

## HEIDI-D

~10° diffused spot beam optimized for LUXEON Rebel ES

### SPECIFICATION:

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

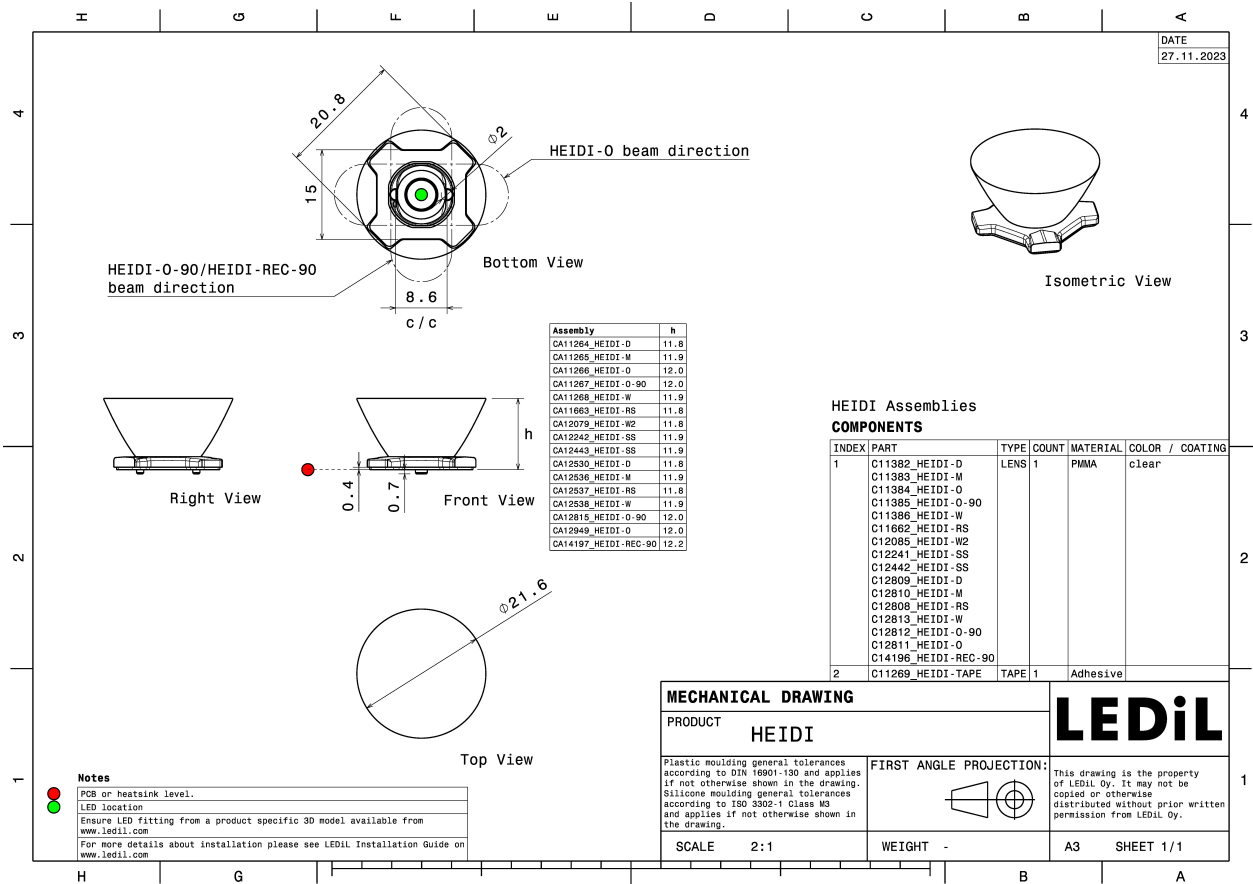


### MATERIALS:

Component	Type	Material	Colour	Finish	Length
HEIDI-D	Single lens	PMMA	clear		21.6
HEIDI-TAPE	Tape	Acrylic foam	black		

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12530_HEIDI-D	Single lens	3264	204	204	10.3
» Box size: 480 x 280 x 300 mm					

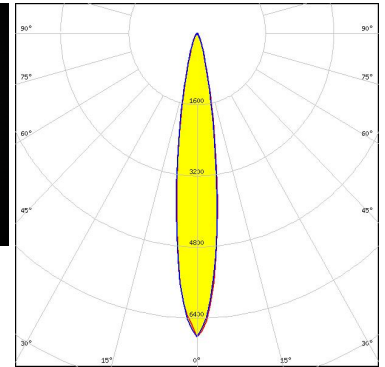


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



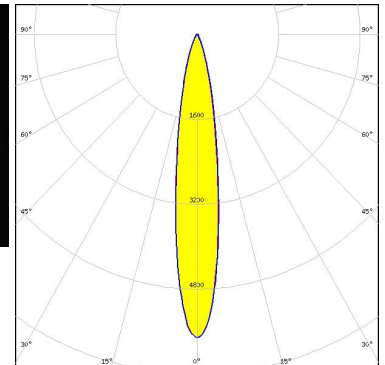
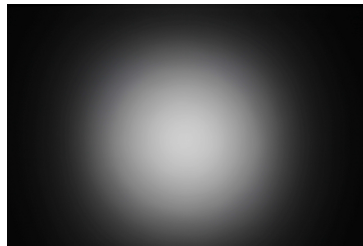
**LED** XHP35 HD  
**FWHM / FWTM** 20.0° / 46.0°  
**Efficiency** 83 %  
**Peak intensity** 4.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



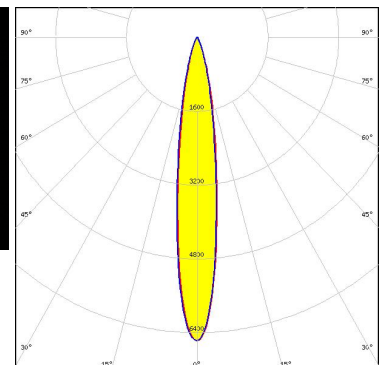
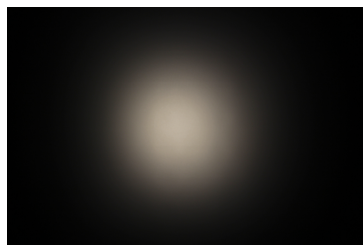
**LED** XHP35 HI  
**FWHM / FWTM** 17.0° / 38.0°  
**Efficiency** 94 %  
**Peak intensity** 5.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** XP-G2  
**FWHM / FWTM** 15.0° / 36.0°  
**Efficiency** 94 %  
**Peak intensity** 6.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

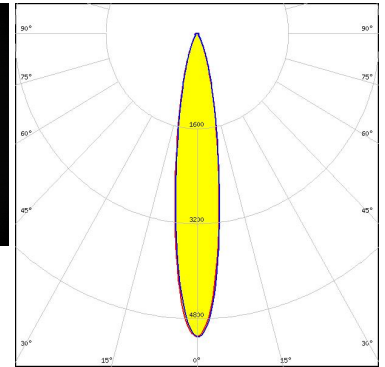
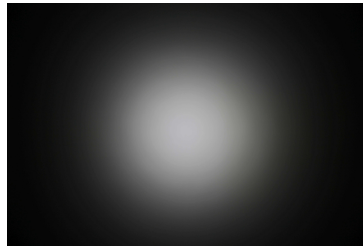


Light distribution files

### OPTICAL RESULTS (MEASURED):



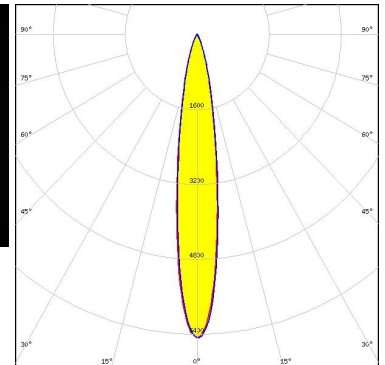
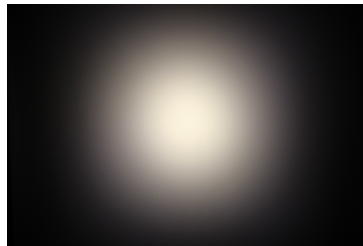
**LED** XP-G3  
**FWHM / FWTM** 17.0° / 40.0°  
**Efficiency** 94 %  
**Peak intensity** 5.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



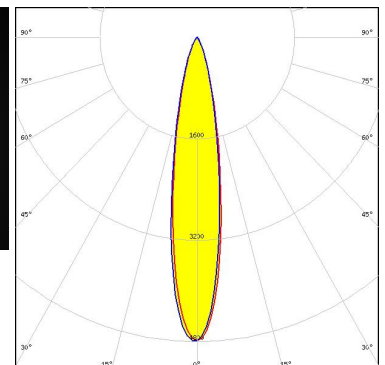
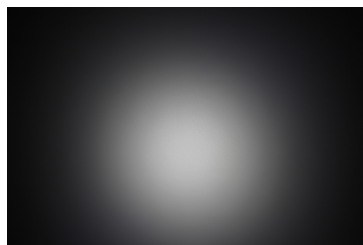
**LED** XP-G4  
**FWHM / FWTM** 16.0° / 37.0°  
**Efficiency** 94 %  
**Peak intensity** 6.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** XP-L HD  
**FWHM / FWTM** 18.0° / 41.0°  
**Efficiency** 85 %  
**Peak intensity** 4.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

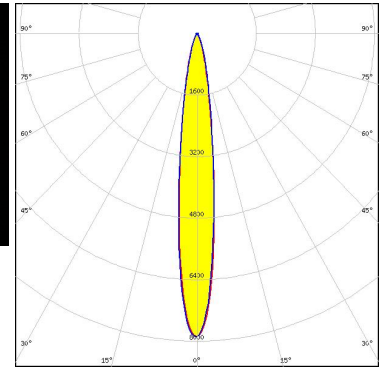


Light distribution files

### OPTICAL RESULTS (MEASURED):



LED XT-E  
FWHM / FWTM 14.0° / 32.0°  
Efficiency 94 %  
Peak intensity 7.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



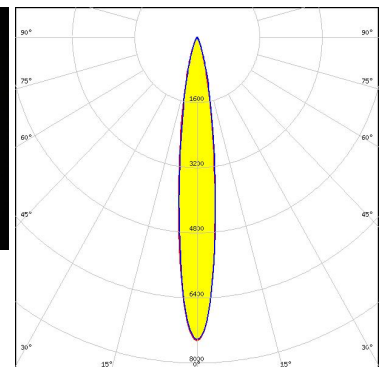
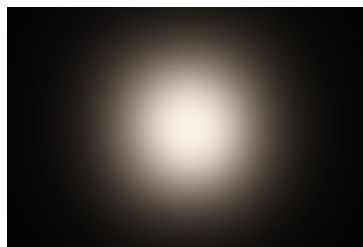
LED LUXEON A  
FWHM / FWTM 12.0° / 26.0°  
Efficiency 86 %  
Peak intensity 10 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON Rebel  
FWHM / FWTM 14.0° / 34.0°  
Efficiency 86 %  
Peak intensity 7.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

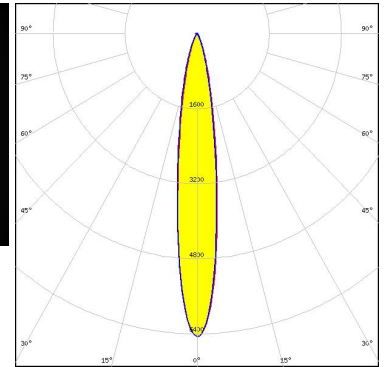


Light distribution files

### OPTICAL RESULTS (MEASURED):



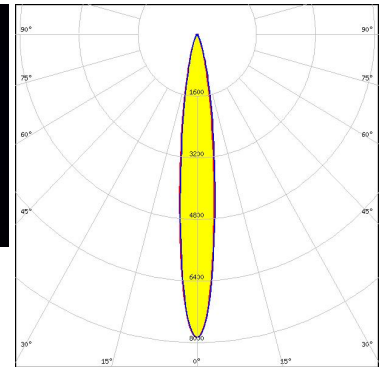
LED LUXEON Rebel ES  
 FWHM / FWTM 15.0° / 36.0°  
 Efficiency 91 %  
 Peak intensity 6.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



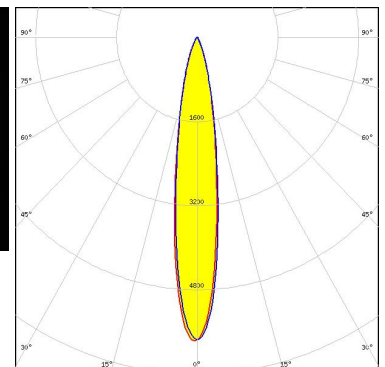
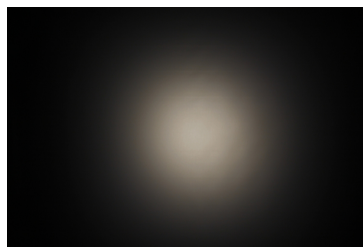
LED SST-10-B130  
 FWHM / FWTM 14.0° / 32.0°  
 Efficiency 93 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type Blue  
 Required components:



Light distribution files



LED NVSW219D  
 FWHM / FWTM 16.0° / 39.0°  
 Efficiency 94 %  
 Peak intensity 5.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

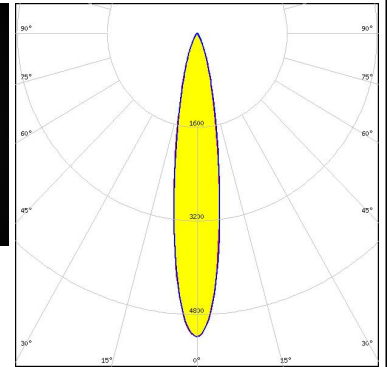


Light distribution files

### OPTICAL RESULTS (MEASURED):



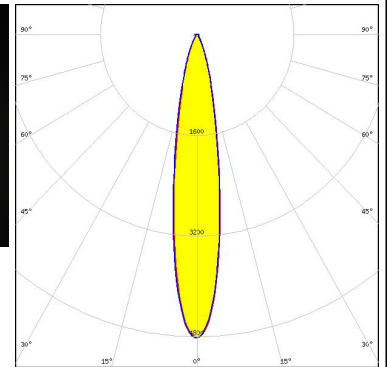
**LED** NVSW319B  
**FWHM / FWTM** 18.0° / 41.0°  
**Efficiency** 93 %  
**Peak intensity** 5.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



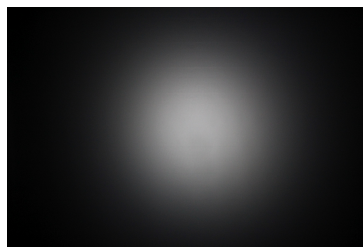
**LED** NVSW3x9A  
**FWHM / FWTM** 18.0° / 41.0°  
**Efficiency** 90 %  
**Peak intensity** 4.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** NVSW519A  
**FWHM / FWTM** 20.0° / 45.0°  
**Efficiency** 94 %  
**Peak intensity** 4.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

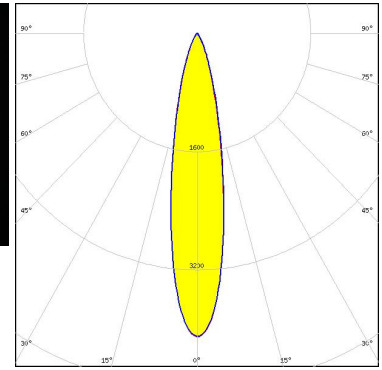


Light distribution files

### OPTICAL RESULTS (MEASURED):



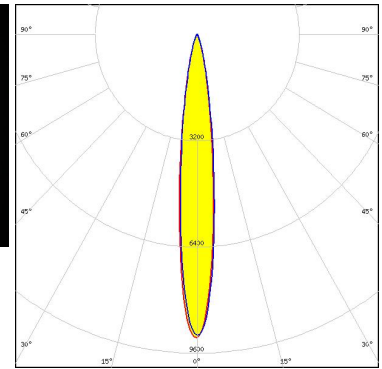
LED NWSx229A  
 FWHM / FWTM 20.0° / 45.0°  
 Efficiency 84 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



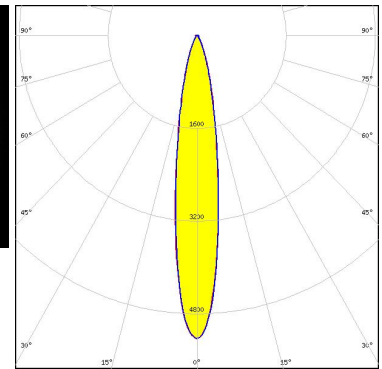
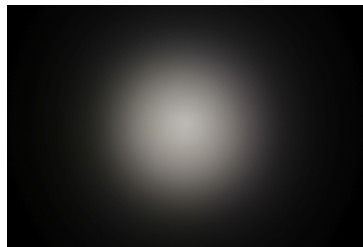
LED OSLON SSL 150  
 FWHM / FWTM 13.0° / 30.0°  
 Efficiency 87 %  
 Peak intensity 9.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files




LED Z5M3  
 FWHM / FWTM 17.0° / 40.0°  
 Efficiency 94 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

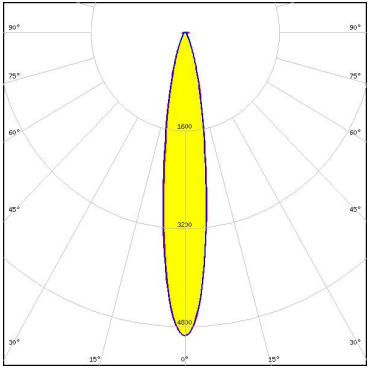



Light distribution files



### OPTICAL RESULTS (MEASURED):

 SEOL SEMICONDUCTOR		
LED	Z8Y22P	
FWHM / FWTM	17.0° / 39.0°	
Efficiency	92 %	
Peak intensity	5 cd/lm	
LEDs/each optic	1	
Light colour/type	White	
Required components:		

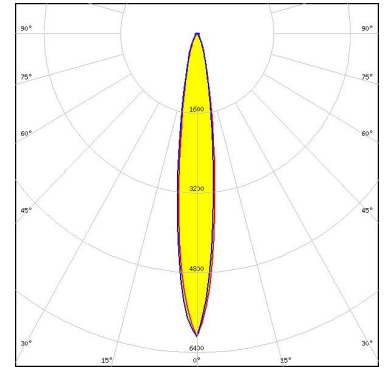


Light distribution files

### OPTICAL RESULTS (SIMULATED):



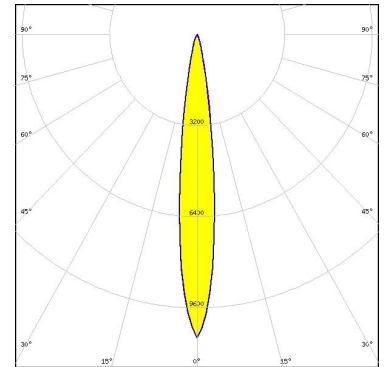
LED XHP35.2 HI  
FWHM / FWTM 14.0° / 35.0°  
Efficiency 88 %  
Peak intensity 6.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



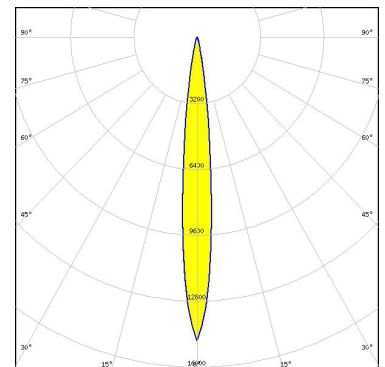
LED XP-G2 HE  
FWHM / FWTM 14.0° / 28.0°  
Efficiency 95 %  
Peak intensity 10.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON HL2Z  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 95 %  
Peak intensity 14.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### OPTICAL RESULTS (SIMULATED):

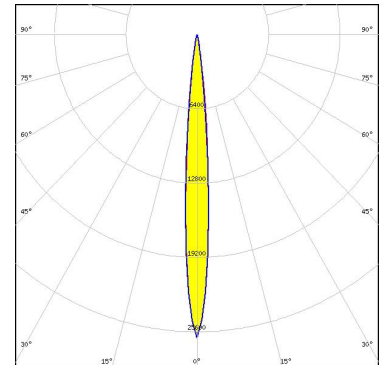


LED LUXEON R  
FWHM / FWTM 12.0° / 26.0°  
Efficiency %  
LEDs/each optic 1  
Light colour/type White  
Required components:

[Light distribution files](#)



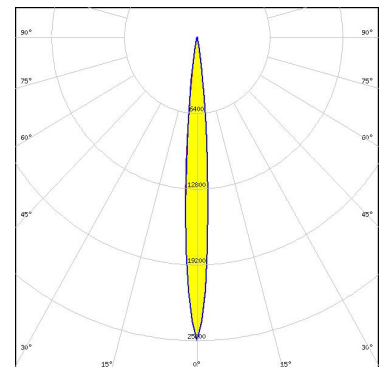
LED LUXEON SunPlus 20 Line (120 deg)  
FWHM / FWTM 9.0° / 18.0°  
Efficiency 96 %  
Peak intensity 26.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



[Light distribution files](#)



LED LUXEON SunPlus 20 Line (150 deg)  
FWHM / FWTM 8.7° / 18.0°  
Efficiency 93 %  
Peak intensity 25.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

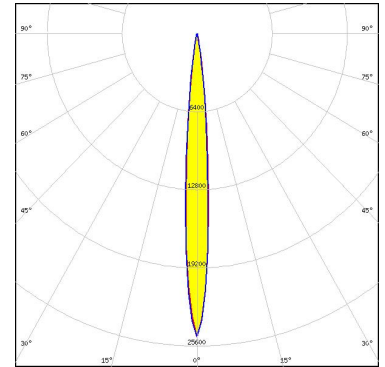


[Light distribution files](#)

### OPTICAL RESULTS (SIMULATED):



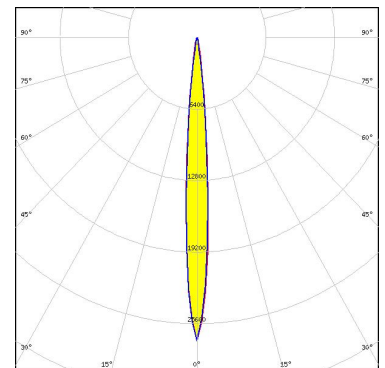
LED	LUXEON SunPlus 20 Line (150 deg)
FWHM / FWTM	8.0° / 18.0°
Efficiency	92 %
Peak intensity	24.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



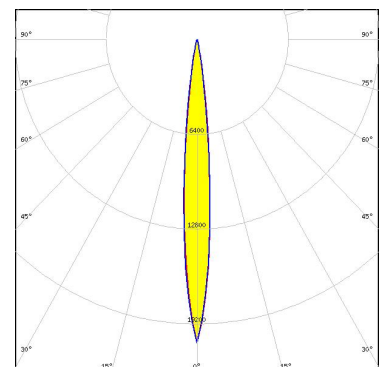
LED	LUXEON SunPlus 35 Line
FWHM / FWTM	8.5° / 18.0°
Efficiency	94 %
Peak intensity	27.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	LUXEON Z ES
FWHM / FWTM	10.0° / 21.0°
Efficiency	94 %
Peak intensity	20.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

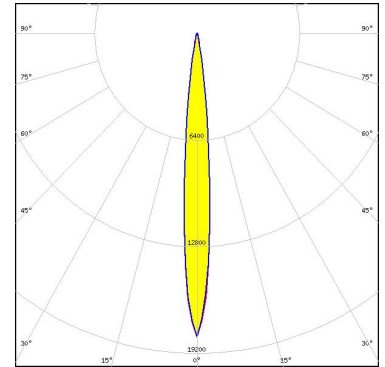


Light distribution files

### OPTICAL RESULTS (SIMULATED):



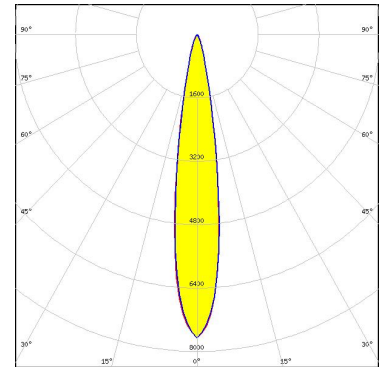
LED NCSxE17A  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 92 %  
 Peak intensity 18.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



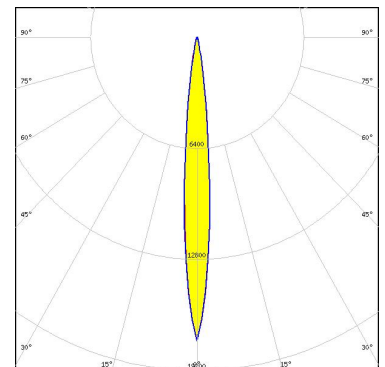
LED NV4WB35AM  
 FWHM / FWTM 16.0° / 32.0°  
 Efficiency 96 %  
 Peak intensity 7.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSxE21A  
 FWHM / FWTM 10.0° / 22.0°  
 Efficiency 94 %  
 Peak intensity 17.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

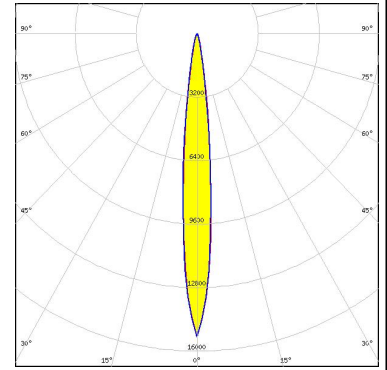


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

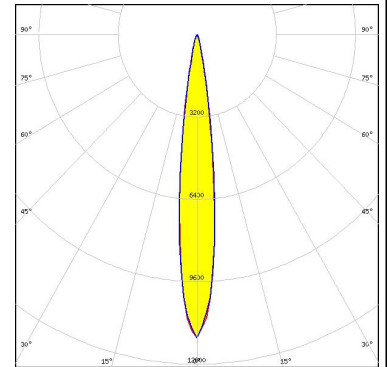
LED OSCONIQ P 3737 Flat  
FWHM / FWTM 11.0° / 23.0°  
Efficiency 97 %  
Peak intensity 15.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED LH351C  
FWHM / FWTM 14.0° / 26.0°  
Efficiency 96 %  
Peak intensity 11.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### 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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where\\_to\\_buy](http://www.ledil.com/where_to_buy)

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#### Distribution Partners

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