

## HEIDI-RS

~8° spot beam

### SPECIFICATION:

Dimensions	Ø 21.6 mm
Height	11.7 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

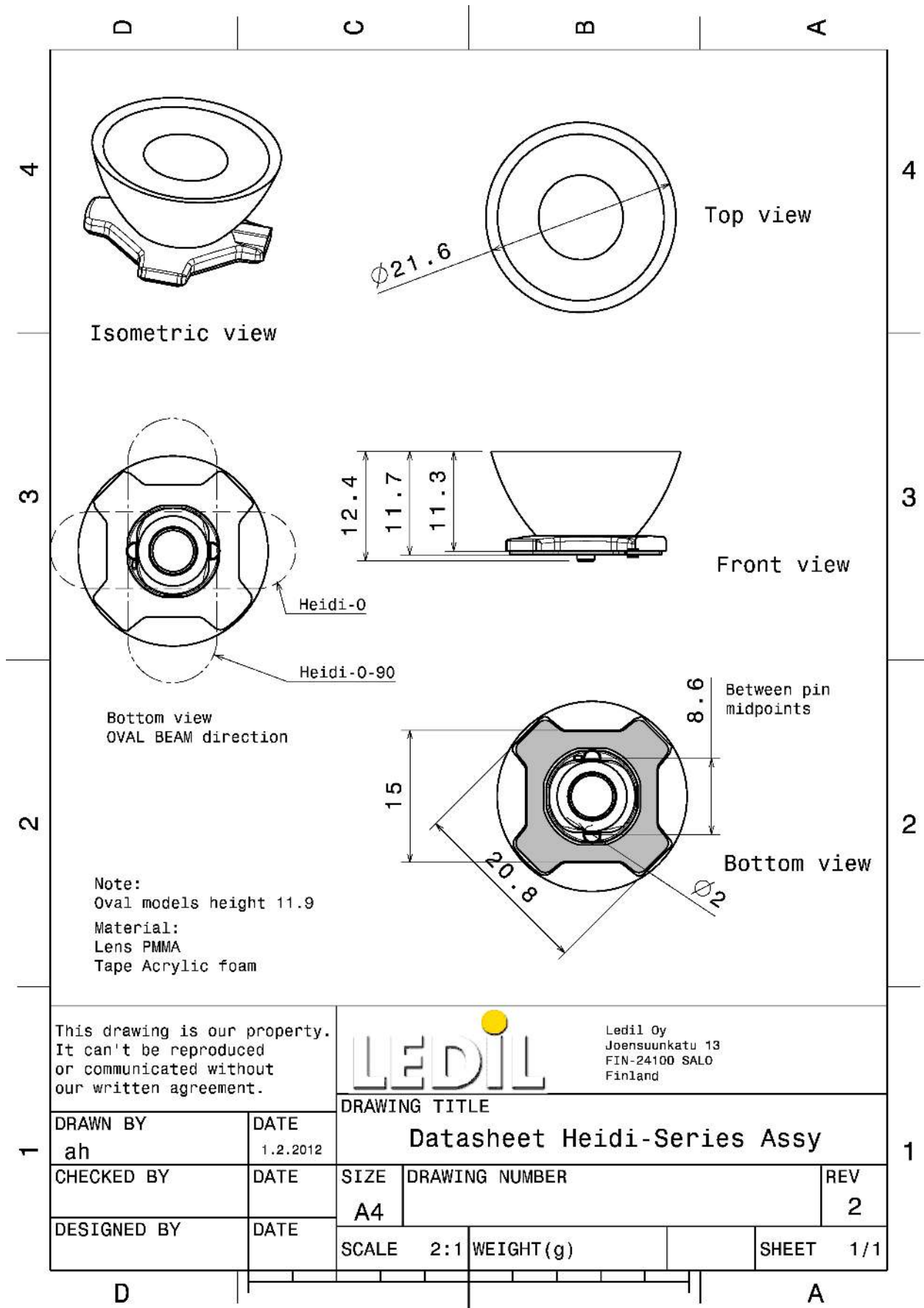
### MATERIALS:

Component	Type	Material	Colour	Finish
HEIDI-RS	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11663_HEIDI-RS	Single lens	3264	204	204	10.4
» 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)

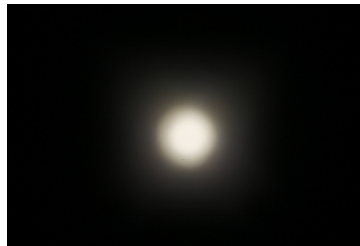
#### OPTICAL RESULTS (MEASURED):

##### CREE → LED

LED XB-D  
FWHM / FWTM 8.0°  
Efficiency 91 %  
Peak intensity 19.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

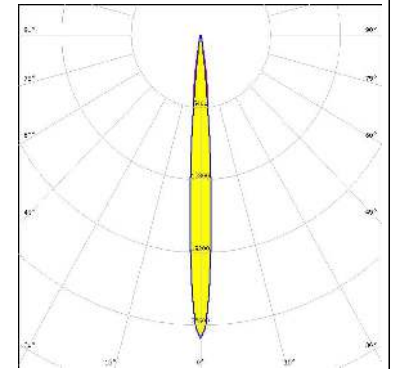
##### CREE → LED

LED XB-H  
FWHM / FWTM 10.0° / 19.0°  
Efficiency 90 %  
Peak intensity 18.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



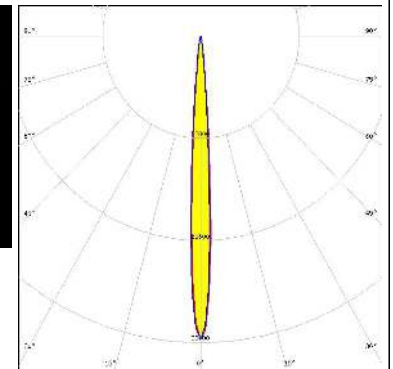
##### CREE → LED

LED XP-E  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 93 %  
Peak intensity 26.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### CREE → LED

LED XP-E2  
FWHM / FWTM 8.0° / 14.0°  
Efficiency 90 %  
Peak intensity 38 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



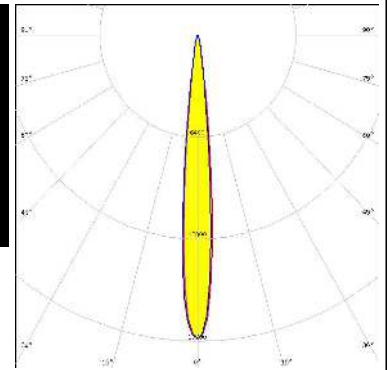
#### OPTICAL RESULTS (MEASURED):

##### CREE LED

LED XP-G  
 FWHM / FWTM 9.0° / 20.0°  
 Efficiency 93 %  
 Peak intensity 16.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

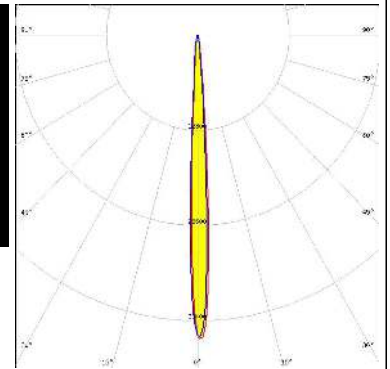
##### CREE LED

LED XP-G2  
 FWHM / FWTM 11.0° / 20.0°  
 Efficiency 91 %  
 Peak intensity 19.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



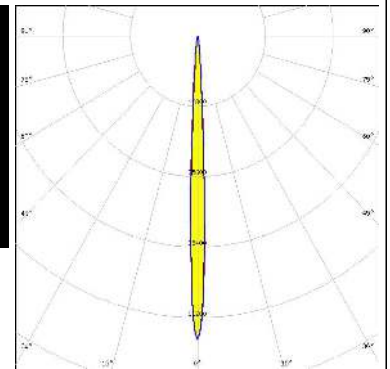
##### CREE LED

LED XQ-E HD  
 FWHM / FWTM 6.0° / 12.0°  
 Efficiency 94 %  
 Peak intensity 42.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### CREE LED

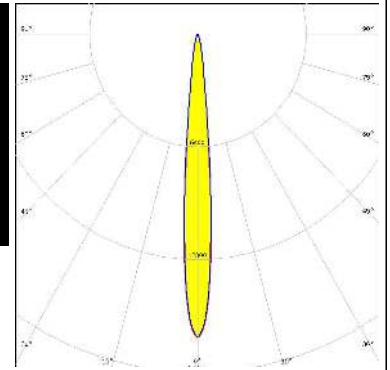
LED XQ-E HI  
 FWHM / FWTM 5.0° / 11.0°  
 Efficiency 94 %  
 Peak intensity 55.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

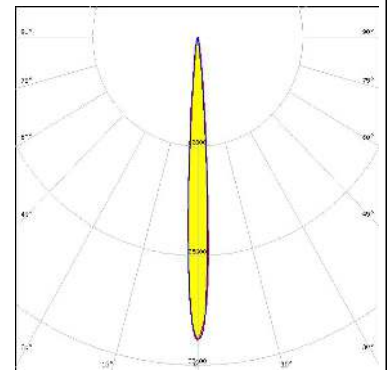
#### CREE LED

LED XT-E  
 FWHM / FWTM 10.0° / 21.0°  
 Efficiency 97 %  
 Peak intensity 17.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



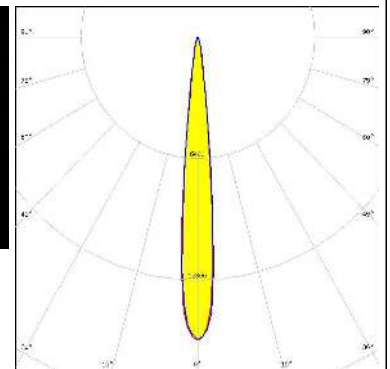
#### LUMILEDS

LED LUXEON C  
 FWHM / FWTM 7.0° / 14.0°  
 Efficiency 92 %  
 Peak intensity 35.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



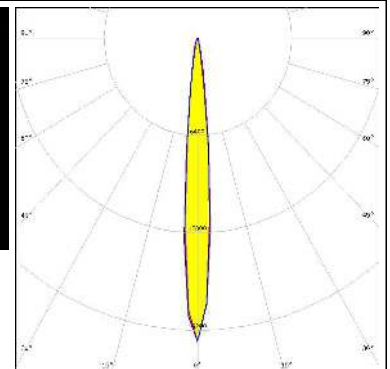
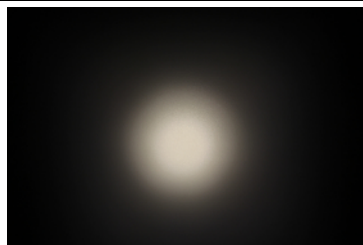
#### LUMILEDS

LED LUXEON T  
 FWHM / FWTM 11.0° / 20.0°  
 Efficiency 92 %  
 Peak intensity 16.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

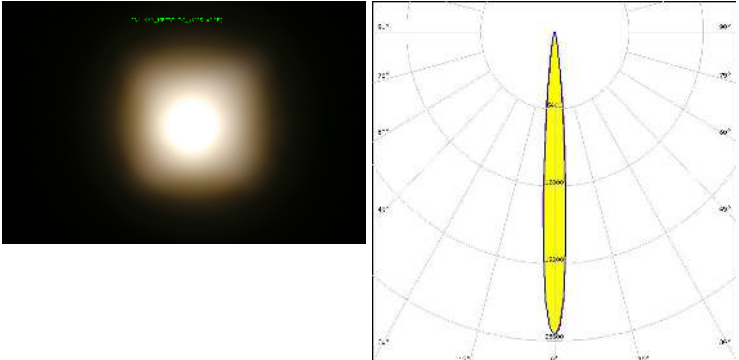
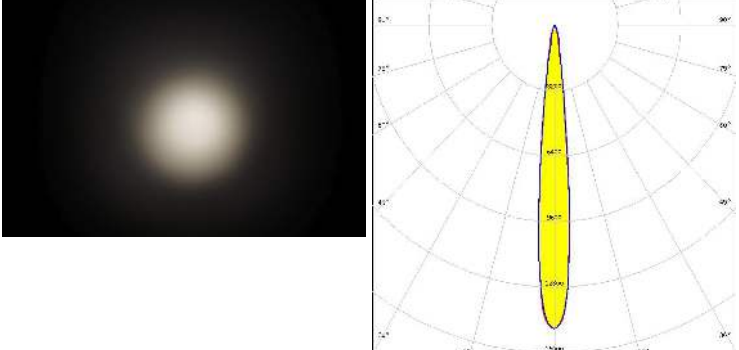


#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 90 %  
 Peak intensity 19.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



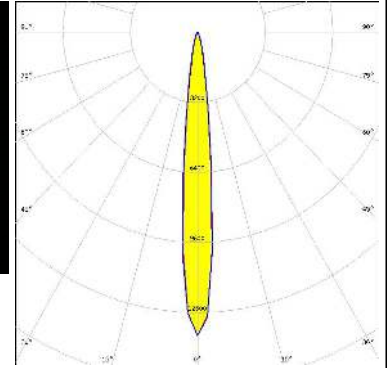
### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NCSxx19A            FWHM / FWTM 8.0° / 18.0°            Efficiency 89 %            Peak intensity 19 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 9.0° / 18.0°            Efficiency 90 %            Peak intensity 25.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NVSxx19A            FWHM / FWTM 10.0° / 23.0°            Efficiency 89 %            Peak intensity 13.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 12.0° / 21.0°            Efficiency 96 %            Peak intensity 14.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### OPTICAL RESULTS (MEASURED):



LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 12.0° / 26.0°  
 Efficiency 92 %  
 Peak intensity 13.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



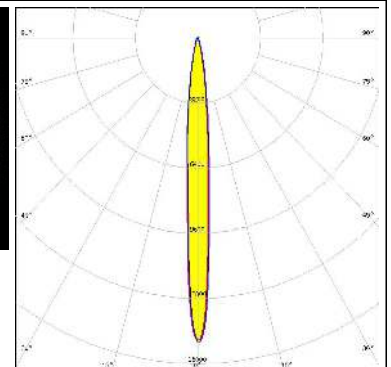
LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 89 %  
 Peak intensity 20.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM SSL 150  
 FWHM / FWTM 7.0° / 16.0°  
 Efficiency 93 %  
 Peak intensity 24.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LH181A  
 FWHM / FWTM 8.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 14.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

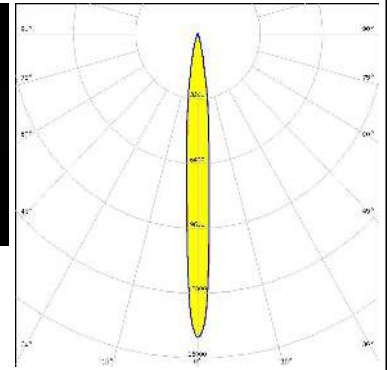




#### OPTICAL RESULTS (MEASURED):

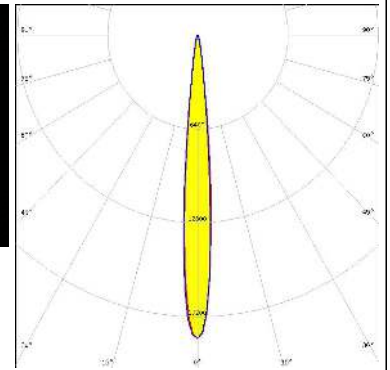
### SAMSUNG

LED LH181B  
 FWHM / FWTM 9.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 15 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

LED LH351Z  
 FWHM / FWTM 11.0° / 19.0°  
 Efficiency 89 %  
 Peak intensity 20.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



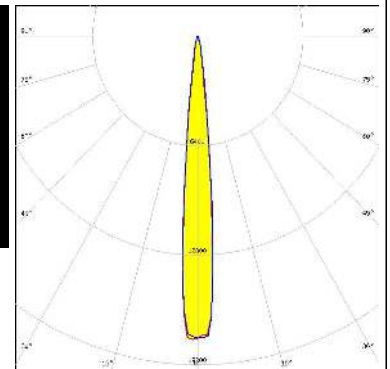
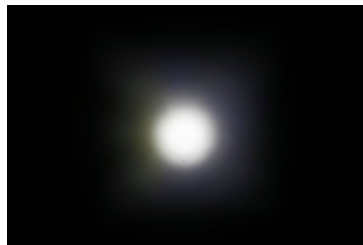
SEOUL SEMICONDUCTOR

LED Z5  
 FWHM / FWTM 7.0° / 16.0°  
 Efficiency 93 %  
 Peak intensity 32.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2  
 FWHM / FWTM 11.0° / 19.0°  
 Efficiency 94 %  
 Peak intensity 17.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

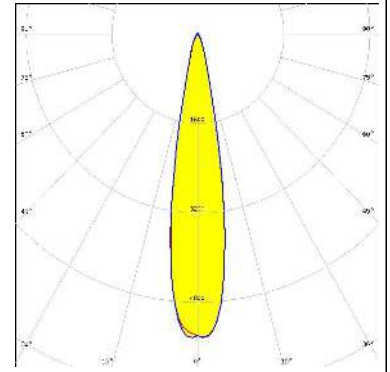




### OPTICAL RESULTS (SIMULATED):

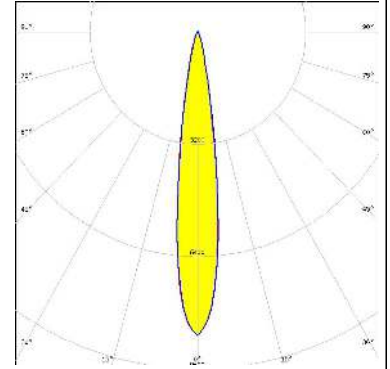
#### CREE LED

LED XHP35.2 HD  
 FWHM / FWTM 20.0° / 34.0°  
 Efficiency 91 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



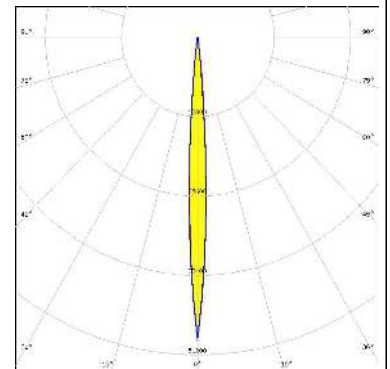
#### CREE LED

LED XHP35.2 HI  
 FWHM / FWTM 16.0° / 29.0°  
 Efficiency 94 %  
 Peak intensity 8.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



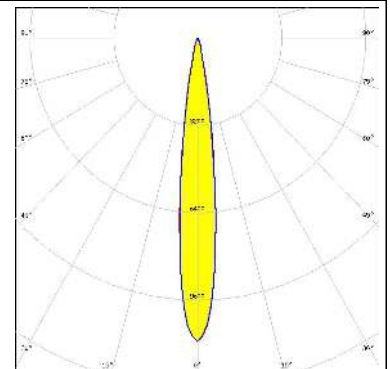
#### LUMILEDS

LED LUXEON CZ  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 96 %  
 Peak intensity 48.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

LED LUXEON HL2X  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 94 %  
 Peak intensity 11.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



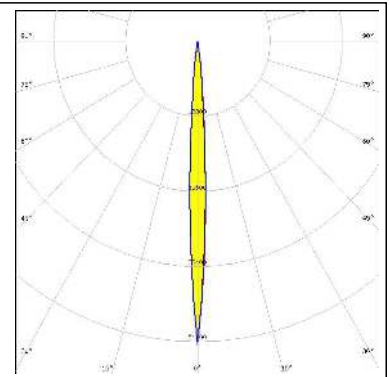
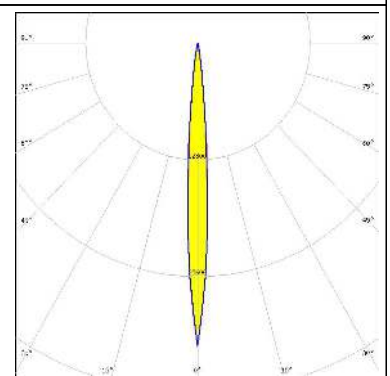
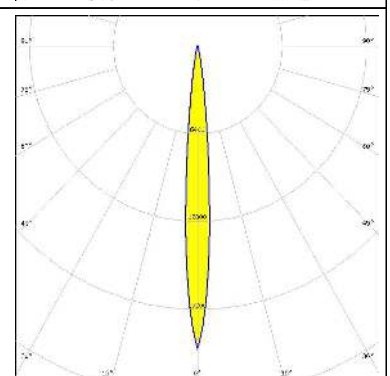
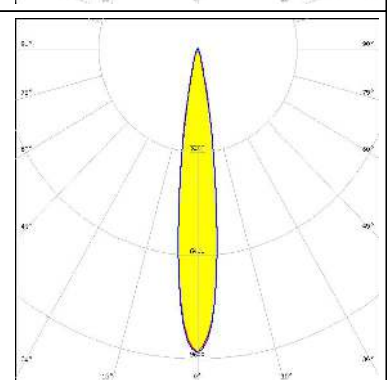
#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON HL2Z</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 19.8 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 MZ</p> <p>FWHM / FWTM 18.0° / 31.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 7.2 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 Rubix</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 48.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Red</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 47.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

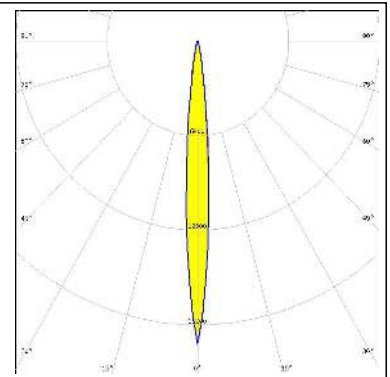
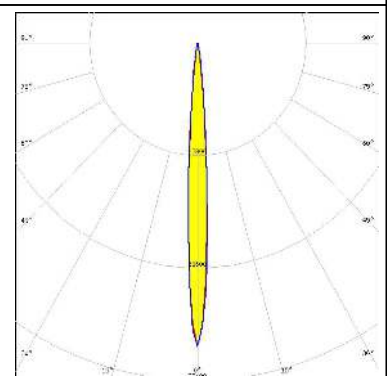
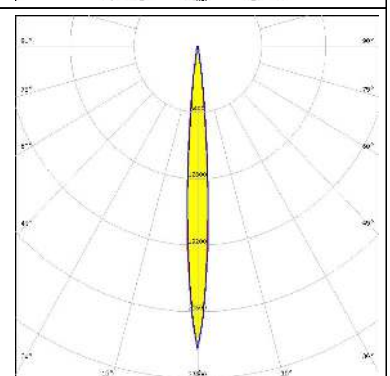
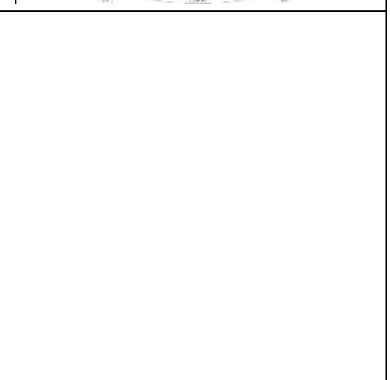
#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON Rubix</p> <p>FWHM / FWTM: 6.0° / 14.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 45.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Blue</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON Rubix</p> <p>FWHM / FWTM: 6.0° / 14.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 46.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Green</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON SunPlus 20 Line (120 deg)</p> <p>FWHM / FWTM: 8.0° / 16.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 30 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 SunPlus 20 Line (150 deg)</p> <p>FWHM / FWTM: 8.0° / 17.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 28.5 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

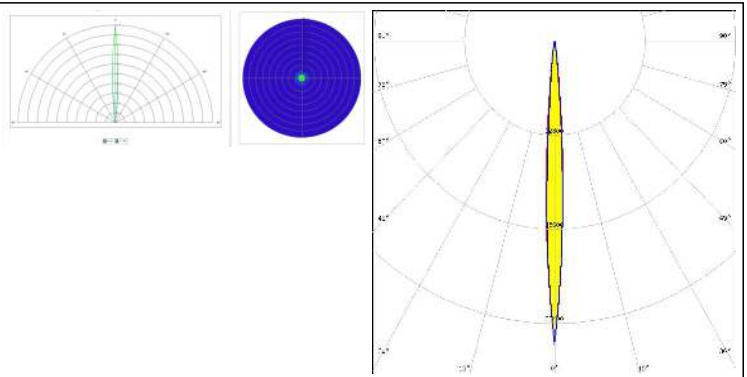
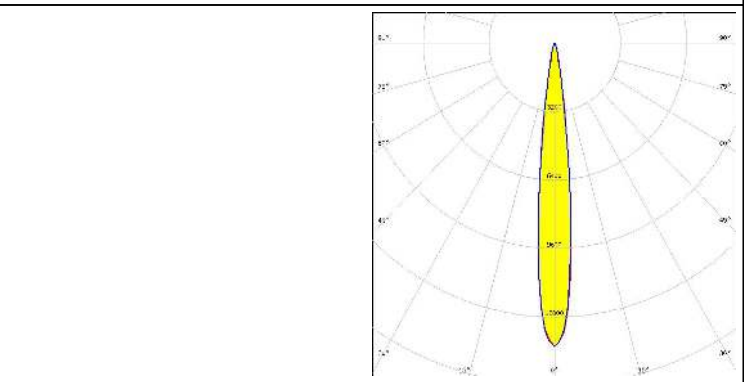
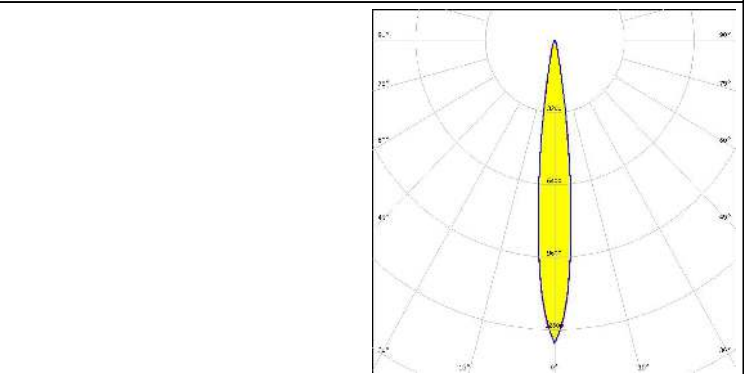
### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Z            FWHM / FWTM 6.0° / 14.0°            Efficiency 95 %            Peak intensity 51.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES            FWHM / FWTM 7.7° / 17.0°            Efficiency 94 %            Peak intensity 33.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED SST-20            FWHM / FWTM 10.0° / 19.0°            Efficiency 94 %            Peak intensity 22.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NVSW519A            FWHM / FWTM 14.0° / 28.0°            Efficiency 92 %            Peak intensity 9.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM / FWTM 8.0° / 20.0°            Efficiency 93 %            Peak intensity 20.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3030            FWHM / FWTM 7.1° / 16.0°            Efficiency 96 %            Peak intensity 34.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON PURE 1010            FWHM / FWTM 8.0° / 16.0°            Efficiency 93 %            Peak intensity 29.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON Square EC            FWHM / FWTM 12.0°            Efficiency %            Peak intensity 11.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED SFH 4170S            FWHM / FWTM 6.0° / 14.0°            Efficiency 88 %            LEDs/each optic 1            Light colour IR            Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED LH351B            FWHM / FWTM 12.0° / 22.0°            Efficiency 94 %            Peak intensity 14.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED LH351C            FWHM / FWTM 12.0° / 24.0°            Efficiency 95 %            Peak intensity 13.4 cd/lm            LEDs/each optic 1            Light colour White            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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[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

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Hong Kong, China

#### Distribution Partners

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