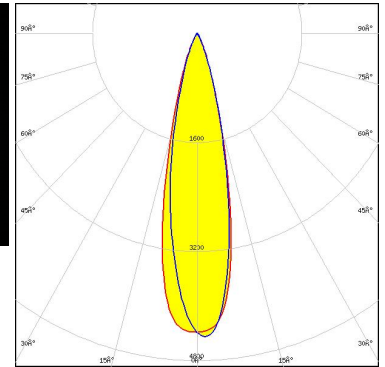


Light distribution files

#### OPTICAL RESULTS (MEASURED):



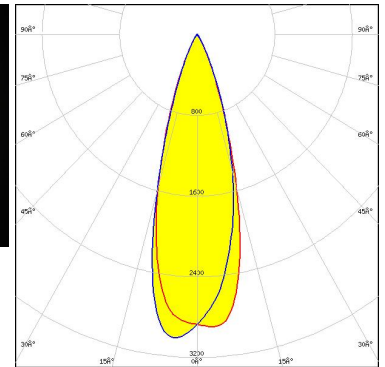
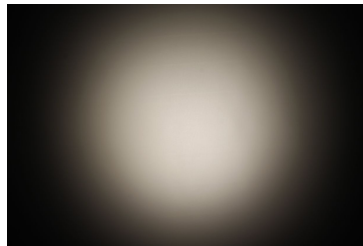
LED LUXEON 3030 2D (Round LES)  
 FWHM / FWTM 24.0° / 44.0°  
 Efficiency 94 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



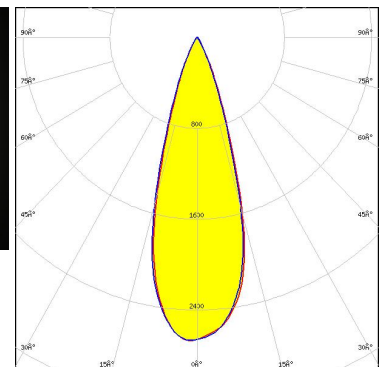
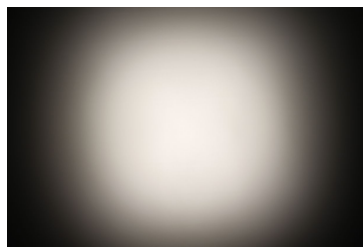
LED LUXEON A  
 FWHM / FWTM 30.0° / 52.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON MZ  
 FWHM / FWTM 32.0° / 52.0°  
 Efficiency 93 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

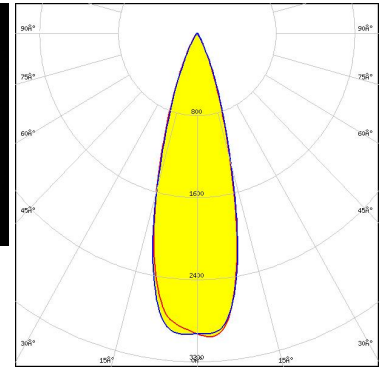
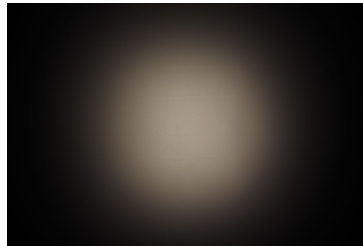


Light distribution files

#### OPTICAL RESULTS (MEASURED):



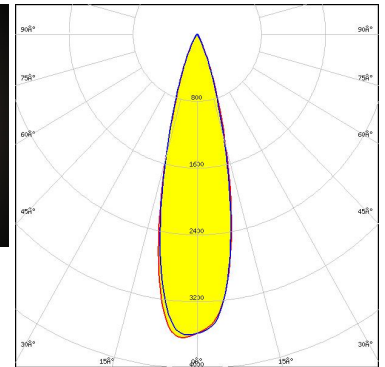
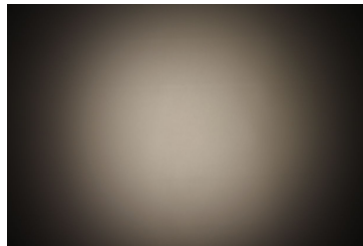
LED LUXEON R  
 FWHM / FWTM 30.0° / 51.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



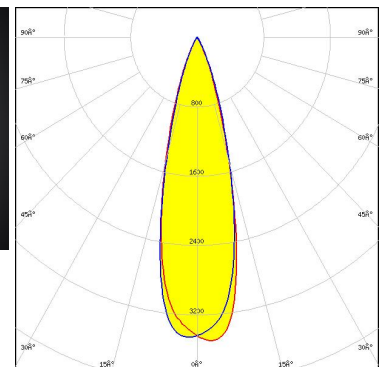
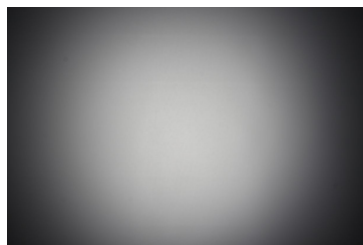
LED LUXEON Rebel  
 FWHM / FWTM 26.0° / 47.0°  
 Efficiency 92 %  
 Peak intensity 3.6 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Rebel ES  
 FWHM / FWTM 27.0° / 48.0°  
 Efficiency 91 %  
 Peak intensity 3.5 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



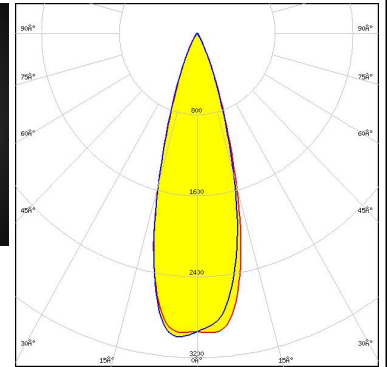
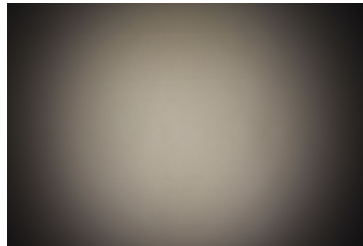
Light distribution files



#### OPTICAL RESULTS (MEASURED):



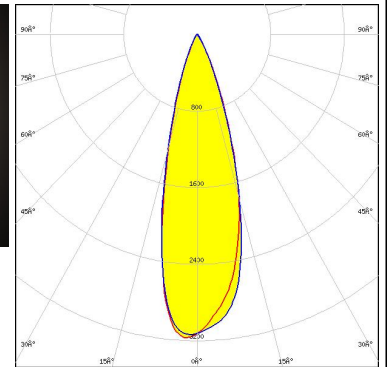
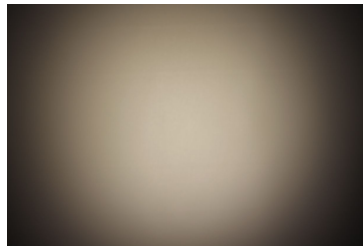
LED LUXEON T  
 FWHM / FWTM 30.0° / 51.0°  
 Efficiency 93 %  
 Peak intensity 3 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



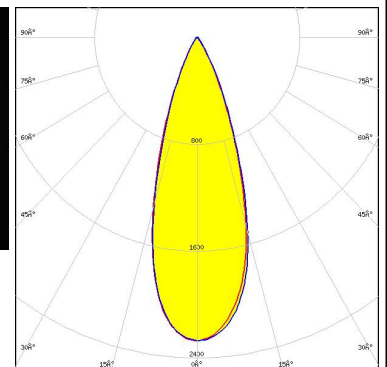
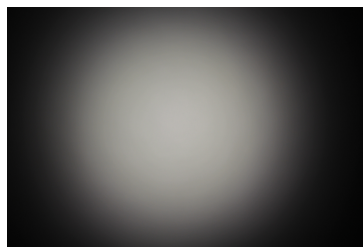
LED LUXEON TX  
 FWHM / FWTM 30.0° / 50.0°  
 Efficiency 92 %  
 Peak intensity 3.2 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON V  
 FWHM / FWTM 35.0° / 58.0°  
 Efficiency 90 %  
 Peak intensity 2.3 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

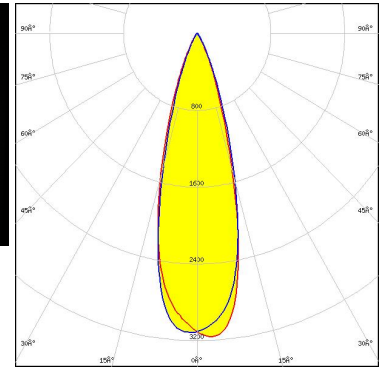
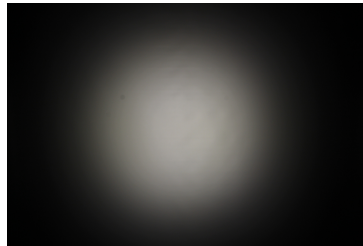


Light distribution files

#### OPTICAL RESULTS (MEASURED):



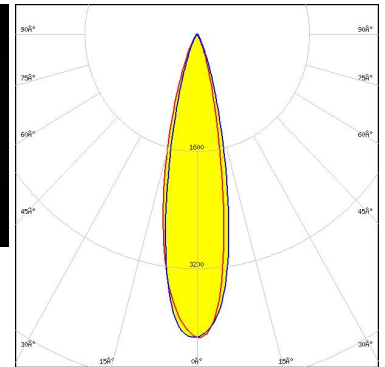
**LED** LUXEON V2  
**FWHM / FWTM** 29.0° / 51.0°  
**Efficiency** 94 %  
**Peak intensity** 3.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



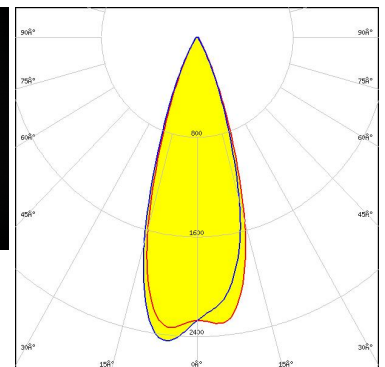
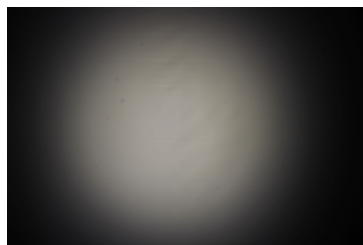
**LED** NCSxx19B  
**FWHM / FWTM** 23.0° / 44.0°  
**Efficiency** 92 %  
**Peak intensity** 4.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** NVSW219F  
**FWHM / FWTM** 35.0° / 56.0°  
**Efficiency** 94 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

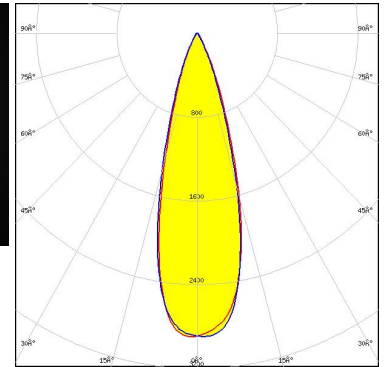


Light distribution files

#### OPTICAL RESULTS (MEASURED):



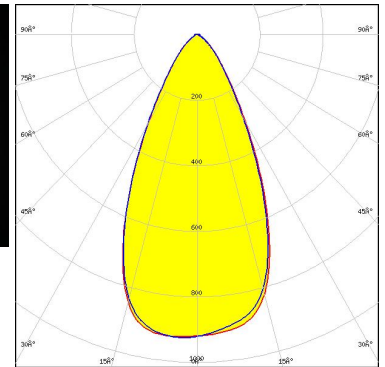
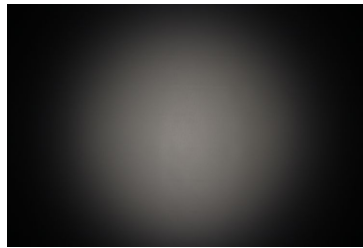
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 30.0° / 51.0°  
 Efficiency 91 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



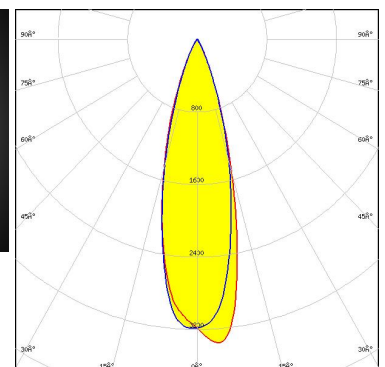
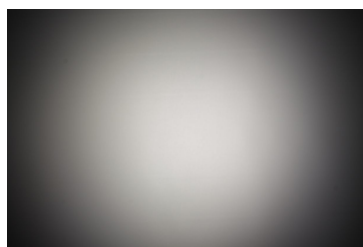
LED NWSx229A  
 FWHM / FWTM 39.0° / 59.0°  
 Efficiency 89 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED OSLOn Square EC  
 FWHM / FWTM 28.0° / 50.0°  
 Efficiency 91 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

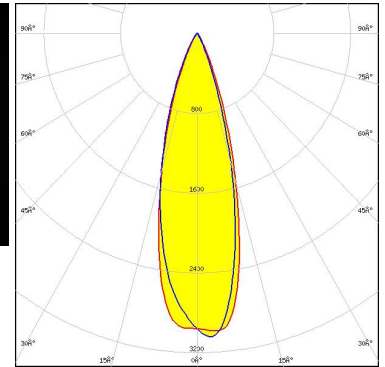
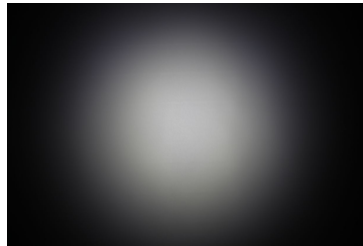


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

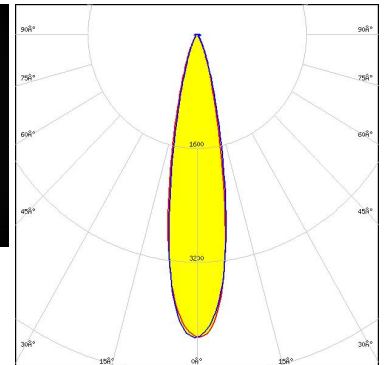
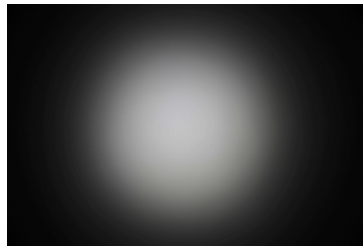
LED OSLON Square PC  
 FWHM / FWTM 29.0° / 51.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**SAMSUNG**

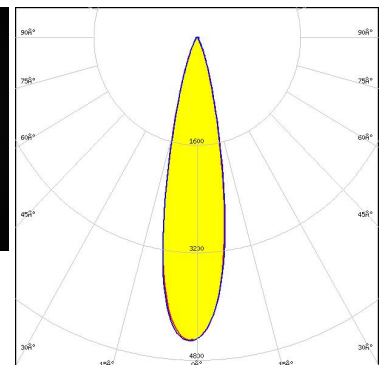
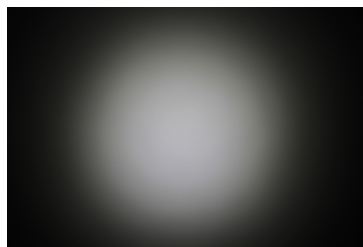
LED LH181A  
 FWHM / FWTM 21.0° / 42.0°  
 Efficiency 94 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

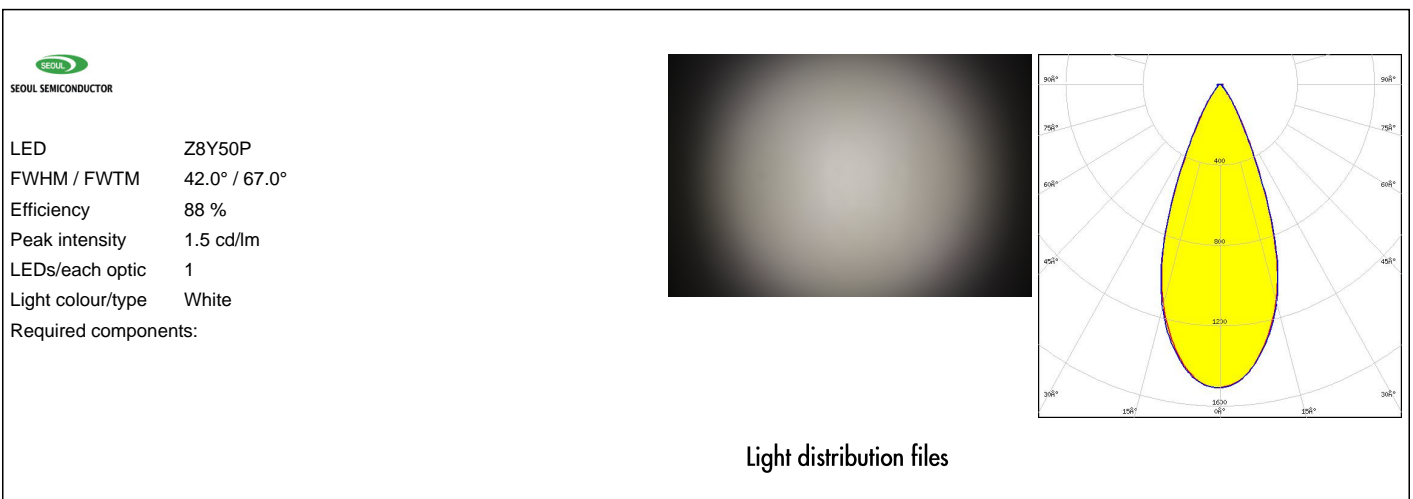
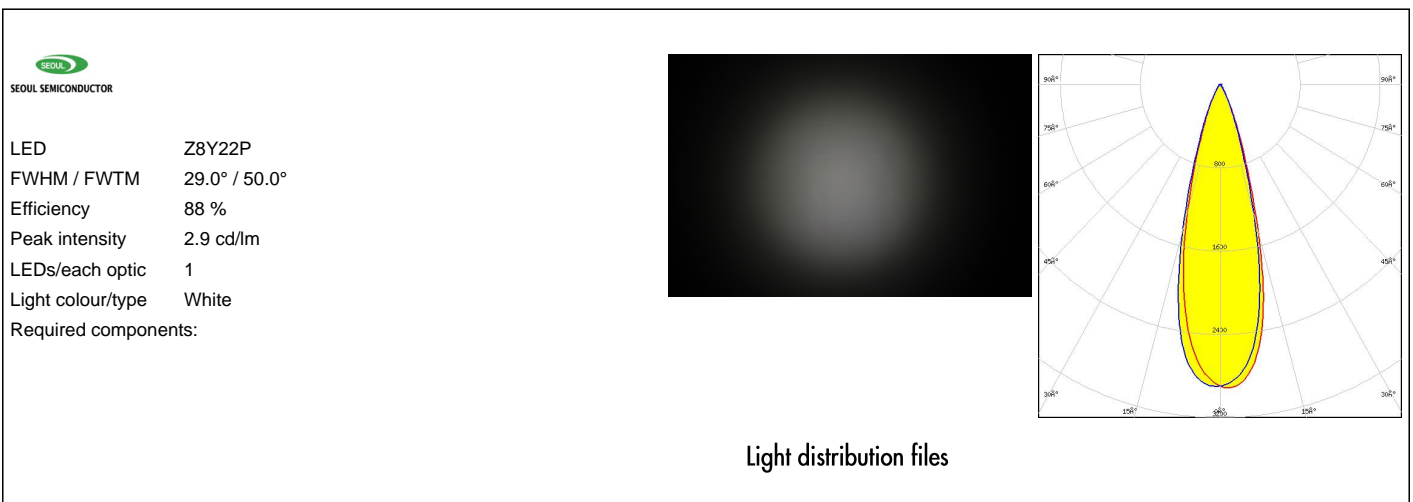
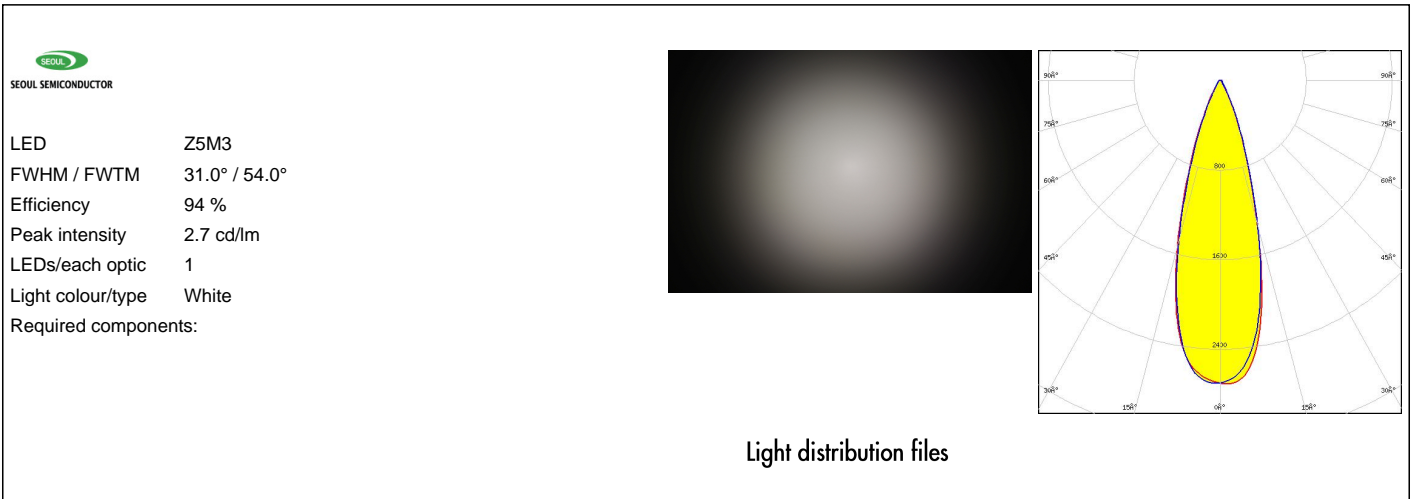
**SAMSUNG**

LED LH181B  
 FWHM / FWTM 23.0° / 42.0°  
 Efficiency 94 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

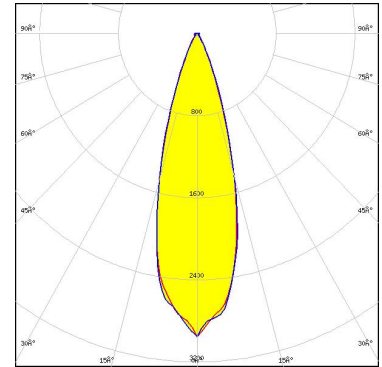
#### OPTICAL RESULTS (MEASURED):



#### OPTICAL RESULTS (SIMULATED):



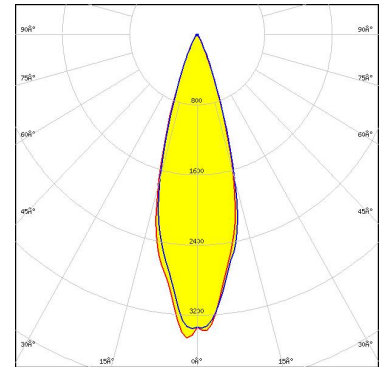
LED XHP35.2 HD  
 FWHM / FWTM 30.0° / 52.0°  
 Efficiency 95 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



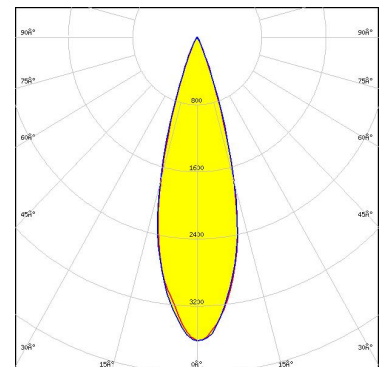
LED XP-G4 HI  
 FWHM / FWTM 30.0° / 48.0° + 49.0°  
 Efficiency 97 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON C  
 FWHM / FWTM 29.0° / 47.0°  
 Efficiency 94 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

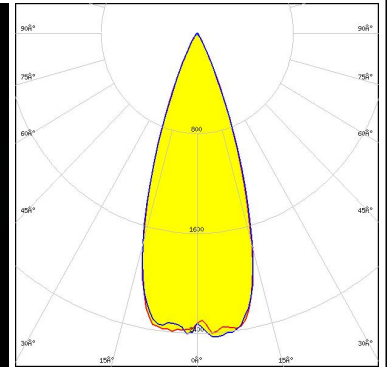


Light distribution files

### OPTICAL RESULTS (SIMULATED):



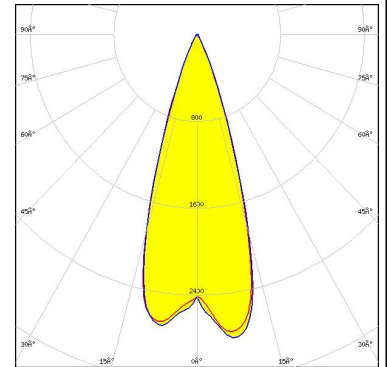
LED SFT-40 Gen2  
FWHM / FWTM 36.0 + 37.0° / 56.0 + 55.0°  
Efficiency 97 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



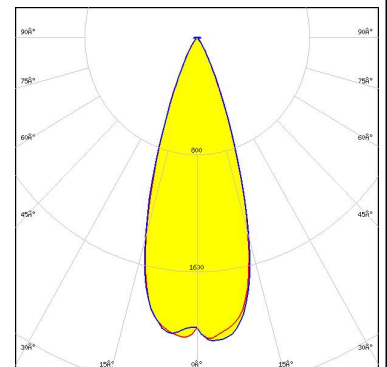
LED SFT-40-WCS  
FWHM / FWTM 34.0° / 50.0°  
Efficiency 97 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

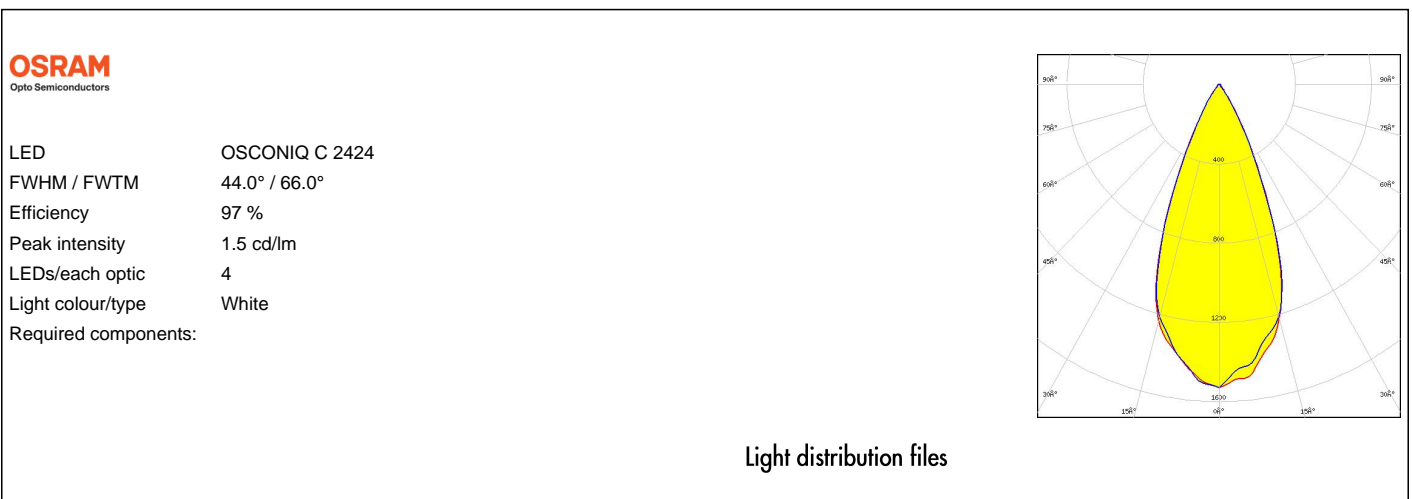
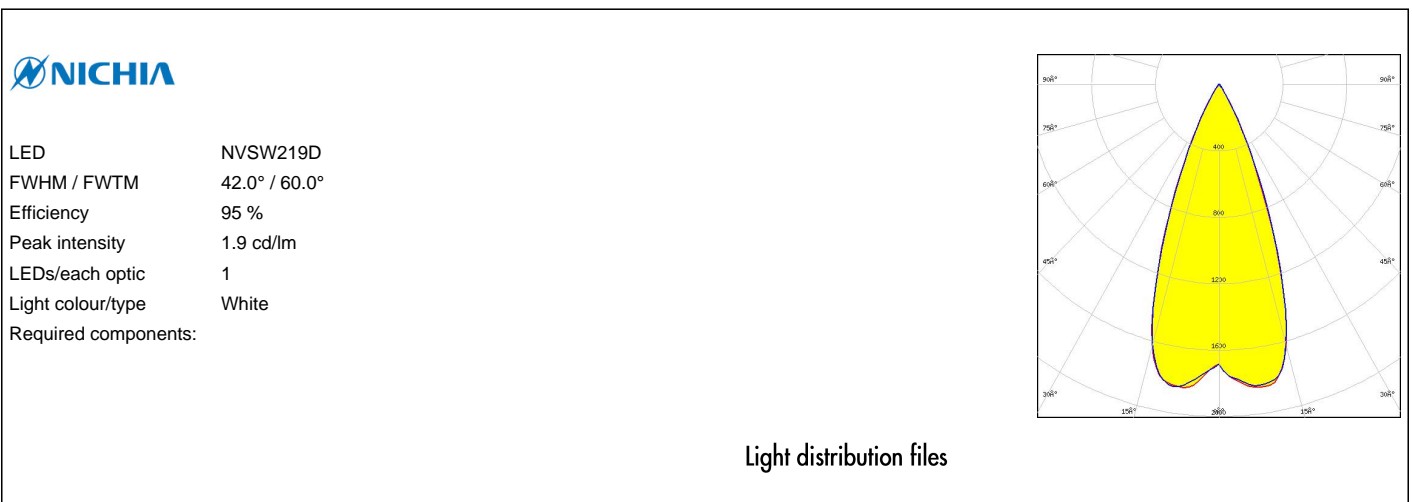
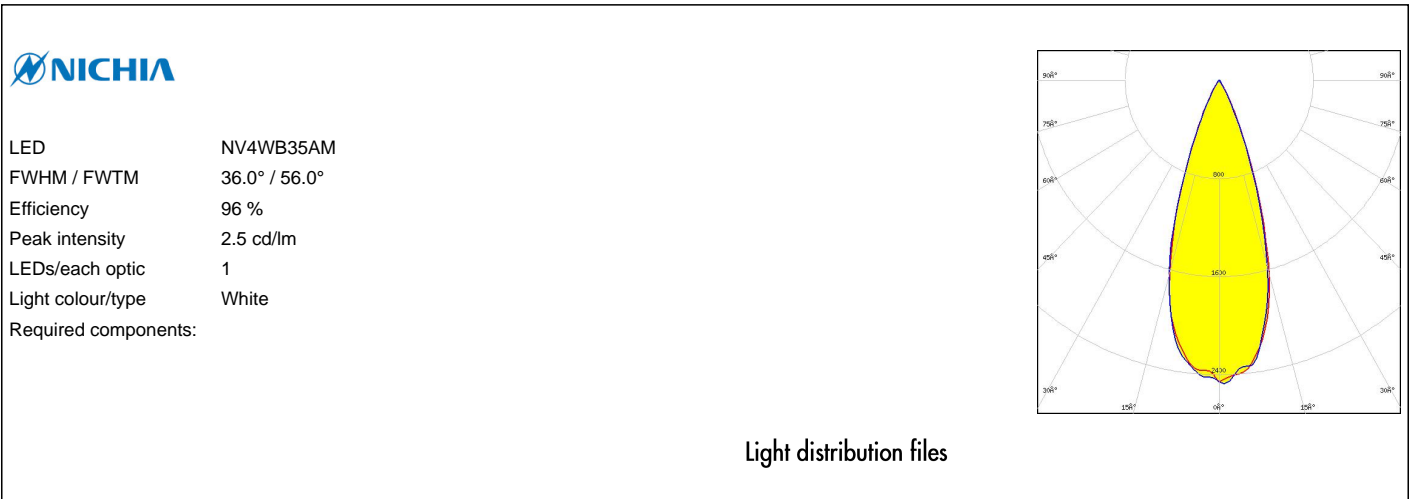


LED NCSxE17A  
FWHM / FWTM 36.0° / 56.0°  
Efficiency 93 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 4  
Light colour/type White  
Required components:



Light distribution files

#### OPTICAL RESULTS (SIMULATED):

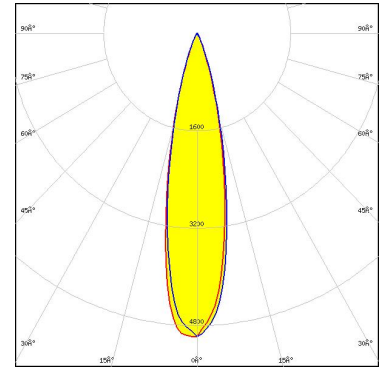




### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

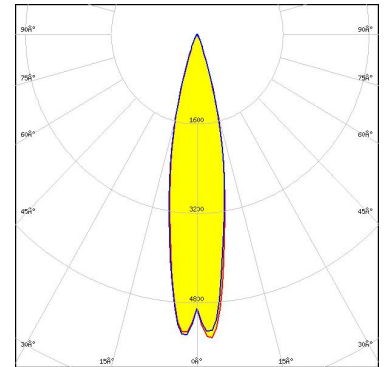
LED OSCONIQ P 3030  
FWHM / FWTM 23.0° / 42.0°  
Efficiency 96 %  
Peak intensity 5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

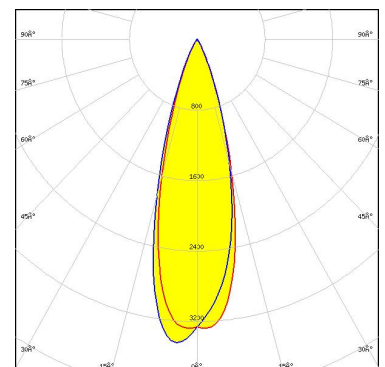
LED OSLO Pure 1414  
FWHM / FWTM 22.0° / 40.0°  
Efficiency 96 %  
Peak intensity 5.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

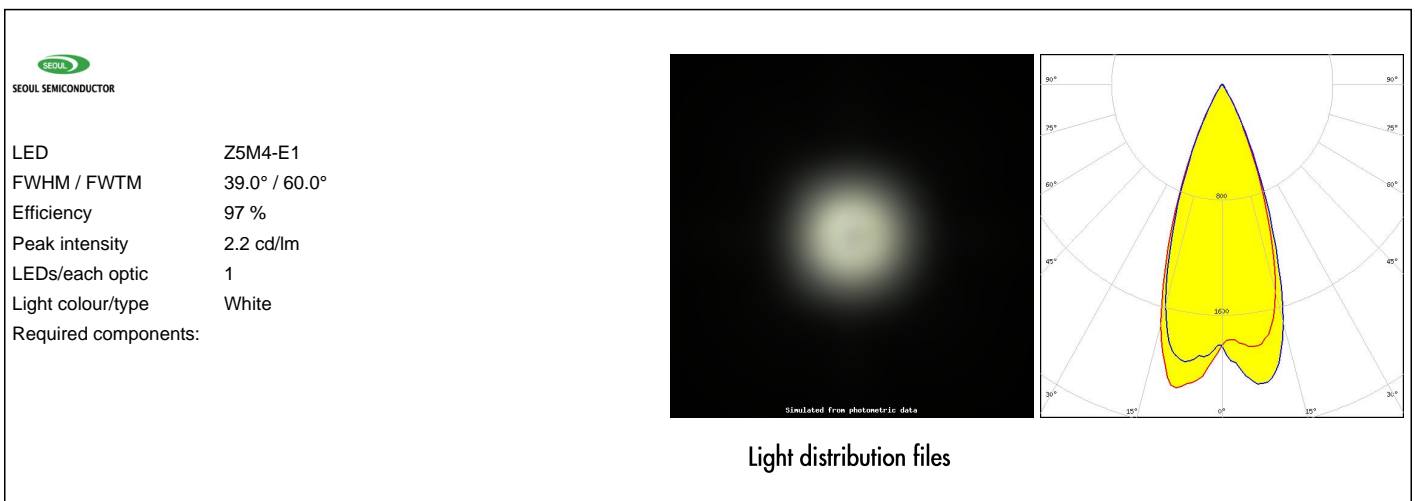
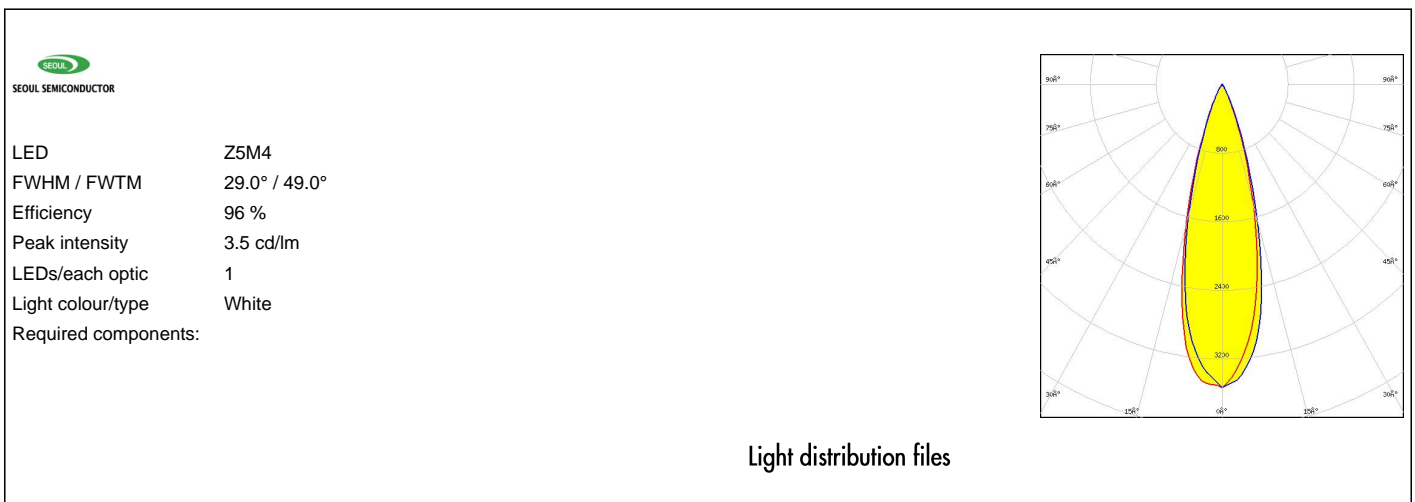
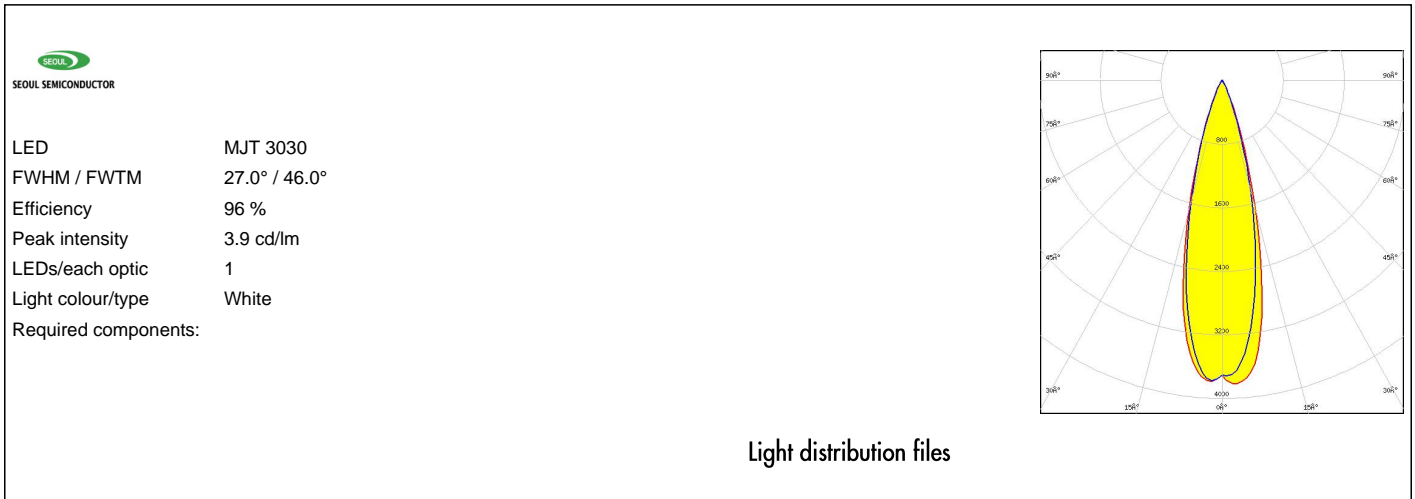
**SAMSUNG**

LED LM28xB Series  
FWHM / FWTM 29.0° / 50.0°  
Efficiency 94 %  
Peak intensity 3.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

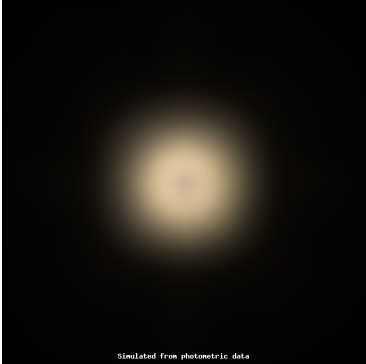


Light distribution files


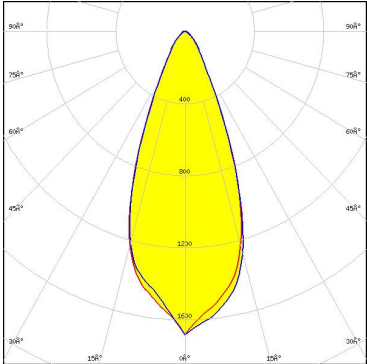
#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR		 <p style="text-align: center; font-size: small;">Simulated from photometric data</p>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	Z5M4-E2 42.0° / 63.0 + 62.0° 97 % 1.9 cd/lm 1 White		

Light distribution files

 SEOUL SEMICONDUCTOR		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	Z8Y22T 28.0° / 47.0° 94 % 3.8 cd/lm 1 White	

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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