

## FLARE-B

29 x 23 mm lens with ~100° x 10° oval beam.  
Assembly with installation tape.

### SPECIFICATION:

Dimensions	29.0 x 22.8 mm
Height	12.8 mm
Fastening	tape, screw
ROHS compliant	yes ⓘ

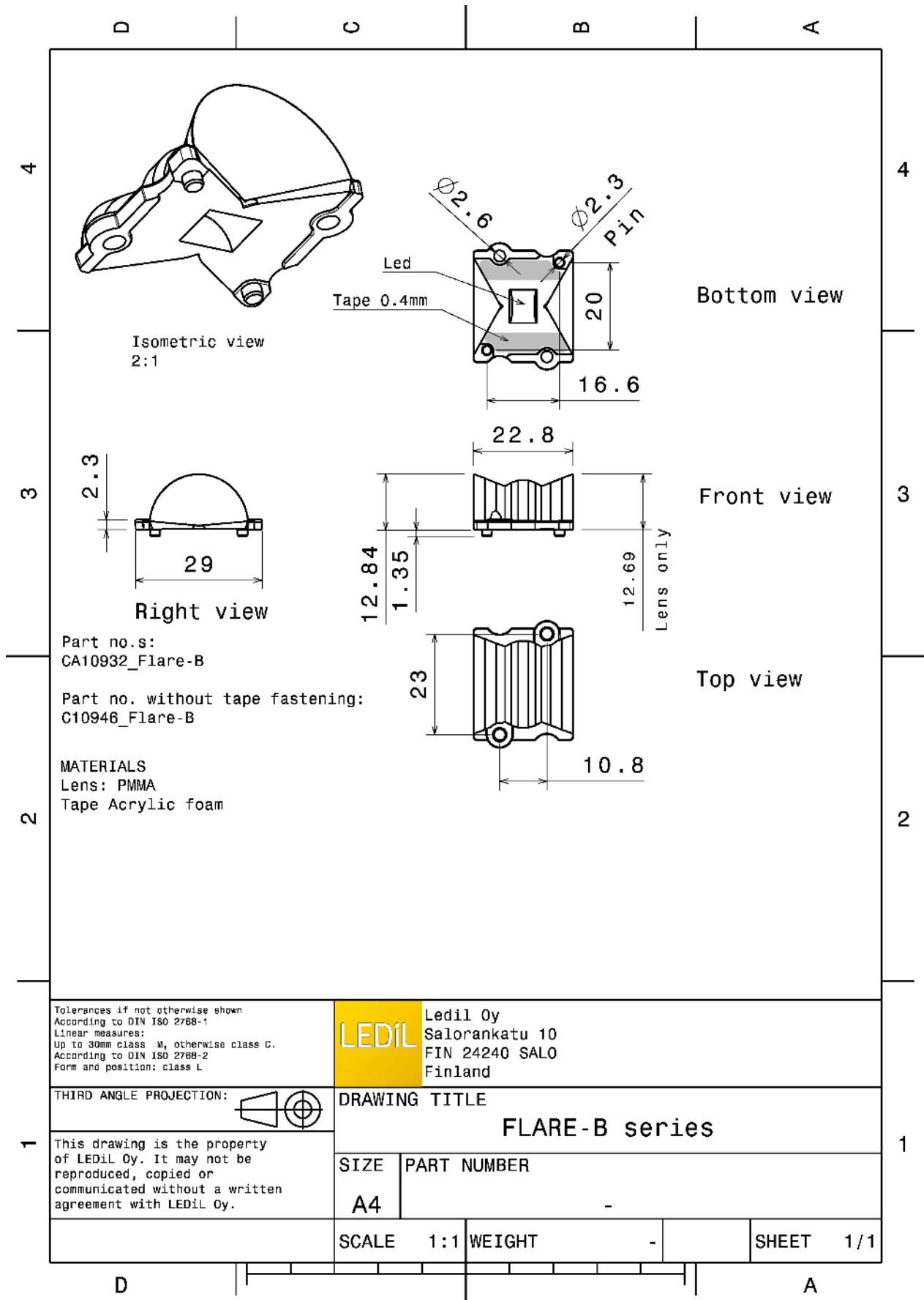


### MATERIALS:

Component	Type	Material	Colour	Finish
FLARE-B	Single lens	PMMA	clear	
FLARE-B-TAPE	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA10932_FLARE-B	Single lens	2448	288	144	9.8
» Box size: 476 x 273 x 292 mm					

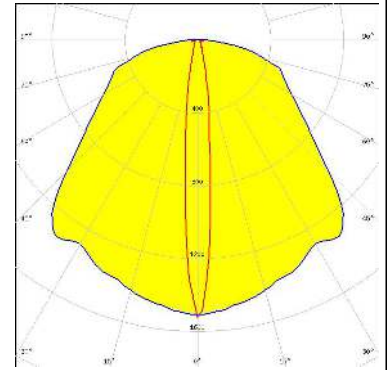


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

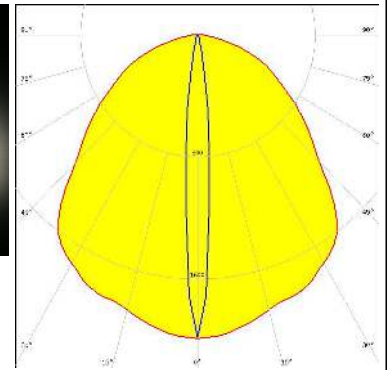
#### CREE LED

LED XB-D  
 FWHM / FWTM 10.0 + 108.0° / 30.0 + 167.0°  
 Efficiency 93 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



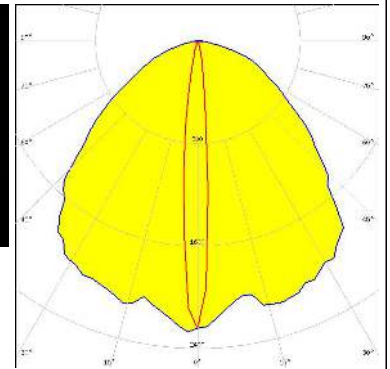
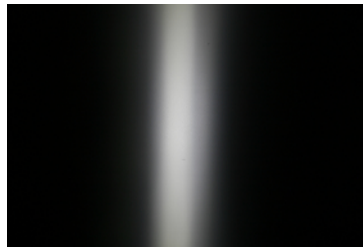
#### CREE LED

LED XP-E  
 FWHM / FWTM 102.0 + 10.0° / 154.0 + 26.0°  
 Efficiency 93 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



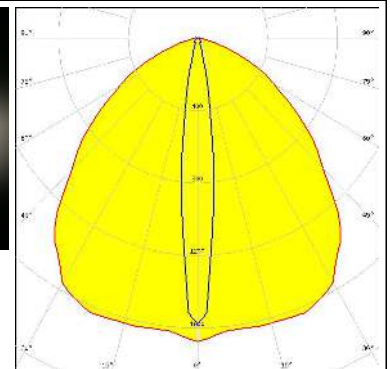
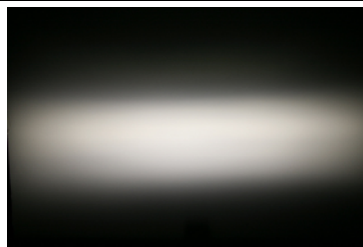
#### CREE LED

LED XP-E2  
 FWHM / FWTM 11.0 + 101.0° / 22.0 + 150.0°  
 Efficiency 94 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

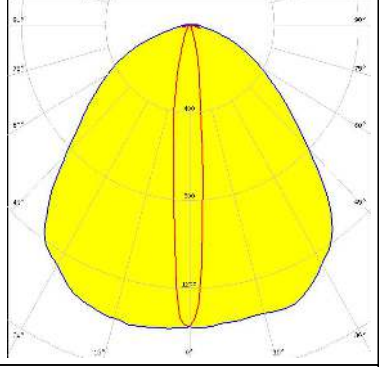

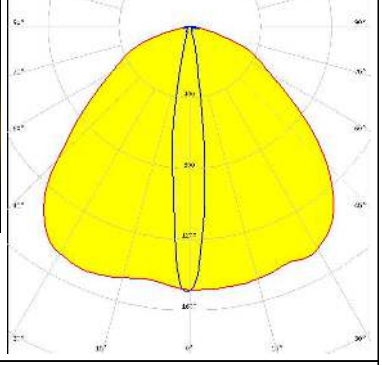
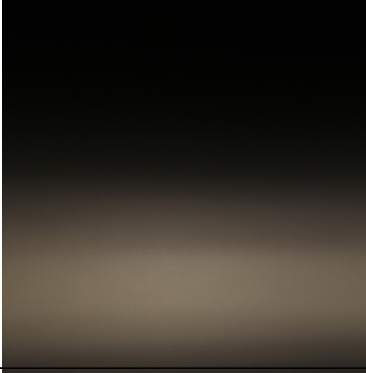
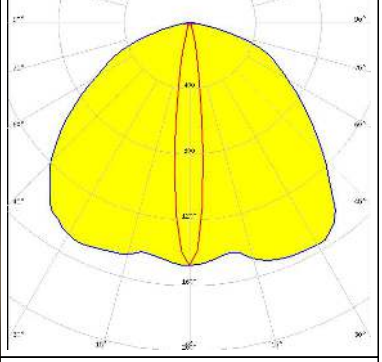
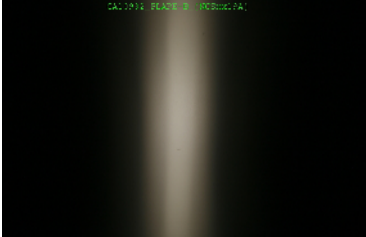


#### LUMILEDS

LED LUXEON Rebel  
 FWHM / FWTM 101.0 + 14.0° / 142.0 + 29.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



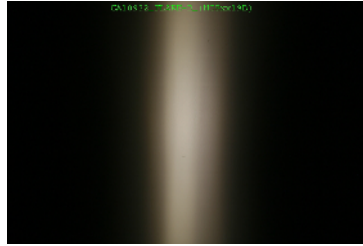
### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Rebel ES</p> <p>FWHM / FWTM 12.0 + 104.0° / 35.0 + 154.0°</p> <p>Efficiency 94 %</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><b>LUMILEDS</b></p> <p>LED LUXEON T</p> <p>FWHM / FWTM 13.0 + 105.0° / 29.0 + 152.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.5 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 TX</p> <p>FWHM / FWTM 14.0 + 114.0° / 29.0 + 156.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxx19A</p> <p>FWHM / FWTM 9.0 + 88.0° / 26.0 + 154.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

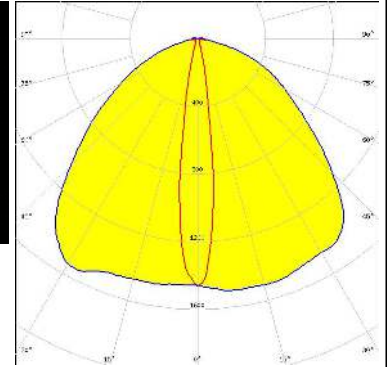
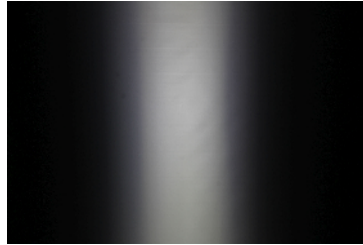
### OPTICAL RESULTS (MEASURED):



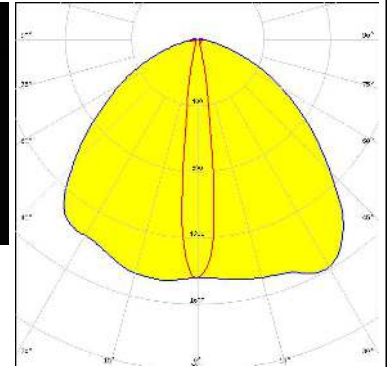
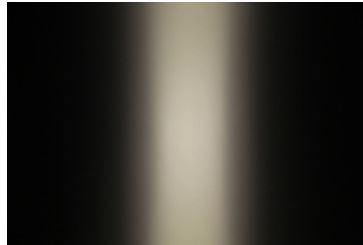
LED NCSxx19B  
 FWHM / FWTM 11.0 + 103.0° / 28.0 + 160.0°  
 Efficiency 94 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



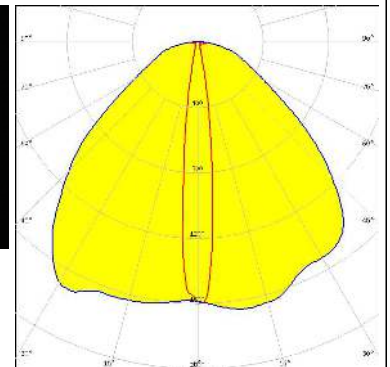
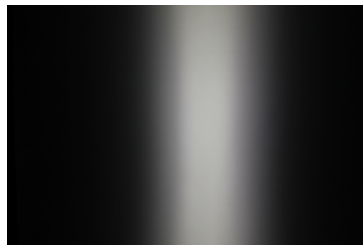
LED NVSW219F  
 FWHM / FWTM 15.0 + 108.0° / 28.0 + 150.0°  
 Efficiency 94 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





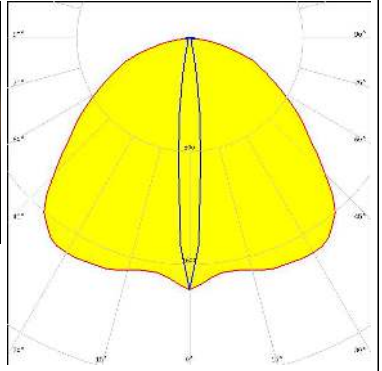

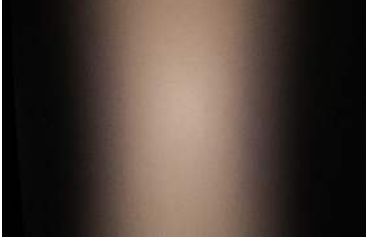
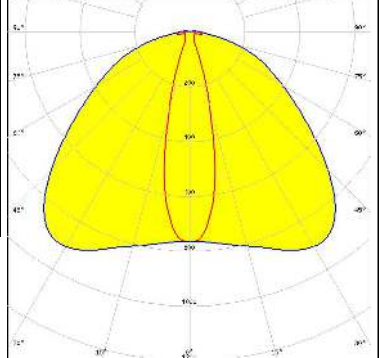
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 14.0 + 110.0° / 27.0 + 151.0°  
 Efficiency 94 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





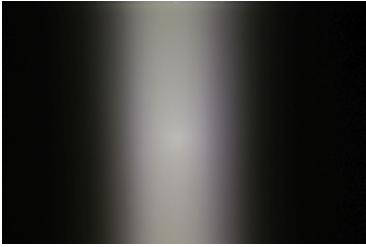
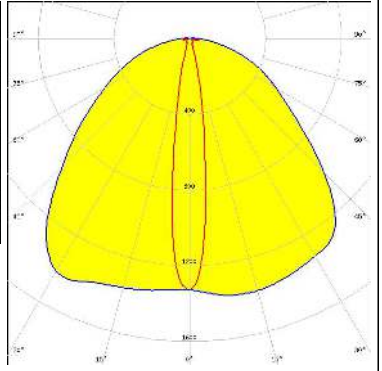
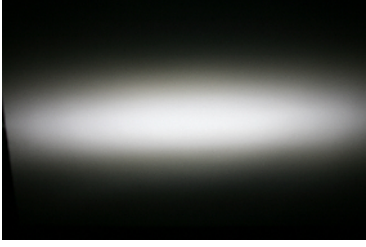
LED OSLON Square EC  
 FWHM / FWTM 13.0 + 104.0° / 26.0 + 157.0°  
 Efficiency 94 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Square EC FWHM / FWTM 12.0 + 104.0° / 33.0 + 162.0° Efficiency % LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150 FWHM / FWTM 9.0 + 117.0° Efficiency 93 % 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 OSLON SSL 80 FWHM / FWTM 83.0 + 11.0° / 144.0 + 24.0° Efficiency 93 % Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>SEOL SEMICONDUCTOR</b></p> <p>LED WICOP 5050 FWHM / FWTM 26.0 + 111.0° / 44.0 + 159.0° Efficiency 97 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

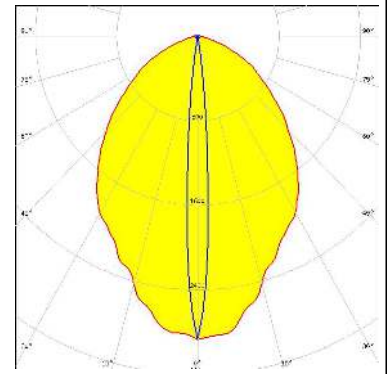
## OPTICAL RESULTS (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED Z5 FWHM / FWTM 12.0 + 96.0° Efficiency % LEDs/each optic 1 Light colour White Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED Z5M3 FWHM / FWTM 15.0 + 108.0° / 30.0 + 161.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	 
<p><b>SHARP</b></p> <p>LED Double Dome (GM2BB) FWHM / FWTM 104.0 + 10.0° Efficiency % LEDs/each optic 1 Light colour White Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

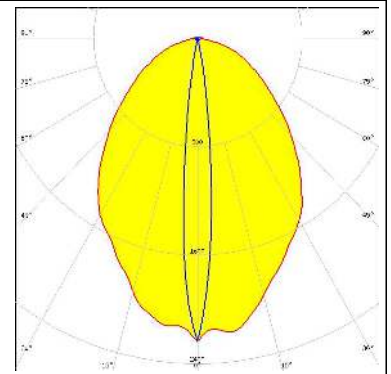
#### CREE ⇄ LED

LED XP-E2  
 Assembly NULL  
 FWHM / FWTM 82.0 + 8.0° / 140.0 + 16.0°  
 Efficiency 97 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour Blue  
 Required components:



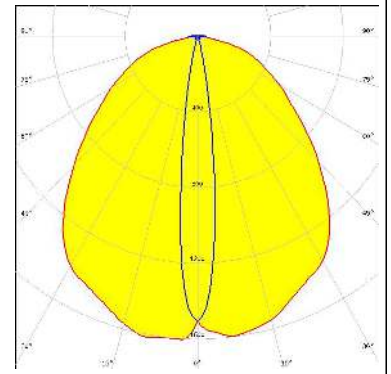
#### CREE ⇄ LED

LED XP-G2  
 FWHM / FWTM 11.0 + 83.0° / 21.0 + 146.0°  
 Efficiency 94 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



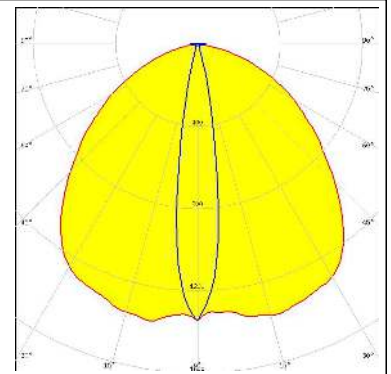
#### CREE ⇄ LED

LED XP-G3  
 FWHM / FWTM 99.0 + 14.0° / 153.0 + 26.0°  
 Efficiency 95 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE ⇄ LED

LED XP-L HD  
 FWHM / FWTM 106.0 + 16.0° / 151.0 + 30.0°  
 Efficiency 97 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

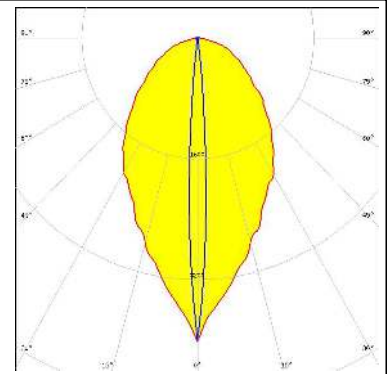
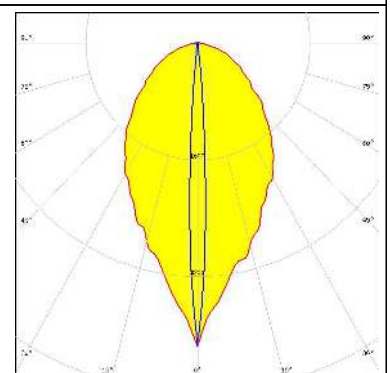
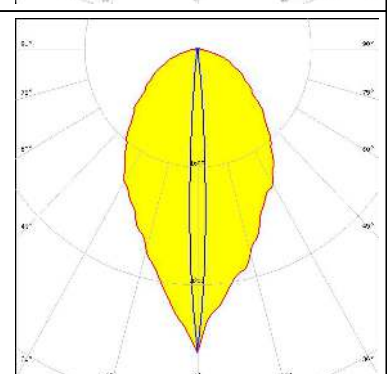
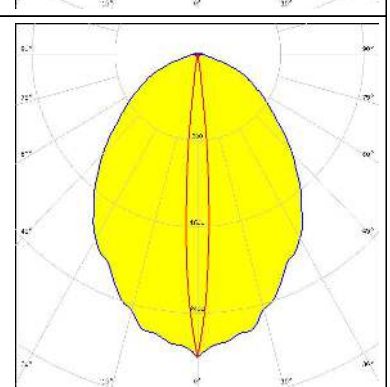




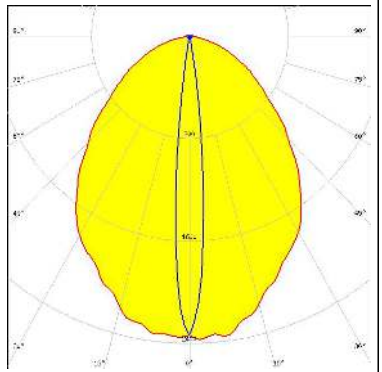
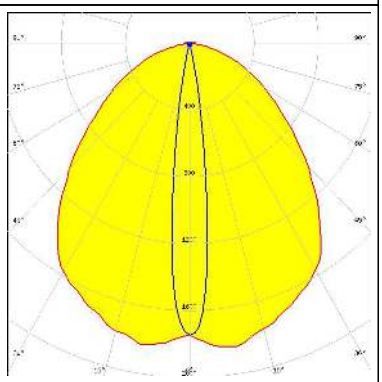
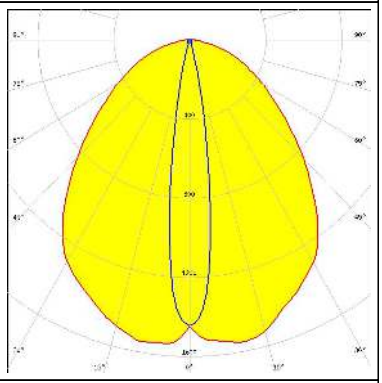
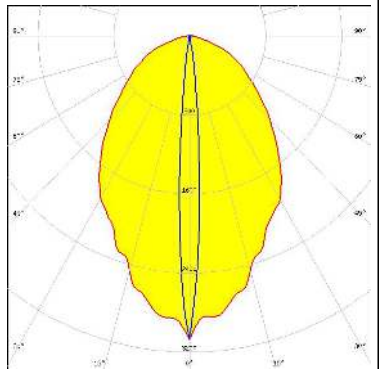
### OPTICAL RESULTS (SIMULATED):



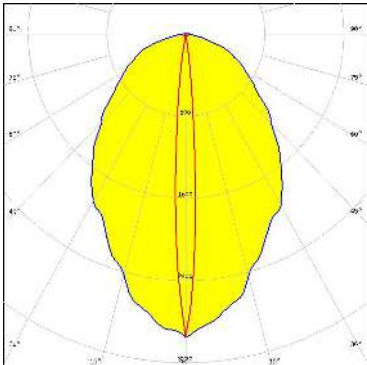
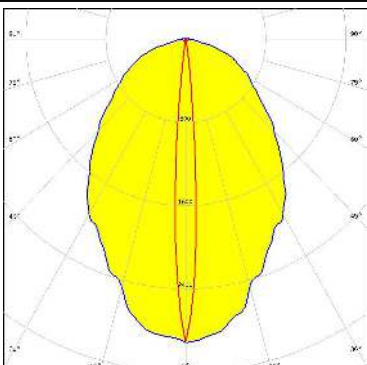
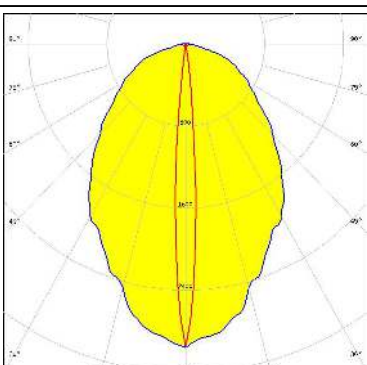
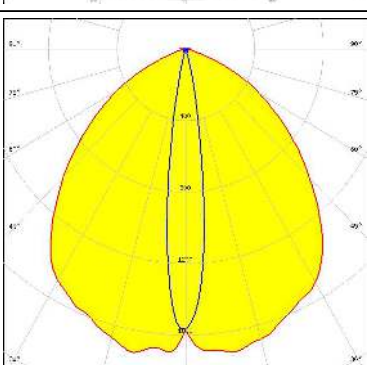
### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 62.0 + 6.0° / 141.0 + 13.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	 <p>A beam spread diagram showing a yellow beam profile on a grid. The grid has vertical lines at 0°, 15°, 30°, 45°, 60°, 75°, and 90°. The beam is centered at 0° and reaches a maximum width of approximately 62° at the bottom. The beam is wider at the top, reaching approximately 141°.</p>
<p><b>LUMILEDS</b></p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 60.0 + 6.0° / 140.0 + 12.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>	 <p>A beam spread diagram showing a yellow beam profile on a grid. The grid has vertical lines at 0°, 15°, 30°, 45°, 60°, 75°, and 90°. The beam is centered at 0° and reaches a maximum width of approximately 60° at the bottom. The beam is wider at the top, reaching approximately 140°.</p>
<p><b>LUMILEDS</b></p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 61.0 + 6.0° / 140.0 + 12.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 4.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Green</p> <p>Required components:</p>	 <p>A beam spread diagram showing a yellow beam profile on a grid. The grid has vertical lines at 0°, 15°, 30°, 45°, 60°, 75°, and 90°. The beam is centered at 0° and reaches a maximum width of approximately 61° at the bottom. The beam is wider at the top, reaching approximately 140°.</p>
<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 8.0 + 84.0° / 16.0 + 142.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	 <p>A beam spread diagram showing a yellow beam profile on a grid. The grid has vertical lines at 0°, 15°, 30°, 45°, 60°, 75°, and 90°. The beam is centered at 0° and reaches a maximum width of approximately 8° at the bottom. The beam is very wide at the top, reaching approximately 142°.</p>

### OPTICAL RESULTS (SIMULATED):

<p><b>LUMINUS</b></p> <p>LED SFT-40-WCS            FWHM / FWTM 88.0 + 10.0° / 145.0 + 20.0°            Efficiency 97 %            Peak intensity 2.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED SFT-70X-WCS            FWHM / FWTM 96.0 + 14.0° / 148.0 + 23.0°            Efficiency 98 %            Peak intensity 1.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3737 (3W version)            FWHM / FWTM 94.0 + 16.0° / 150.0 + 28.0°            Efficiency 97 %            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 OSLOX Signal            Assembly NULL            FWHM / FWTM 75.0 + 8.0° / 143.0 + 16.0°            Efficiency 97 %            Peak intensity 3.1 cd/lm            LEDs/each optic 1            Light colour Blue            Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSLOX Signal</p> <p>FWHM / FWTM: 8.0 + 79.0° / 16.0 + 148.0°</p> <p>Efficiency: 97 %</p> <p>Peak intensity: 3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSLOX Signal</p> <p>FWHM / FWTM: 8.0 + 81.0° / 15.0 + 148.0°</p> <p>Efficiency: 97 %</p> <p>Peak intensity: 2.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSLOX Signal</p> <p>FWHM / FWTM: 8.0 + 80.0° / 14.0 + 148.0°</p> <p>Efficiency: 97 %</p> <p>Peak intensity: 3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED: LH351C</p> <p>FWHM / FWTM: 97.0 + 16.0° / 137.0 + 27.0°</p> <p>Efficiency: 97 %</p> <p>Peak intensity: 1.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

	
SEOL SEMICONDUCTOR	
LED	Z5M1/Z5M2
FWHM / FWTM	93.0 + 12.0° / 143.0 + 22.0°
Efficiency	97 %
Peak intensity	2.1 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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#### LEDiL Oy

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Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

[www.ledil.com/  
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#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

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