

LISA3-WWW-PIN

~60° wide beam with location pin installation

SPECIFICATION:

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

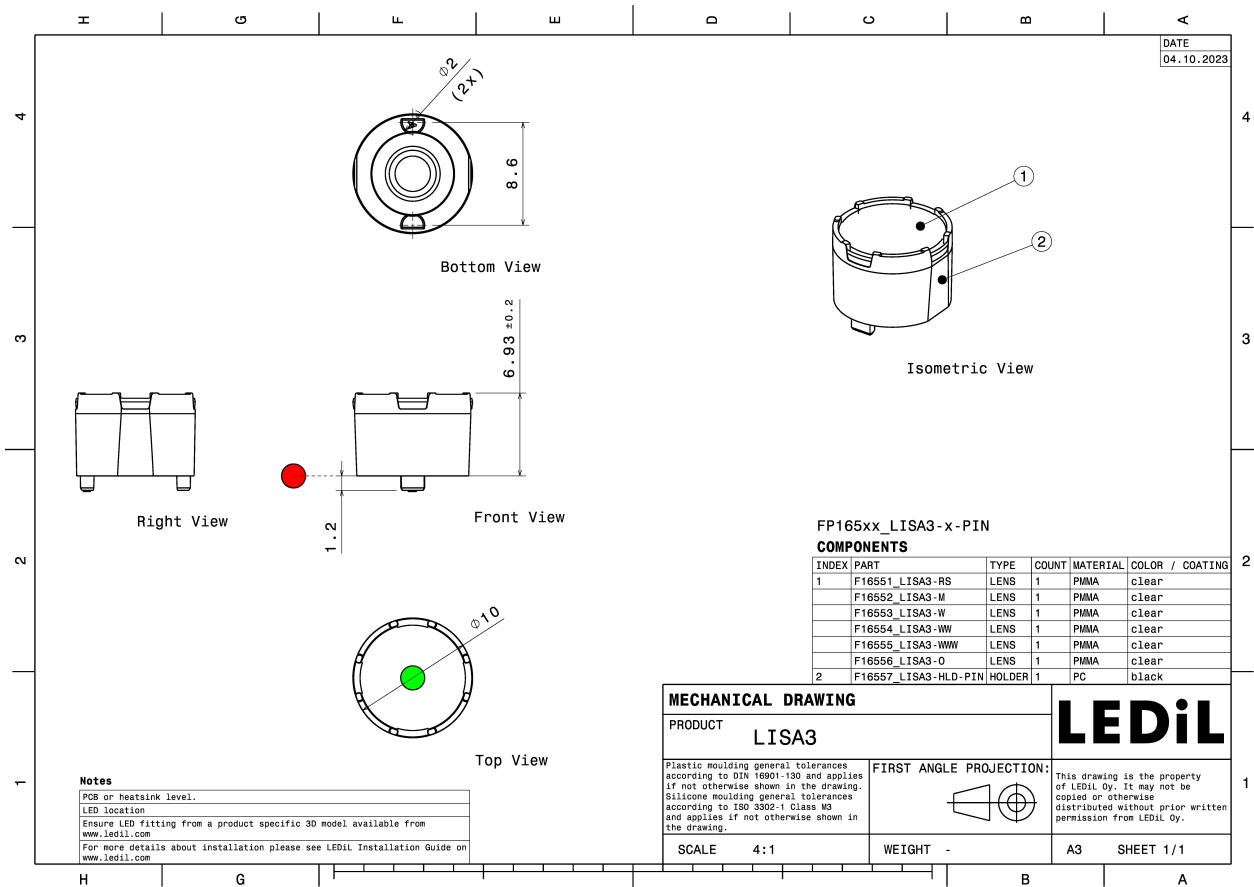
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LISA3-WWW	Single lens	PMMA	clear		
LISA3-HLD-PIN	Holder	PC	black		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FP16562_LISA3-WWW-PIN » Box size: 310 x 230 x 60 mm	2000	300	100	1.4



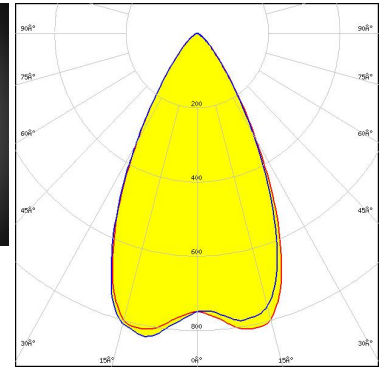
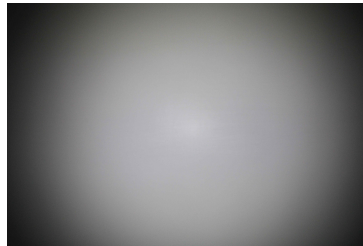


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



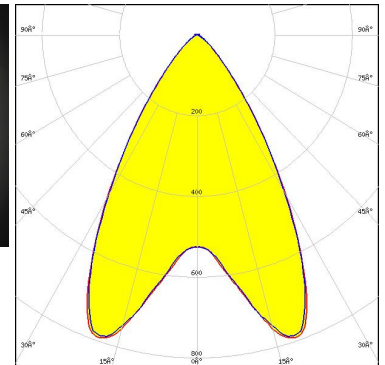
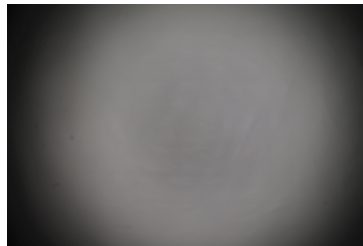
LED XD16
 FWHM / FWTM 55.0° / 85.0°
 Efficiency 74 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



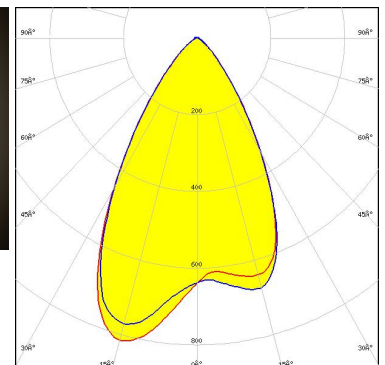
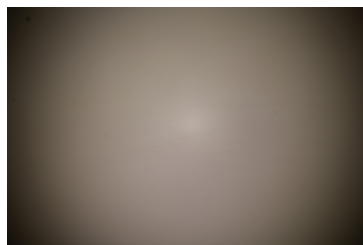
LED XP-E2
 FWHM / FWTM 63.0° / 91.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G3
 FWHM / FWTM 61.0° / 95.0°
 Efficiency 80 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

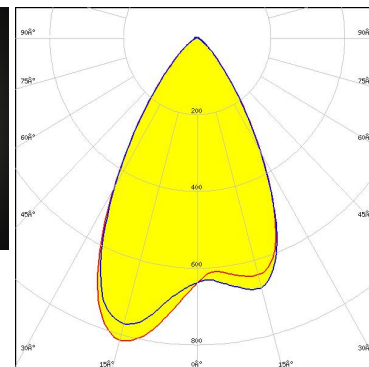
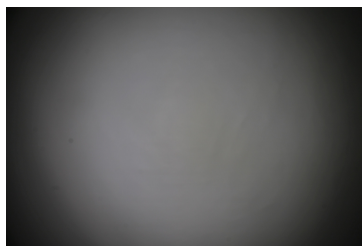


Light distribution files

OPTICAL RESULTS (MEASURED):



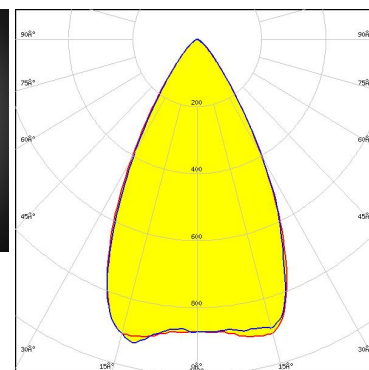
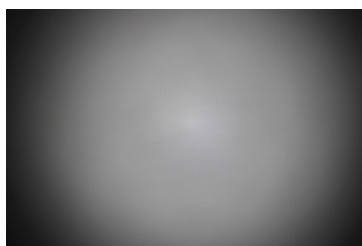
LED XP-G3
 FWHM / FWTM 60.0° / 92.0°
 Efficiency 80 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



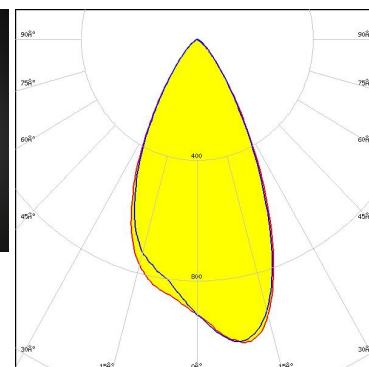
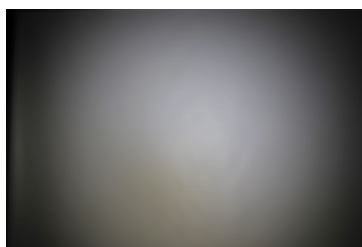
LED LUXEON CZ
 FWHM / FWTM 57.0° / 85.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NF2x757G
 FWHM / FWTM 50.0° / 82.0°
 Efficiency 76 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

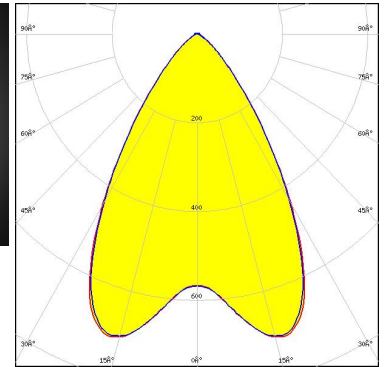


Light distribution files

OPTICAL RESULTS (MEASURED):



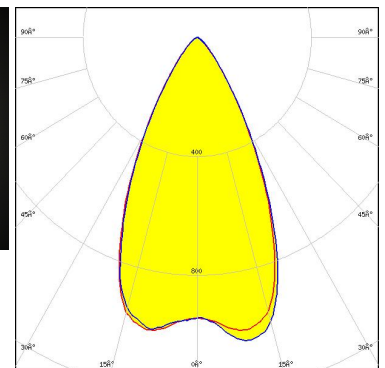
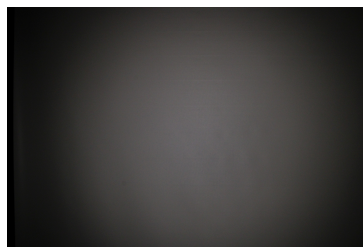
LED NVSW219F
 FWHM / FWTM 64.0° / 96.0°
 Efficiency 84 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



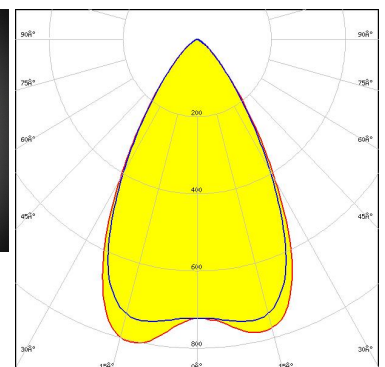
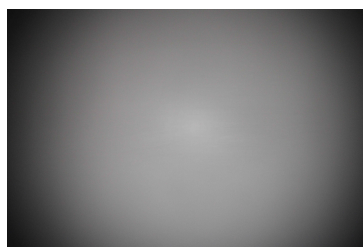
LED OSCONIQ C 2424
 FWHM / FWTM 53.0° / 81.0°
 Efficiency 84 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 60.0° / 93.0°
 Efficiency 83 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

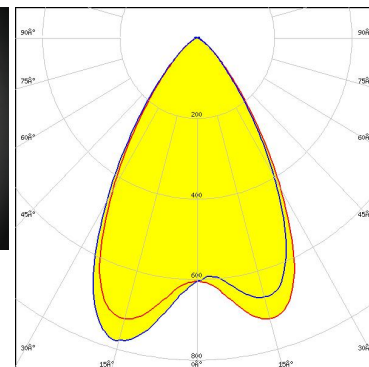
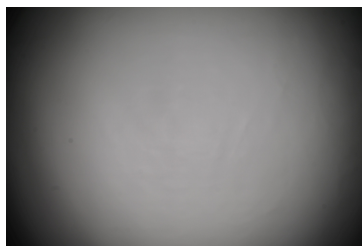


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LH351C
FWHM / FWTM 64.0° / 96.0°
Efficiency 84 %
Peak intensity 0.8 cd/m
LEDs/each optic 1
Light colour/type White
Required components:

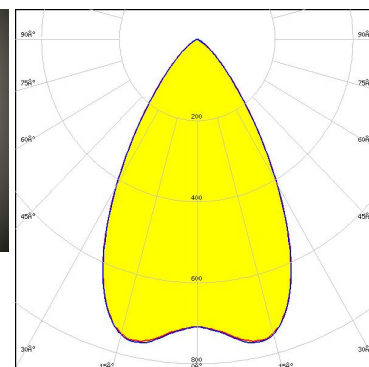
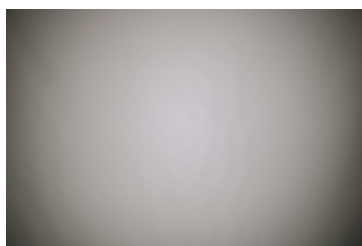


Light distribution files



SEOUL SEMICONDUCTOR

LED Z5M4
FWHM / FWTM 62.0° / 95.0°
Efficiency 84 %
Peak intensity 0.8 cd/m
LEDs/each optic 1
Light colour/type White
Required components:

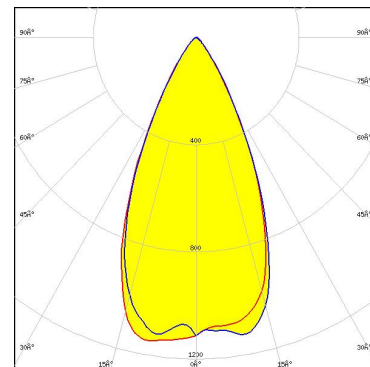


Light distribution files

OPTICAL RESULTS (SIMULATED):



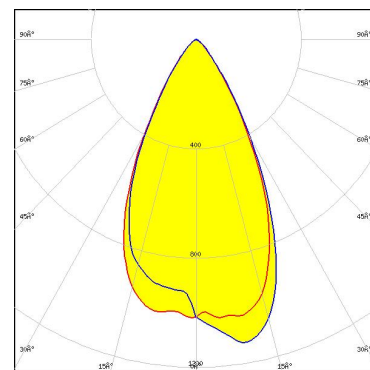
LED CSP 2323 (BXCP)
 FWHM / FWTM 50.0° / 74.0°
 Efficiency 80 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



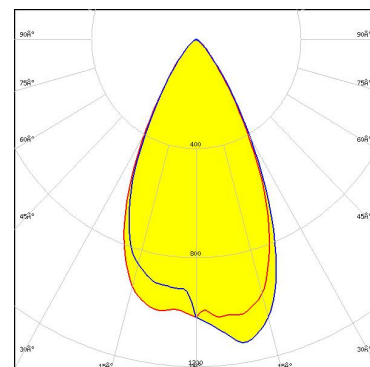
LED J Series 2835
 FWHM / FWTM 53.0° / 82.0°
 Efficiency 87 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED J Series 2835
 FWHM / FWTM 53.0° / 82.0°
 Efficiency 87 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

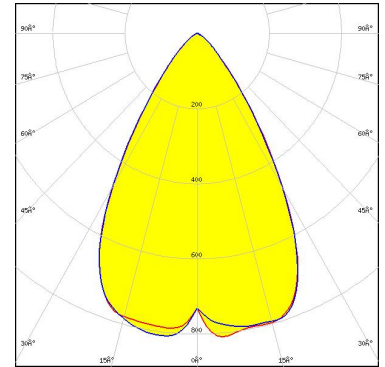


Light distribution files

OPTICAL RESULTS (SIMULATED):



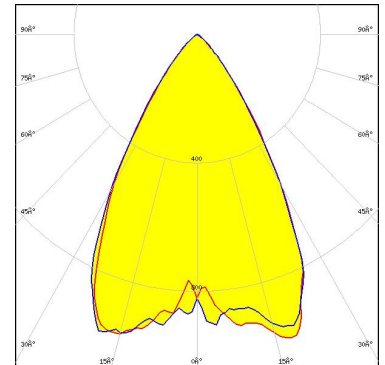
LED XP-E
 FWHM / FWTM 64.0° / 93.0°
 Efficiency 89 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



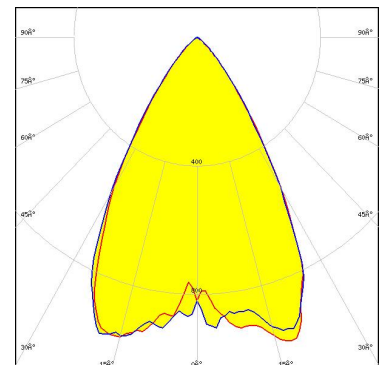
LED XP-E2
 FWHM / FWTM 64.0° / 90.0°
 Efficiency 89 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-E2
 FWHM / FWTM 62.0° / 88.0°
 Efficiency 89 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

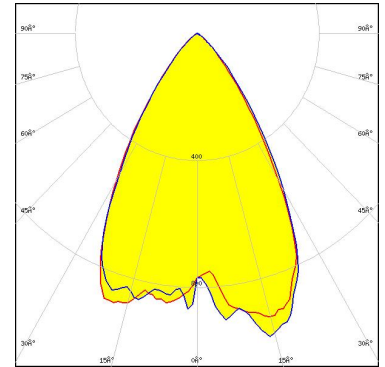


Light distribution files

OPTICAL RESULTS (SIMULATED):



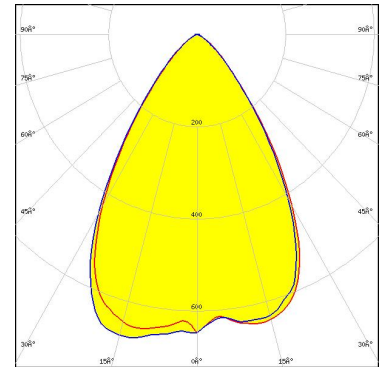
LED XP-G2
FWHM / FWTM 66.0° / 93.0°
Efficiency 87 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



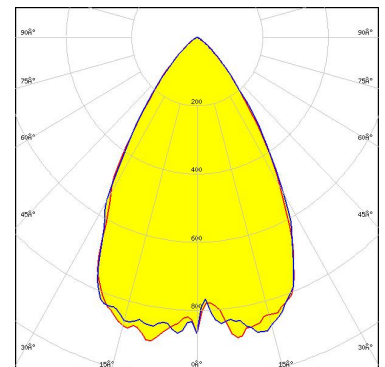
LED XP-G2 HE
FWHM / FWTM 68.0° / 100.0°
Efficiency 82 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G3
FWHM / FWTM 63.0° / 93.0°
Efficiency 82 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

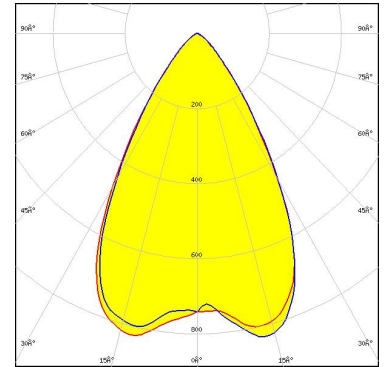


Light distribution files

OPTICAL RESULTS (SIMULATED):



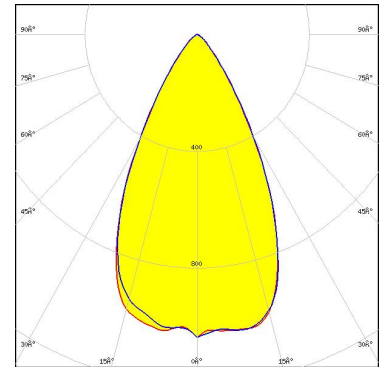
LED XP-G4
 FWHM / FWTM 62.0° / 92.0°
 Efficiency 88 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



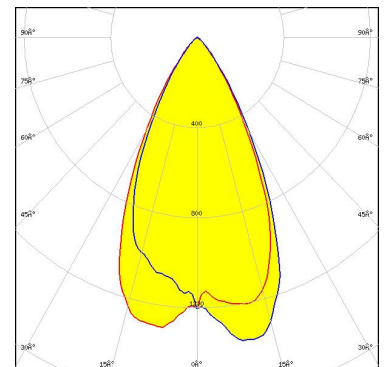
LED LUXEON 2835 Line
 FWHM / FWTM 54.0° / 82.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM 54.0° / 79.0°
 Efficiency 85 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

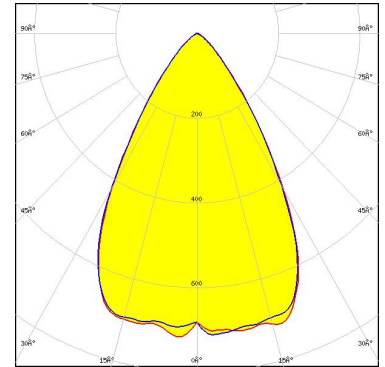


Light distribution files

OPTICAL RESULTS (SIMULATED):



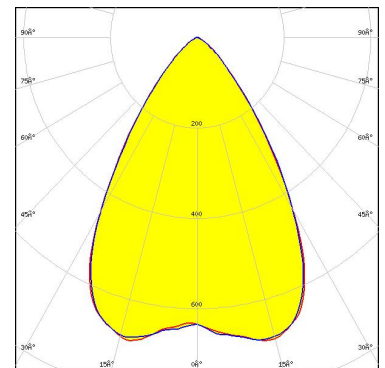
LED LUXEON C
FWHM / FWTM 64.0° / 92.0°
Efficiency 79 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



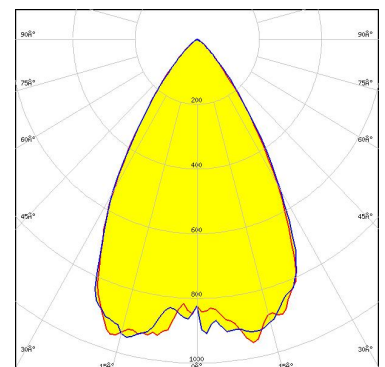
LED LUXEON HL2X
FWHM / FWTM 66.0° / 98.0°
Efficiency 85 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON TX
FWHM / FWTM 62.0° / 87.0°
Efficiency 85 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

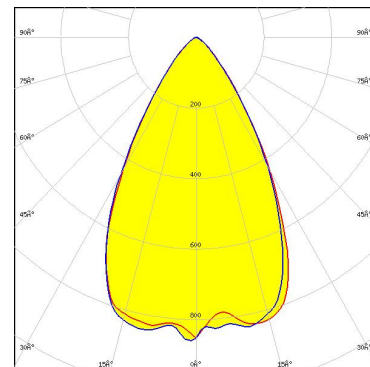


Light distribution files

OPTICAL RESULTS (SIMULATED):



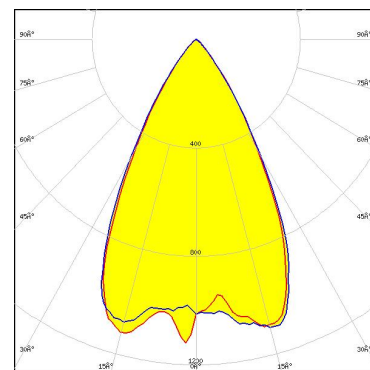
LED LUXEON V2
 FWHM / FWTM 60.0° / 92.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



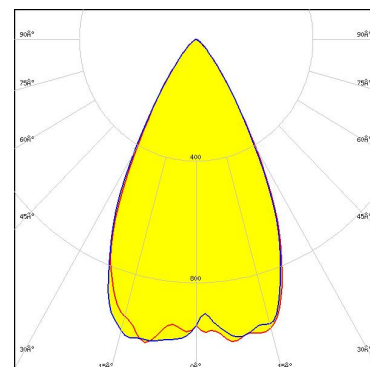
LED LUXEON Z
 FWHM / FWTM 58.0° / 80.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON Z ES
 FWHM / FWTM 56.0° / 82.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

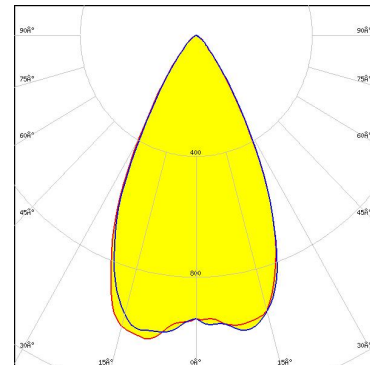
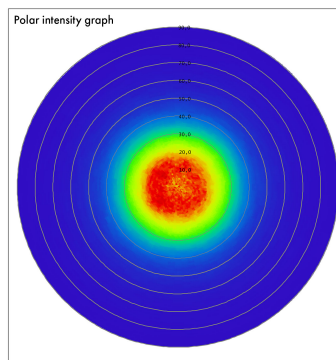


Light distribution files

OPTICAL RESULTS (SIMULATED):



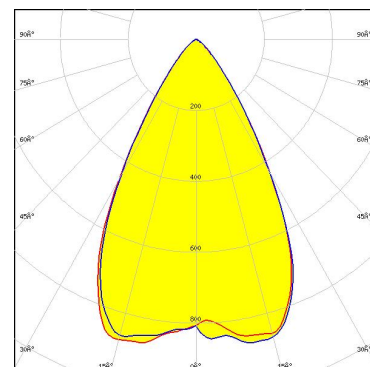
LED SST-10-IR-B90
 FWHM / FWTM 54.0° / 80.0°
 Efficiency 86 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files



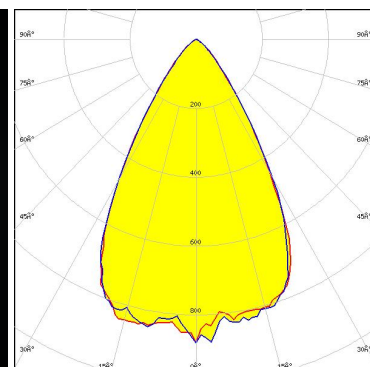
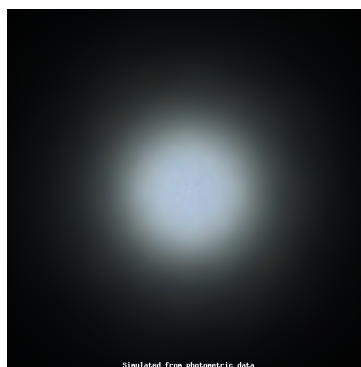
LED SST-12 Gen1
 FWHM / FWTM 60.0° / 88.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-12 Gen2
 FWHM / FWTM 60.0° / 90.0 + 88.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

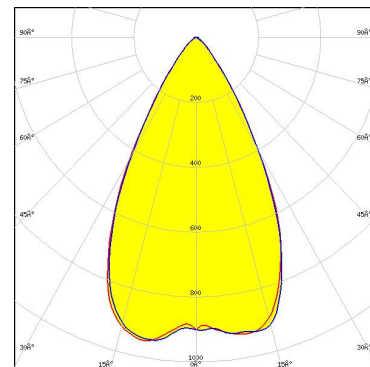


Light distribution files

OPTICAL RESULTS (SIMULATED):



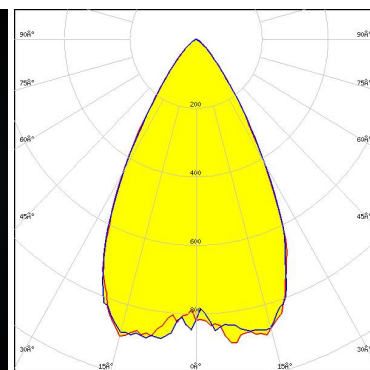
LED SST-20 Gen1
 FWHM / FWTM 56.0° / 84.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



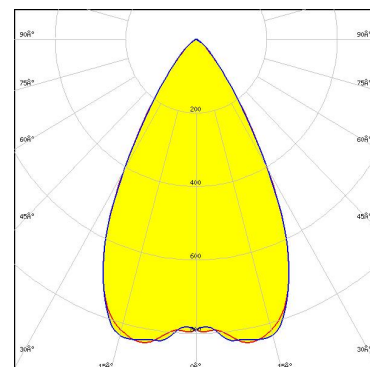
LED SST-20 Gen2
 FWHM / FWTM 59.0° / 86.0° + 87.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NCSxx19B
 FWHM / FWTM 60.0° / 88.0°
 Efficiency 82 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

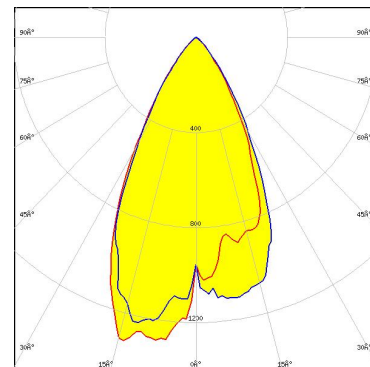


Light distribution files

OPTICAL RESULTS (SIMULATED):



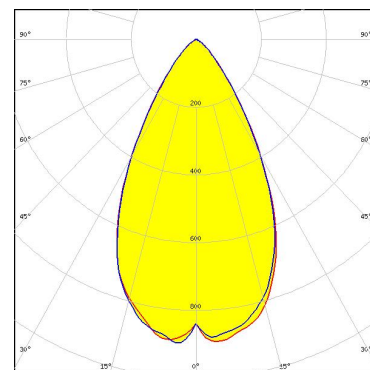
LED NF2x757G
 FWHM / FWTM 50.0° / 77.0°
 Efficiency 88 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



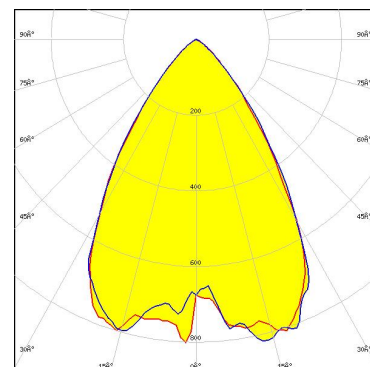
LED NV4WB35AM
 FWHM / FWTM 57.0° / 89.0°
 Efficiency 83 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219D
 FWHM / FWTM 67.0° / 88.0°
 Efficiency 84 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

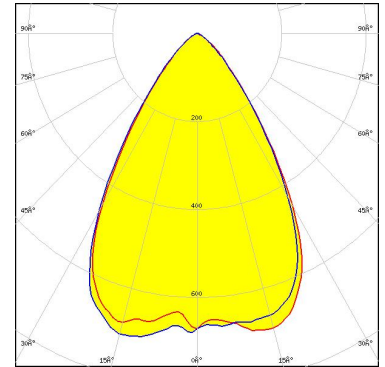


Light distribution files

OPTICAL RESULTS (SIMULATED):



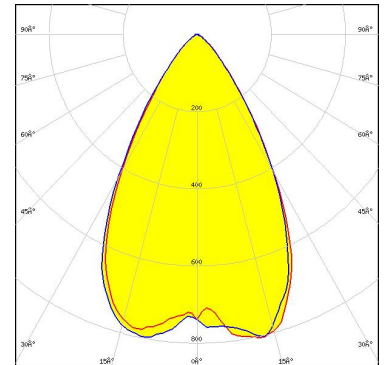
LED NVSW219F
FWHM / FWTM 66.0° / 99.0°
Efficiency 84 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



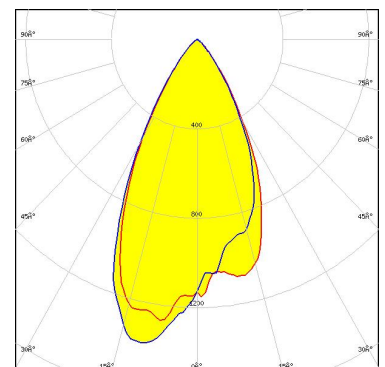
LED NVSxx19B/NVSxx19C
FWHM / FWTM 61.0° / 92.0°
Efficiency 83 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Duris S5 (2 chip)
FWHM / FWTM 49.0° / 77.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

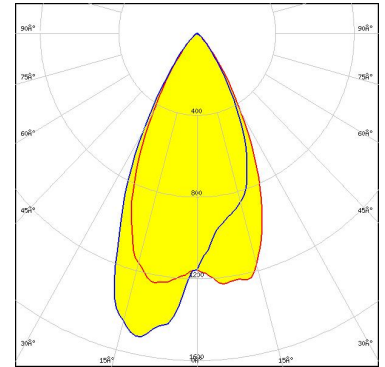


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

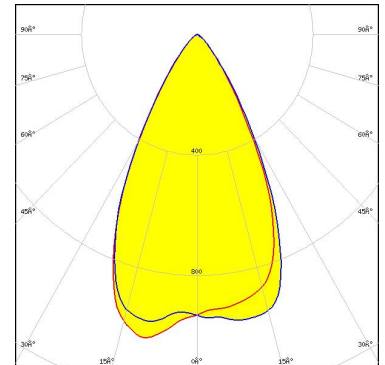
LED Duris S5 (Single chip)
FWHM / FWTM 48.0° / 76.0°
Efficiency 86 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

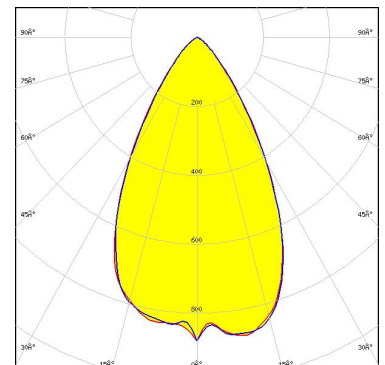
LED OSCONIQ P 3030
FWHM / FWTM 56.0° / 82.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 58.0° / 90.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

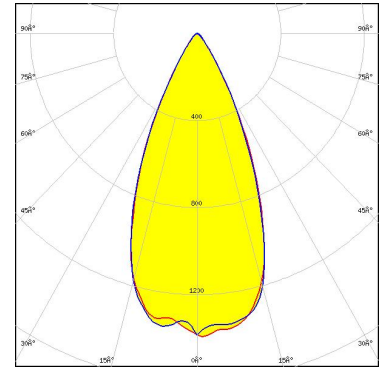


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

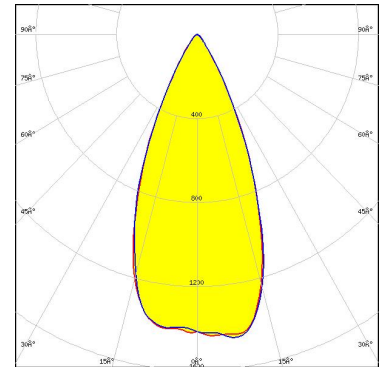
LED OSLON Black
FWHM / FWTM 46.0° / 71.0°
Efficiency 88 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

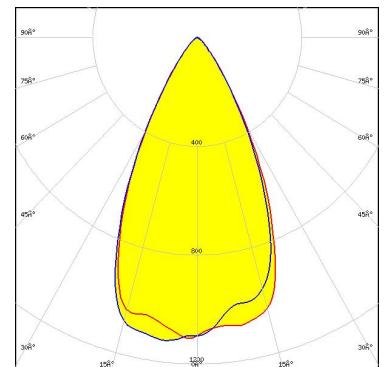
LED OSLON Black
FWHM / FWTM 45.0° / 69.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Black Flat (LUW HWQP)
FWHM / FWTM 54.0° / 80.0°
Efficiency 88 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:

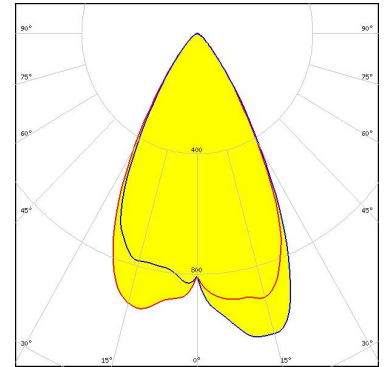


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

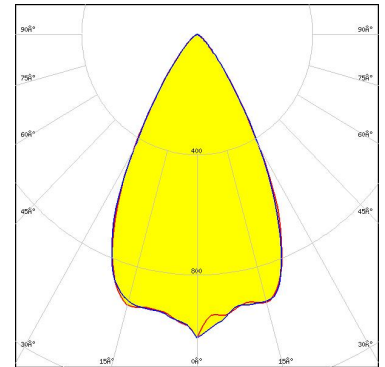
LED OSLON Optimal (GF CSSRML.24)
FWHM / FWTM 57.0° / 83.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type Far Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

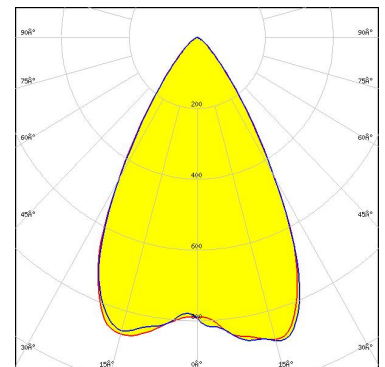
LED OSLON Pure 1414
FWHM / FWTM 58.0 + 57.0° / 84.0 + 83.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Signal
FWHM / FWTM 60.0° / 88.0°
Efficiency 90 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type Green
Required components:

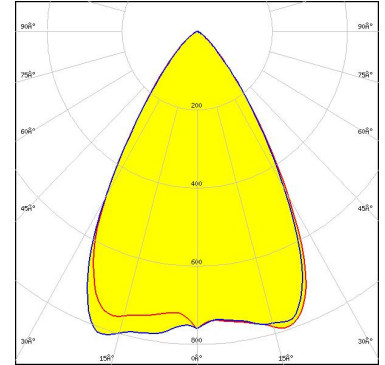


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

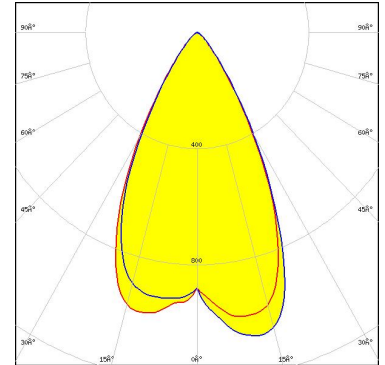
LED OSLON Signal
FWHM / FWTM 64.0° / 92.0°
Efficiency 89 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

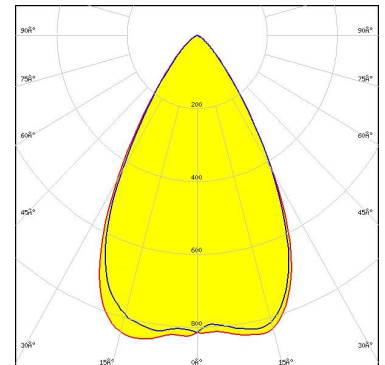
LED OSLON Signal
FWHM / FWTM 56.0° / 81.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type Yellow
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 61.0° / 90.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

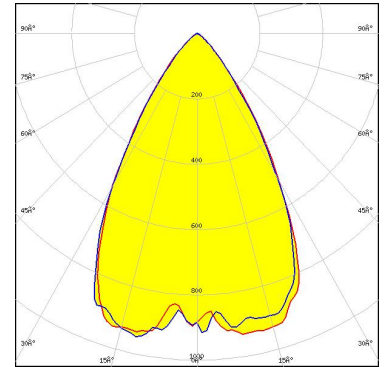


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

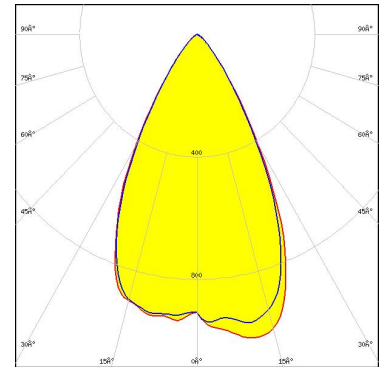
LED OSLON Square EC
FWHM / FWTM 61.0° / 86.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

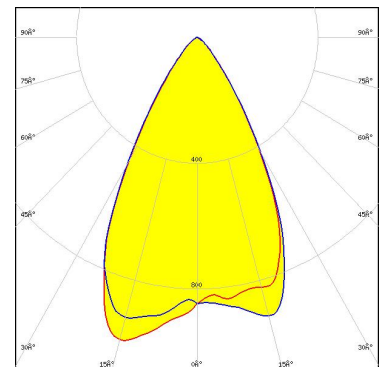
LED OSLON Square Flat
FWHM / FWTM 56.0° / 84.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 120
FWHM / FWTM 58.0° / 85.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type Amber
Required components:

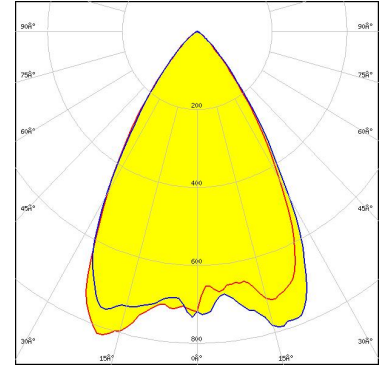


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

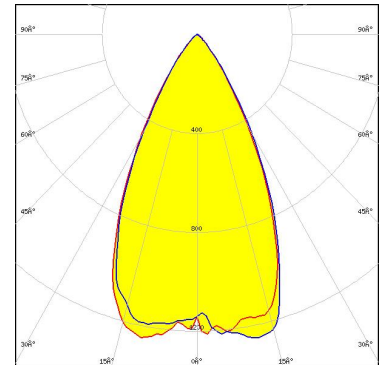
LED OSLON SSL 150
FWHM / FWTM 63.0° / 84.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

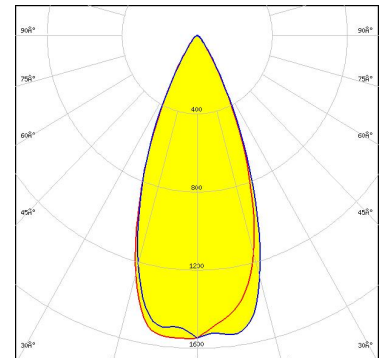
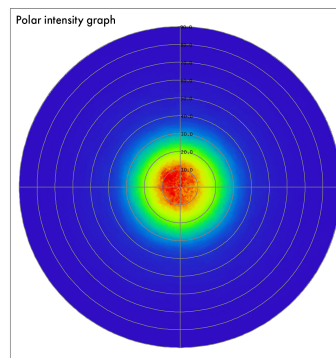
LED OSLON SSL 80
FWHM / FWTM 53.0° / 79.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 42.0° / 67.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:

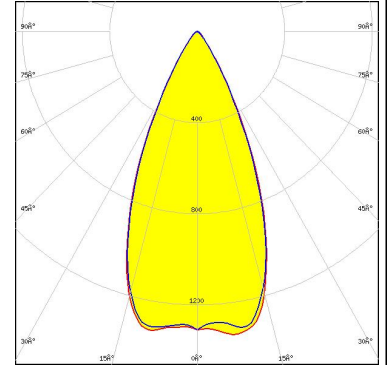
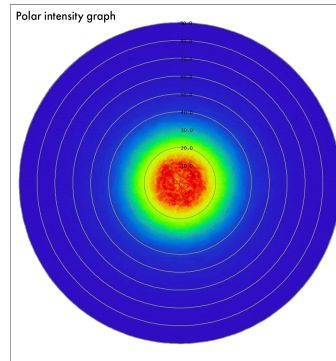


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

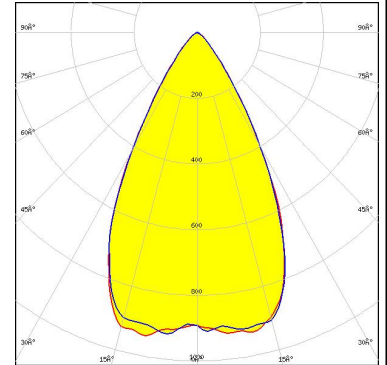
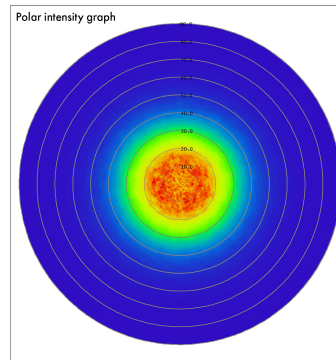
LED SFH 4715S
FWHM / FWTM 47.0° / 70.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

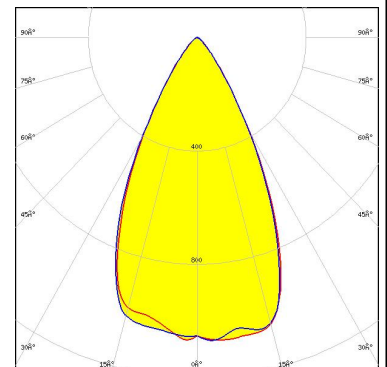
LED SFH 4716S
FWHM / FWTM 57.0° / 83.0°
Efficiency 85 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED Synios P2720 1 mm
FWHM / FWTM 54.0° / 80.0°
Efficiency 88 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:

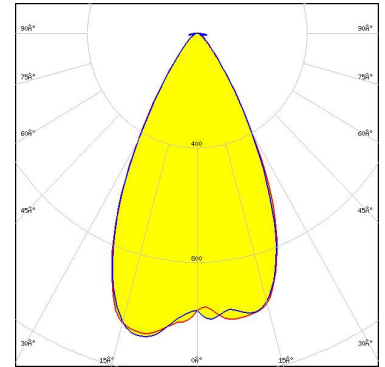


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

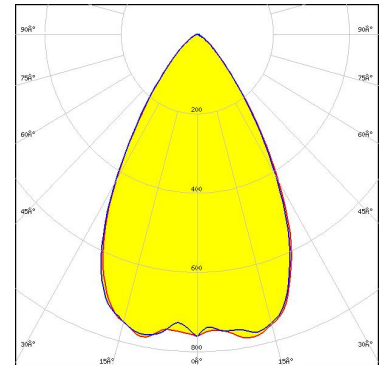
LED SYNIOS S2222
FWHM / FWTM 55.0° / 82.0°
Efficiency 96 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

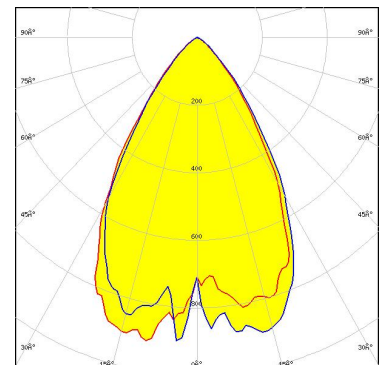
LED LH351B
FWHM / FWTM 62.0° / 95.0°
Efficiency 85 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351C
FWHM / FWTM 62.0° / 88.0°
Efficiency 84 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

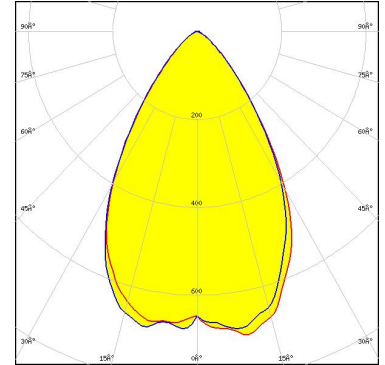


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

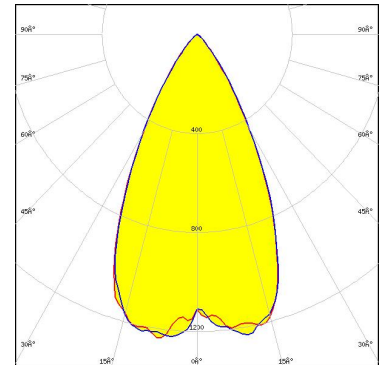
LED LH351D
FWHM / FWTM 65.0° / 100.0°
Efficiency 81 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

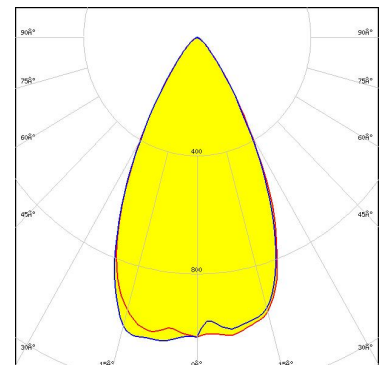
LED LM301A
FWHM / FWTM 53.0° / 75.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LM301B
FWHM / FWTM 55.0° / 82.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

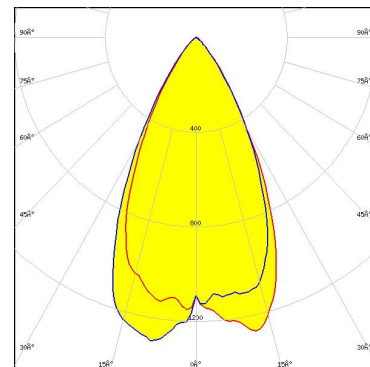


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

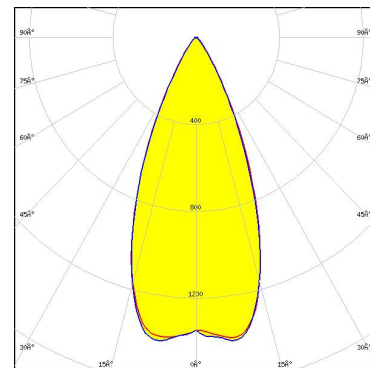
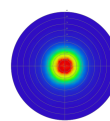
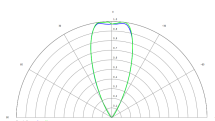
LED LM302A
 FWHM / FWTM 53.0° / 80.0°
 Efficiency 87 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

STANLEY

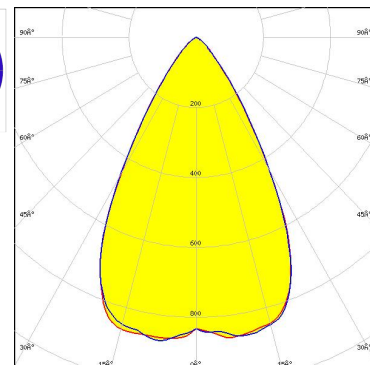
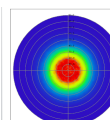
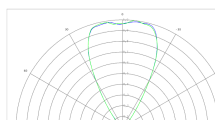
LED FWR1107MS
 FWHM / FWTM 44.0° / 68.0°
 Efficiency 85 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files

STANLEY

LED FWR1108MS
 FWHM / FWTM 60.0° / 87.0°
 Efficiency 88 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:

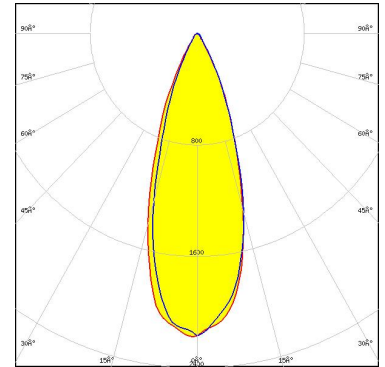


Light distribution files

OPTICAL RESULTS (SIMULATED):



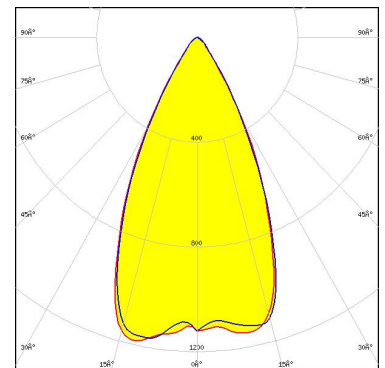
LED MFN1107MS
 FWHM / FWTM 35.0° / 60.0°
 Efficiency 91 %
 Peak intensity 2.2 cd/Im
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files



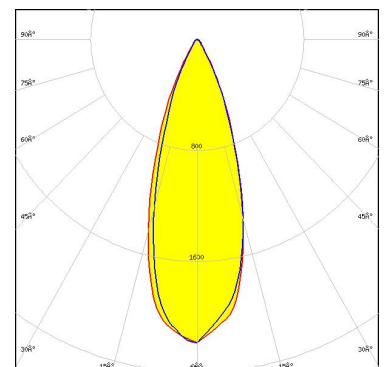
LED MFN1108MS
 FWHM / FWTM 52.0° / 76.0°
 Efficiency 90 %
 Peak intensity 1.2 cd/Im
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files



LED MGN1107MS
 FWHM / FWTM 35.0° / 60.0°
 Efficiency 91 %
 Peak intensity 2.2 cd/Im
 LEDs/each optic 1
 Light colour/type IR
 Required components:

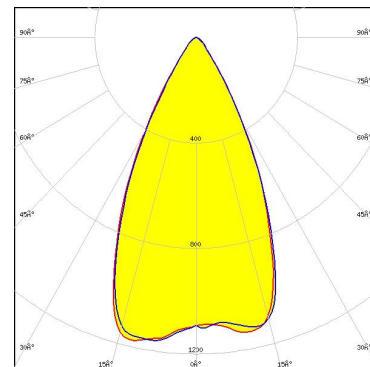


Light distribution files

OPTICAL RESULTS (SIMULATED):



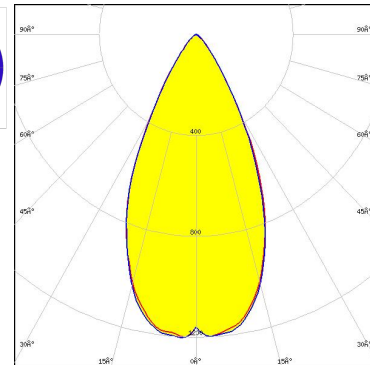
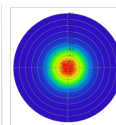
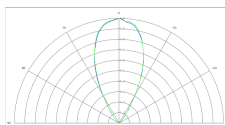
LED MGN1108MS
 FWHM / FWTM 52.0° / 76.0°
 Efficiency 90 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files



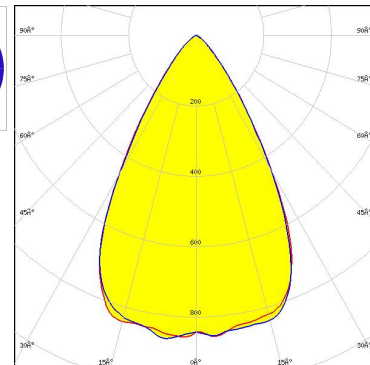
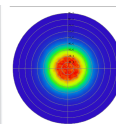
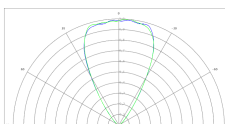
LED MJN1107MS
 FWHM / FWTM 50.0° / 77.0°
 Efficiency 89 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files



LED MJN1108MS
 FWHM / FWTM 61.0° / 88.0°
 Efficiency 88 %
 LEDs/each optic 1
 Light colour/type IR
 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.

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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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