

HEIDI-O-90

~13° x 45° oval beam optimized for Cree XP-G and XP-E. Variant with beam direction rotated 90°.

SPECIFICATION:

Dimensions	Ø 21.6 mm
Height	12.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

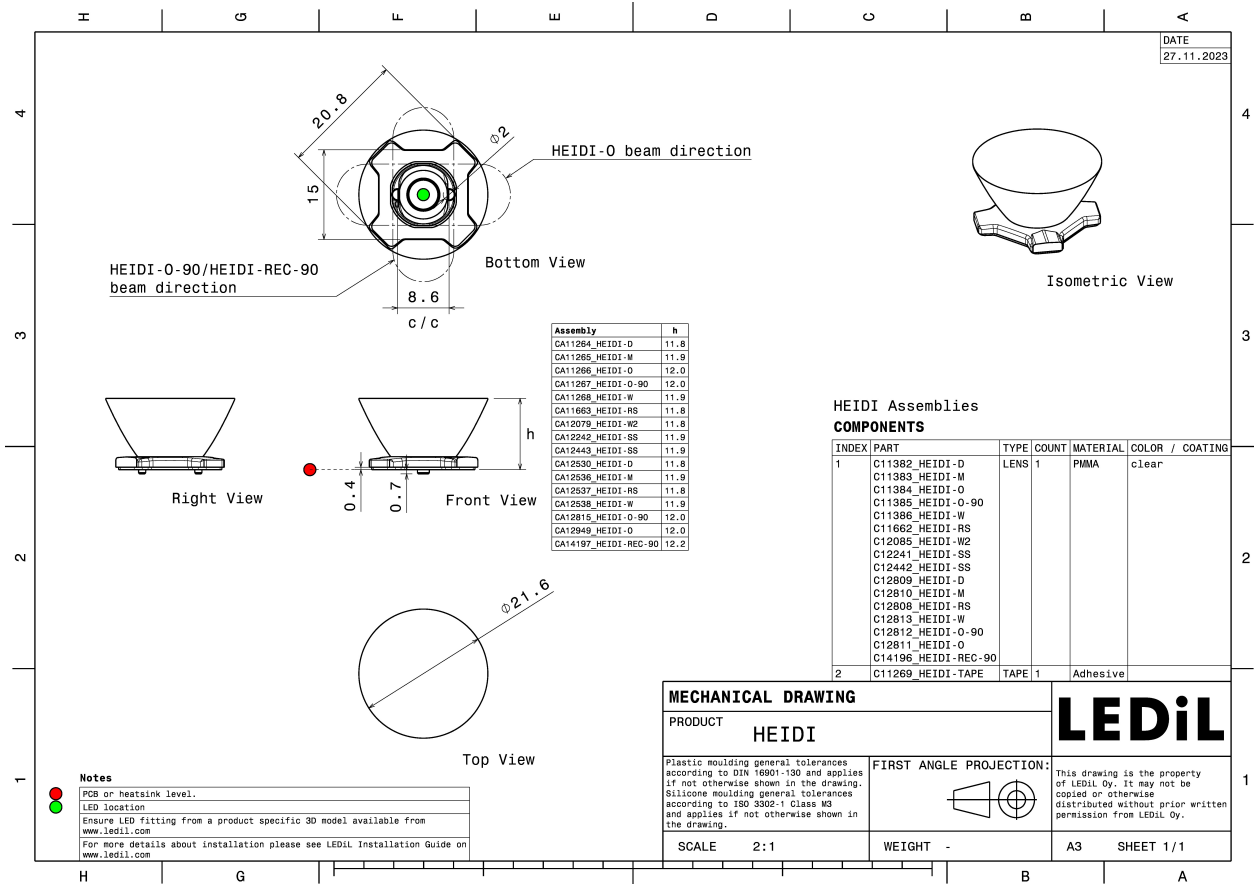


MATERIALS:

Component	Type	Material	Colour	Finish
HEIDI-O-90	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11267_HEIDI-O-90	Single lens	3264	204	204	10.4
» Box size: 480 x 280 x 300 mm					

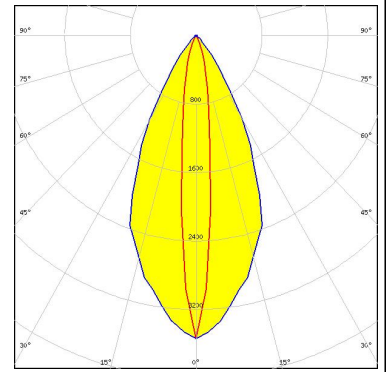


See also our general installation guide: www.ledil.com/installation_guide

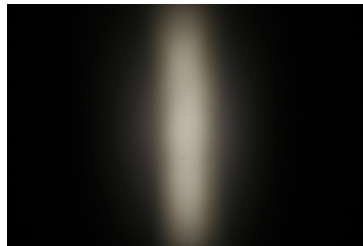
OPTICAL RESULTS (MEASURED):



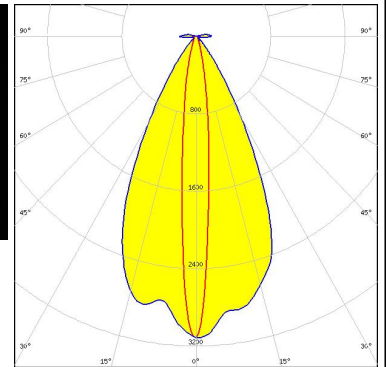
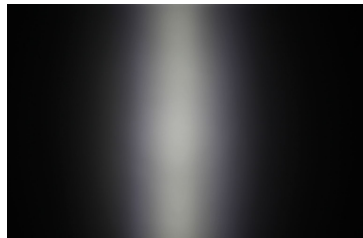
LED XB-D
 FWHM / FWTM 12.0 + 49.0° / 34.0 + 78.0°
 Efficiency 87 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



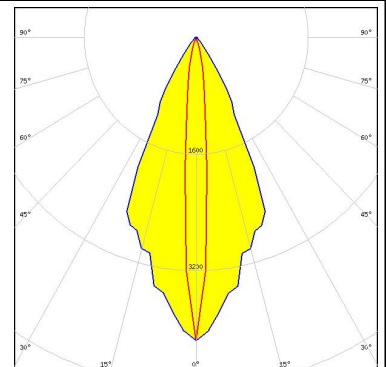
LED XB-H
 FWHM / FWTM 11.0 + 52.0° / 34.0 + 80.0°
 Efficiency 80 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XD16
 FWHM / FWTM 11.0 + 52.0° / 30.0 + 76.0°
 Efficiency 88 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



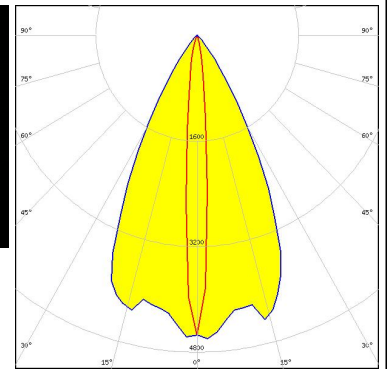
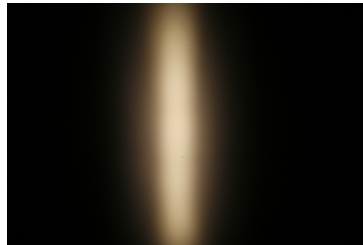
LED XP-E
 FWHM / FWTM 9.0 + 50.0° / 25.0 + 72.0°
 Efficiency 87 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



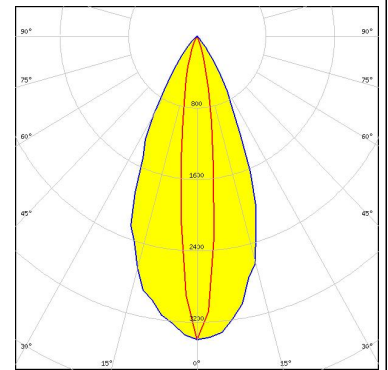
OPTICAL RESULTS (MEASURED):



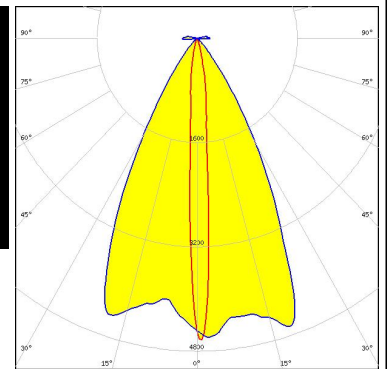
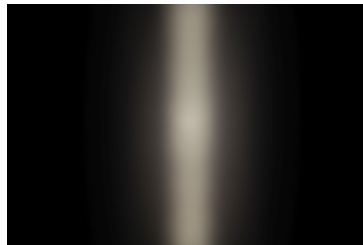
LED XP-E2
FWHM / FWTM 9.0 + 55.0° / 23.0 + 76.0°
Efficiency 84 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



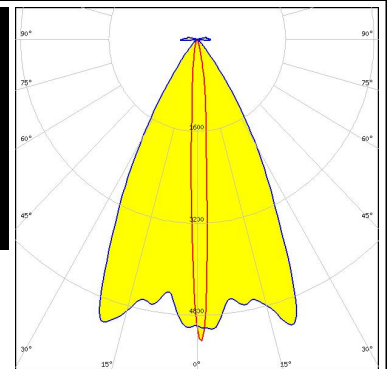
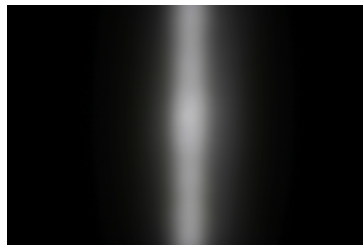
LED XP-G
FWHM / FWTM 14.0 + 44.0° / 32.0 + 70.0°
Efficiency 87 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XQ-E HD
FWHM / FWTM 7.0 + 56.0° / 23.0 + 77.0°
Efficiency 94 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



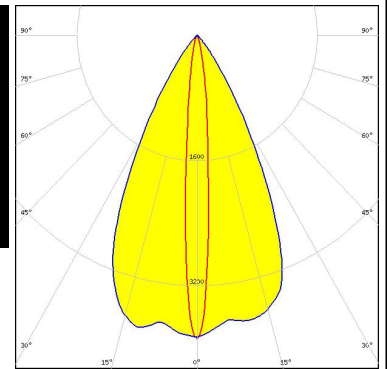
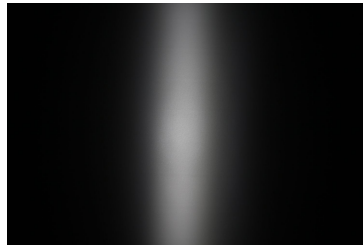
LED XQ-E HI
FWHM / FWTM 6.0 + 57.0° / 20.0 + 76.0°
Efficiency 94 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



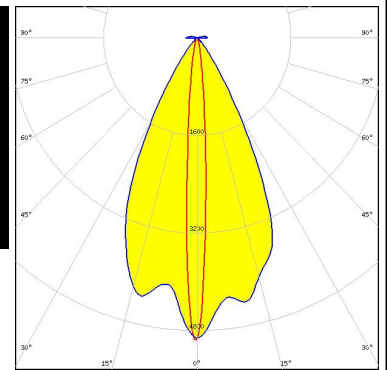
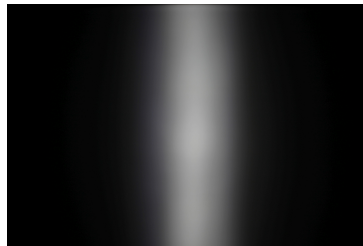
OPTICAL RESULTS (MEASURED):



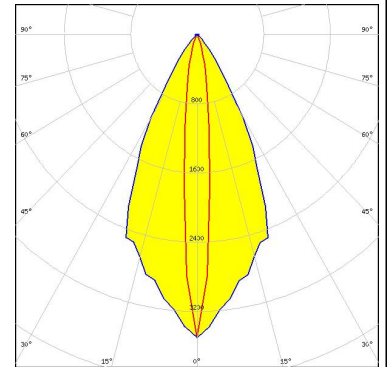
LED LUXEON C
FWHM / FWTM 9.0 + 54.0° / 23.0 + 76.0°
Efficiency 79 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



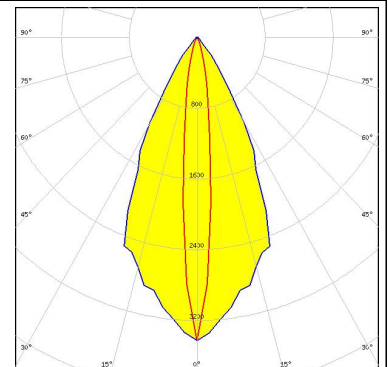
LED LUXEON CZ
FWHM / FWTM 8.0 + 52.0° / 19.0 + 73.0°
Efficiency 92 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NCSxx19A
FWHM / FWTM 10.0 + 50.0° / 30.0 + 75.0°
Efficiency 82 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



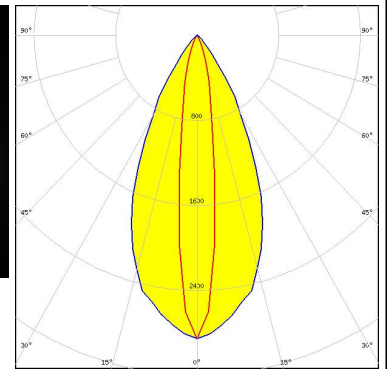
LED NVSxx19A
FWHM / FWTM 10.0 + 49.0° / 31.0 + 76.0°
Efficiency 82 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



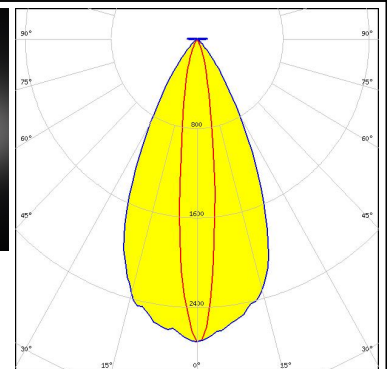
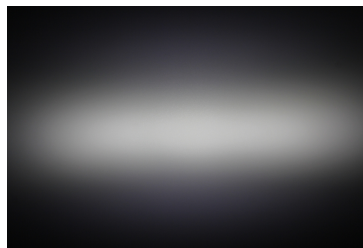
OPTICAL RESULTS (MEASURED):



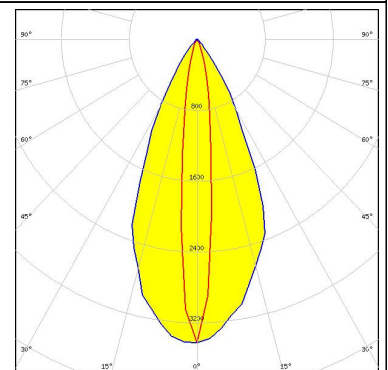
LED NVSxx19B/NVSxx19C
FWHM / FWTM 14.0 + 48.0° / 38.0 + 78.0°
Efficiency 85 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



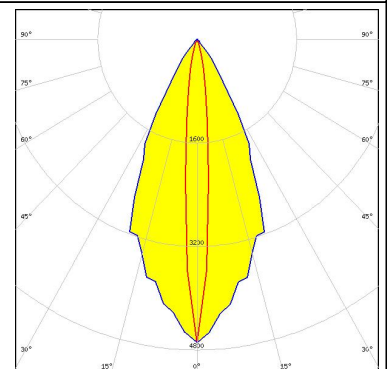
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 15.0 + 51.0° / 35.0 + 78.0°
Efficiency 78 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSLON Square EC
FWHM / FWTM 12.0 + 48.0° / 34.0 + 74.0°
Efficiency 86 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSLON SSL 150
FWHM / FWTM 9.0 + 48.0° / 25.0 + 72.0°
Efficiency 86 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

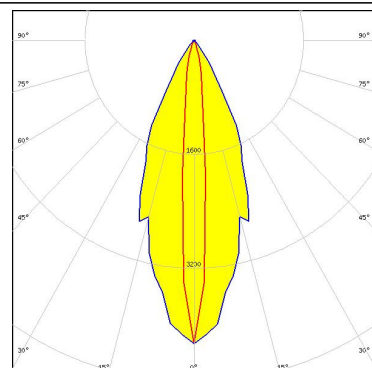


OPTICAL RESULTS (MEASURED):

OSRAM

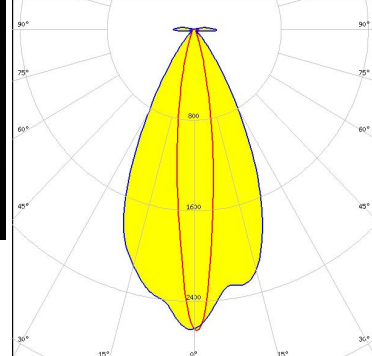
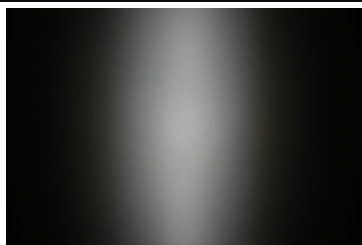
Opto Semiconductors

LED OSLOM SSL 80
FWHM / FWTM 9.0 + 42.0° / 27.0 + 70.0°
Efficiency 83 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



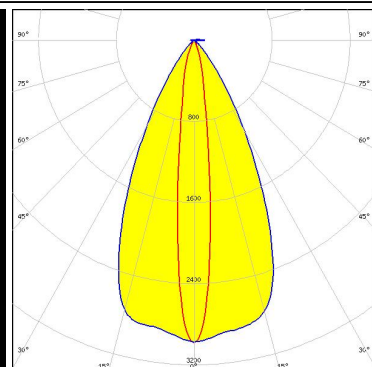
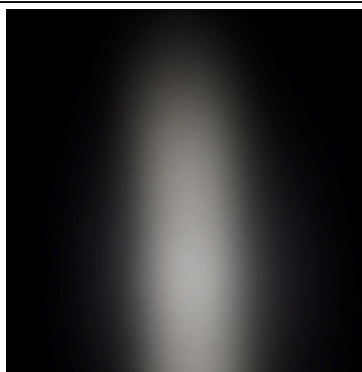
SAMSUNG

LED LH181B
FWHM / FWTM 14.0 + 51.0° / 35.0 + 77.0°
Efficiency 89 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



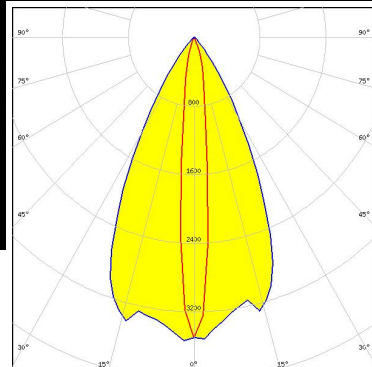
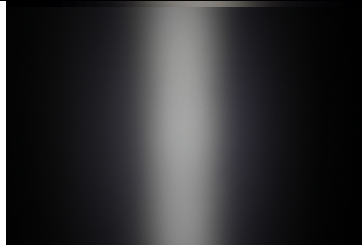
SAMSUNG

LED LH351B
FWHM / FWTM 13.0 + 52.0° / 34.0 + 78.0°
Efficiency 83 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

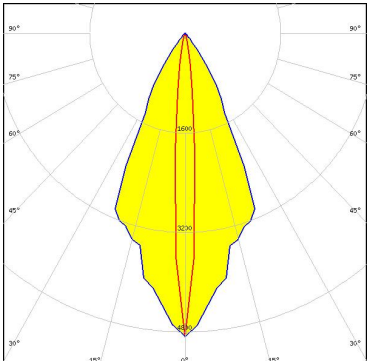
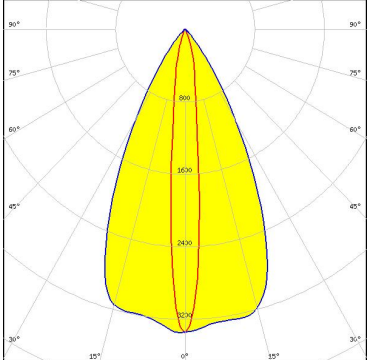
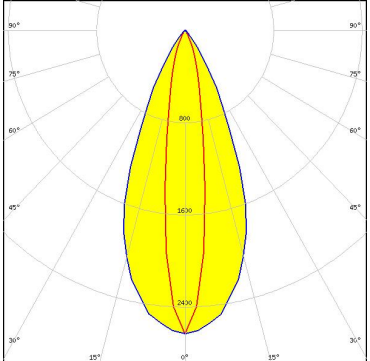


SAMSUNG

LED LH351Z
FWHM / FWTM 11.0 + 54.0° / 31.0 + 78.0°
Efficiency 82 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



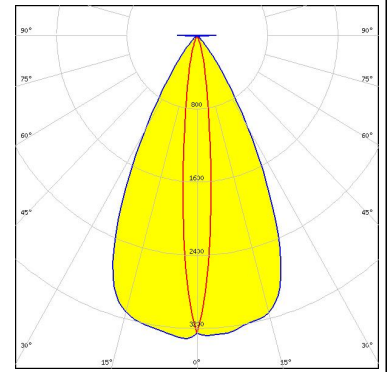
OPTICAL RESULTS (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5</p> <p>FWHM / FWTM 8.0 + 50.0° / 21.0 + 72.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 11.0 + 53.0° / 31.0 + 77.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SHARP</p> <p>LED Double Dome (GM2BB)</p> <p>FWHM / FWTM 16.0 + 44.0° / 40.0 + 70.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 2.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

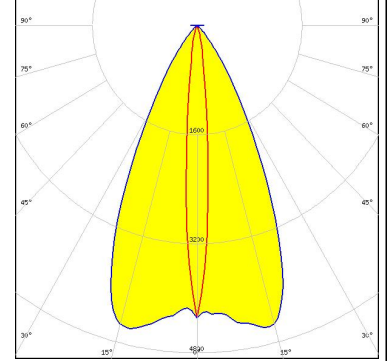
LUMILEDS

LED LUXEON HL2Z
 FWHM / FWTM 12.0 + 54.0° / 28.0 + 76.0°
 Efficiency 88 %
 Peak intensity 3.3 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



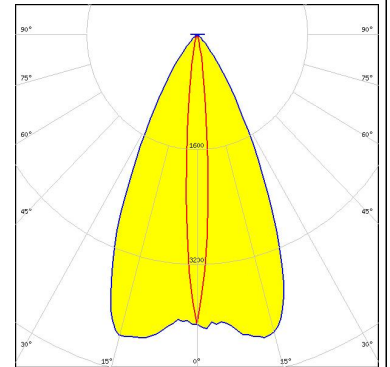
LUMILEDS

LED LUXEON SunPlus 20 Line (120 deg)
 FWHM / FWTM 9.0 + 52.0° / 22.0 + 76.0°
 Efficiency 91 %
 Peak intensity 4.6 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



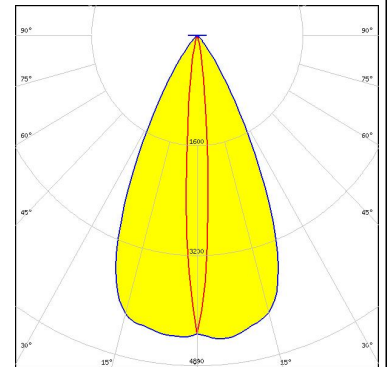
LUMILEDS

LED LUXEON SunPlus 20 Line (150 deg)
 FWHM / FWTM 9.0 + 52.0° / 20.0 + 76.0°
 Efficiency 87 %
 Peak intensity 4.3 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

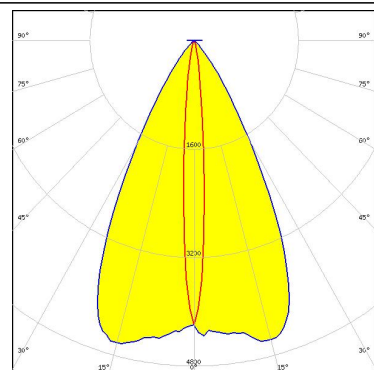
LED LUXEON Z ES
 FWHM / FWTM 8.7 + 52.0° / 21.0 + 74.0°
 Efficiency 92 %
 Peak intensity 4.4 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

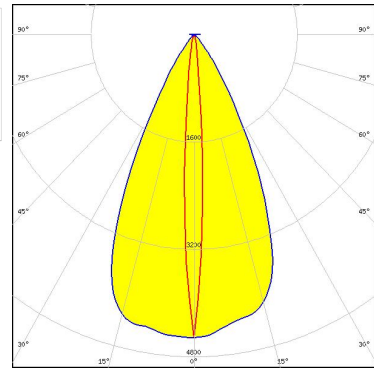
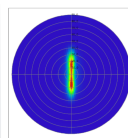
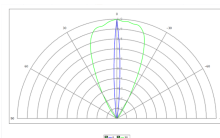
OSRAM Opto Semiconductors

LED OSCONIQ P 3030
FWHM / FWTM 7.9 + 55.0° / 20.0 + 77.0°
Efficiency 93 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

LED SFH 4170S
FWHM / FWTM 7.0 + 51.0° / 17.0 + 70.0°
Efficiency 83 %
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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LEDiL Oy

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