

## VERONICA-SQ-MINI-D

~15° diffused spot beam

### SPECIFICATION:

Dimensions	13.9 x 13.9
Height	8.9 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

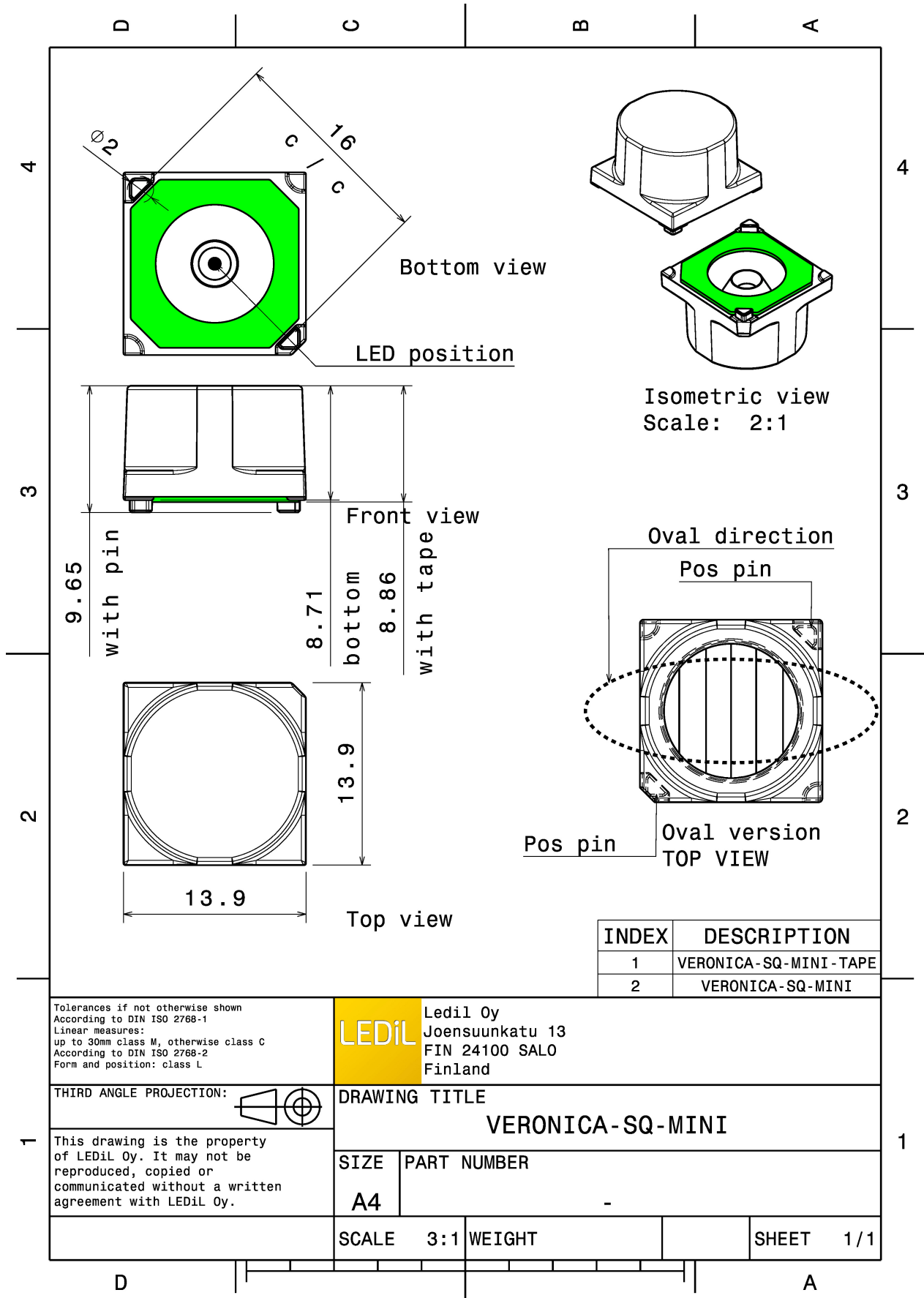
### MATERIALS:

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



### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA15519_VERONICA-SQ-MINI-D	Single lens	5544	252	252	8.2
» Box size: 480 x 280 x 300 mm					

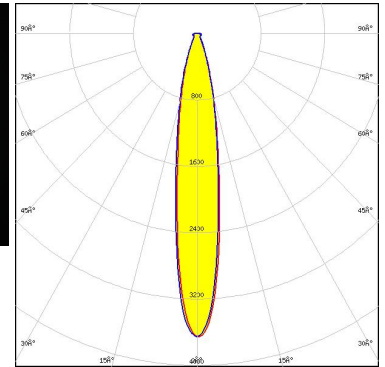
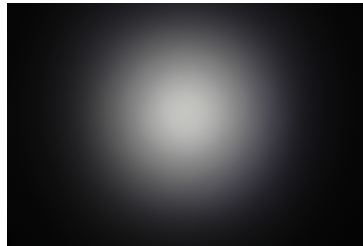


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



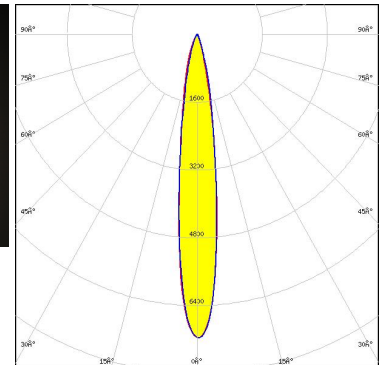
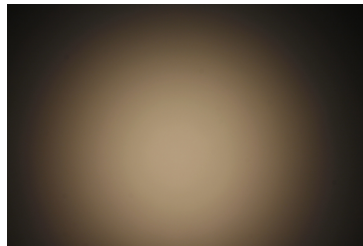
**LED** XD16  
**FWHM / FWTM** 17.0° / 42.0°  
**Efficiency** 90 %  
**Peak intensity** 3.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



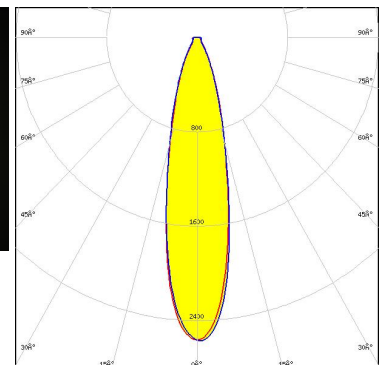
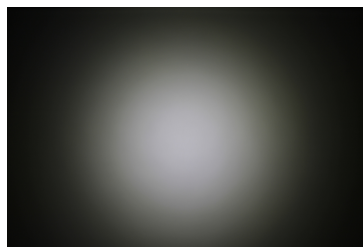
**LED** XP-E2  
**FWHM / FWTM** 15.0° / 33.0°  
**Efficiency** 92 %  
**Peak intensity** 7.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** XP-G3  
**FWHM / FWTM** 24.0° / 55.0°  
**Efficiency** 93 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

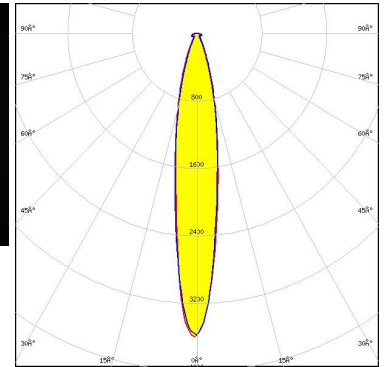
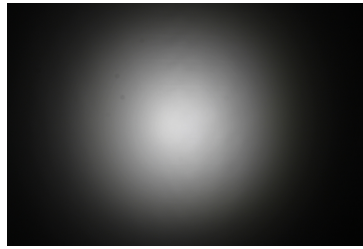


Light distribution files

#### OPTICAL RESULTS (MEASURED):



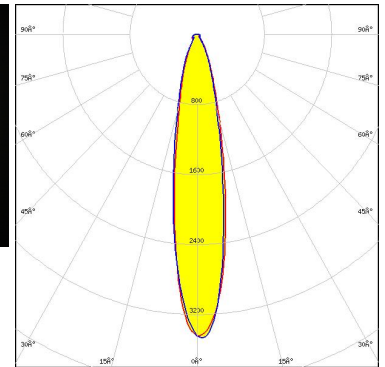
**LED** NCSxE17A  
**FWHM / FWTM** 17.0° / 44.0°  
**Efficiency** 89 %  
**Peak intensity** 3.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** Duris S5 (2 chip)  
**FWHM / FWTM** 20.0° / 48.0°  
**Efficiency** 93 %  
**Peak intensity** 3.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** SFH 4170S  
**FWHM / FWTM** 11.0° / 31.0°  
**Efficiency** %  
**LEDs/each optic** 1  
**Light colour/type** IR  
**Required components:**

Light distribution files

#### OPTICAL RESULTS (MEASURED):

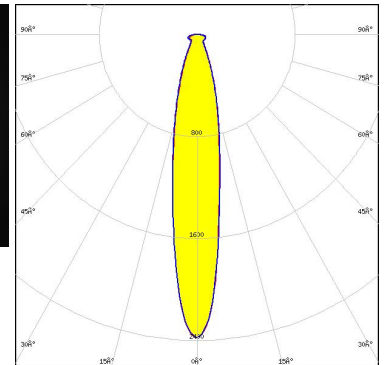
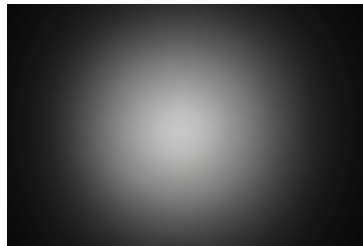
**OSRAM**  
Opto Semiconductors

LED SFH 4180S  
FWHM / FWTM 11.0° / 29.0°  
Efficiency %  
LEDs/each optic 1  
Light colour/type IR  
Required components:

Light distribution files

**SAMSUNG**

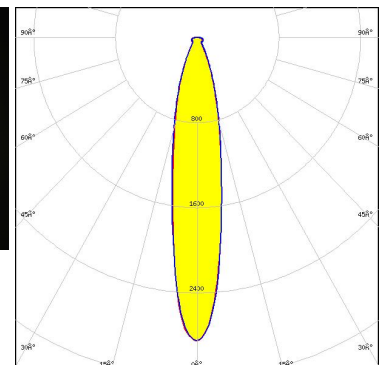
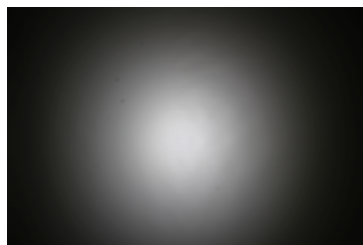
LED LH181A  
FWHM / FWTM 19.0° / 51.0°  
Efficiency 88 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED LH181B  
FWHM / FWTM 19.0° / 50.0°  
Efficiency 90 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

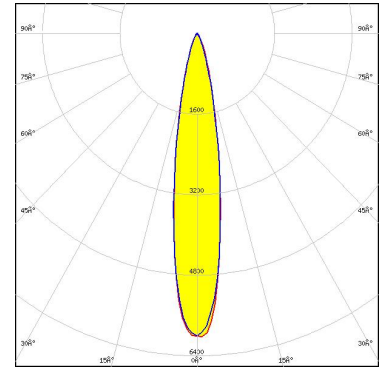


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



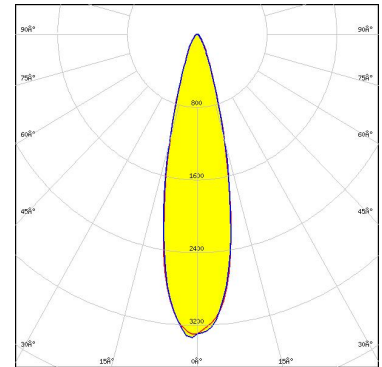
LED J Series 3030  
FWHM / FWTM 18.0° / 38.0°  
Efficiency 94 %  
Peak intensity 6.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



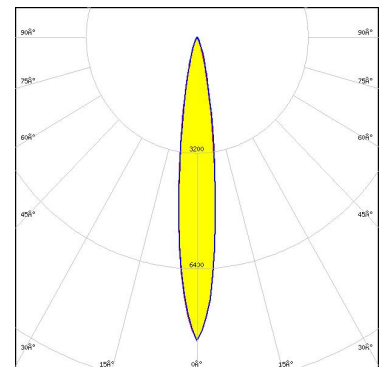
LED XP-G2 HE  
FWHM / FWTM 26.0° / 49.0°  
Efficiency 97 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON 2835 Line  
FWHM / FWTM 14.0° / 32.0°  
Efficiency 96 %  
Peak intensity 8.4 cd/lm  
LEDs/each optic 1  
Light colour/type PC Amber  
Required components:

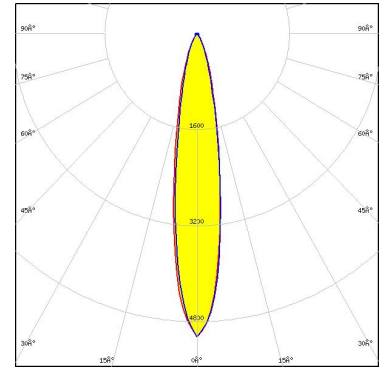


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



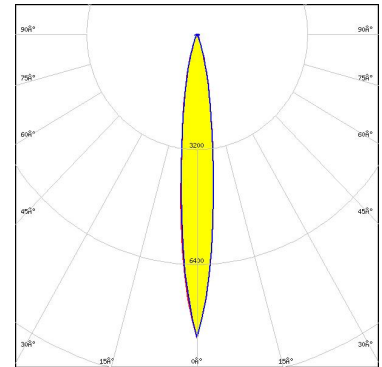
LED LUXEON 3030 HV  
FWHM / FWTM 18.0° / 43.0°  
Efficiency 95 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



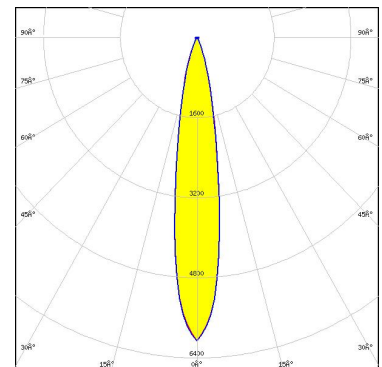
LED LUXEON HL1Z  
FWHM / FWTM 12.0° / 32.0°  
Efficiency 96 %  
Peak intensity 8.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED SST-20 Gen1  
FWHM / FWTM 18.0° / 38.0°  
Efficiency 96 %  
Peak intensity 6.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



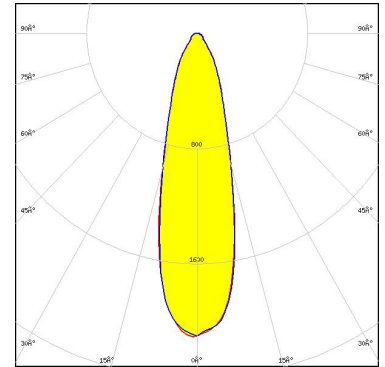
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



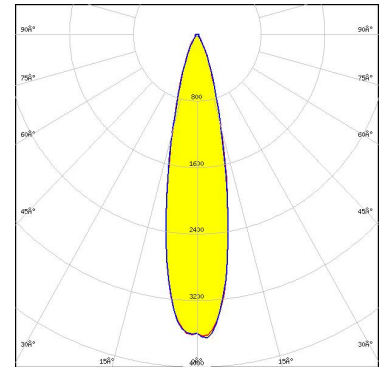
LED NV4WB35AM  
FWHM / FWTM 28.0° / 68.0°  
Efficiency 95 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



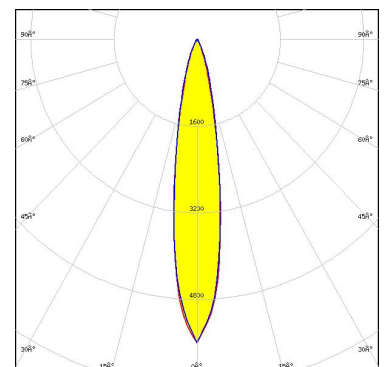
LED NVSxx19B/NVSxx19C  
FWHM / FWTM 24.0° / 48.0°  
Efficiency 94 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED OSCONIQ P 3737 (2W version)  
FWHM / FWTM 18.0° / 39.0°  
Efficiency 94 %  
Peak intensity 5.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



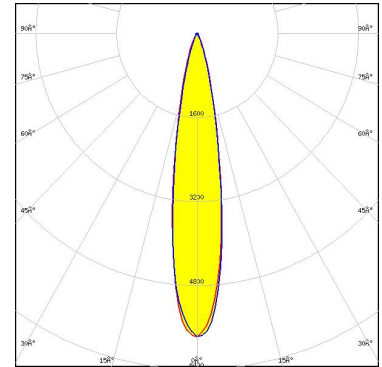
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

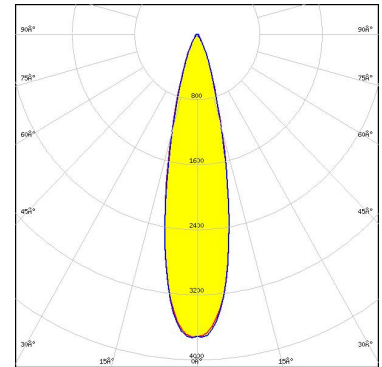
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 19.0° / 38.0°  
Efficiency 94 %  
Peak intensity 5.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

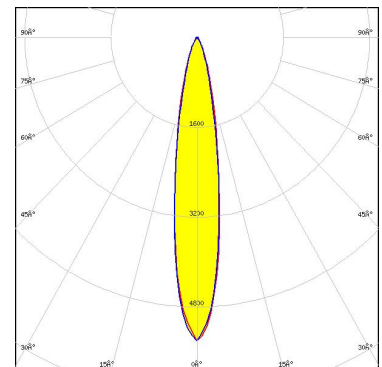
LED LH351B  
FWHM / FWTM 24.0° / 47.0°  
Efficiency 94 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files


**SEMI**  
SEOUL SEMICONDUCTOR

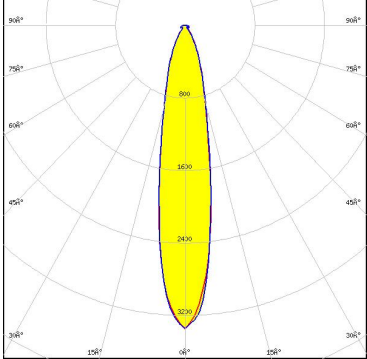
LED MJT 3030  
FWHM / FWTM 18.0° / 41.0°  
Efficiency 96 %  
Peak intensity 5.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### OPTICAL RESULTS (SIMULATED):

 SEOL SEMICONDUCTOR	
LED	Z8Y22T
FWHM / FWTM	20.0° / 52.0°
Efficiency	94 %
Peak intensity	3.4 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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