

### IRIS-SCREW

~5° real spot beam with holder optimized for CREE XP-E. Assembly with screws.

#### SPECIFICATION:

Dimensions	Ø 38.0 mm
Height	26.9 mm
Fastening	glue, pin, screw
ROHS compliant	yes ⓘ



#### MATERIALS:

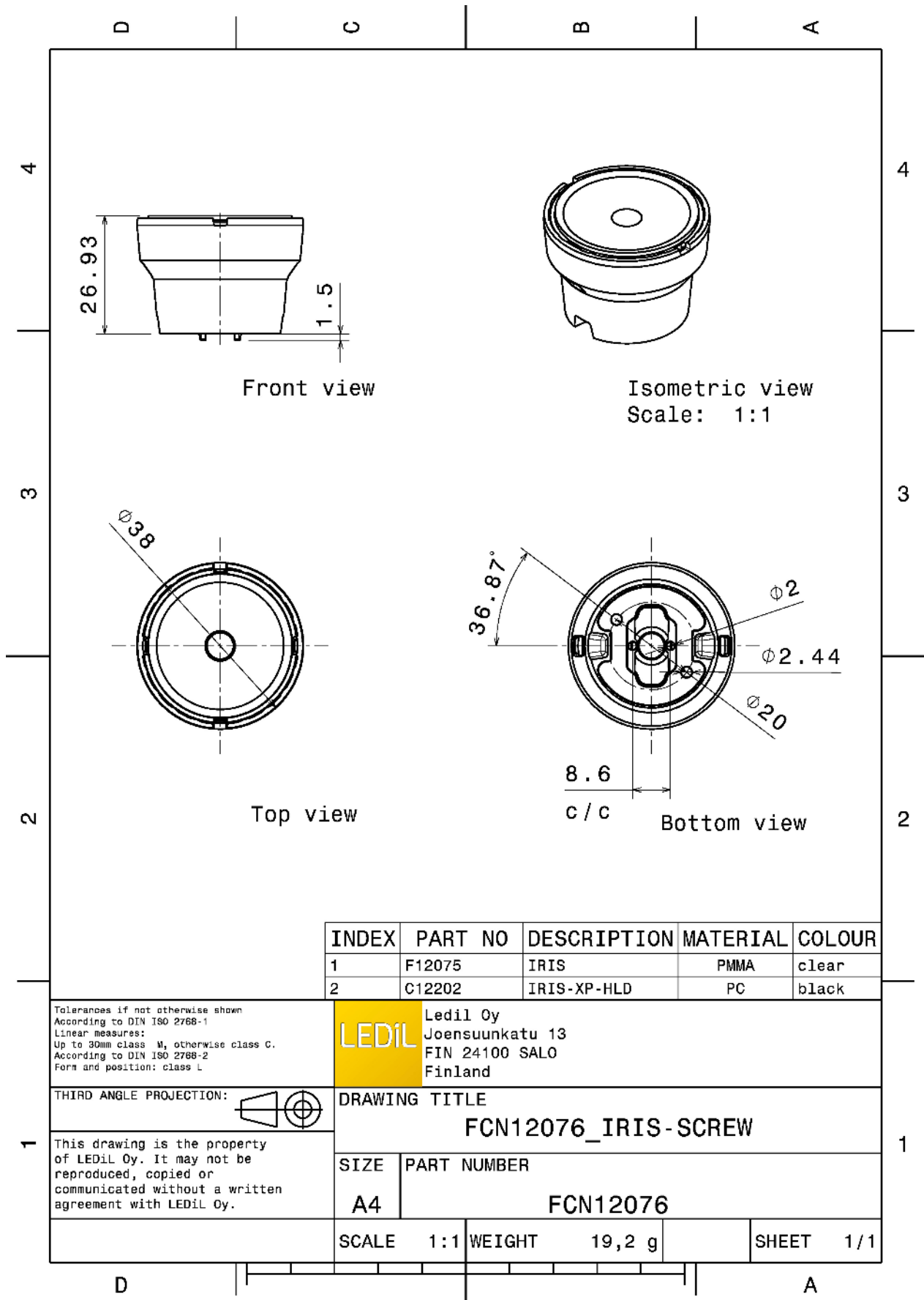
Component	Type	Material	Colour	Finish
F12075_IRIS	Single lens	PMMA	clear	
C12202_IRIS-XP-HLD	Holder	PC	black	

#### ORDERING INFORMATION:

##### Quantities for one set:

Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
F12075_IRIS	Single lens	450	90	45	7.5
» Box size: 480 x 280 x 300 mm					
C12202_IRIS-XP-HLD	Holder	1080	90	15	7.6
» 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):

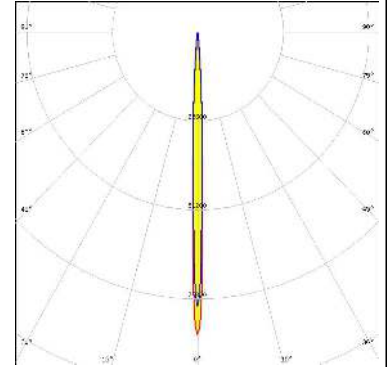
#### CREE LED

LED XHP35 HI  
 FWHM / FWTM 7.6° / 17.0°  
 Efficiency 90 %  
 Peak intensity 35.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



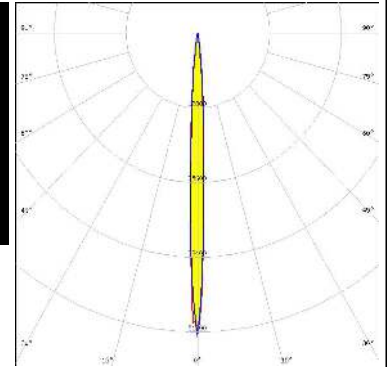
#### CREE LED

LED XP-E  
 FWHM / FWTM 4.0° / 9.0°  
 Efficiency 93 %  
 Peak intensity 87.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



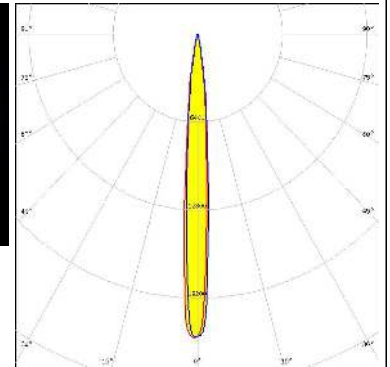
#### CREE LED

LED XP-G  
 FWHM / FWTM 5.0° / 13.0°  
 Efficiency 93 %  
 Peak intensity 52 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE LED

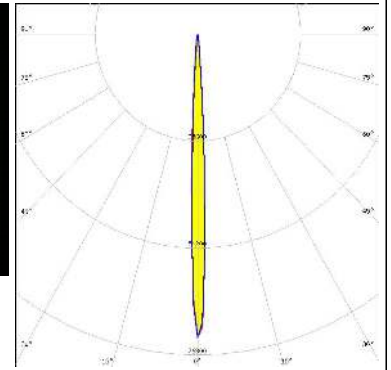
LED XP-L HD  
 FWHM / FWTM 8.5° / 20.0°  
 Efficiency 93 %  
 Peak intensity 22.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

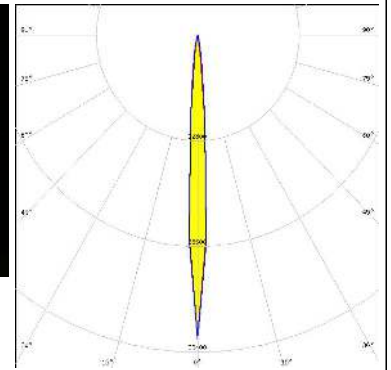
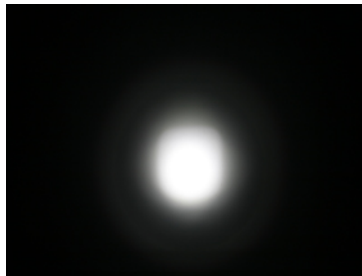
#### LUMILEDS

LED LUXEON Rebel  
 FWHM / FWTM 5.0° / 9.0°  
 Efficiency 93 %  
 Peak intensity 75.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



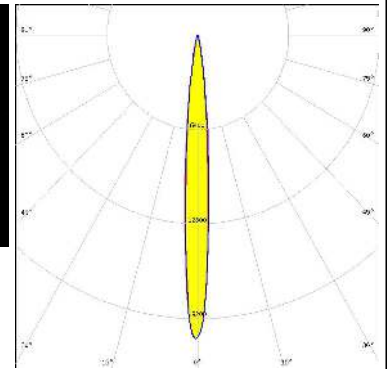
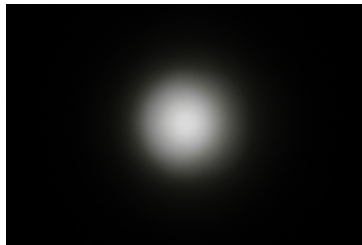
#### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 7.0° / 14.0°  
 Efficiency 93 %  
 Peak intensity 38.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



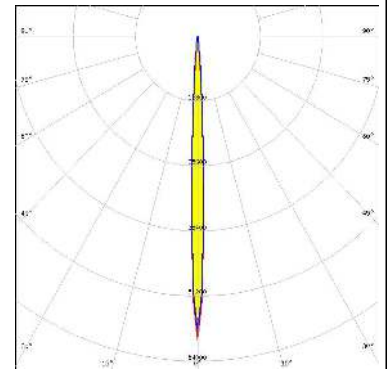
#### LUMILEDS

LED LUXEON V  
 FWHM / FWTM 9.0° / 20.0°  
 Efficiency 92 %  
 Peak intensity 20.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

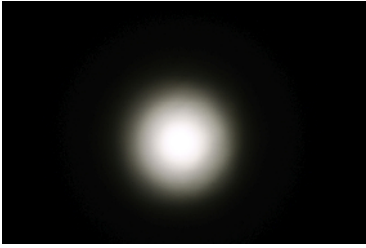
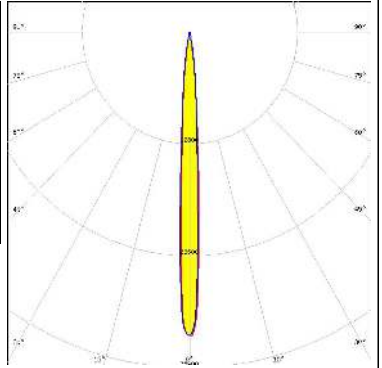
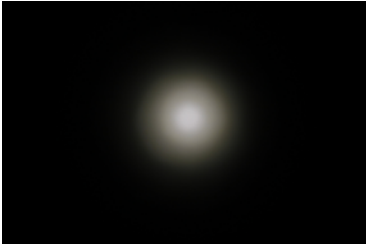
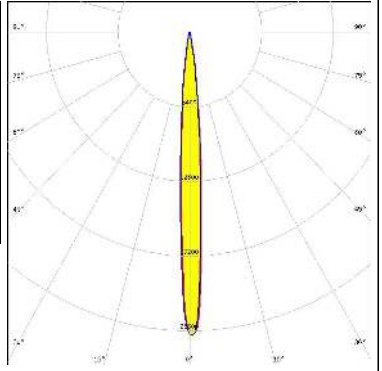

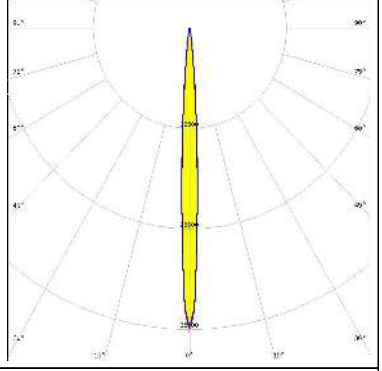

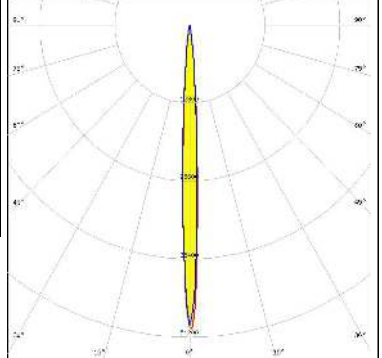


#### NICHIA

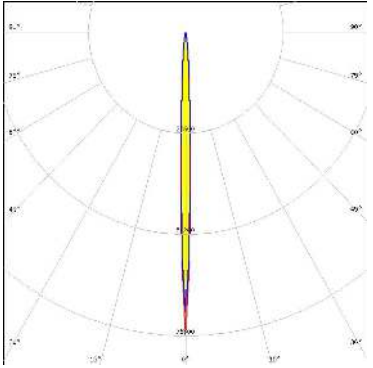
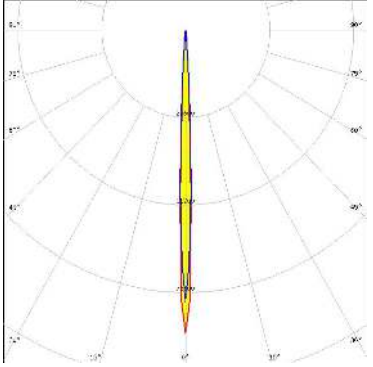
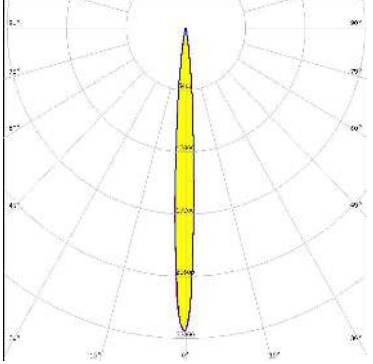

LED NCSxx19A  
 FWHM / FWTM 5.0° / 11.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



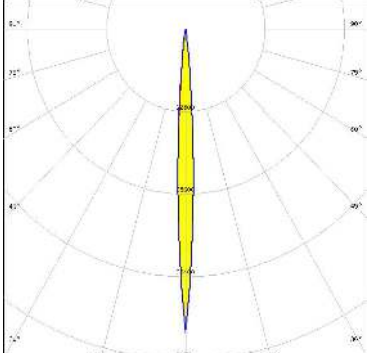
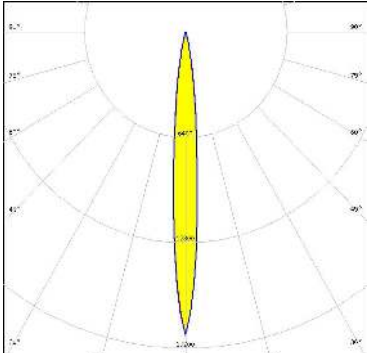
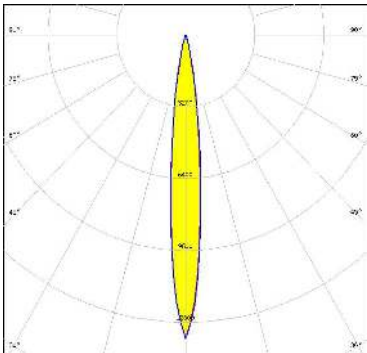
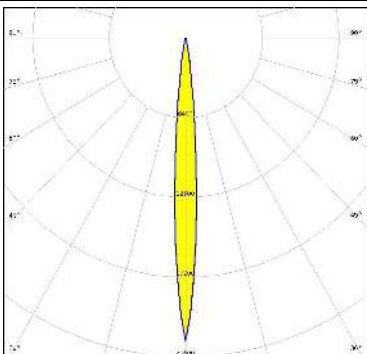
### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSW219F            FWHM / FWTM 7.0° / 17.0°            Efficiency 93 %            Peak intensity 34.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW3x9A            FWHM / FWTM 8.0° / 18.0°            Efficiency 90 %            Peak intensity 26.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19A            FWHM / FWTM 6.0° / 14.0°            Efficiency 93 %            Peak intensity 38.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON Square CSSRM2/CSSRM3            FWHM / FWTM 6.0° / 13.0°            Efficiency 94 %            Peak intensity 49.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

### OPTICAL RESULTS (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 4.0° / 11.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 76.8 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 OSLON SSL 80</p> <p>FWHM / FWTM 4.0° / 9.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 89 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>SEMI</b> SEOUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 7.0° / 16.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	 

### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> → <b>LED</b></p> <p>LED: XD16            FWHM / FWTM: 6.0° / 14.0°            Efficiency: 91 %            Peak intensity: 47.1 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: 10.0° / 22.0°            Efficiency: 93 %            Peak intensity: 18.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> → <b>LED</b></p> <p>LED: XHP35.2 HD            FWHM / FWTM: 12.0° / 25.0°            Efficiency: 86 %            Peak intensity: 13.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> → <b>LED</b></p> <p>LED: XHP35.2 HD            FWHM / FWTM: 8.0° / 18.0°            Efficiency: 90 %            Peak intensity: 24.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	



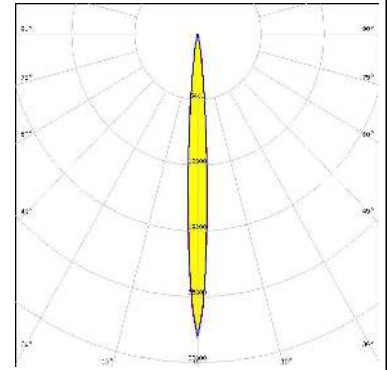
### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED: XP-E2            FWHM / FWTM: 6.0° / 12.0°            Efficiency: 93 %            Peak intensity: 67.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED: XP-E2            FWHM / FWTM: 5.9° / 13.0°            Efficiency: 94 %            Peak intensity: 56.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED: XP-G2            FWHM / FWTM: 6.7° / 15.0°            Efficiency: 94 %            Peak intensity: 44.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED: XP-G2 HE            FWHM / FWTM: 8.0° / 18.0°            Efficiency: 90 %            Peak intensity: 28.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

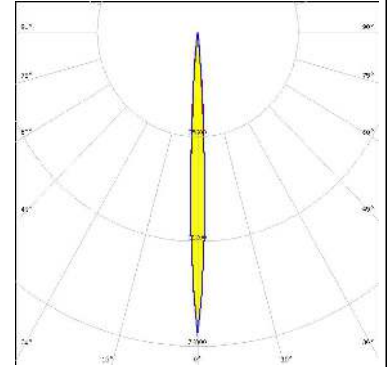
#### CREE → LED

LED XP-G3  
 FWHM / FWTM 7.5° / 18.0°  
 Efficiency 91 %  
 Peak intensity 29.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE → LED

LED XQ-E HD  
 FWHM / FWTM 5.5° / 12.0°  
 Efficiency 94 %  
 Peak intensity 74.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



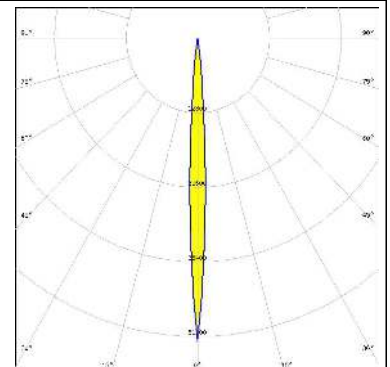
#### CREE → LED

LED XQ-E HD  
 FWHM / FWTM 5.0° / 11.5°  
 Efficiency 93 %  
 Peak intensity 80 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

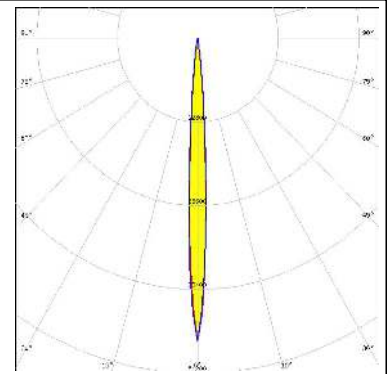
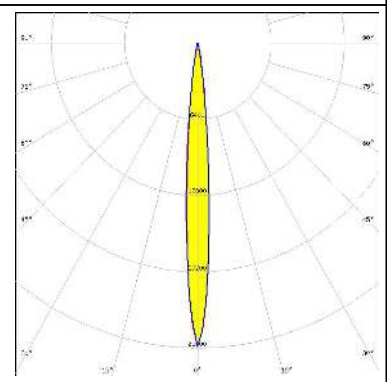
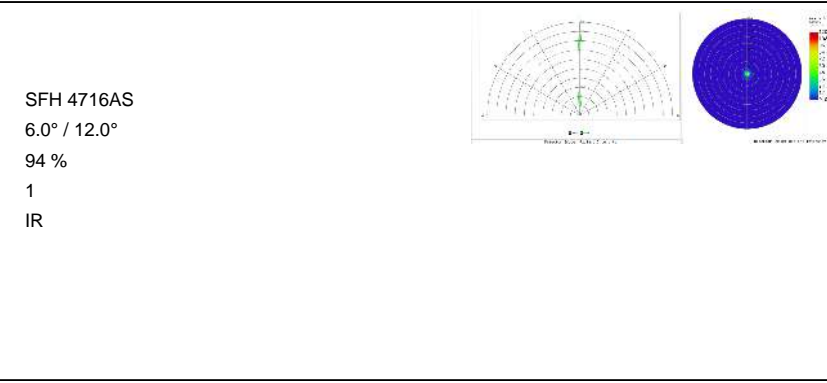
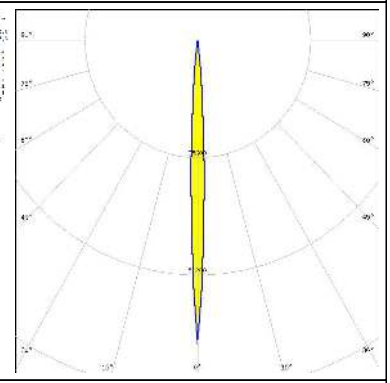
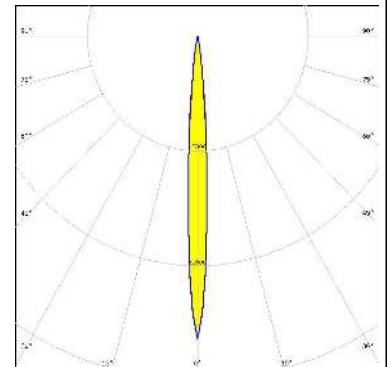


#### LUMINUS

LED SST-20  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 94 %  
 Peak intensity 52.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



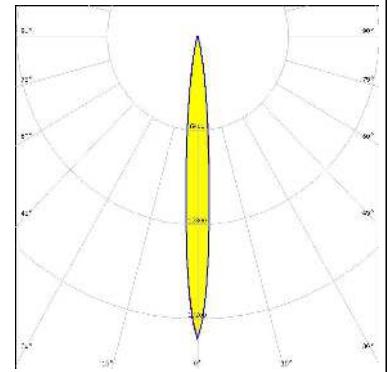
### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSCONIQ P 3737 (2W version)</p> <p>FWHM / FWTM: 6.5° / 13.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 46.4 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: OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM: 9.0° / 19.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 25.5 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: SFH 4716AS</p> <p>FWHM / FWTM: 6.0° / 12.0°</p> <p>Efficiency: 94 %</p> <p>LEDs/each optic: 1</p> <p>Light colour: IR</p> <p>Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED: LH351B</p> <p>FWHM / FWTM: 7.4° / 17.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 33.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		

### OPTICAL RESULTS (SIMULATED):

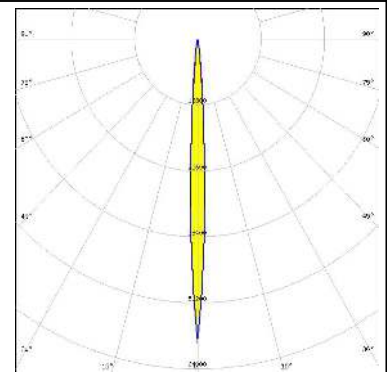
#### SAMSUNG

LED LH351D  
 FWHM / FWTM 9.2° / 21.0°  
 Efficiency 90 %  
 Peak intensity 20.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

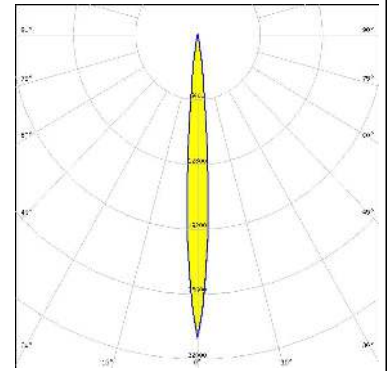


#### SAMSUNG

LED LM101B  
 FWHM / FWTM 6.0° / 12.0°  
 Efficiency 92 %  
 Peak intensity 58.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR  
 LED Z8Y22P  
 FWHM / FWTM 8.0°  
 Efficiency 98 %  
 Peak intensity 29.9 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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