

### VERONICA-SQ-MINI-O

~15° + 50° oval beam

#### SPECIFICATION:

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

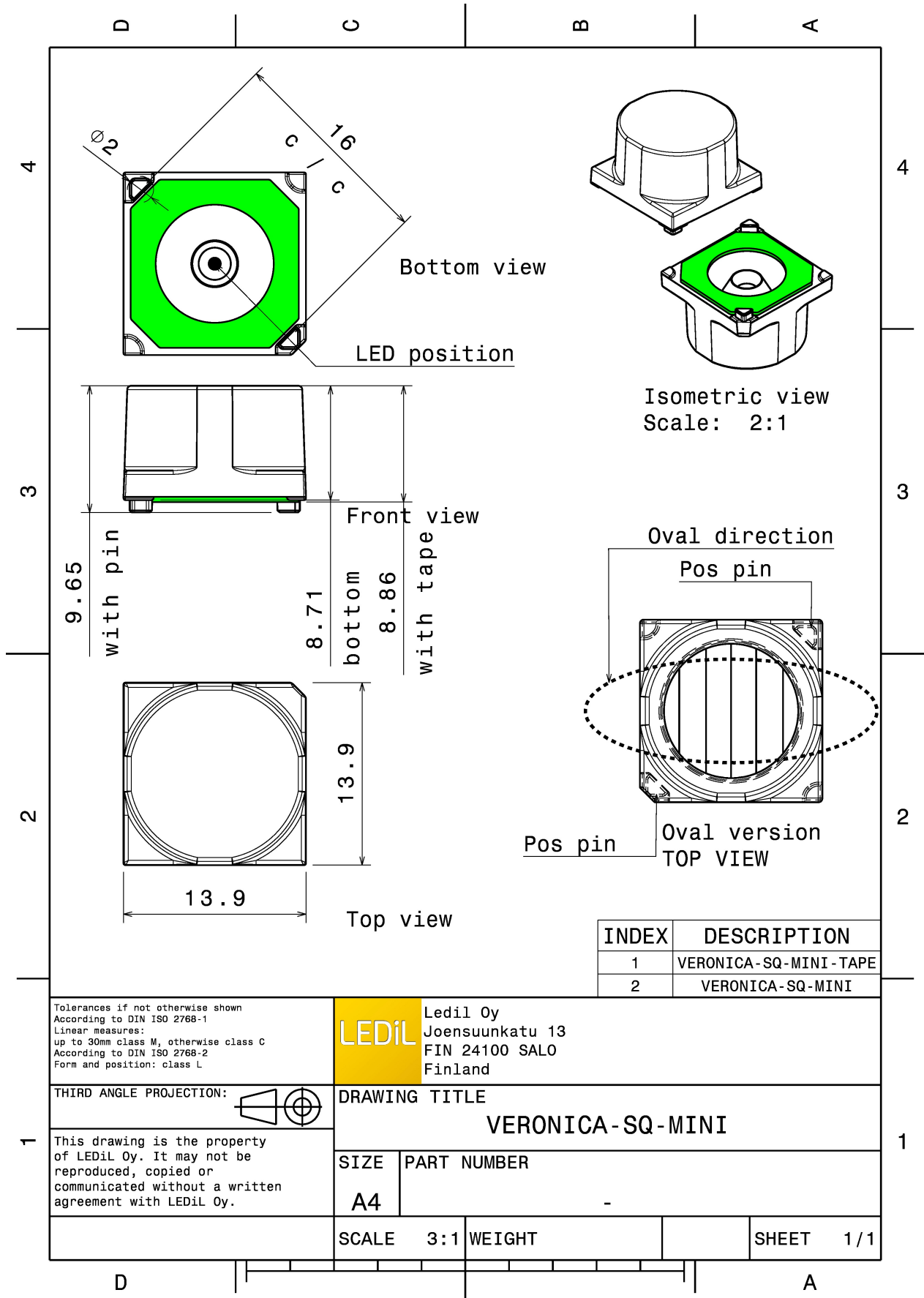
#### MATERIALS:

Component	Type	Material	Colour	Finish
VERONICA-SQ-MINI-O	Single lens	PMMA	clear	
VERONICA-SQ-MINI-TAPE	Tape	Acrylic foam	clear	



#### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA14602_VERONICA-SQ-MINI-O	Single lens	5544	252	252	7.8
» Box size: 480 x 280 x 300 mm					

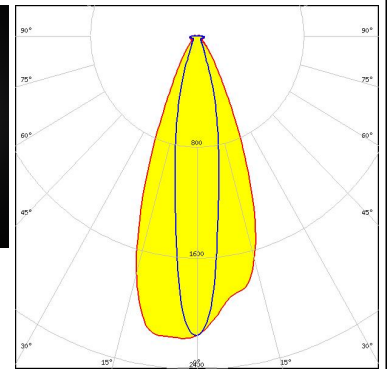
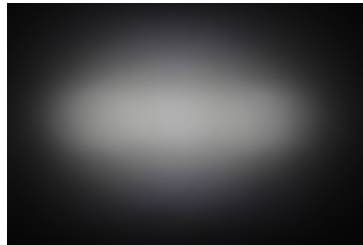


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

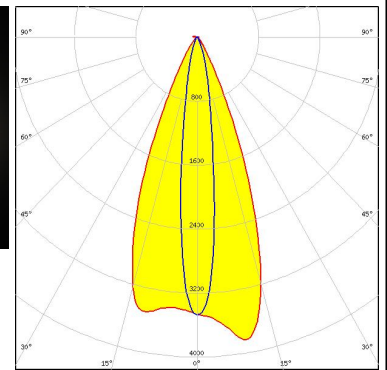
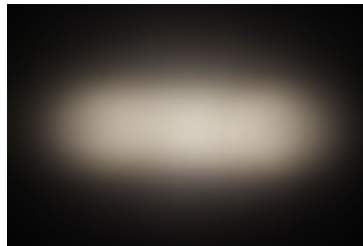
#### OPTICAL RESULTS (MEASURED):



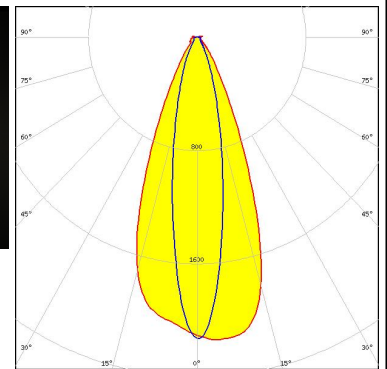
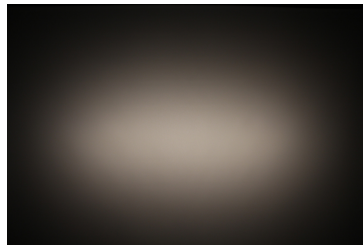
LED XD16  
 FWHM / FWTM 41.0 + 18.0° / 68.0 + 43.0°  
 Efficiency 89 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



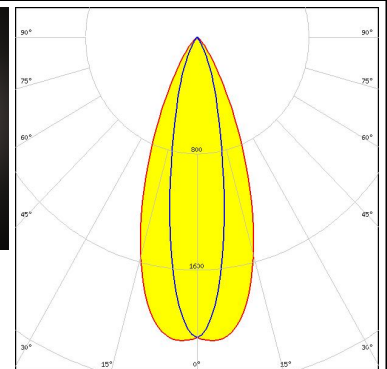
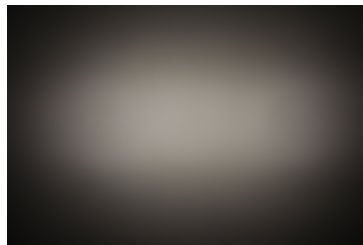
LED XP-E2  
 FWHM / FWTM 42.0 + 14.0° / 61.0 + 34.0°  
 Efficiency 92 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Rebel  
 FWHM / FWTM 42.0 + 20.0° / 71.0 + 50.0°  
 Efficiency 90 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



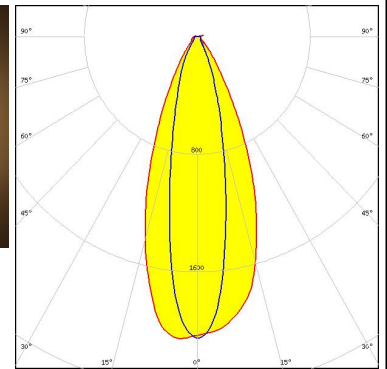
LED LUXEON Rebel ES  
 FWHM / FWTM 50.0 + 23.0° / 71.0 + 51.0°  
 Efficiency 80 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

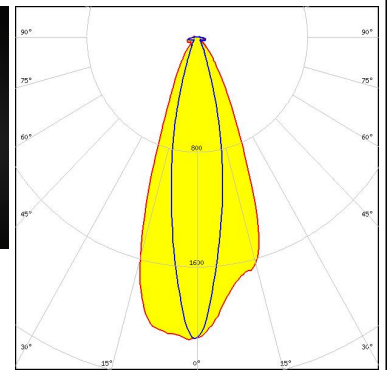
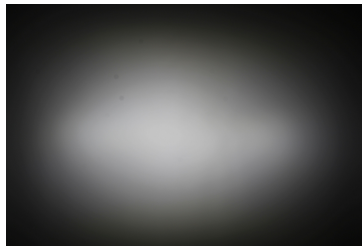
##### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 42.0 + 22.0° / 73.0 + 54.0°  
 Efficiency 90 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



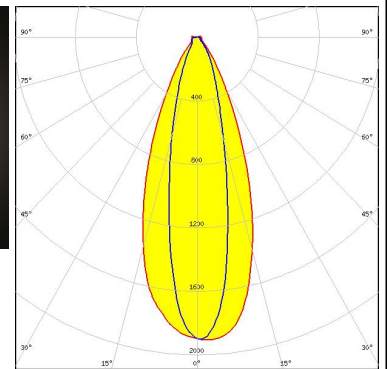
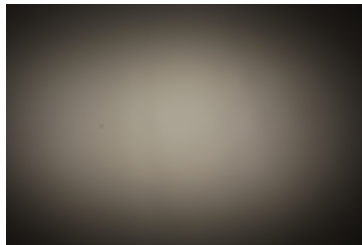
##### NICHIA

LED NCSxE17A  
 FWHM / FWTM 40.0 + 20.0° / 69.0 + 44.0°  
 Efficiency 89 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



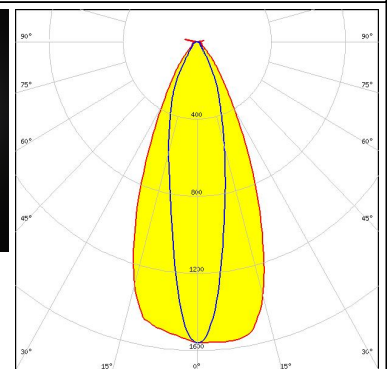
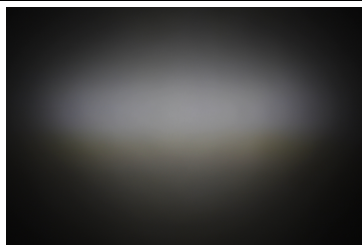
##### NICHIA

LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 41.0 + 23.0° / 74.0 + 56.0°  
 Efficiency 90 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors  
 LED Duris S5 (2 chip)  
 FWHM / FWTM 76.0 + 22.0° / 79.0 + 61.0°  
 Efficiency 74 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

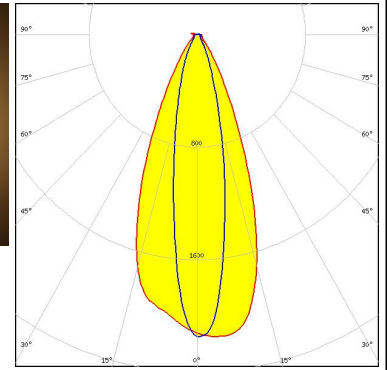


#### OPTICAL RESULTS (MEASURED):

##### OSRAM

Opto Semiconductors

LED OSLON Square EC  
 FWHM / FWTM 42.0 + 20.0° / 72.0 + 49.0°  
 Efficiency 89 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED SFH 4170S  
 FWHM / FWTM 40.0 + 12.0° / 60.0 + 33.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:

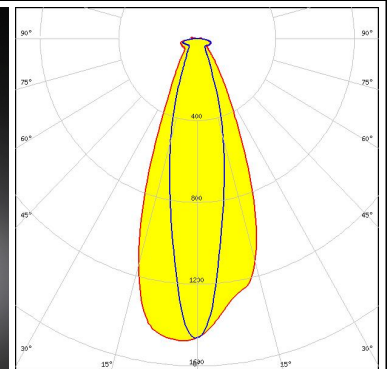
##### OSRAM

Opto Semiconductors

LED SFH 4180S  
 FWHM / FWTM 38.0 + 11.0° / 58.0 + 31.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:

##### SAMSUNG

LED LH181A  
 FWHM / FWTM 42.0 + 22.0° / 77.0 + 54.0°  
 Efficiency 88 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

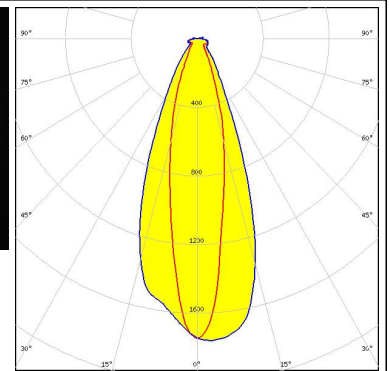
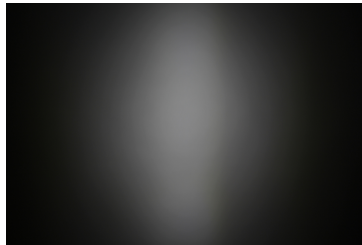




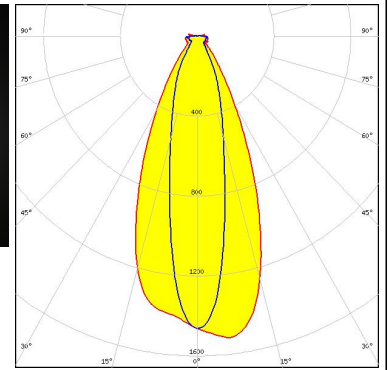
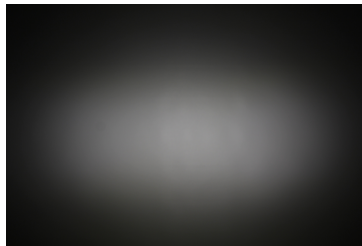
#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

LED LH181B  
 FWHM / FWTM 22.0 + 41.0° / 54.0 + 75.0°  
 Efficiency 91 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



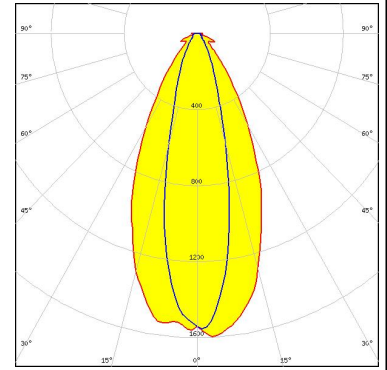
SEOUL SEMICONDUCTOR  
 LED Z8Y22P  
 FWHM / FWTM 46.0 + 23.0° / 80.0 + 62.0°  
 Efficiency 90 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



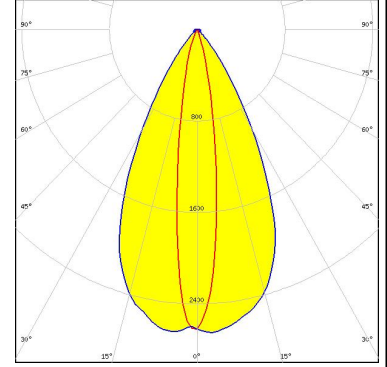
#### OPTICAL RESULTS (SIMULATED):



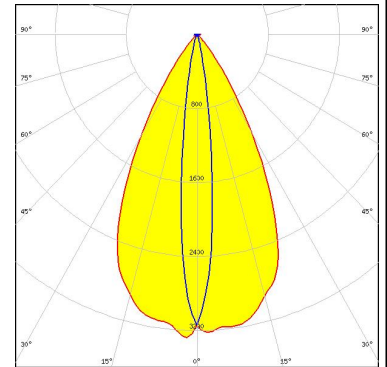
LED XP-G2 HE  
 FWHM / FWTM 50.0 + 26.0° / 88.0 + 59.0°  
 Efficiency 90 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



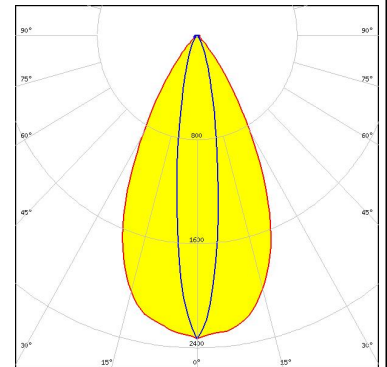
LED XQ-E HD  
 FWHM / FWTM 54.0 + 16.0° / 80.0 + 34.0°  
 Efficiency 90 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XQ-E HI  
 FWHM / FWTM 54.0 + 12.0° / 78.0 + 26.0°  
 Efficiency 89 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON 2835 Line  
 FWHM / FWTM 54.0 + 16.0° / 80.0 + 41.0°  
 Efficiency 86 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour PC Amber  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

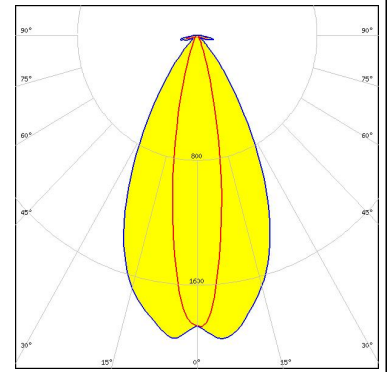
<p><b>LUMILEDS</b></p> <p>LED LUXEON 5050 Round LES</p> <p>FWHM / FWTM 54.0 + 36.0° / 118.0 + 106.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON C</p> <p>FWHM / FWTM 53.0 + 17.0° / 81.0 + 34.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 2.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CZ</p> <p>FWHM / FWTM 56.0 + 13.0° / 79.0 + 26.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour PC Amber</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CZ</p> <p>FWHM / FWTM 54.0 + 12.0° / 78.0 + 25.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Red</p> <p>Required components:</p>	



#### OPTICAL RESULTS (SIMULATED):

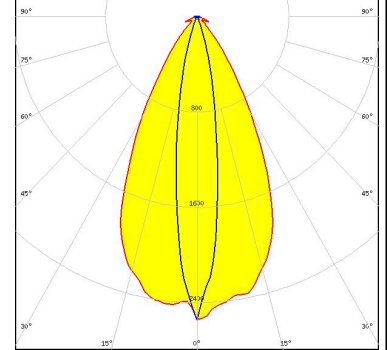
##### LUMILEDS

LED LUXEON HL1Z  
 FWHM / FWTM 20.0 + 53.0° / 40.0 + 82.0°  
 Efficiency 90 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

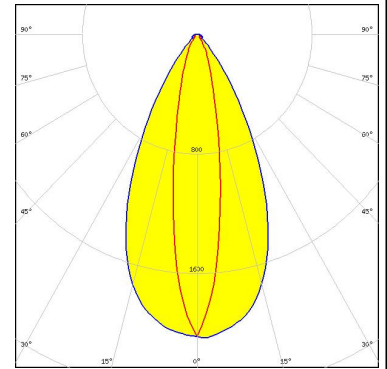
LED LUXEON Z ES  
 FWHM / FWTM 53.0 + 16.0° / 82.0 + 35.0°  
 Efficiency 92 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

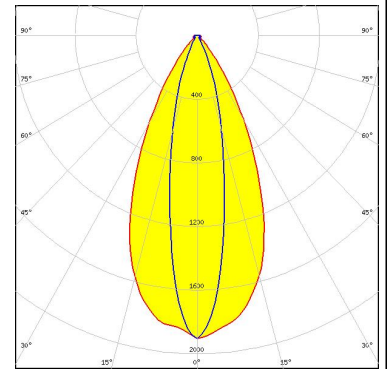
LED Duris E 2835  
 FWHM / FWTM 18.0 + 52.0° / 48.0 + 82.0°  
 Efficiency 88 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (2W version)  
 FWHM / FWTM 49.0 + 22.0° / 80.0 + 49.0°  
 Efficiency 83 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

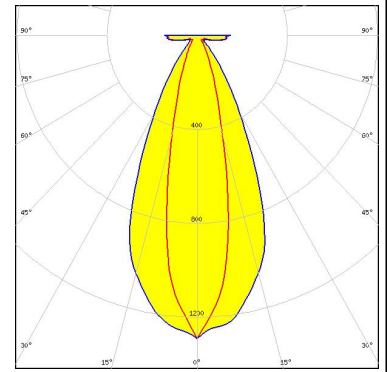


#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

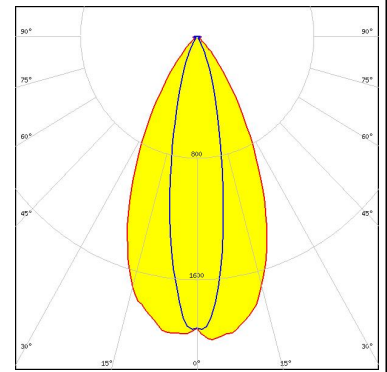
LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 24.0 + 48.0° / 48.0 + 80.0°  
 Efficiency 84 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

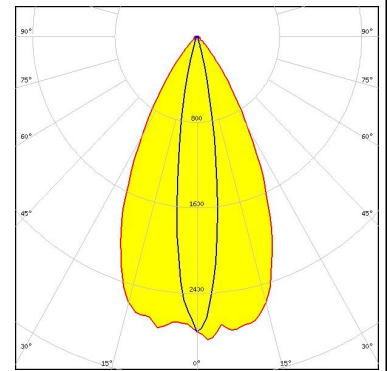
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 48.0 + 20.0° / 82.0 + 44.0°  
 Efficiency 81 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

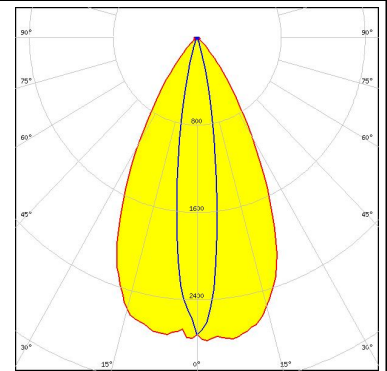
LED OSLON SSL 150  
 FWHM / FWTM 53.0 + 16.0° / 80.0 + 30.0°  
 Efficiency 90 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



##### OSRAM

Opto Semiconductors

LED OSLON SSL 150  
 FWHM / FWTM 54.0 + 15.0° / 80.0 + 30.0°  
 Efficiency 90 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour Green  
 Required components:

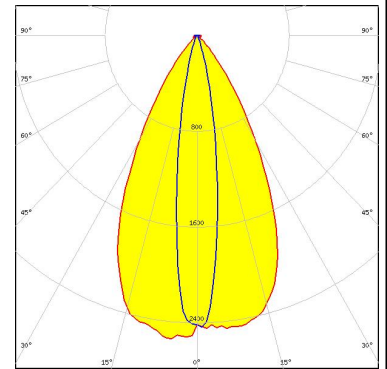


#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

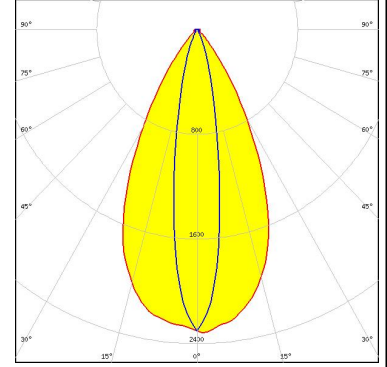
LED OSLOM SSL 150  
 FWHM / FWTM 55.0 + 16.0° / 82.0 + 34.0°  
 Efficiency 89 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour Blue  
 Required components:



##### OSRAM

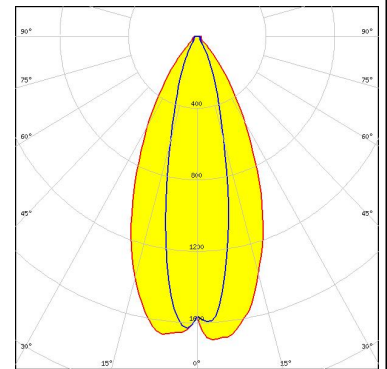
Opto Semiconductors

LED OSLOM SSL 80  
 FWHM / FWTM 53.0 + 18.0° / 80.0 + 40.0°  
 Efficiency 86 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



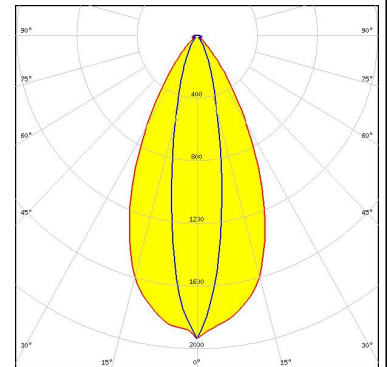
##### SAMSUNG

LED LH351B  
 FWHM / FWTM 49.0 + 24.0° / 83.0 + 53.0°  
 Efficiency 84 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:


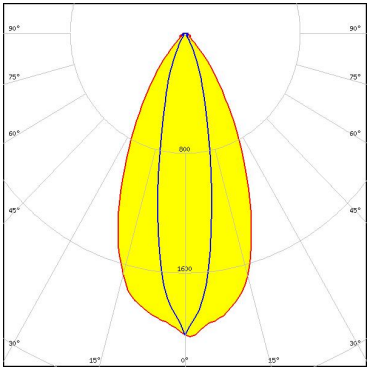

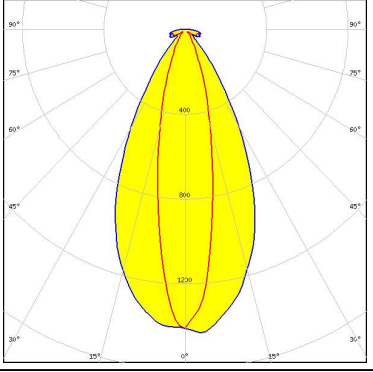



SEOUL SEMICONDUCTOR

LED MJT 3030  
 FWHM / FWTM 50.0 + 20.0° / 82.0 + 48.0°  
 Efficiency 85 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

<p> SEOU SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 50.0 + 22.0° / 82.0 + 48.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> SEOU SEMICONDUCTOR</p> <p>LED Z8Y19</p> <p>FWHM / FWTM 22.0 + 52.0° / 51.0 + 84.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> SEOU SEMICONDUCTOR</p> <p>LED Z8Y22T</p> <p>FWHM / FWTM 51.0 + 25.0° / 87.0 + 61.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	