

## HEIDI-SS

~15° smooth spot beam

### SPECIFICATION:

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

### MATERIALS:

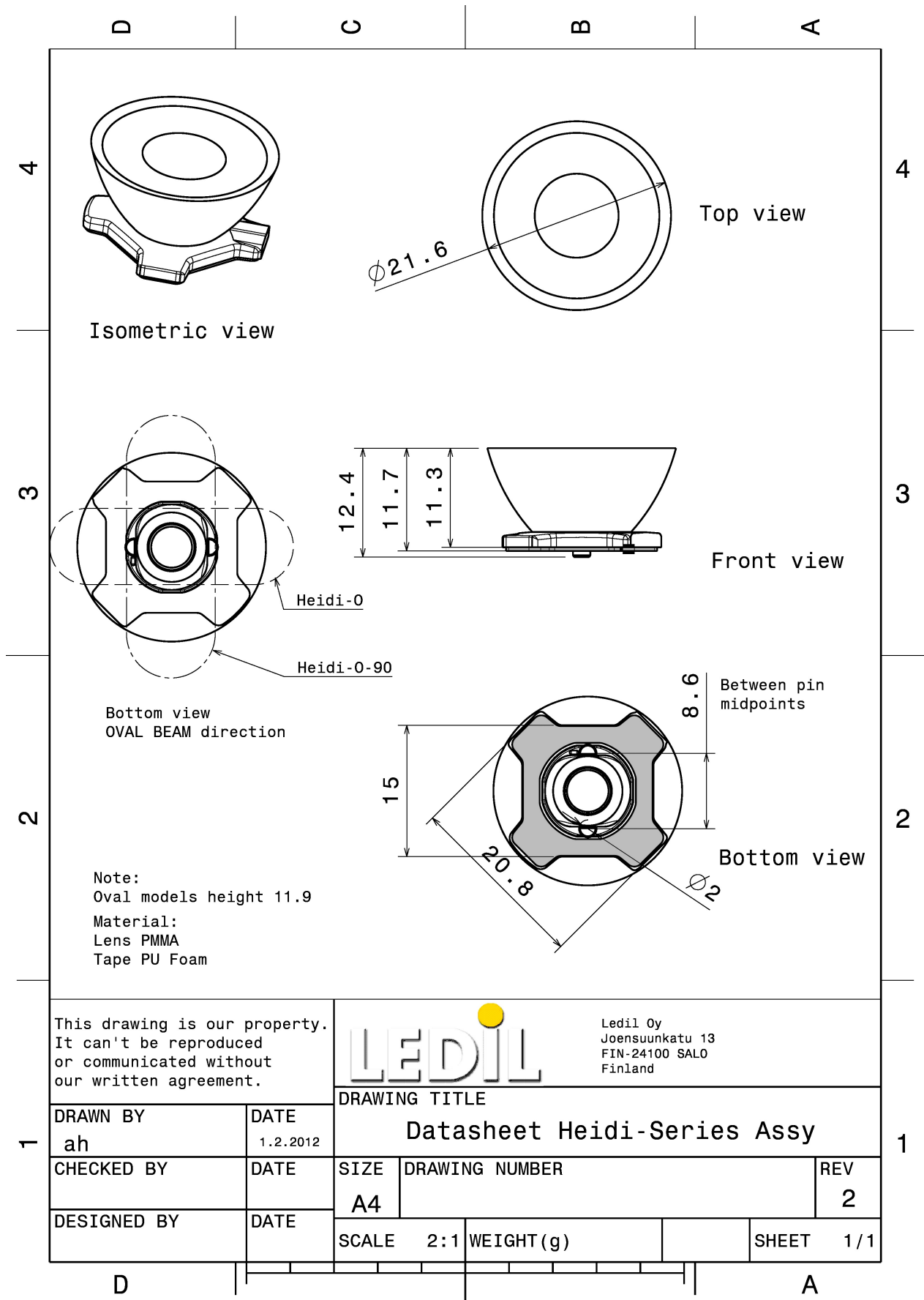
Component	Type	Material	Colour	Finish
HEIDI-SS	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12242_HEIDI-SS	Single lens	3264	204	204	11.1
» Box size: 480 x 280 x 300 mm					




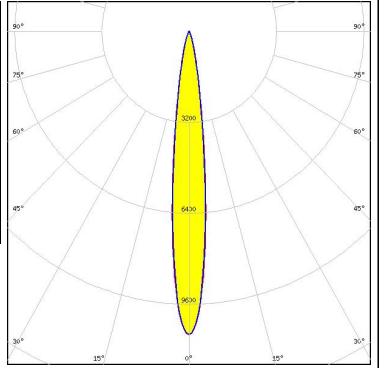

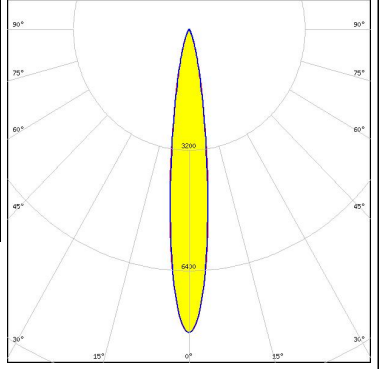

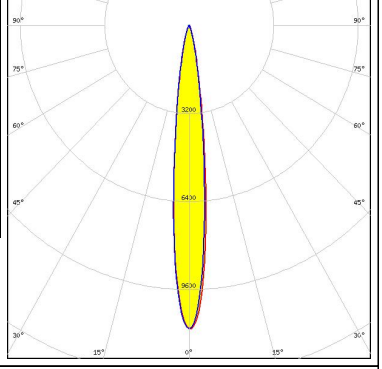

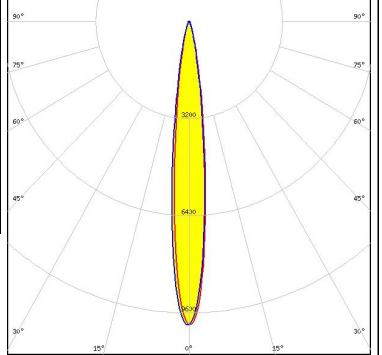
LEDiL



This drawing is our property. It can't be reproduced or communicated without our written agreement.		<b>LEDiL</b>		Ledil Oy Joensuunkatu 13 FIN-24100 SALO Finland	
DRAWN BY ah		DATE 1.2.2012		DRAWING TITLE <b>Datasheet Heidi-Series Assy</b>	
CHECKED BY		DATE		SIZE A4	
DESIGNED BY		DATE		DRAWING NUMBER	
		SCALE 2:1		WEIGHT (g)	
				REV 2	
				SHEET 1/1	

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

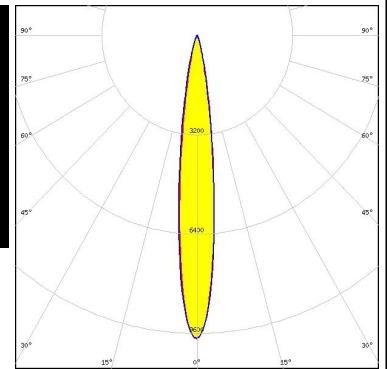
### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED XP-E            FWHM / FWTM 13.0° / 28.0°            Efficiency 95 %            Peak intensity 10.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-G            FWHM / FWTM 15.0° / 33.0°            Efficiency 95 %            Peak intensity 8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XQ-E HD            FWHM / FWTM 12.0° / 27.0°            Efficiency 94 %            Peak intensity 11.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XQ-E HI            FWHM / FWTM 12.0° / 28.0°            Efficiency 92 %            Peak intensity 10 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

### OPTICAL RESULTS (MEASURED):

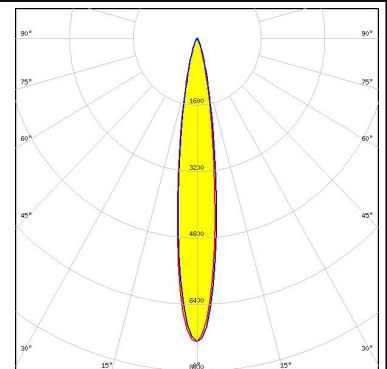
#### LUMILEDS

LED LUXEON C  
 FWHM / FWTM 13.0° / 28.0°  
 Efficiency 87 %  
 Peak intensity 9.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



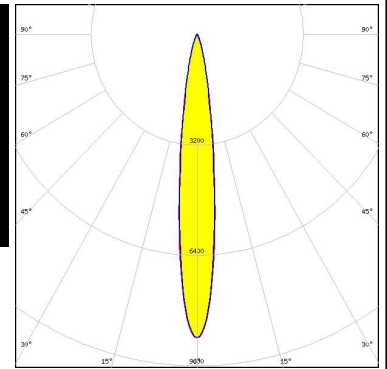
#### LUMILEDS

LED LUXEON T  
 FWHM / FWTM 15.0° / 33.0°  
 Efficiency 87 %  
 Peak intensity 7.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



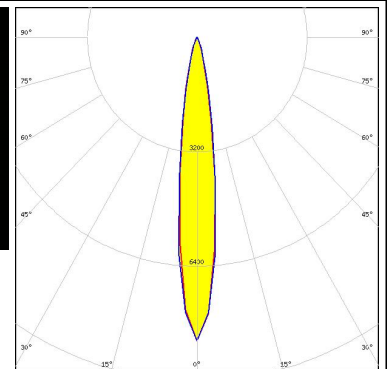
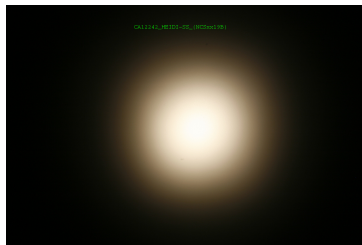
#### NICHIA

LED NCSxx19A  
 FWHM / FWTM 14.0° / 31.0°  
 Efficiency 95 %  
 Peak intensity 8.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:


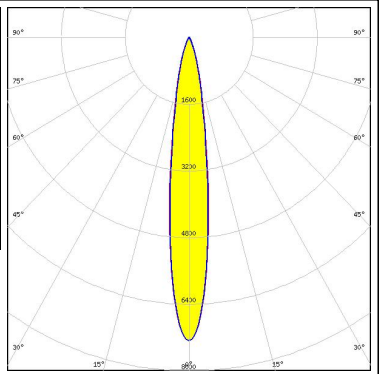

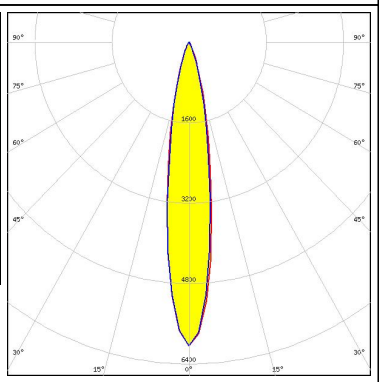

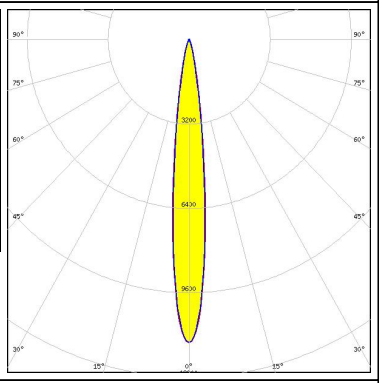

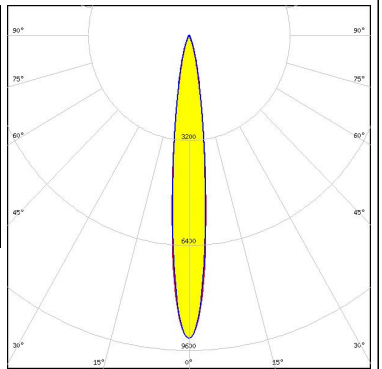


#### NICHIA

LED NCSxx19B  
 FWHM / FWTM 15.0° / 32.0°  
 Efficiency 86 %  
 Peak intensity 8.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



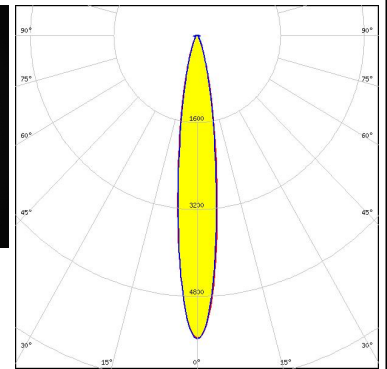
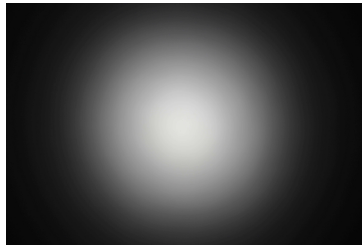
### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSxx19A            FWHM / FWTM 15.0° / 34.0°            Efficiency 95 %            Peak intensity 7.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 18.0° / 38.0°            Efficiency 87 %            Peak intensity 6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON SSL 150            FWHM / FWTM 13.0° / 26.0°            Efficiency 96 %            Peak intensity 11.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON SSL 80            FWHM / FWTM 13.0° / 30.0°            Efficiency 95 %            Peak intensity 9.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

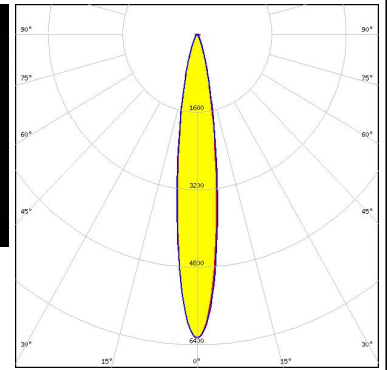
### SAMSUNG

LED LH181A  
 FWHM / FWTM 15.0° / 36.0°  
 Efficiency 88 %  
 Peak intensity 5.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



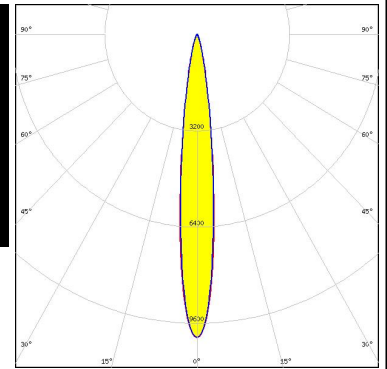
### SAMSUNG

LED LH181B  
 FWHM / FWTM 15.0° / 36.0°  
 Efficiency 93 %  
 Peak intensity 6.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



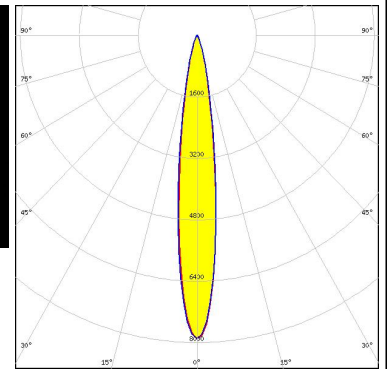
SEOUL SEMICONDUCTOR

LED Z5  
 FWHM / FWTM 13.0° / 28.0°  
 Efficiency 95 %  
 Peak intensity 10.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

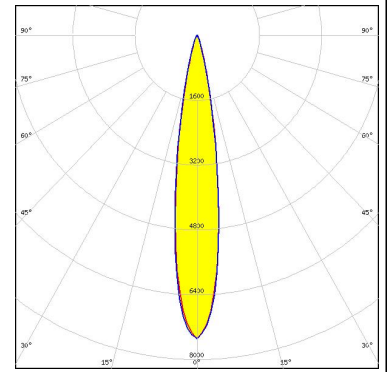
LED Z5M1/Z5M2  
 FWHM / FWTM 14.0° / 32.0°  
 Efficiency 91 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



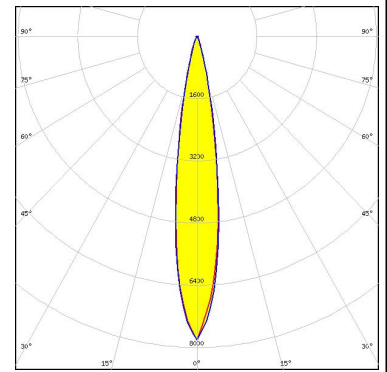
#### OPTICAL RESULTS (SIMULATED):



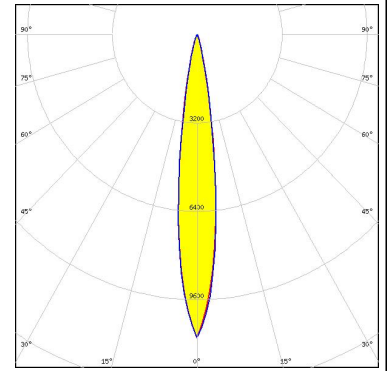
LED XP-G2 HE  
 FWHM / FWTM 16.0° / 32.0°  
 Efficiency 94 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



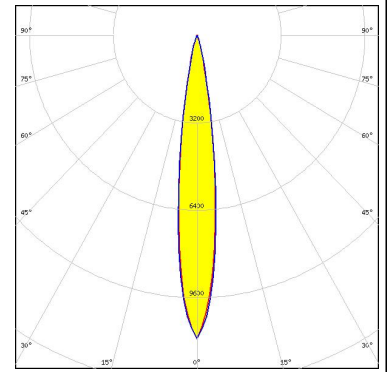
LED XP-G3  
 FWHM / FWTM 17.0° / 32.0°  
 Efficiency 94 %  
 Peak intensity 7.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON 3030 HE Plus  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 95 %  
 Peak intensity 11 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



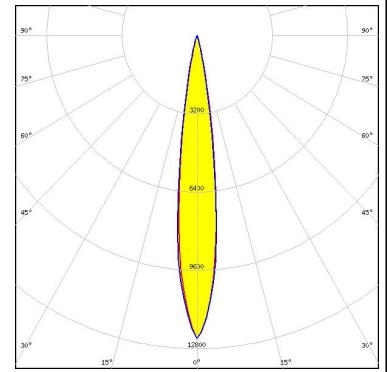
LED LUXEON HL2Z  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 96 %  
 Peak intensity 11.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

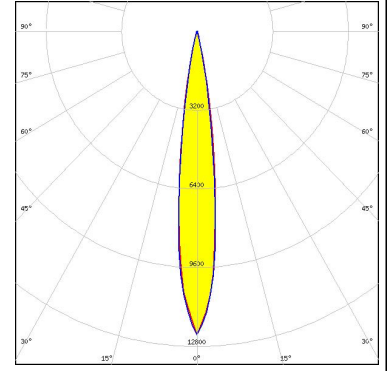
#### LUMILEDS

LED LUXEON SunPlus 20 Line (120 deg)  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 96 %  
 Peak intensity 12.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



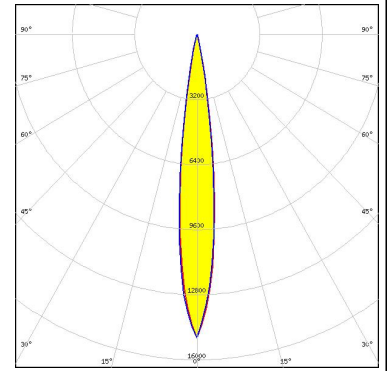
#### LUMILEDS

LED LUXEON SunPlus 20 Line (150 deg)  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 92 %  
 Peak intensity 12.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



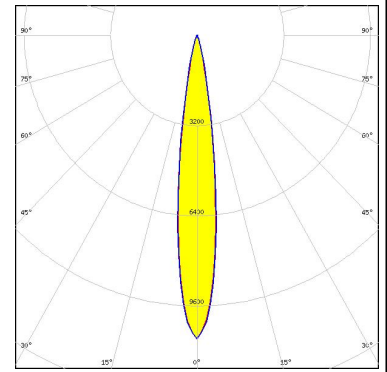
#### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 13.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 14.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### NICHIA

LED NVSxE21A  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 95 %  
 Peak intensity 10.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

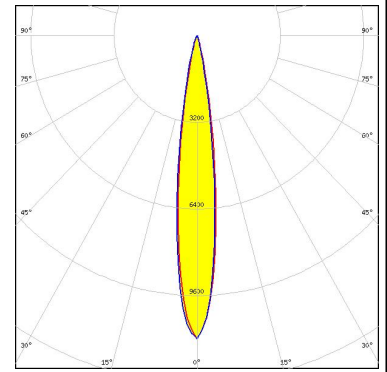




### OPTICAL RESULTS (SIMULATED):

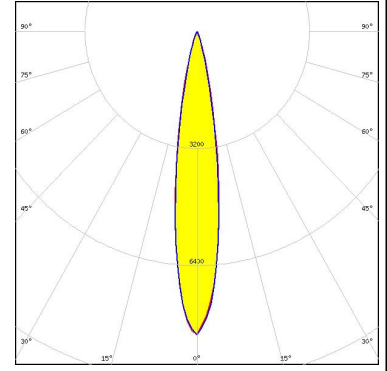
#### OSRAM Opto Semiconductors

LED OSCONIQ S 3030 (QSLR31)  
 FWHM / FWTM 15.0° / 28.0°  
 Efficiency 95 %  
 Peak intensity 11.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



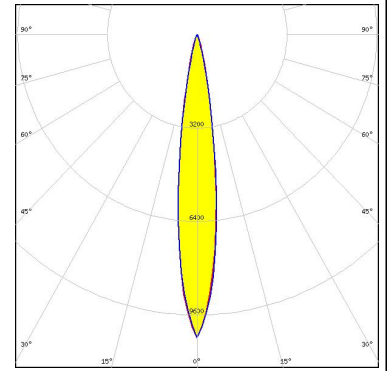
#### OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 17.0° / 33.0°  
 Efficiency 94 %  
 Peak intensity 8.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



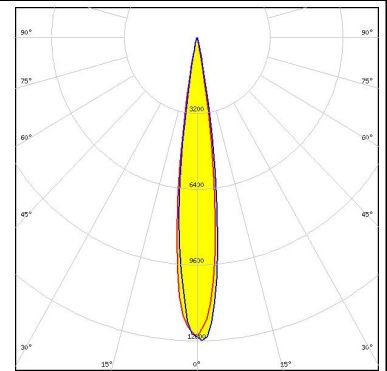
#### OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 15.0° / 29.0°  
 Efficiency 95 %  
 Peak intensity 10.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM Opto Semiconductors

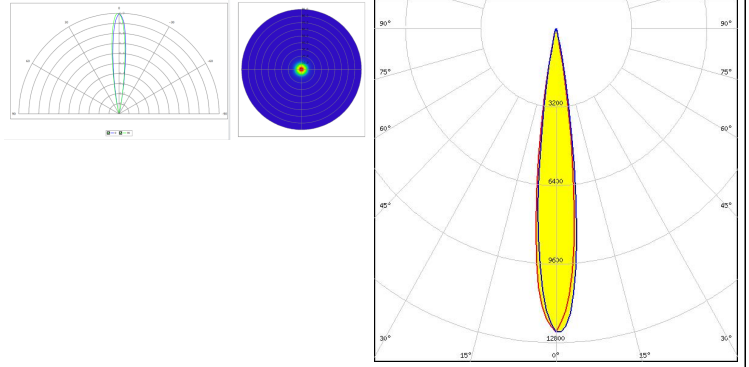
LED SFH 4170S  
 FWHM / FWTM 15.0° / 23.0°  
 Efficiency 88 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED SFH 4170S  
FWHM / FWTM 14.0° / 24.0°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour IR  
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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#### Local sales and technical support

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