

## VERONICA-SQ-MINI-O

~15° + 50° oval beam

### TECHNICAL SPECIFICATIONS:

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

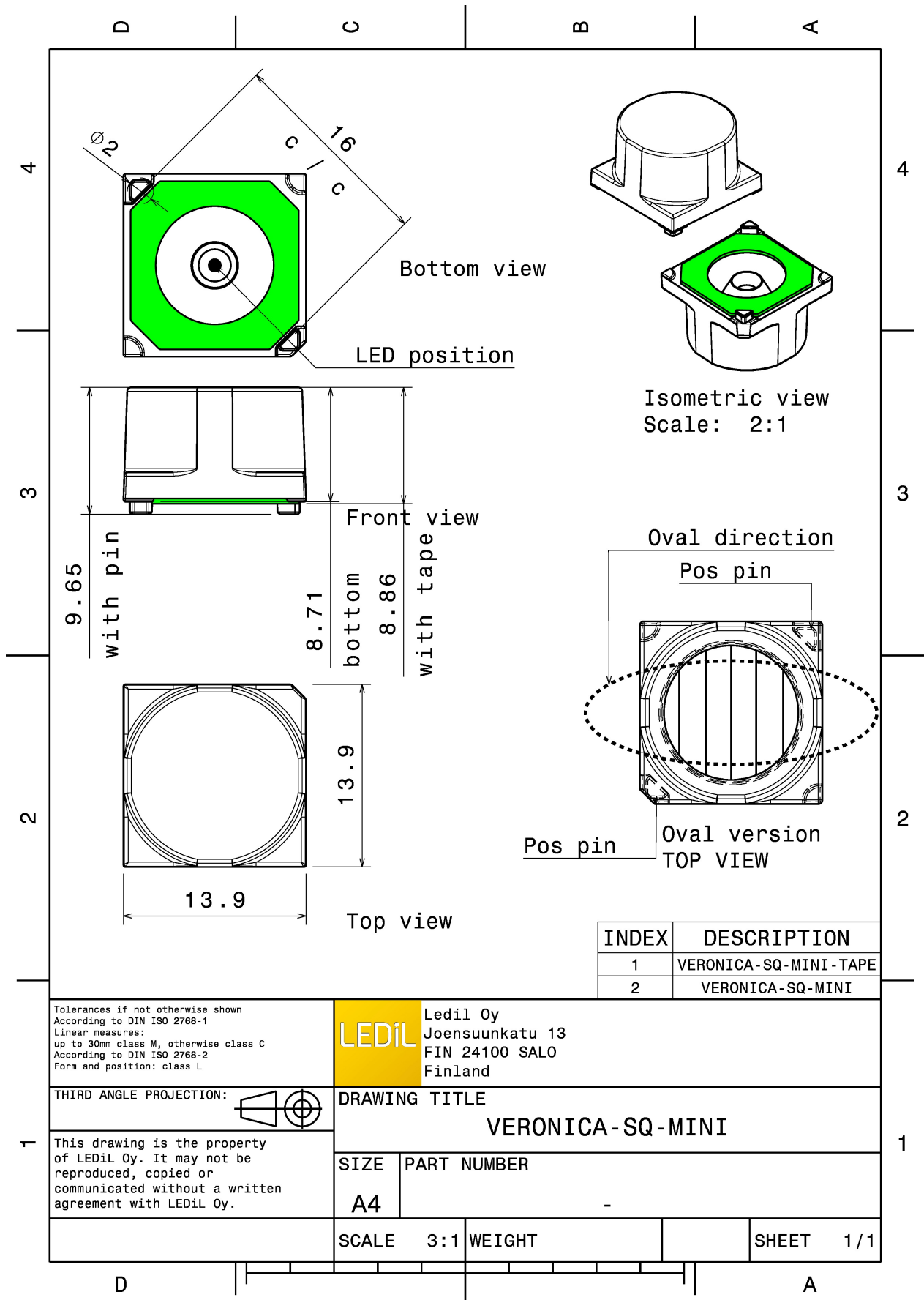
### MATERIAL SPECIFICATIONS:

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



### ORDERING INFORMATION:

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

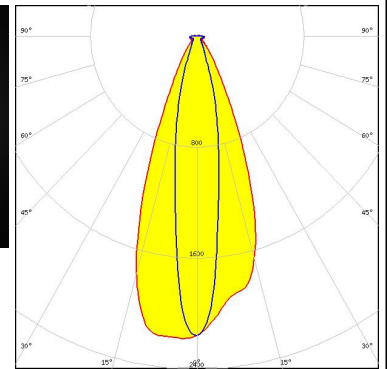
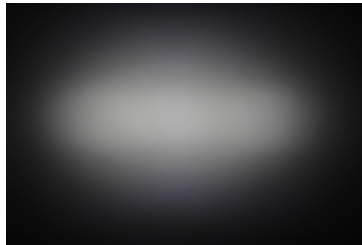


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

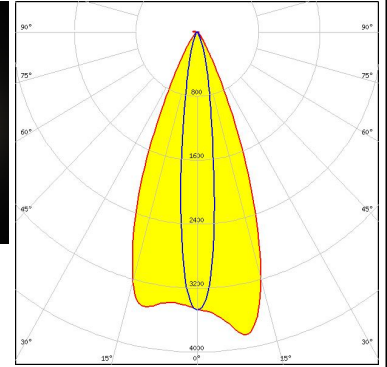
##### CREE LED

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:



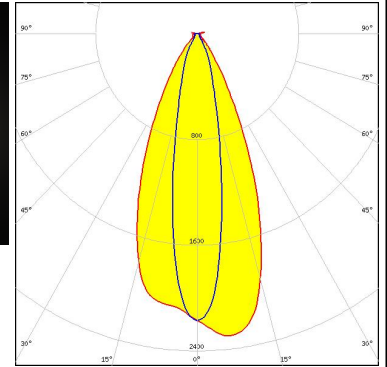
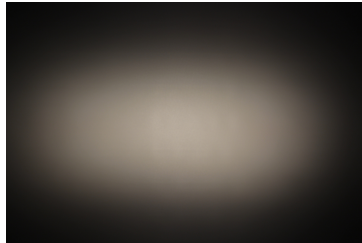
##### CREE LED

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:



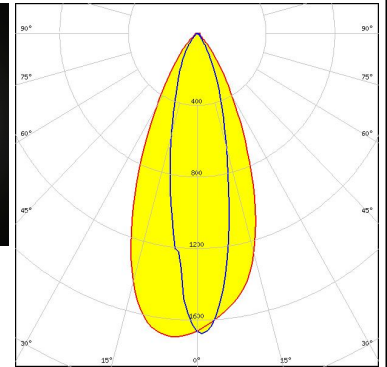
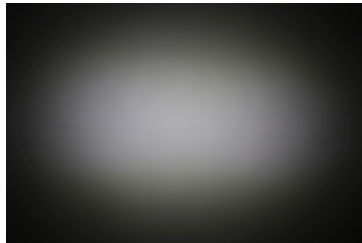
##### CREE LED

LED XP-G2  
 FWHM / FWTM 45.0 + 20.0° / 75.0 + 50.0°  
 Efficiency 92 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### CREE LED

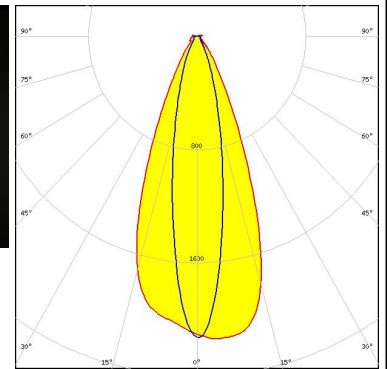
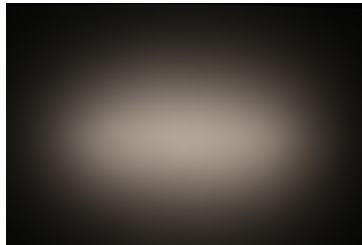
LED XP-G3  
 FWHM / FWTM 41.0 + 24.0° / 75.0 + 57.0°  
 Efficiency 92 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

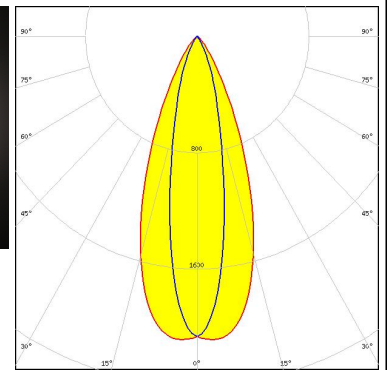
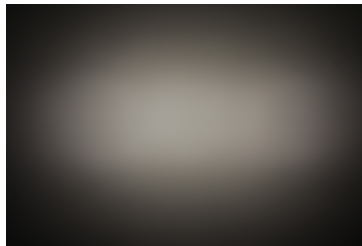
##### LUMILEDS

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:



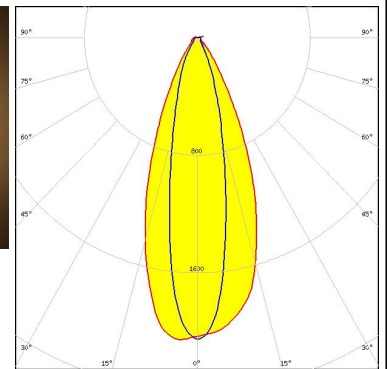
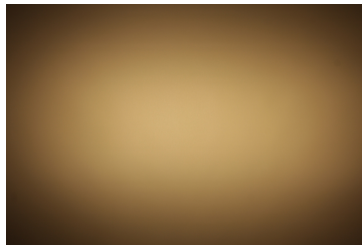
##### LUMILEDS

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:



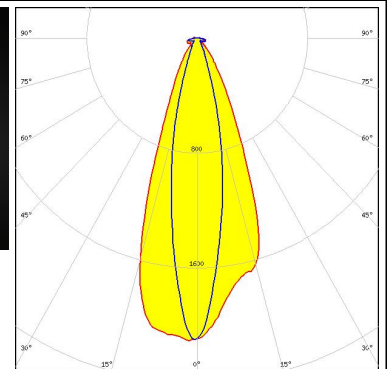
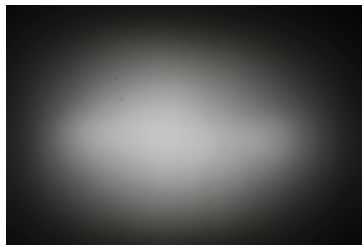
##### LUMILEDS

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:


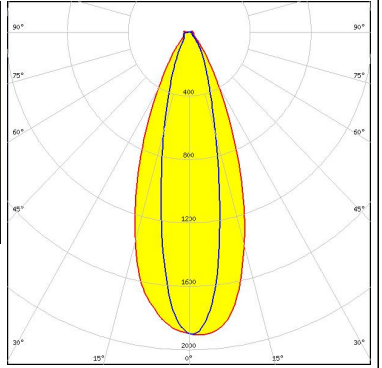

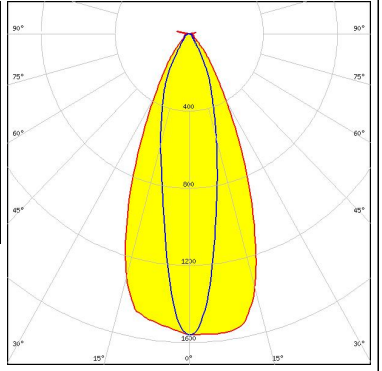

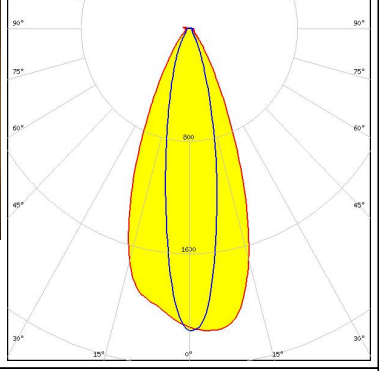


##### NICHIA

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:



### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>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:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>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:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLOM 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:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED SFH 4170S            FWHM / FWTM 40.0 + 12.0° / 60.0 + 33.0°            Efficiency %            LEDs/each optic 1            Light colour IR            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

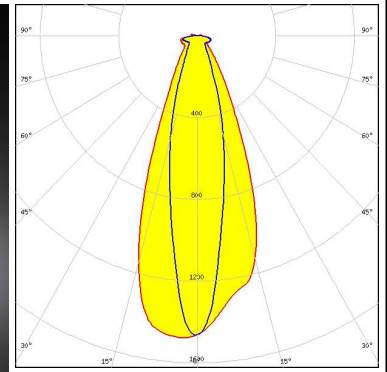
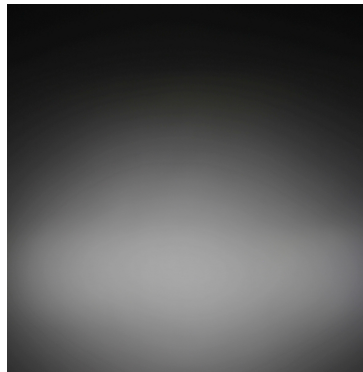
#### OSRAM

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:

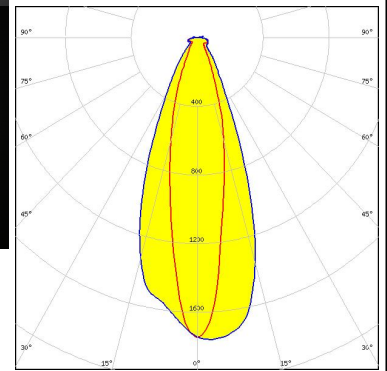
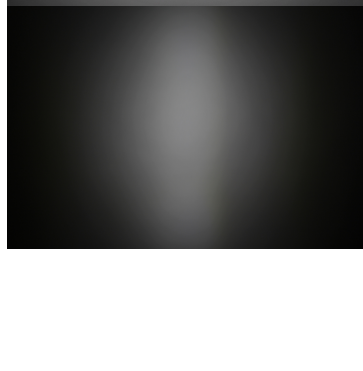
#### SAMSUNG

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:



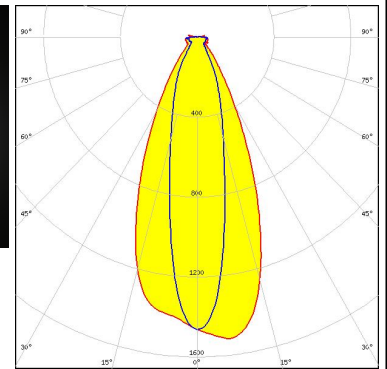
#### SAMSUNG

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

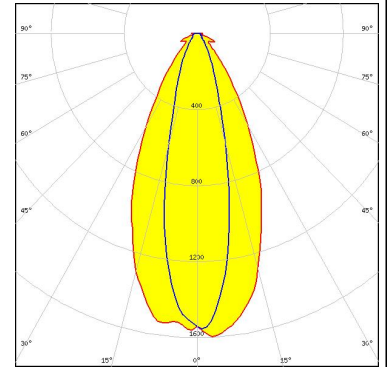
LED Z8Y22P  
 FWHM / FWTM 46.0 + 23.0° / 80.0 + 62.0°  
 Efficiency 90 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):



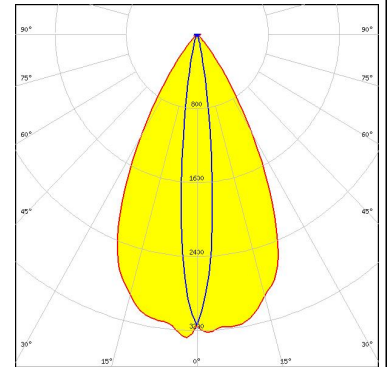
LED XP-G2 HE  
 FWHM / FWTM 50.0 + 26.0° / 88.0 + 59.0°  
 Efficiency 90 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



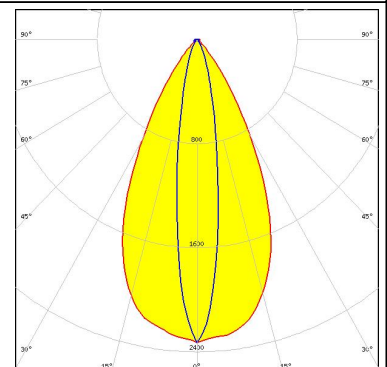
LED XQ-E HD  
 FWHM / FWTM 54.0 + 16.0° / 80.0 + 34.0°  
 Efficiency 90 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



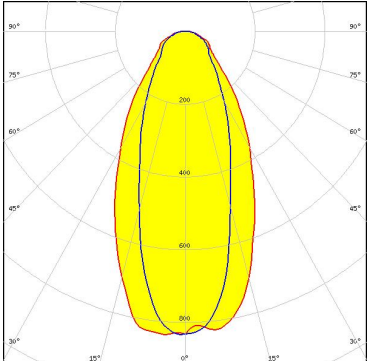
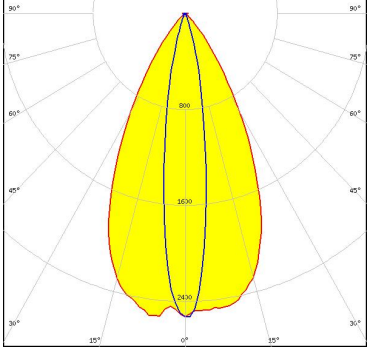
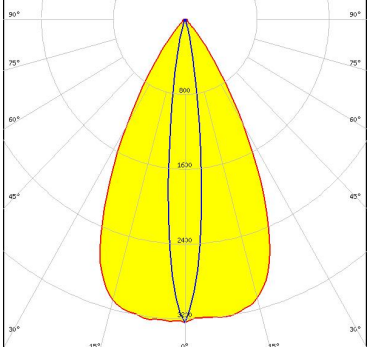
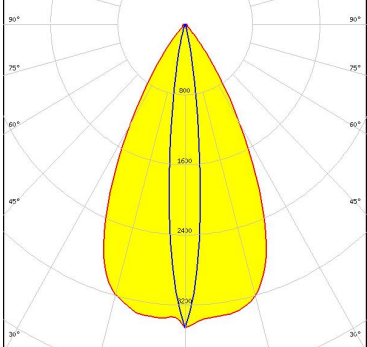
LED XQ-E HI  
 FWHM / FWTM 54.0 + 12.0° / 78.0 + 26.0°  
 Efficiency 89 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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:



#### PHOTOMETRIC DATA (SIMULATED):

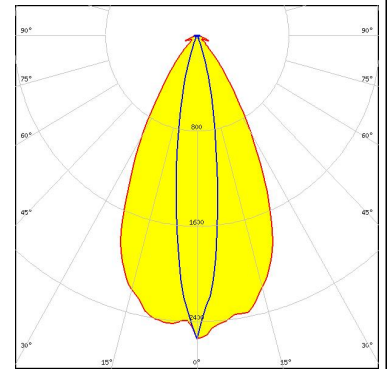
<p><b>LUMILEDS</b></p> <p>LED LUXEON 5050 Round LES</p> <p>FWHM / FWTM 54.0 + 36.0° / 118.0 + 106.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON C</p> <p>FWHM / FWTM 53.0 + 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>	



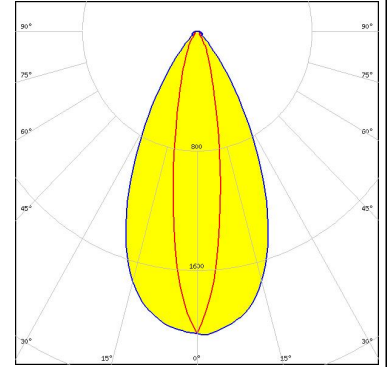
#### PHOTOMETRIC DATA (SIMULATED):



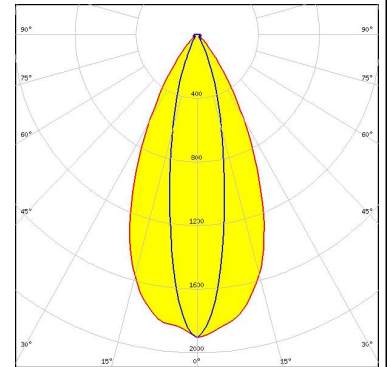
**LED** LUXEON Z ES  
**FWHM / FWTM** 53.0 + 16.0° / 82.0 + 35.0°  
**Efficiency** 92 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



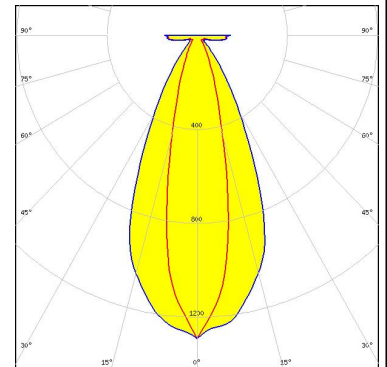
**LED** Duris E 2835  
**FWHM / FWTM** 18.0 + 52.0° / 48.0 + 82.0°  
**Efficiency** 88 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**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:**



**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:**

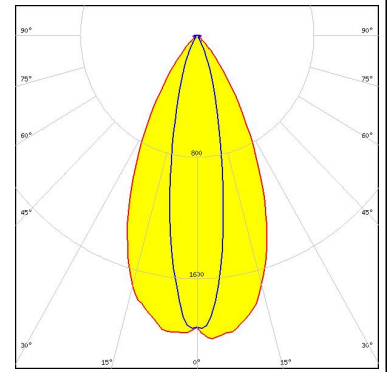


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

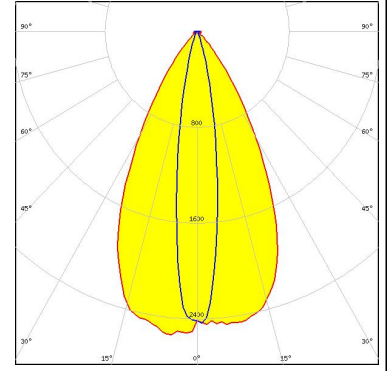
LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM 48.0 + 20.0° / 82.0 + 44.0°  
 Efficiency 81 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

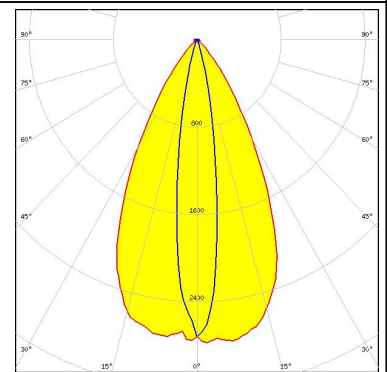
LED OSLOM SSL 150  
 FWHM / FWTM 55.0 + 16.0° / 82.0 + 34.0°  
 Efficiency 89 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour Blue  
 Required components:



##### OSRAM

Opto Semiconductors

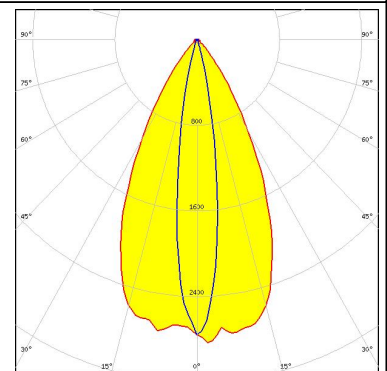
LED OSLOM SSL 150  
 FWHM / FWTM 54.0 + 15.0° / 80.0 + 30.0°  
 Efficiency 90 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour Green  
 Required components:



##### OSRAM

Opto Semiconductors

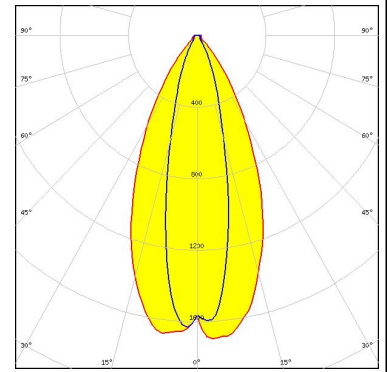
LED OSLOM SSL 150  
 FWHM / FWTM 53.0 + 16.0° / 80.0 + 30.0°  
 Efficiency 90 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

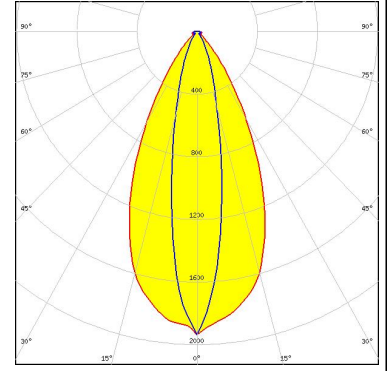
### SAMSUNG

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:



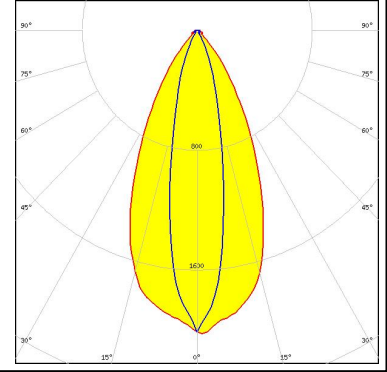
SEOUL SEMICONDUCTOR

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:



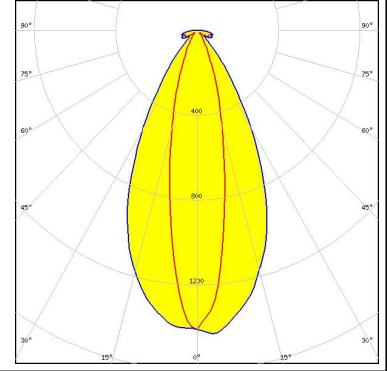
SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2  
 FWHM / FWTM 50.0 + 22.0° / 82.0 + 48.0°  
 Efficiency 88 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

LED Z8Y19  
 FWHM / FWTM 22.0 + 52.0° / 51.0 + 84.0°  
 Efficiency 87 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

	
SEOUL SEMICONDUCTOR	
LED	Z8Y22T
FWHM / FWTM	51.0 + 25.0° / 87.0 + 61.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



#### 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

#### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

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where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
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#### Distribution Partners

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[CA16435\\_LXP2-SS-WAS](#) [CN16210\\_GABRIELLA-MIDI-W](#) [CP17137\\_CARMEN-M2-C](#) [CA16015\\_STRADA-SQ-SCL](#) [CP17594\\_TINA-SC-](#)  
[RS](#) [CS15767\\_HB-2X2MX-8-M](#) [CP10960\\_RGBX-SS](#) [CP12395\\_LXP3-W](#) [CP12939\\_LARISA-RS-CLIP16](#) [C14636\\_XTM-PF-ADAPTER](#)  
[CA11819\\_STRADA-SQ-T-DW](#) [CA14508\\_G2-LXP2-D](#) [CA14601\\_VERONICA-SQ-MINI-RS](#) [FCP13895\\_SEANNA-A](#) [CP12943\\_LARISA-](#)  
[O-CLIP16](#) [FP11124\\_LISA2-O-PIN](#) [CS14597\\_HB-IP-2X6-O](#) [CP14995\\_FLORENTINA-HLD-O](#) [CS15158\\_STRADA-IP-2X6-T4-B](#)  
[CS16323\\_STRADELLA-IP-28-HB-M](#) [FN14976\\_STELLA-DWC2](#) [FN15264\\_STELLA-HB-WWW](#) [CA15584\\_ZORYA-MINI-TAPE](#)  
[FA15229\\_ROSE-MRK-S](#) [FA15232\\_ROSE-MRK-M](#) [FA15233\\_ROSE-MRK-W](#) [FCN13552\\_CRYSTAL-RS](#) [FN15552\\_RONDA-W](#)  
[FS15626\\_FLORENCE-3R-IP-Z90](#) [FS15786\\_FLORENCE-3R-IP-Z60](#) [FS15847\\_FLORENCE-3R-IP-O](#) [CA14505\\_G2-LXP2-RS2-P](#)  
[FCN12775\\_IRIS-O](#) [CP15304\\_LARISA-RS-PIN](#) [FN15679\\_RONDA-S](#) [CA15519\\_VERONICA-SQ-MINI-D](#) [FP14414\\_LISA2-O-PIN](#)  
[LL01CR-DF60L06-M2](#) [FN15993\\_RONDA-O](#) [FN15977\\_RONDA-WAS2](#) [CA14366\\_FLARE-MAXI-TAPE](#) [CA14442\\_VERONICA-SQ-W](#)  
[CA14509\\_G2-LXP2-M-P](#) [CA15231\\_VERONICA-SQ-MINI-W](#) [FP11002\\_LISA2-W-PIN](#)