

LISA3-O-PIN

~15° x 50° oval beam with location pin installation

SPECIFICATION:

Dimensions	Ø 10.0 mm
Height	7.9 mm
Fastening	glue
ROHS compliant	yes ⓘ

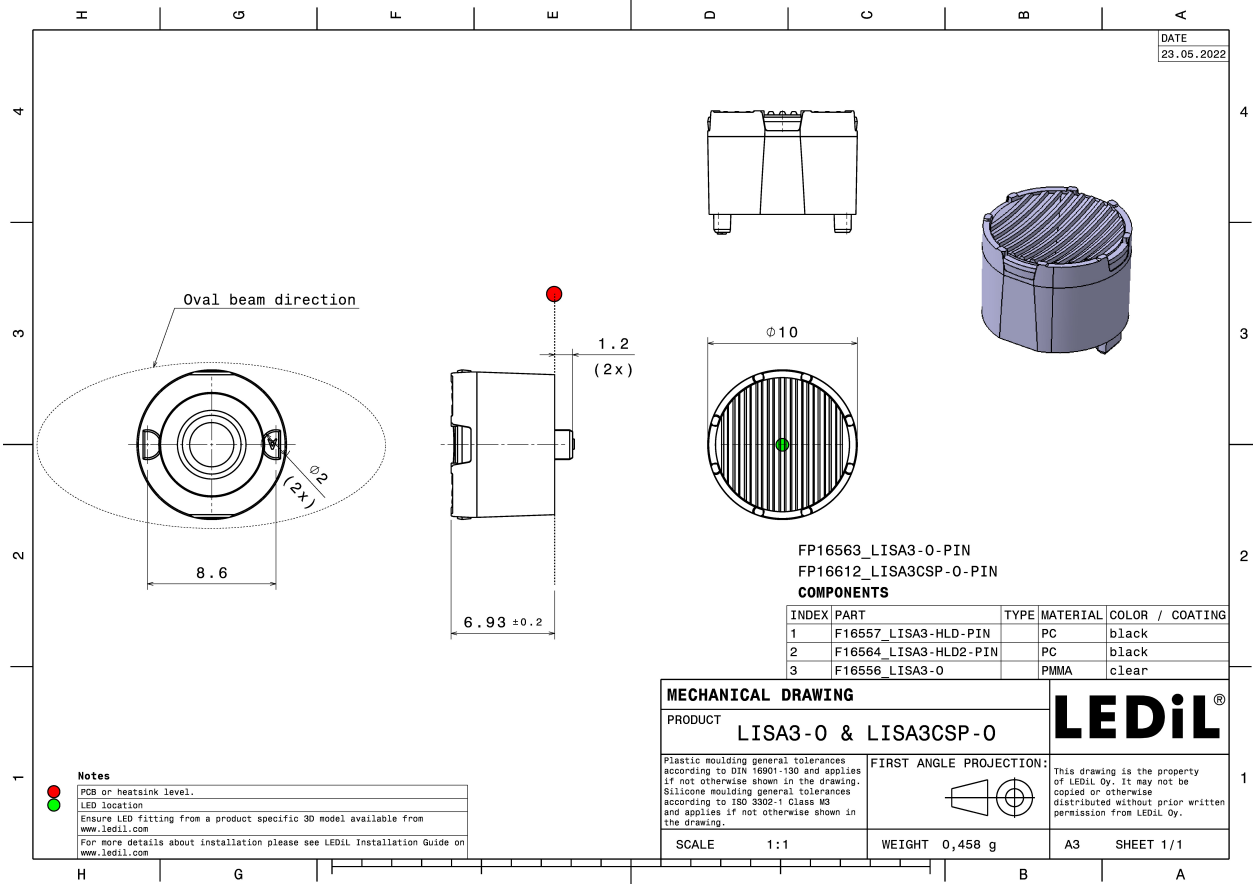


MATERIALS:

Component	Type	Material	Colour	Finish
LISA3-O	Single lens	PMMA	clear	
LISA3-HLD-PIN	Holder	PC	black	

ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FP16563_LISA3-O-PIN	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					

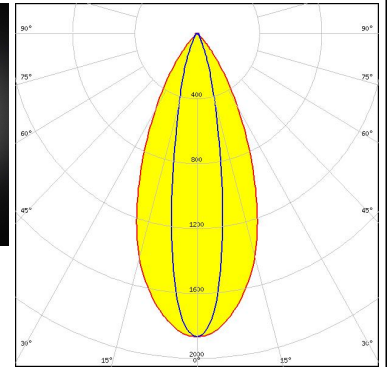
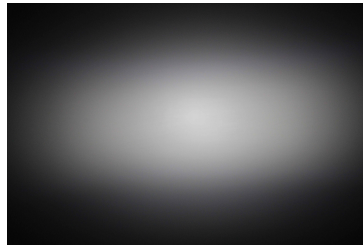


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

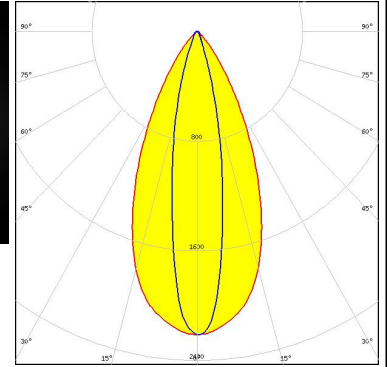
CREE LED

LED XD16
 FWHM / FWTM 45.0 + 20.0° / 78.0 + 43.0°
 Efficiency 65 %
 Peak intensity 1.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



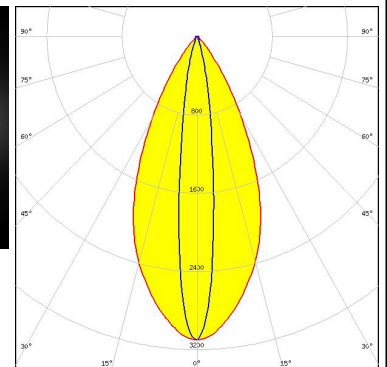
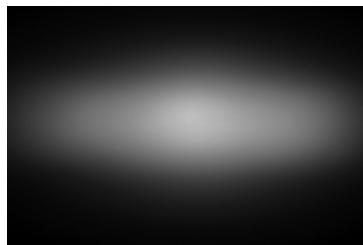
CREE LED

LED XP-E2
 FWHM / FWTM 48.0 + 20.0° / 79.0 + 41.0°
 Efficiency 78 %
 Peak intensity 2.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



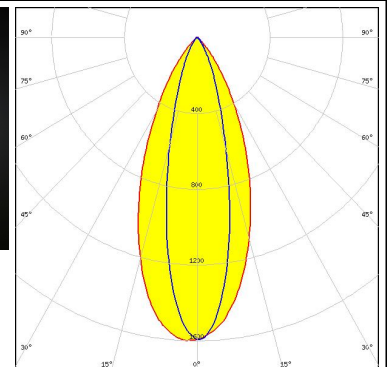
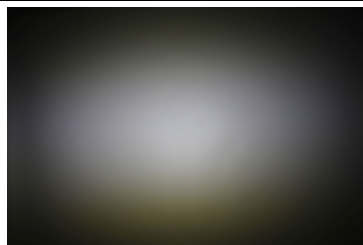
LUMILEDS

LED LUXEON CZ
 FWHM / FWTM 49.0 + 14.0° / 76.0 + 31.0°
 Efficiency 76 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:

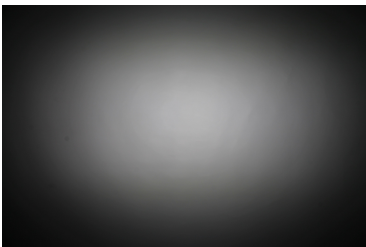
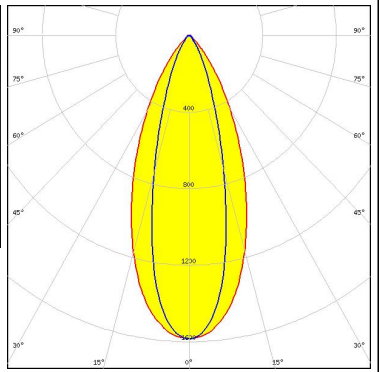
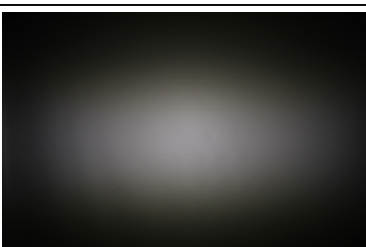
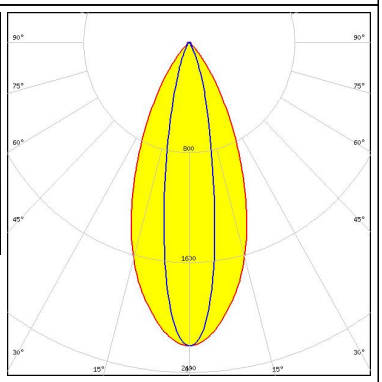
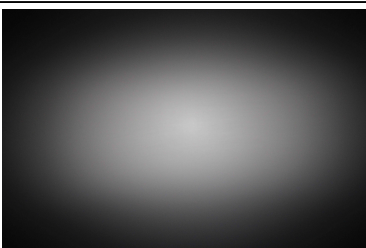
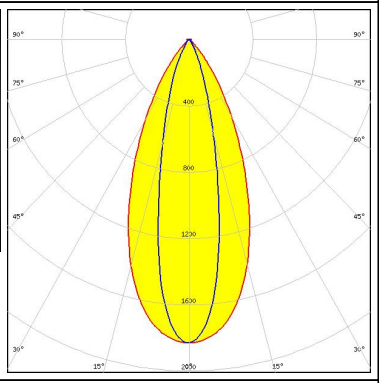
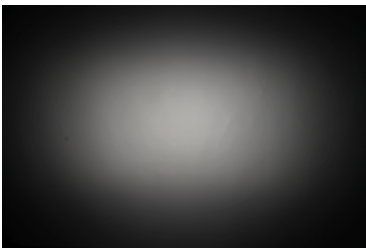
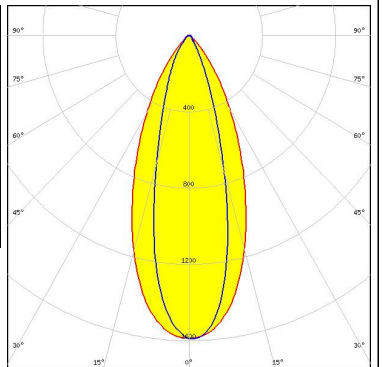


NICHIA

LED NF2x757G
 FWHM / FWTM 33.0° / 64.0°
 Efficiency 66 %
 Peak intensity 1.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NVSW219F</p> <p>FWHM / FWTM 45.0 + 29.0° / 81.0 + 58.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ C 2424</p> <p>FWHM / FWTM 44.0 + 20.0° / 77.0 + 43.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 2.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 46.0 + 24.0° / 80.0 + 50.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SAMSUNG</p> <p>LED LH351C</p> <p>FWHM / FWTM 45.0 + 28.0° / 81.0 + 59.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

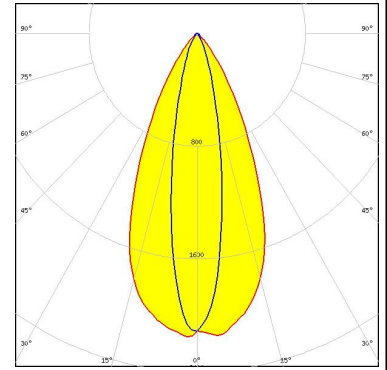
OPTICAL RESULTS (MEASURED):



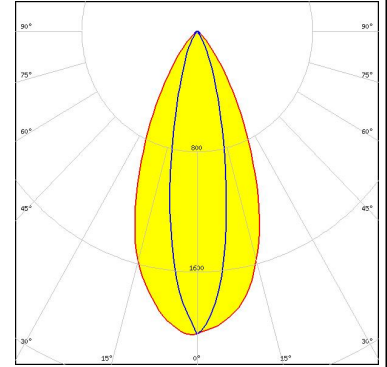
OPTICAL RESULTS (SIMULATED):



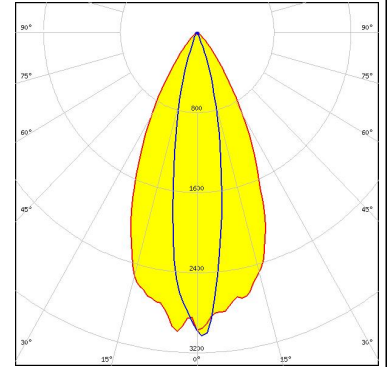
LED J Series 2835
 FWHM / FWTM 48.0 + 20.0° / 78.0 + 44.0°
 Efficiency 82 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



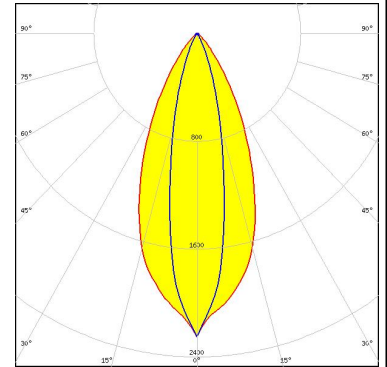
LED J Series 2835
 FWHM / FWTM 46.0 + 22.0° / 78.0 + 48.0°
 Efficiency 81 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-E
 FWHM / FWTM 17.0 + 48.0° / 36.0 + 74.0°
 Efficiency 85 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



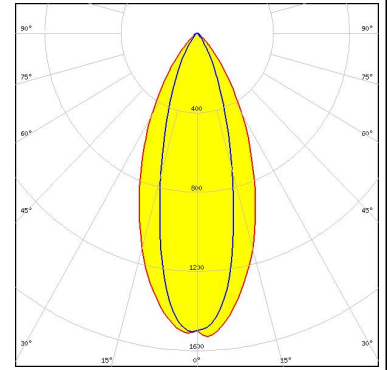
LED XP-G2
 FWHM / FWTM 46.0 + 22.0° / 78.0 + 46.0°
 Efficiency 83 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



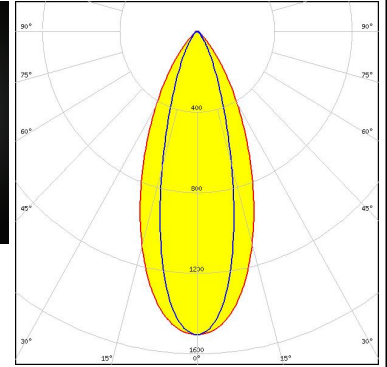
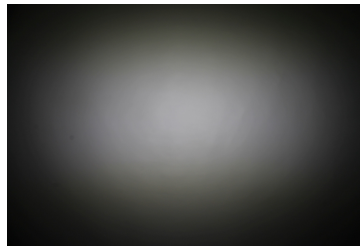
OPTICAL RESULTS (SIMULATED):



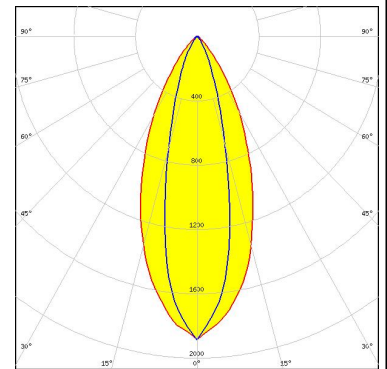
LED XP-G2 HE
 FWHM / FWTM 46.0 + 29.0° / 84.0 + 61.0°
 Efficiency 77 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



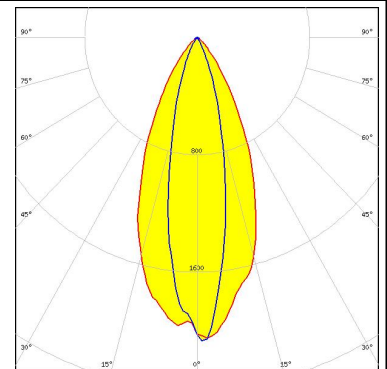
LED XP-G3
 FWHM / FWTM 44.0 + 29.0° / 81.0 + 59.0°
 Efficiency 73 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON HL2X
 FWHM / FWTM 44.0 + 25.0° / 80.0 + 53.0°
 Efficiency 81 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



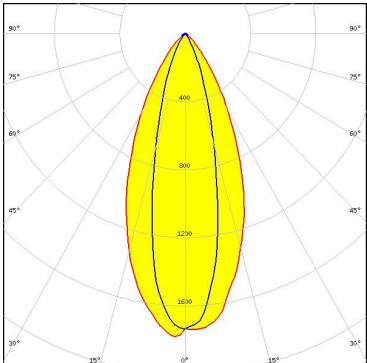
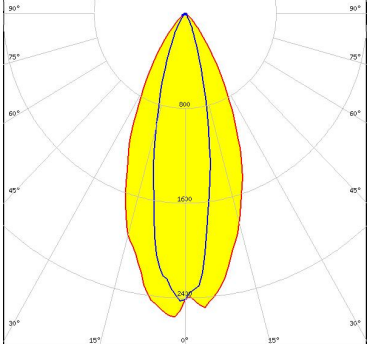
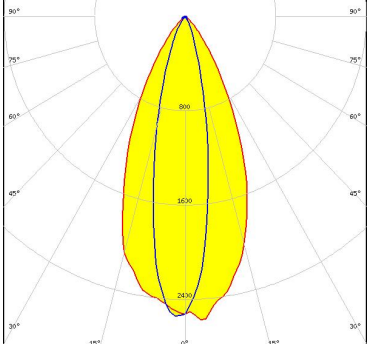
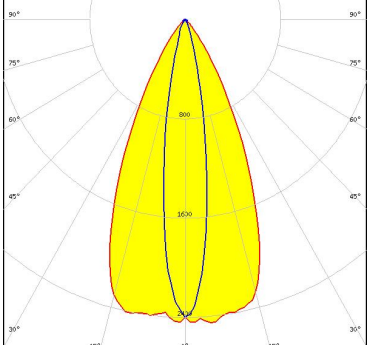
LED LUXEON TX
 FWHM / FWTM 22.0 + 46.0° / 46.0 + 80.0°
 Efficiency 80 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED: LUXEON V2</p> <p>FWHM / FWTM: 25.0 + 47.0° / 53.0 + 81.0°</p> <p>Efficiency: 83 %</p> <p>Peak intensity: 1.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON Z</p> <p>FWHM / FWTM: 12.0 + 50.0° / 25.0 + 74.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 3.3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON Z ES</p> <p>FWHM / FWTM: 17.0 + 49.0° / 34.0 + 76.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 2.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>LUMINUS</p> <p>LED: SST-20</p> <p>FWHM / FWTM: 48.0 + 20.0° / 78.0 + 41.0°</p> <p>Efficiency: 81 %</p> <p>Peak intensity: 2.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

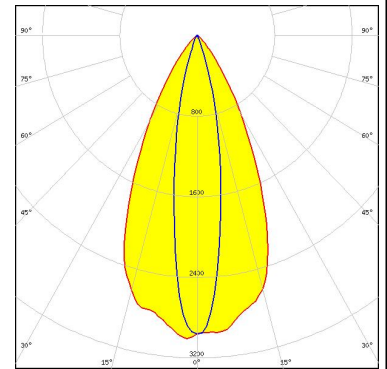
<p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C FWHM / FWTM: 25.0 + 45.0° / 52.0 + 81.0° Efficiency: 78 % Peak intensity: 1.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: Duris S5 (2 chip) FWHM / FWTM: 20.0 + 45.0° / 40.0 + 75.0° Efficiency: 80 % Peak intensity: 2.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: Duris S5 (Single chip) FWHM / FWTM: 19.0 + 45.0° / 40.0 + 75.0° Efficiency: 79 % Peak intensity: 2.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSCONIQ P 3030 FWHM / FWTM: 50.0 + 17.0° / 75.0 + 34.0° Efficiency: 79 % Peak intensity: 2.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

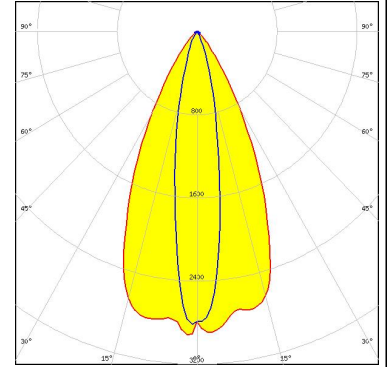
LED OSLOM SSL 150
 FWHM / FWTM 16.5 + 48.0° / 36.0 + 76.0°
 Efficiency 83 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

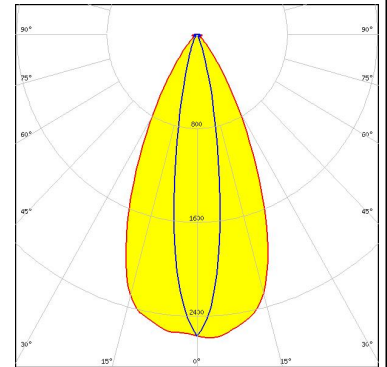
LED OSLOM SSL 80
 FWHM / FWTM 16.0 + 45.0° / 38.0 + 72.0°
 Efficiency 81 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

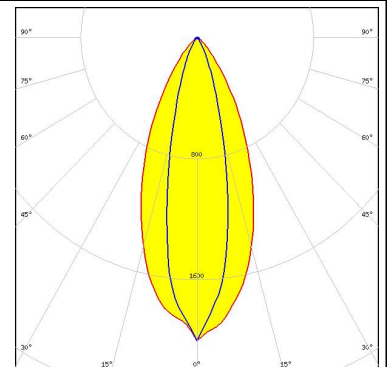
Opto Semiconductors

LED SYNIOS S2222
 FWHM / FWTM 50.0 + 18.0° / 77.0 + 36.0°
 Efficiency 95 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

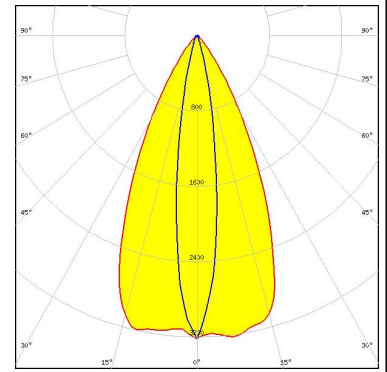
LED LH351B
 FWHM / FWTM 44.0 + 24.0° / 80.0 + 48.0°
 Efficiency 81 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

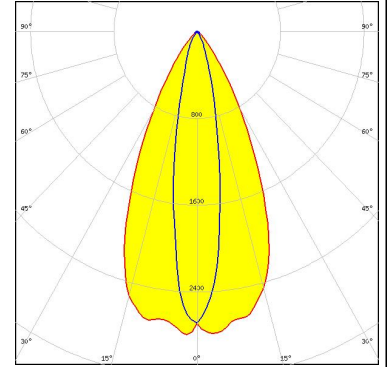
SAMSUNG

LED LM101B
 FWHM / FWTM 14.5 + 50.0° / 29.0 + 72.0°
 Efficiency 81 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



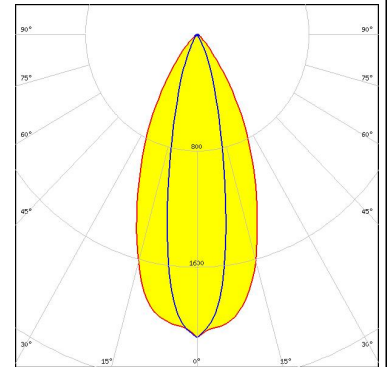
SAMSUNG

LED LM301A
 FWHM / FWTM 16.0 + 50.0° / 40.0 + 75.0°
 Efficiency 81 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

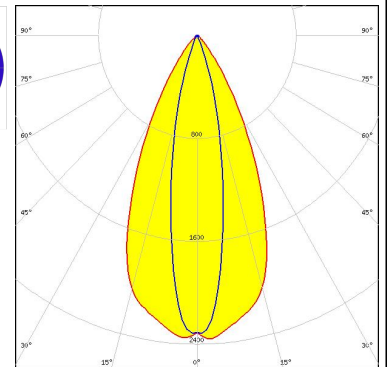
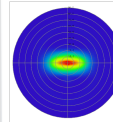
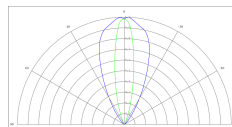


SEOUL SEMICONDUCTOR

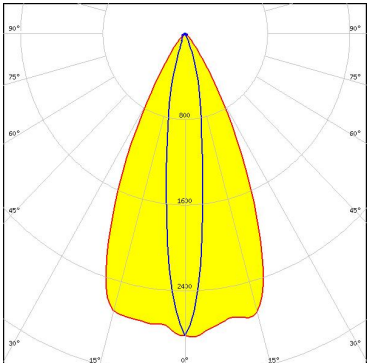
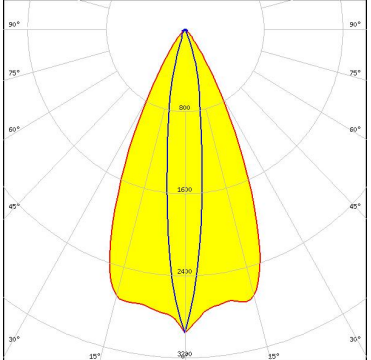
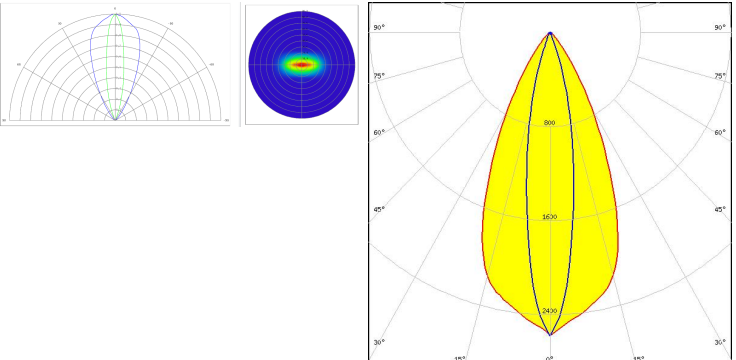
LED Z5M1/Z5M2
 FWHM / FWTM 46.0 + 22.0° / 80.0 + 47.0°
 Efficiency 83 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED FWR1108MS
 FWHM / FWTM 48.0 + 20.0° / 76.0 + 40.0°
 Efficiency 84 %
 LEDs/each optic 1
 Light colour IR
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>STANLEY</p> <p>LED MFN1108MS</p> <p>FWHM / FWTM 50.0 + 14.0° / 72.0 + 37.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 2.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>	
<p>STANLEY</p> <p>LED MGN1108MS</p> <p>FWHM / FWTM 50.0 + 14.0° / 72.0 + 36.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>	
<p>STANLEY</p> <p>LED MJN1108MS</p> <p>FWHM / FWTM 48.0 + 19.0° / 76.0 + 39.0°</p> <p>Efficiency 85 %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>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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LEDiL Oy

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