

LISA3-W-PIN

~35° wide beam with location pin installation

SPECIFICATION:

Dimensions	Ø 9.9 mm
Height	7 mm
Fastening	pin
ROHS compliant	yes ⓘ

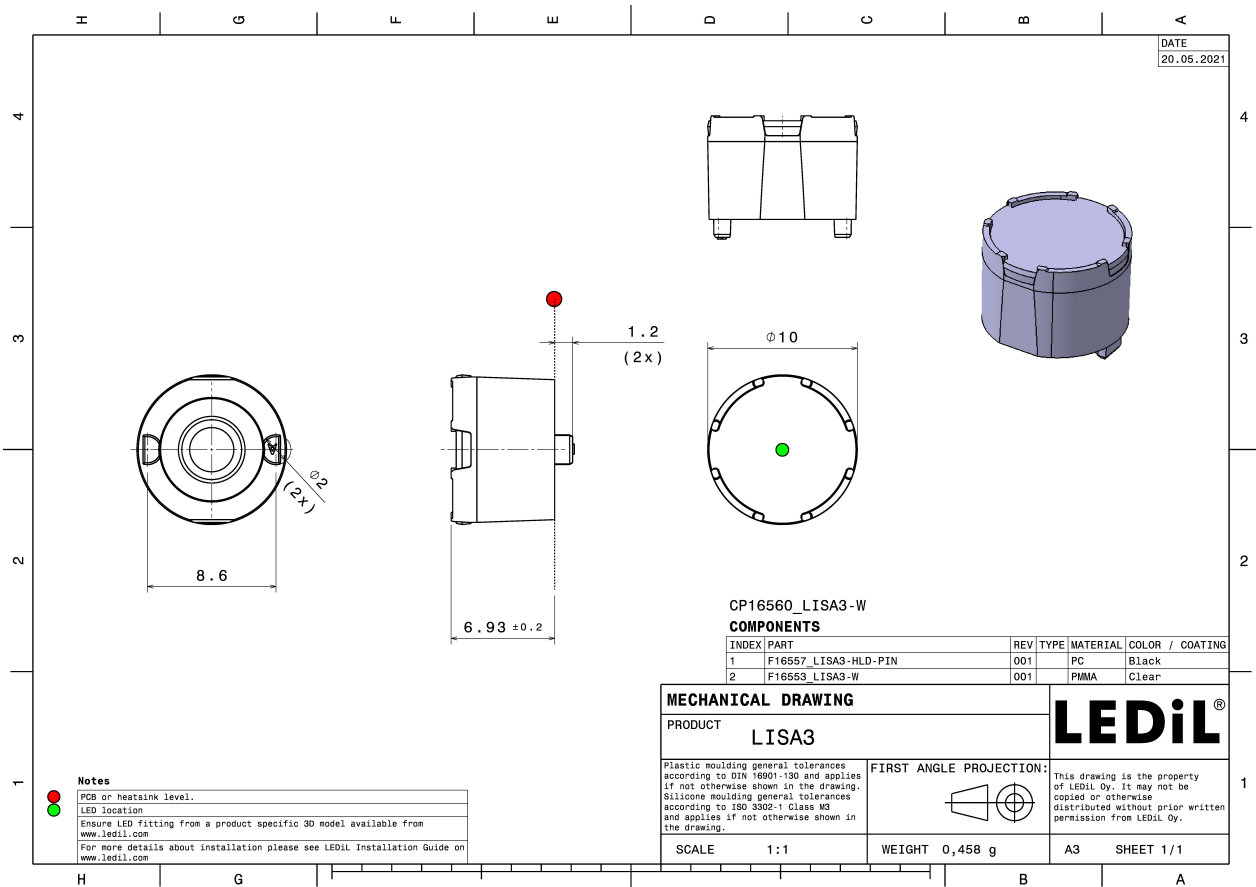
MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16560_LISA3-W-PIN	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					



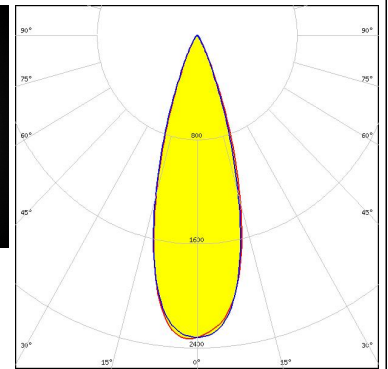
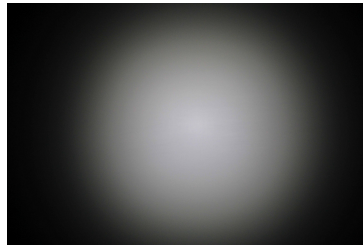


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

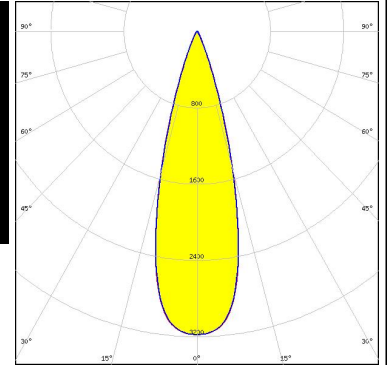
CREE LED

LED XD16
FWHM / FWTM 32.0° / 52.0°
Efficiency 77 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



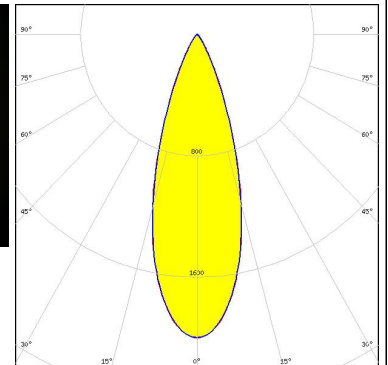
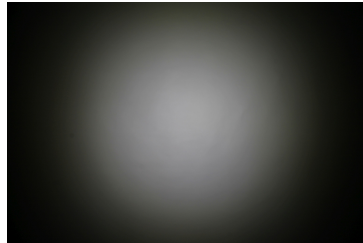
CREE LED

LED XP-E2
FWHM / FWTM 29.0° / 46.0°
Efficiency 86 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



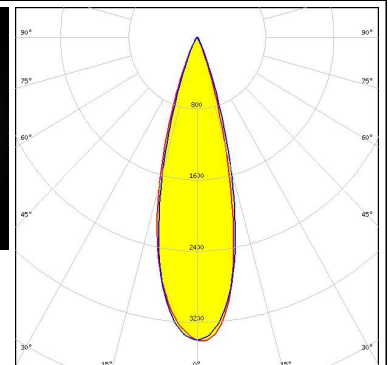
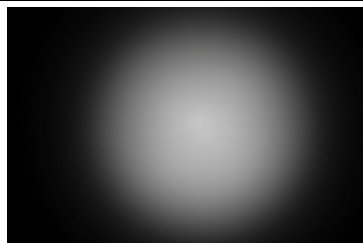
CREE LED

LED XP-G3
FWHM / FWTM 34.0° / 58.0°
Efficiency 78 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

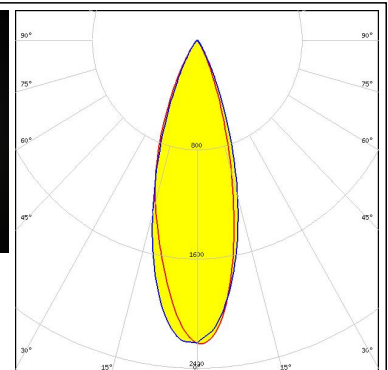
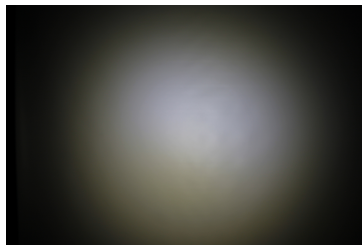
LED LUXEON CZ
FWHM / FWTM 29.0° / 47.0°
Efficiency 88 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



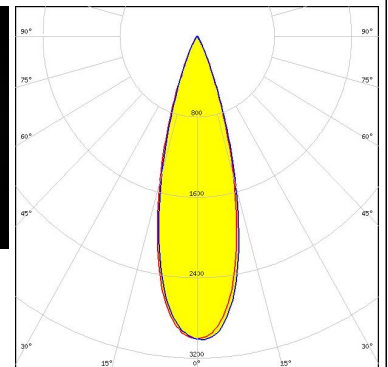
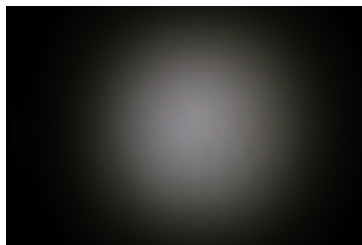
OPTICAL RESULTS (MEASURED):



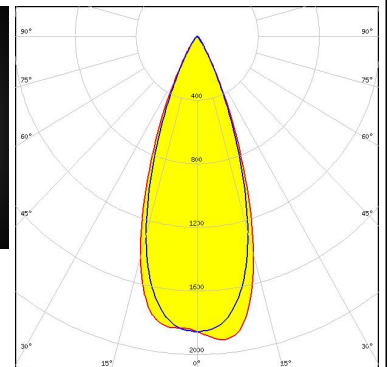
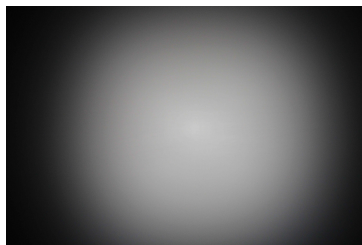
LED NF2x757G
FWHM / FWTM 32.0° / 57.0°
Efficiency 79 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



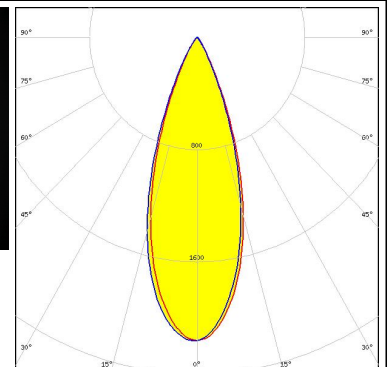
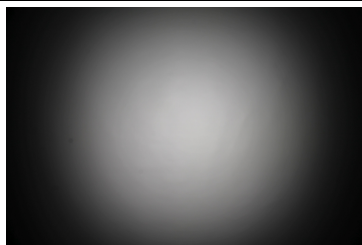
LED OSCONIQ C 2424
FWHM / FWTM 30.0° / 50.0°
Efficiency 88 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 39.0° / 60.0°
Efficiency 88 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LH351C
FWHM / FWTM 35.0° / 58.0°
Efficiency 88 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



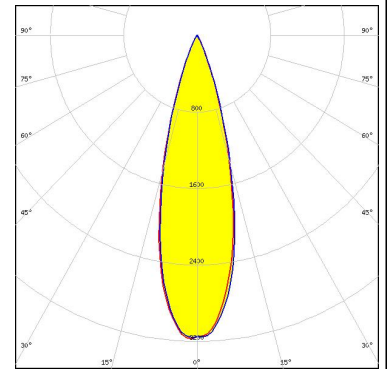
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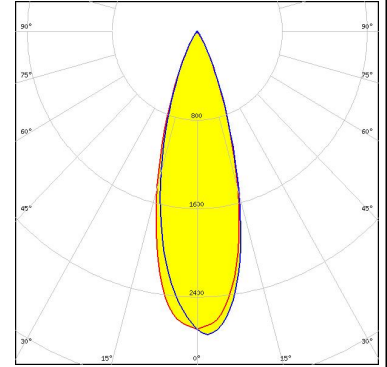
OPTICAL RESULTS (SIMULATED):



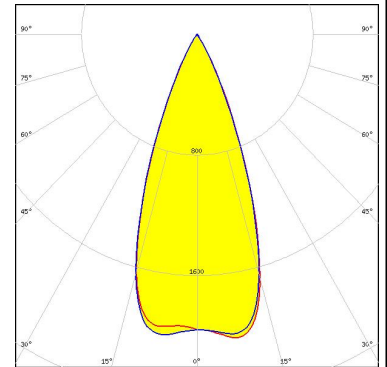
LED CSP 2323 (BXCP)
 FWHM / FWTM 28.0° / 47.0°
 Efficiency 81 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



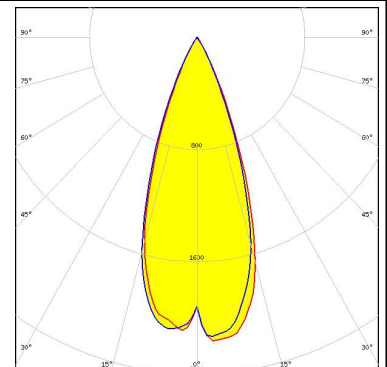
LED J Series 2835
 FWHM / FWTM 31.0° / 54.0°
 Efficiency 88 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-E
 FWHM / FWTM 41.0° / 59.0°
 Efficiency 92 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



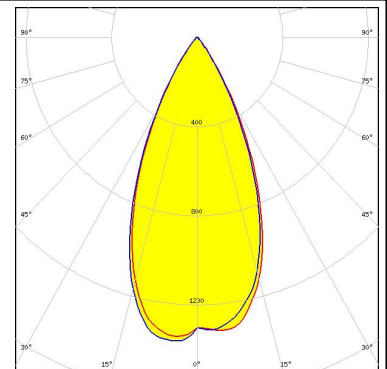
LED XP-G2
 FWHM / FWTM 39.0° / 58.0°
 Efficiency 90 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



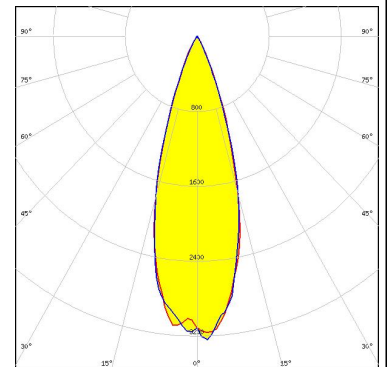
OPTICAL RESULTS (SIMULATED):



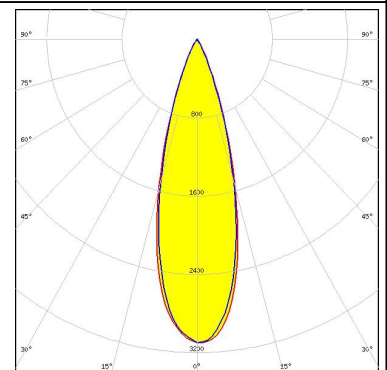
LED XP-G2 HE
FWHM / FWTM 48.0° / 72.0°
Efficiency 87 %
Peak intensity 1.4 cd/Im
LEDs/each optic 1
Light colour White
Required components:



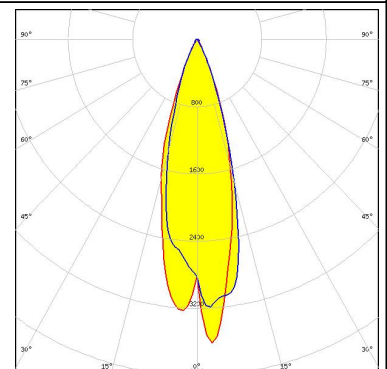
LED XT-E
FWHM / FWTM 30.0° / 49.0°
Efficiency 82 %
Peak intensity 2.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON 2835 Line
FWHM / FWTM 30.0° / 52.0°
Efficiency 89 %
Peak intensity 3.1 cd/Im
LEDs/each optic 1
Light colour White
Required components:



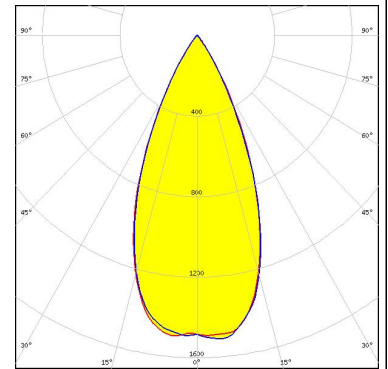
LED LUXEON 3030 2D (Round LES)
FWHM / FWTM 30.0° / 50.0°
Efficiency 85 %
Peak intensity 3.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

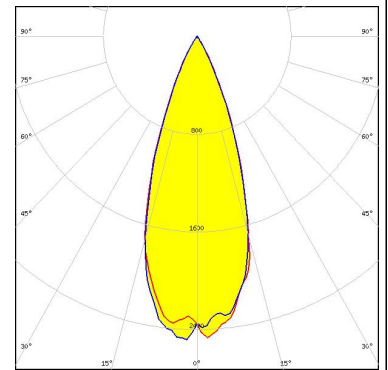
LUMILEDS

LED LUXEON HL2X
FWHM / FWTM 46.0° / 68.0°
Efficiency 89 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



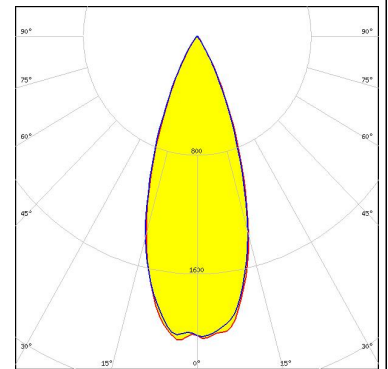
LUMILEDS

LED LUXEON TX
FWHM / FWTM 36.0° / 55.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



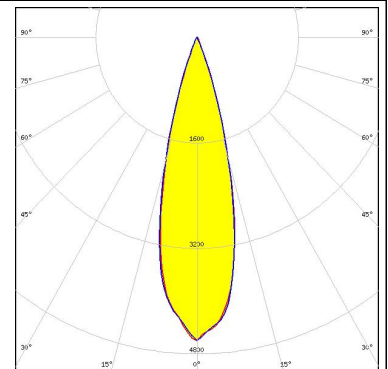
LUMILEDS

LED LUXEON V2
FWHM / FWTM 36.0° / 61.0°
Efficiency 90 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

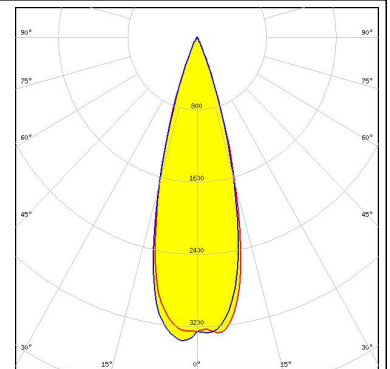
LED LUXEON Z
FWHM / FWTM 27.5° / 42.0°
Efficiency 88 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



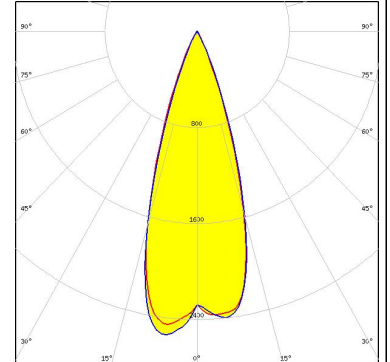
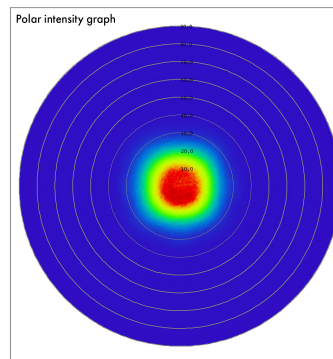
OPTICAL RESULTS (SIMULATED):



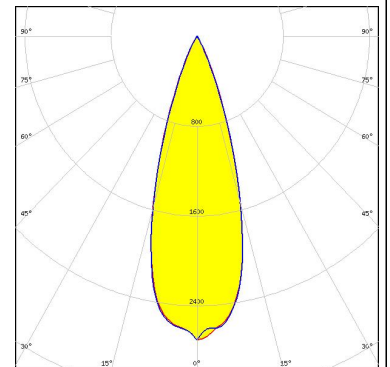
LED LUXEON Z ES
 FWHM / FWTM 30.0° / 46.0°
 Efficiency 89 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



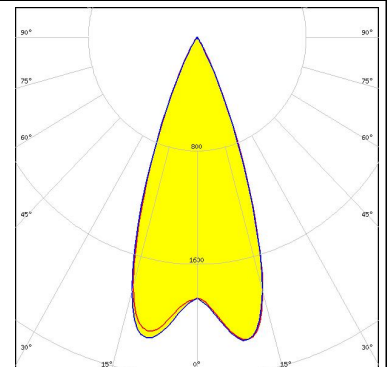
LED SST-10-IR-B90
 FWHM / FWTM 34.0° / 51.0°
 Efficiency 87 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



LED SST-20
 FWHM / FWTM 32.0° / 52.0°
 Efficiency 87 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



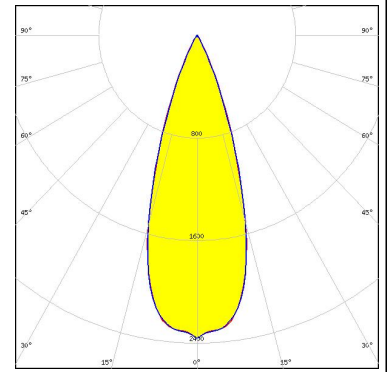
LED NCSU276C
 FWHM / FWTM 41.0° / 57.0°
 Efficiency 91 %
 LEDs/each optic 1
 Light colour UV-A
 Required components:



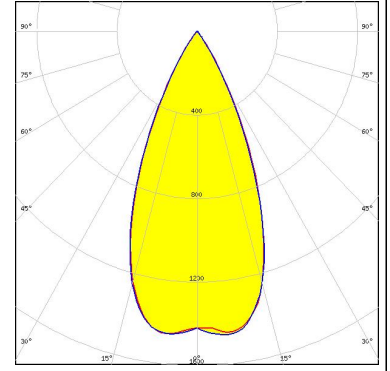
OPTICAL RESULTS (SIMULATED):



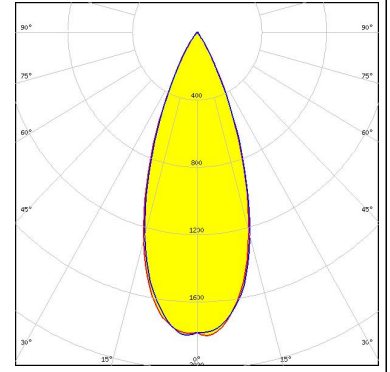
LED NCSxx19B
FWHM / FWTM 34.0° / 54.0°
Efficiency 84 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



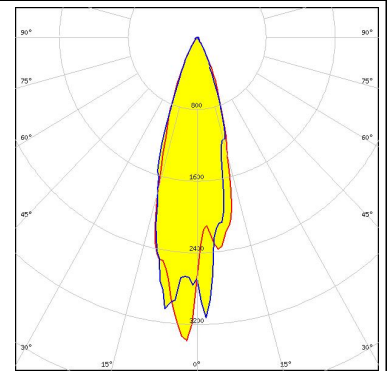
LED NVSW219F
FWHM / FWTM 46.0° / 68.0°
Efficiency 88 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19B/NVSxx19C
FWHM / FWTM 38.9° / 62.5°
Efficiency 83 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Duris S5 (2 chip)
FWHM / FWTM 30.0° / 52.0°
Efficiency 87 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

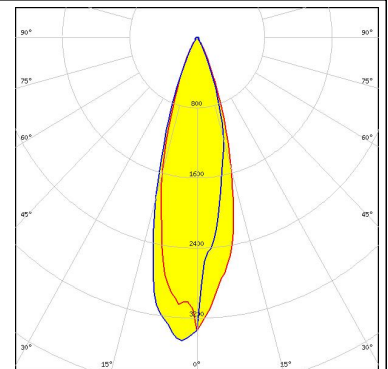


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

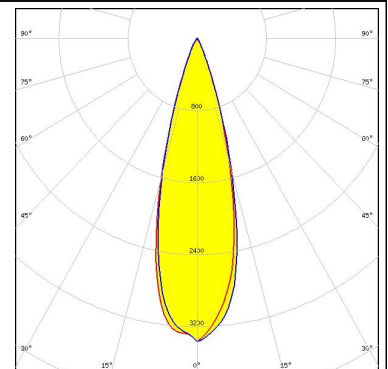
LED Duris S5 (Single chip)
FWHM / FWTM 30.0° / 50.0°
Efficiency 86 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

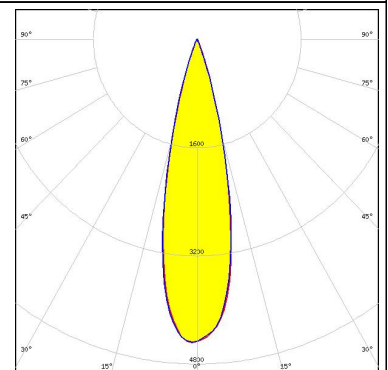
LED OSCONIQ P 3030
FWHM / FWTM 29.0° / 46.0°
Efficiency 87 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

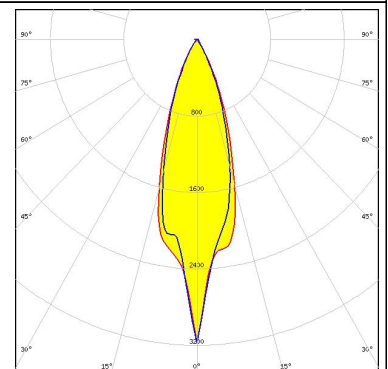
LED OSLOM Black
FWHM / FWTM 25.0° / 40.0°
Efficiency 88 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED OSLOM Square EC
FWHM / FWTM 35.0° / 55.0°
Efficiency 88 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

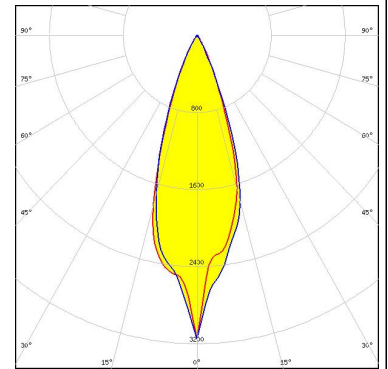


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

LED OSLON SSL 150
 FWHM / FWTM 35.0° / 52.0°
 Efficiency 90 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

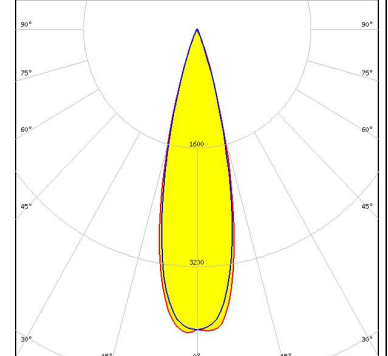
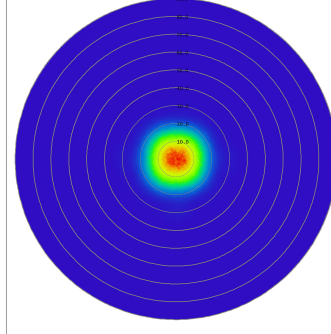


OSRAM

Opto Semiconductors

LED SFH 4715S
 FWHM / FWTM 26.0° / 40.0°
 Efficiency 87 %
 LEDs/each optic 1
 Light colour IR
 Required components:

Polar intensity graph

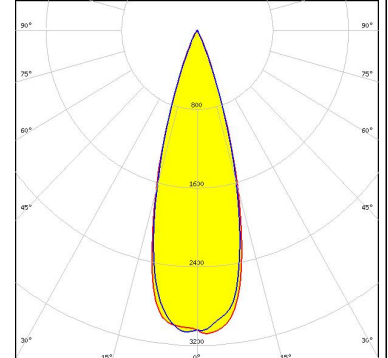
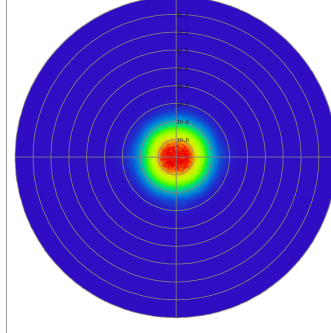


OSRAM

Opto Semiconductors

LED SFH 4716S
 FWHM / FWTM 31.0° / 47.0°
 Efficiency 86 %
 LEDs/each optic 1
 Light colour IR
 Required components:

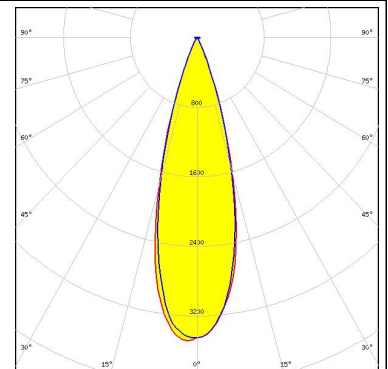
Polar intensity graph



OSRAM

Opto Semiconductors

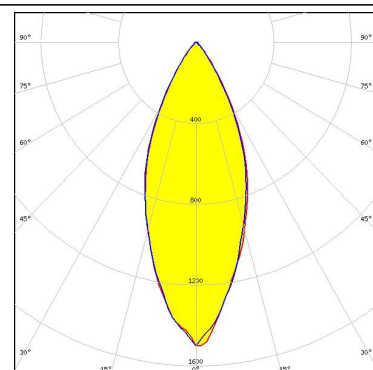
LED SYNIOS S2222
 FWHM / FWTM 30.0° / 48.0°
 Efficiency 97 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

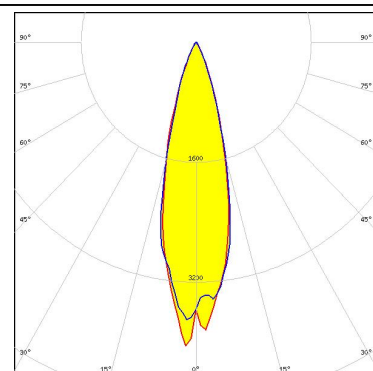
SAMSUNG

LED LH351D
FWHM / FWTM 41.0° / 73.0°
Efficiency 85 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



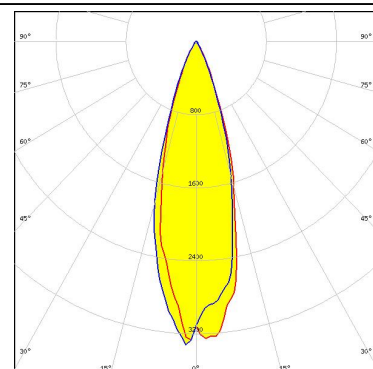
SAMSUNG

LED LM301A
FWHM / FWTM 29.0° / 48.0°
Efficiency 87 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



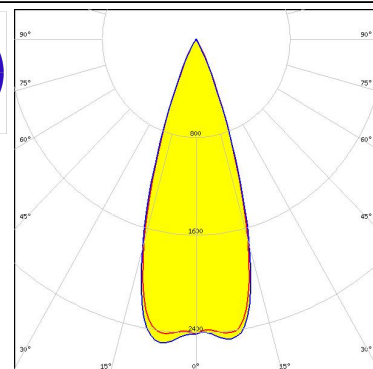
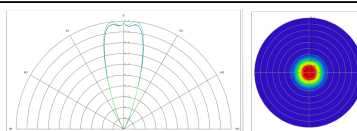
SAMSUNG

LED LM302A
FWHM / FWTM 30.0° / 51.0°
Efficiency 87 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



STANLEY

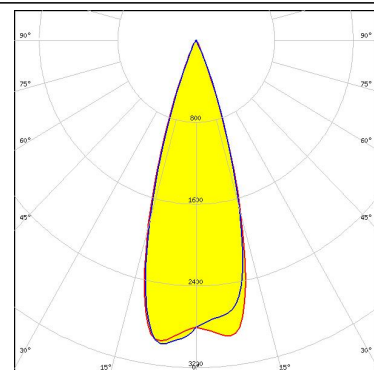
LED FWR1108MS
FWHM / FWTM 35.0° / 51.0°
Efficiency 90 %
LEDs/each optic 1
Light colour IR
Required components:



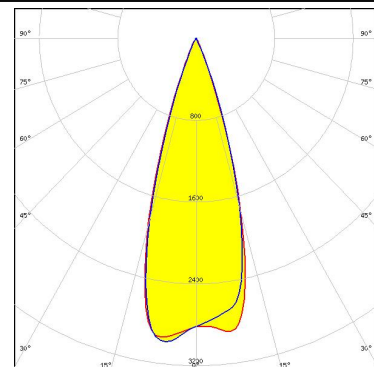
OPTICAL RESULTS (SIMULATED):



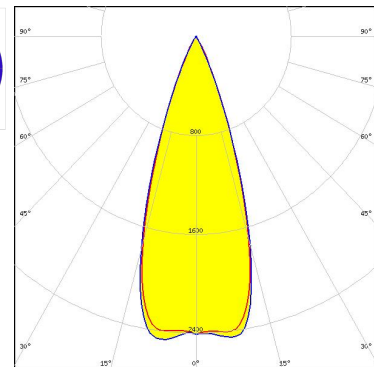
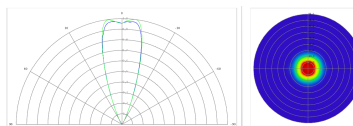
LED MFN1108MS
 FWHM / FWTM 33.0° / 47.0°
 Efficiency 91 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



LED MGN1108MS
 FWHM / FWTM 33.0° / 47.0°
 Efficiency 91 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



LED MJN1108MS
 FWHM / FWTM 36.0° / 52.0°
 Efficiency 91 %
 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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