

## VERONICA-O

~55° + 10° oval beam

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 26.0 mm
Height	12.2 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

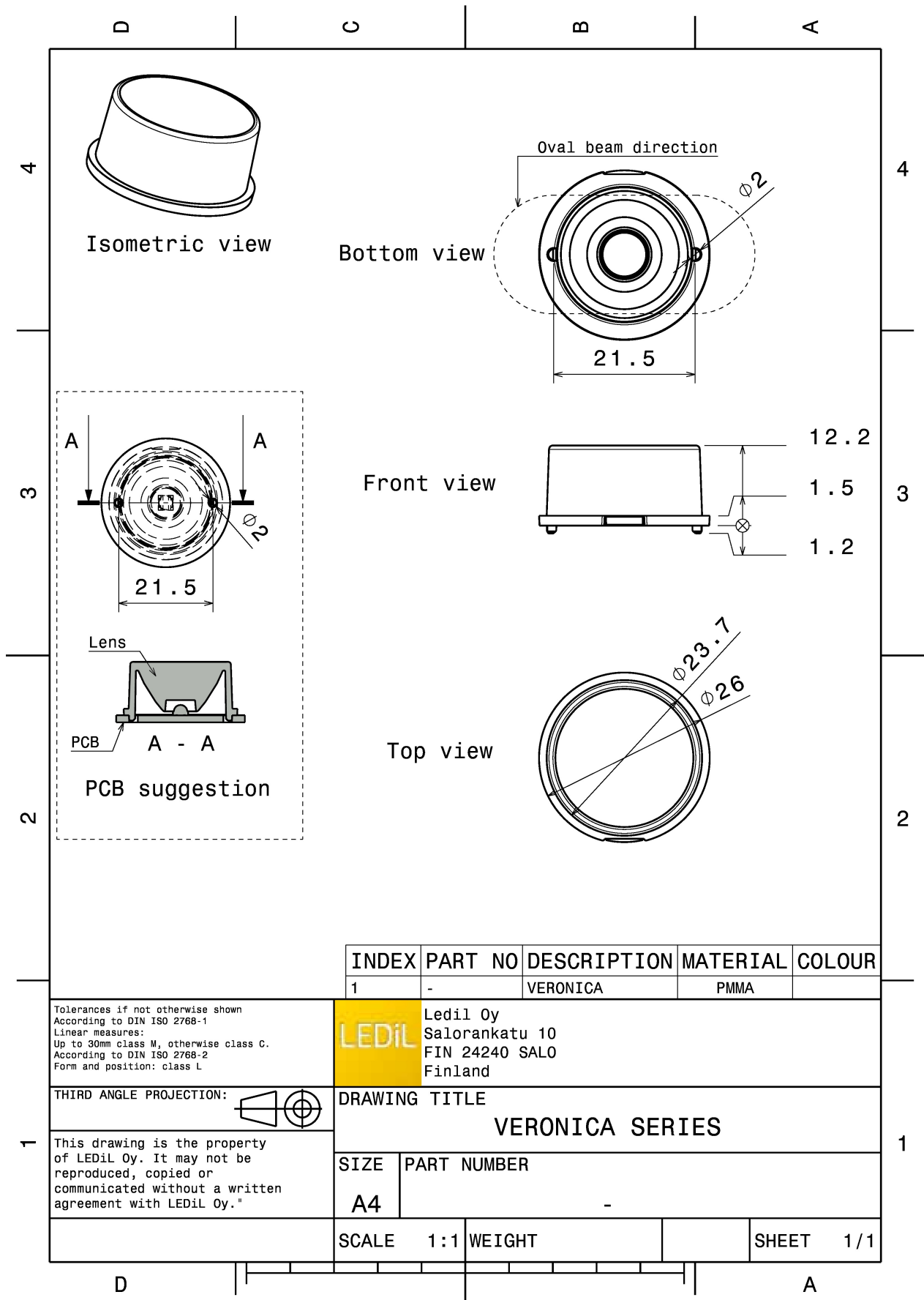
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
VERONICA-O	Single lens	PMMA	clear	



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13529_VERONICA-O » Box size: 480 x 280 x 300 mm	2240	336	112	11.1



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	VERONICA	PMMA	

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** LediL Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**VERONICA SERIES**


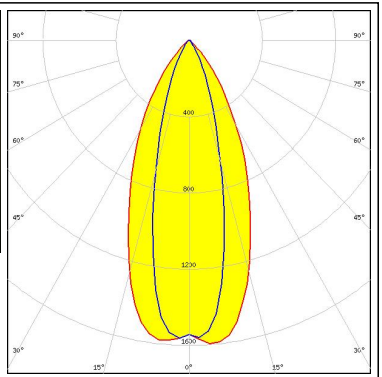

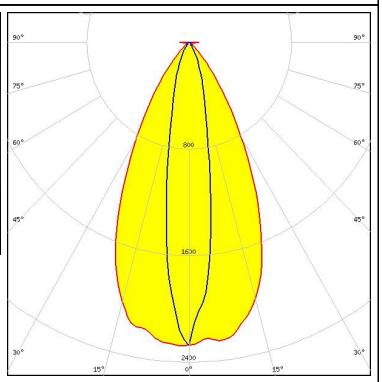

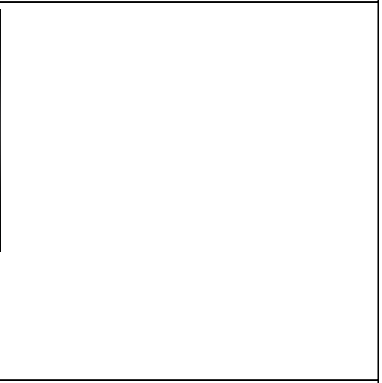

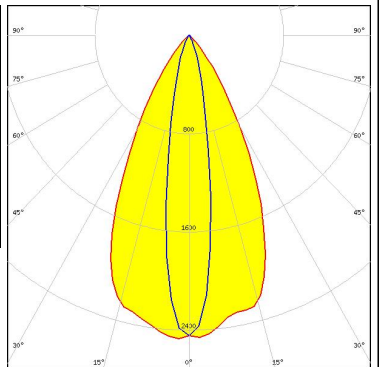
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE	PART NUMBER
A4	-

SCALE	1:1	WEIGHT	SHEET	1/1
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See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

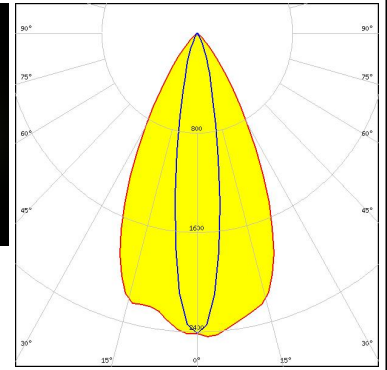
### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> → <b>LED</b></p> <p>LED MK-R            FWHM / FWTM 48.0 + 28.0° / 85.0 + 58.0°            Efficiency 80 %            Peak intensity 1.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED XHP35 HD            FWHM / FWTM 52.0 + 19.0° / 84.0 + 44.0°            Efficiency 80 %            Peak intensity 2.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED XHP35 HI            FWHM / FWTM 53.0 + 16.0° / 82.0 + 38.0°            Efficiency 82 %            Peak intensity 2.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED XM-L            FWHM / FWTM 54.0 + 18.0° / 81.0 + 40.0°            Efficiency 83 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

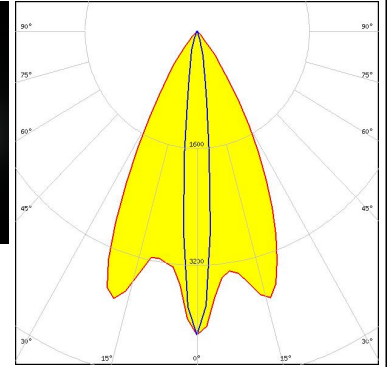
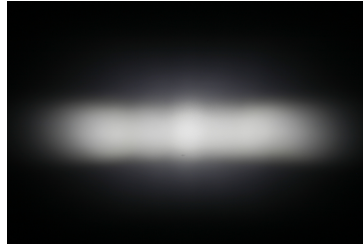
##### CREE LED

LED XM-L2  
 FWHM / FWTM 54.0 + 18.0° / 81.0 + 41.0°  
 Efficiency 82 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



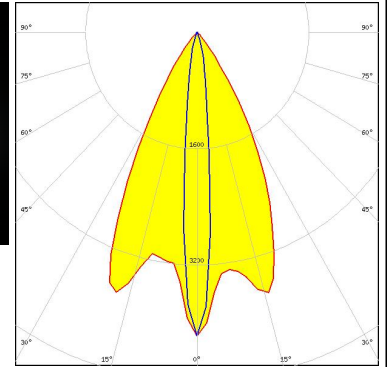
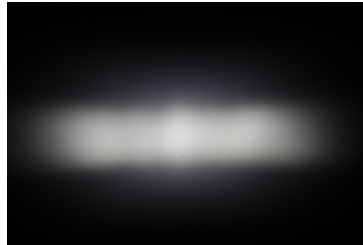
##### CREE LED

LED XP-E  
 FWHM / FWTM 54.0 + 11.0° / 76.0 + 26.0°  
 Efficiency 83 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



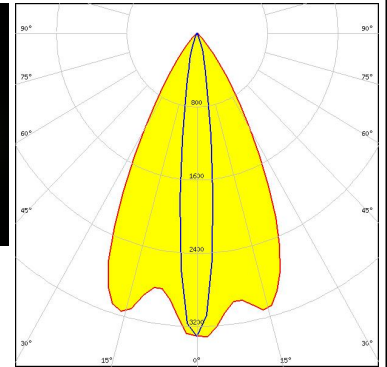
##### CREE LED

LED XP-E2  
 FWHM / FWTM 54.0 + 11.0° / 76.0 + 27.0°  
 Efficiency 84 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




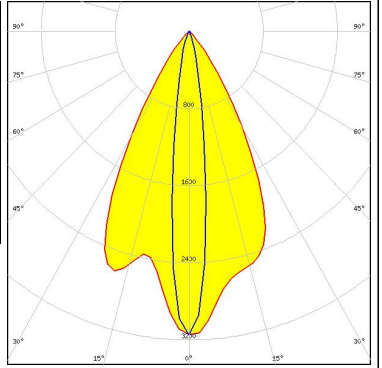

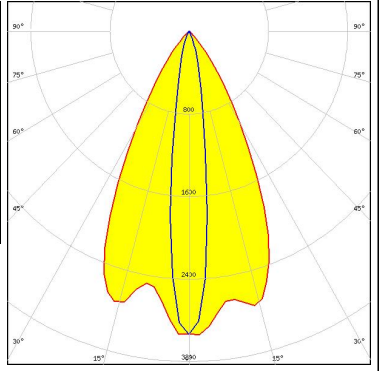

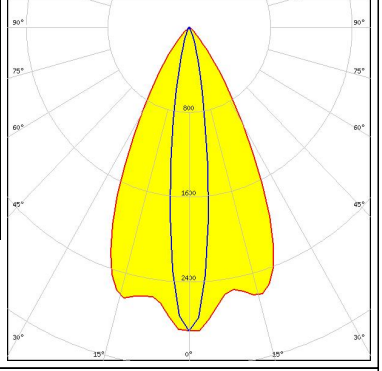
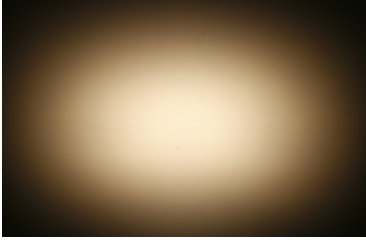
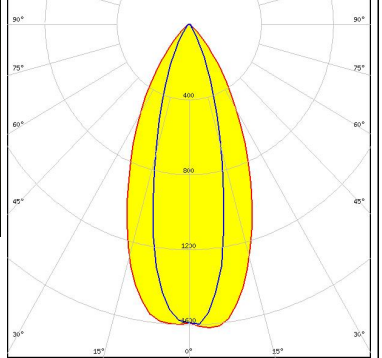
##### CREE LED

LED XP-G  
 FWHM / FWTM 55.0 + 13.0° / 79.0 + 30.0°  
 Efficiency 83 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





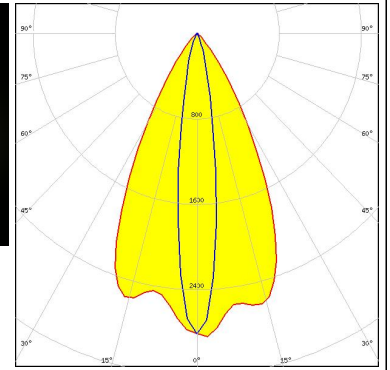
#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> LED</p> <p>LED: XP-G2            FWHM / FWTM: 55.0 + 13.0° / 78.0 + 30.0°            Efficiency: 84 %            Peak intensity: 3.2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>CREE</b> LED</p> <p>LED: XT-E            FWHM / FWTM: 54.0 + 15.0° / 79.0 + 33.0°            Efficiency: 81 %            Peak intensity: 2.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED: LUXEON A            FWHM / FWTM: 54.0 + 15.0° / 79.0 + 33.0°            Efficiency: 82 %            Peak intensity: 2.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED: LUXEON M/MX            FWHM / FWTM: 49.0 + 28.0° / 84.0 + 57.0°            Efficiency: 79 %            Peak intensity: 1.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		

### PHOTOMETRIC DATA (MEASURED):

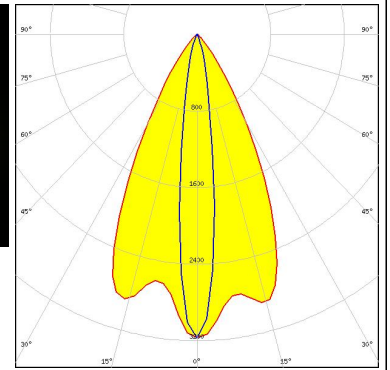
#### LUMILEDS

LED LUXEON R  
 FWHM / FWTM 54.0 + 16.0° / 79.0 + 34.0°  
 Efficiency 81 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



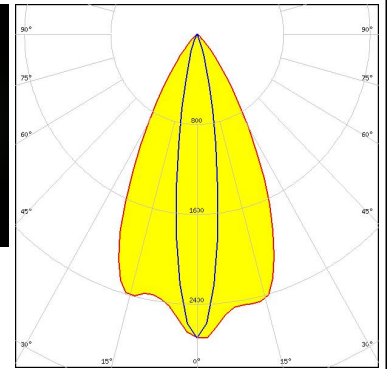
#### LUMILEDS

LED LUXEON Rebel  
 FWHM / FWTM 54.0 + 14.0° / 78.0 + 31.0°  
 Efficiency 82 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



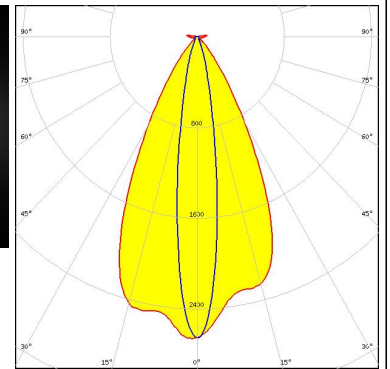
#### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 54.0 + 17.0° / 80.0 + 34.0°  
 Efficiency 81 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

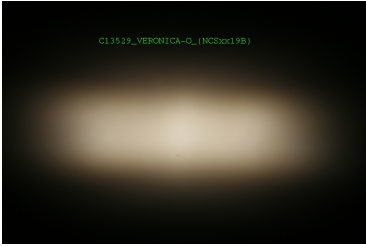
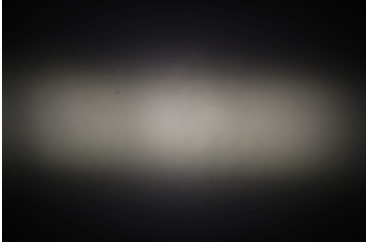
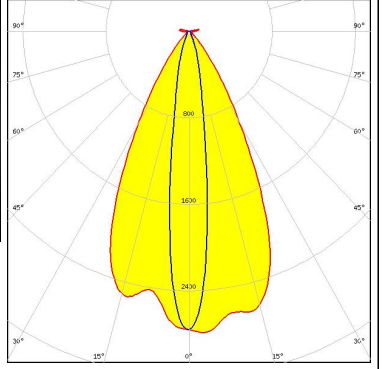
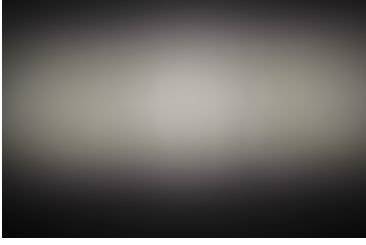
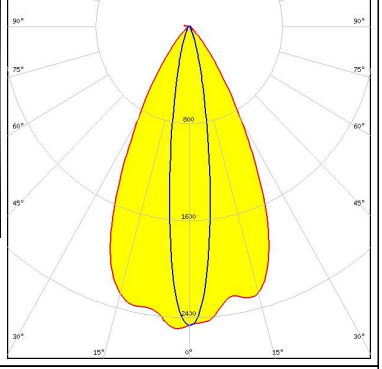

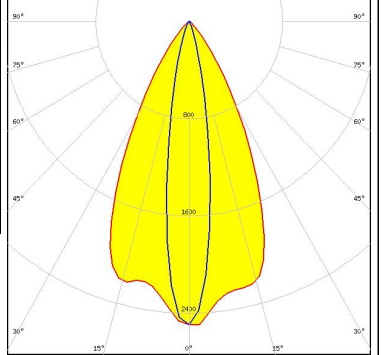


#### LUMILEDS

LED LUXEON V2  
 FWHM / FWTM 52.0 + 16.0° / 78.0 + 36.0°  
 Efficiency 90 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



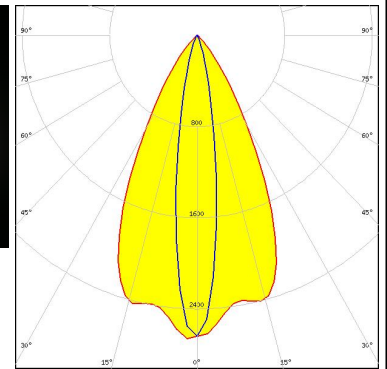
### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 52.0 + 15.0° / 80.0 + 32.0°            Efficiency 80 %            Peak intensity 3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW219F            FWHM / FWTM 53.0 + 15.0° / 79.0 + 36.0°            Efficiency 91 %            Peak intensity 2.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW3x9A            FWHM / FWTM 53.0 + 16.0° / 80.0 + 35.0°            Efficiency 80 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19A            FWHM / FWTM 53.0 + 18.0° / 80.0 + 36.0°            Efficiency 79 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

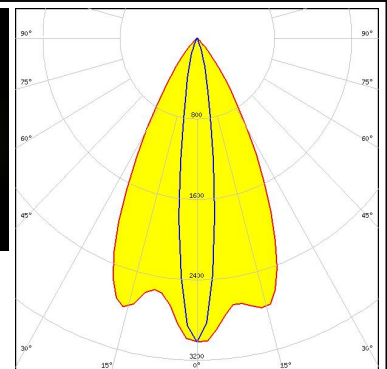
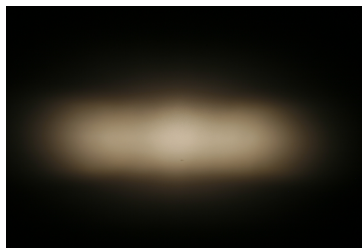
### PHOTOMETRIC DATA (MEASURED):



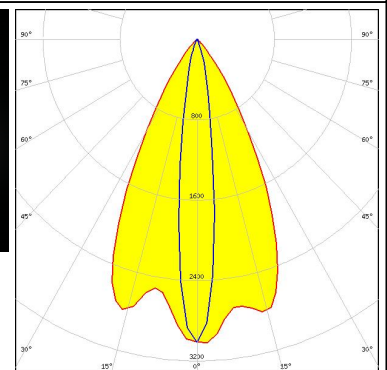
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 54.0 + 17.0° / 79.0 + 35.0°  
 Efficiency 79 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



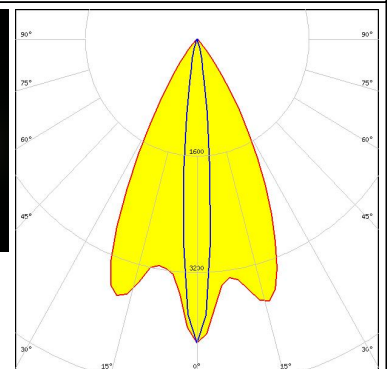
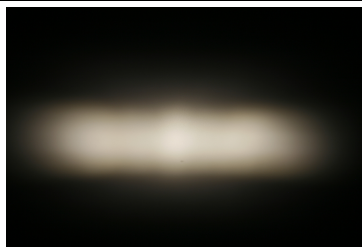
LED OSLOM Square EC  
 FWHM / FWTM 54.0 + 14.0° / 79.0 + 32.0°  
 Efficiency 81 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM Square PC  
 FWHM / FWTM 54.0 + 15.0° / 79.0 + 32.0°  
 Efficiency 81 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM SSL 150  
 FWHM / FWTM 54.0 + 11.0° / 76.0 + 24.0°  
 Efficiency 83 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

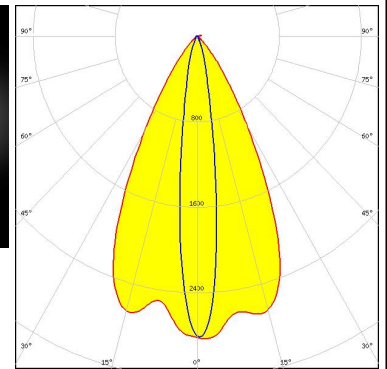
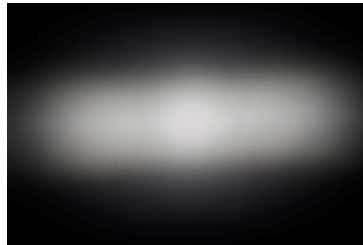




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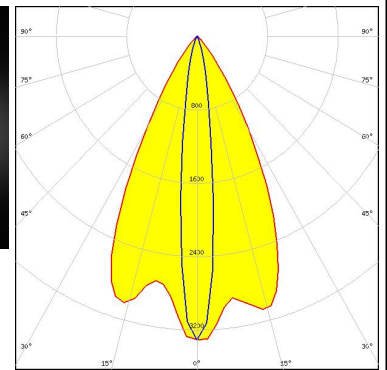
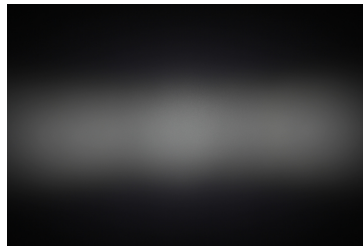
#### SAMSUNG

LED LH351B  
 FWHM / FWTM 54.0 + 14.0° / 79.0 + 33.0°  
 Efficiency 84 %  
 Peak intensity 2.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



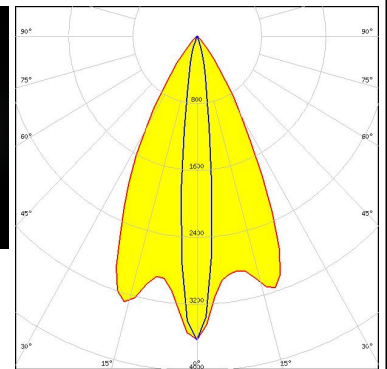
#### SAMSUNG

LED LH351Z  
 FWHM / FWTM 54.0 + 13.0° / 78.0 + 31.0°  
 Efficiency 83 %  
 Peak intensity 3.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



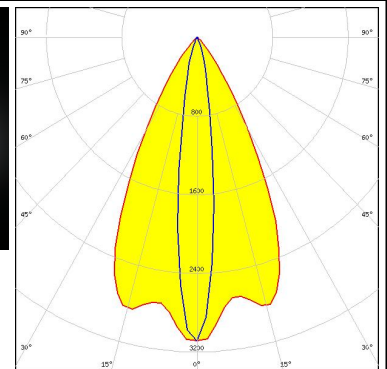
SEOUL SEMICONDUCTOR

LED Z5  
 FWHM / FWTM 54.0 + 13.0° / 77.0 + 28.0°  
 Efficiency 83 %  
 Peak intensity 3.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:




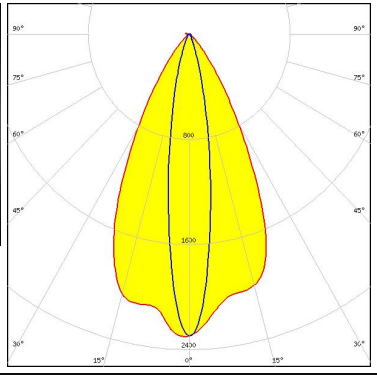

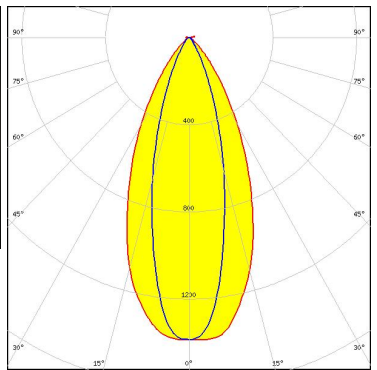
SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2  
 FWHM / FWTM 54.0 + 15.0° / 79.0 + 33.0°  
 Efficiency 83 %  
 Peak intensity 3.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:





### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    Z8Y22P</p> <p>FWHM / FWTM      52.0 + 17.0° / 79.0 + 37.0°</p> <p>Efficiency            77 %</p> <p>Peak intensity      2.3 cd/lm</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    Z8Y50P</p> <p>FWHM / FWTM      48.0 + 29.0° / 84.0 + 58.0°</p> <p>Efficiency            73 %</p> <p>Peak intensity      1.4 cd/lm</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p>		



### PHOTOMETRIC DATA (SIMULATED):

<b>OSRAM</b> <small>Opto Semiconductors</small>	<p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 57.0 + 11.0° / 80.0 + 26.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
 <small>SEOUL SEMICONDUCTOR</small>	<p>LED MJT 3030</p> <p>FWHM / FWTM 56.0 + 12.0° / 78.0 + 28.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
 <small>SEOUL SEMICONDUCTOR</small>	<p>LED MJT 5050</p> <p>FWHM / FWTM 50.0 + 30.0° / 87.0 + 68.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
 <small>SEOUL SEMICONDUCTOR</small>	<p>LED Z5M4</p> <p>FWHM / FWTM 54.0 + 14.0° / 80.0 + 32.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

### 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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P.R.CHINA

#### Local sales and technical support

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#### Distribution Partners

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[LL01ED-AKY24R49](#) [LL01CR-AYG15R49](#) [LL01CR-OT32L06-M2](#) [LL01ZZ-AAA24L49](#) [LL01CR-CEN38L02](#) [LL01ZZ-AAA55L49](#)  
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