

LISA3-RS-PIN

~15° spot beam with location pin installation

SPECIFICATION:

Dimensions	Ø 10.0
Height	6.9 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

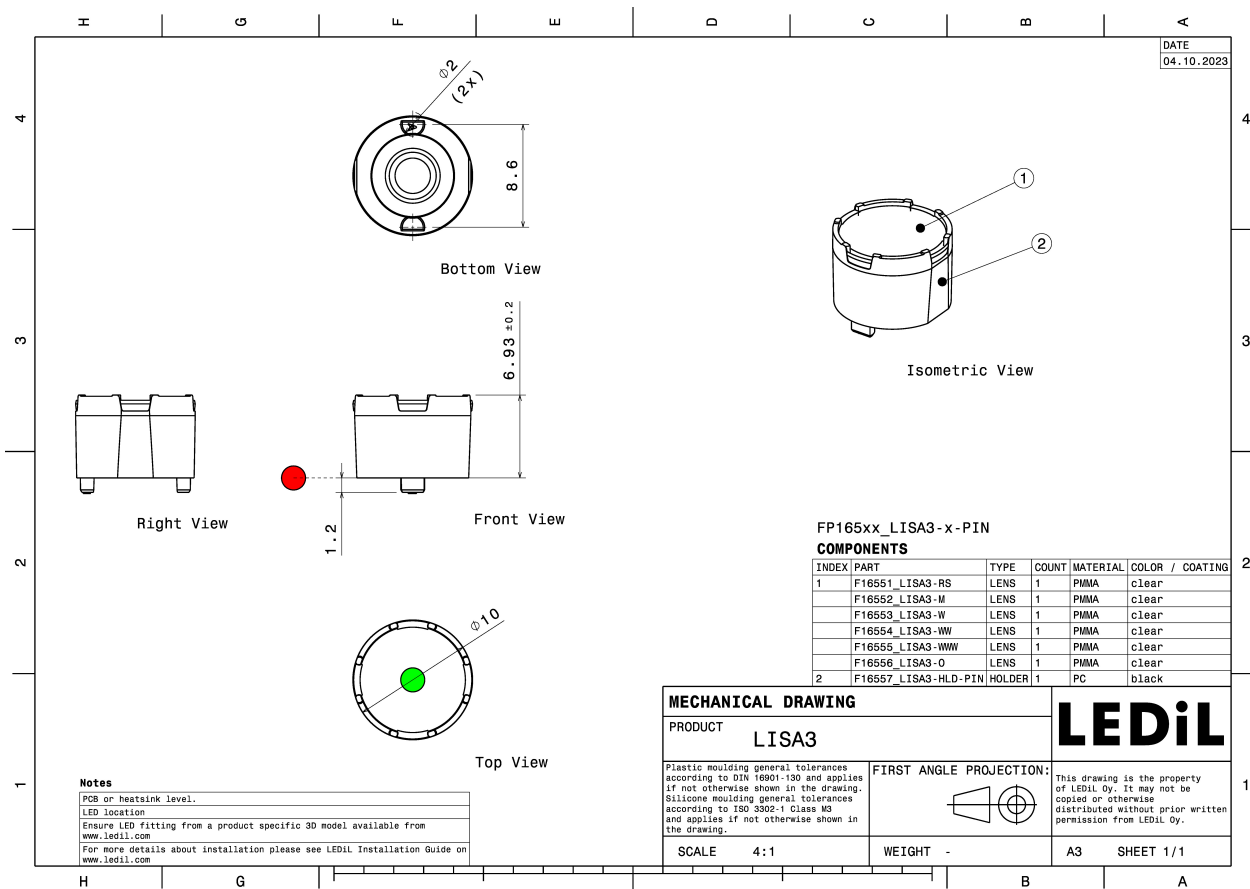
MATERIALS:

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



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FP16558_LISA3-RS-PIN » Box size: 310 x 230 x 60 mm	2000	300	100	1.3

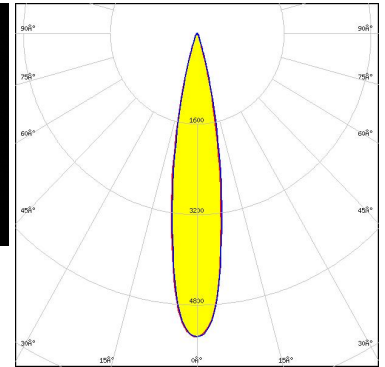
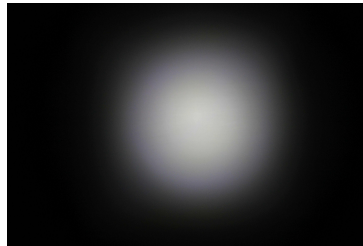


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



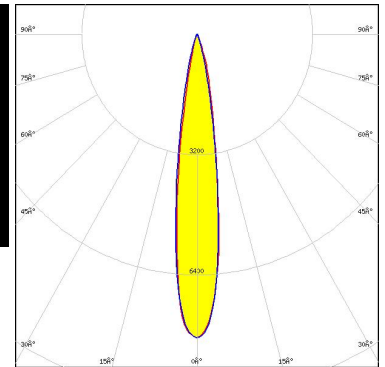
LED XD16
 FWHM / FWTM 19.0° / 34.0°
 Efficiency 78 %
 Peak intensity 5.4 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



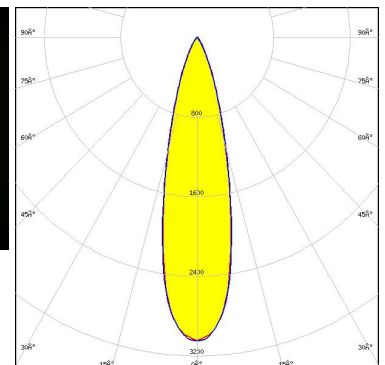
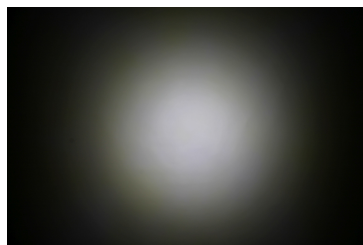
LED XP-E2
 FWHM / FWTM 16.0° / 31.0°
 Efficiency 90 %
 Peak intensity 8.1 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G3
 FWHM / FWTM 26.0° / 51.0°
 Efficiency 84 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:

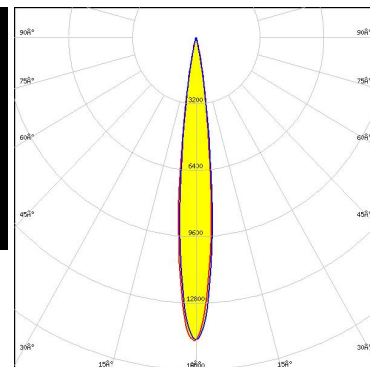
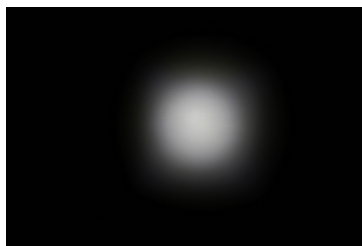


Light distribution files

OPTICAL RESULTS (MEASURED):



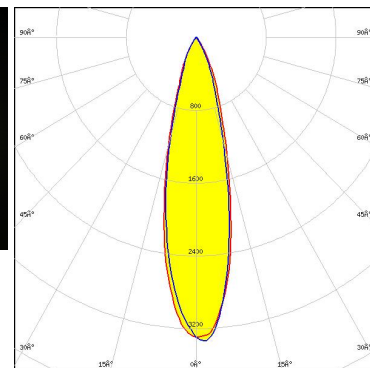
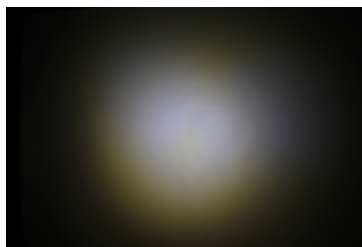
LED LUXEON CZ
 FWHM / FWTM 12.0° / 23.0°
 Efficiency 89 %
 Peak intensity 14.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



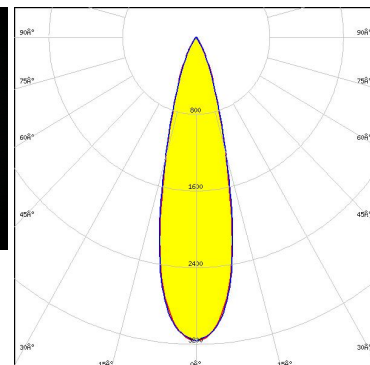
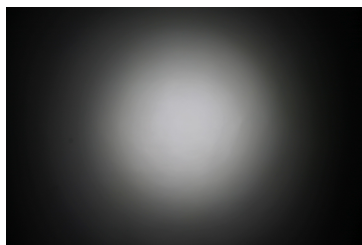
LED NF2x757G
 FWHM / FWTM 25.0° / 52.0°
 Efficiency 88 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219F
 FWHM / FWTM 26.0° / 52.0°
 Efficiency 90 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

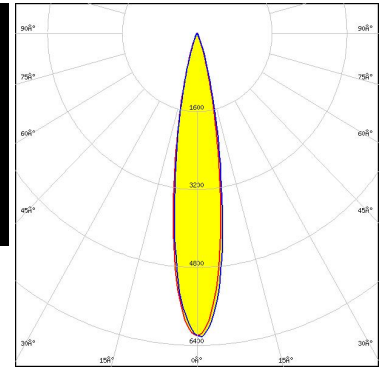


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

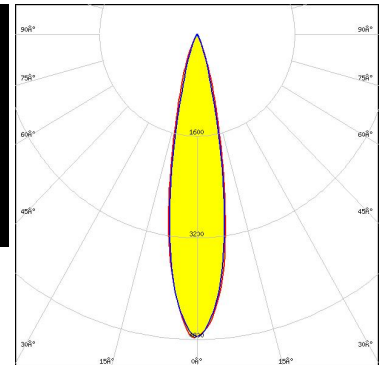
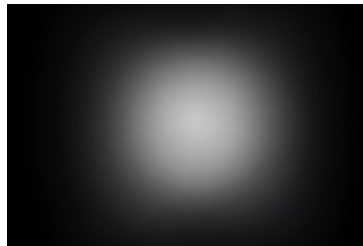
LED OSCONIQ C 2424
FWHM / FWTM 18.0° / 35.0°
Efficiency 88 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

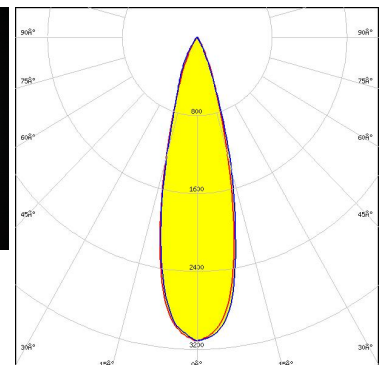
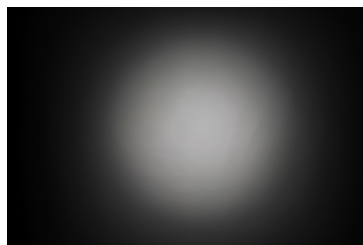
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 21.0° / 40.0°
Efficiency 88 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

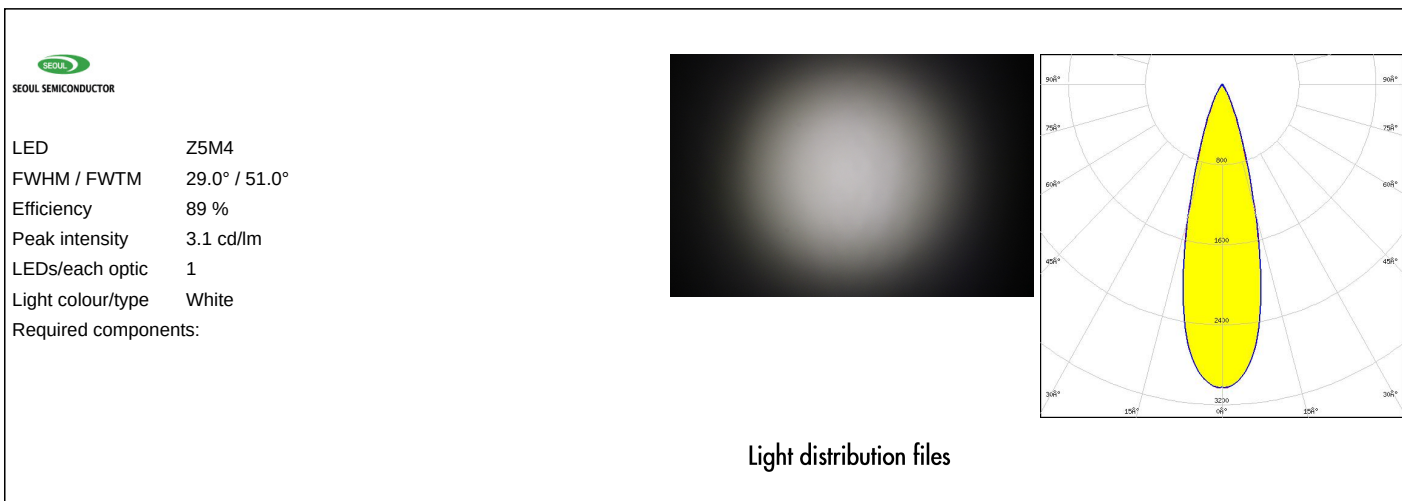
SAMSUNG

LED LH351C
FWHM / FWTM 28.0° / 51.0°
Efficiency 90 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (SIMULATED):

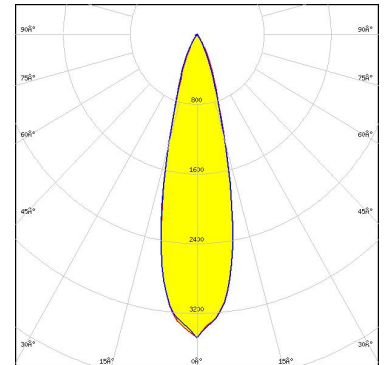


LED CSP 2323 (BXCP)
 FWHM / FWTM 18.0° / 40.0°
 Efficiency 81 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



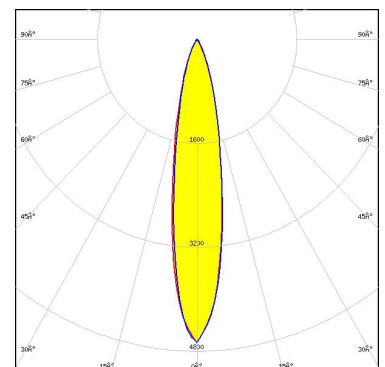
LED SMD 3535 BXEX
 FWHM / FWTM 26.0° / 51.0°
 Efficiency 90 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED J Series 2835
 FWHM / FWTM 19.0° / 44.0°
 Efficiency 88 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

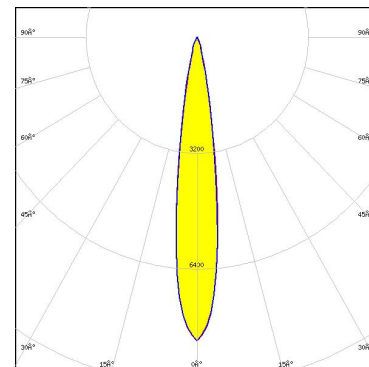


Light distribution files

OPTICAL RESULTS (SIMULATED):



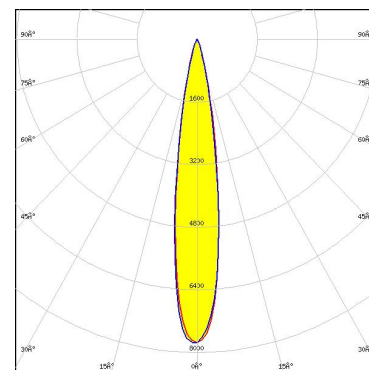
LED XE-G
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 89 %
 Peak intensity 8.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



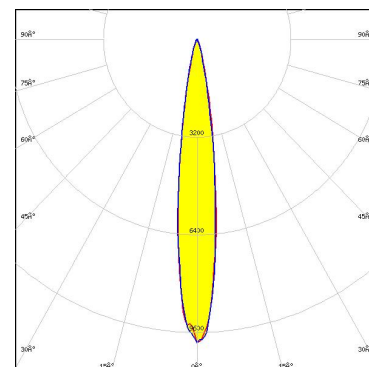
LED XP-E
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 91 %
 Peak intensity 7.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-E2
 FWHM / FWTM 14.3° / 29.0°
 Efficiency 89 %
 Peak intensity 9.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

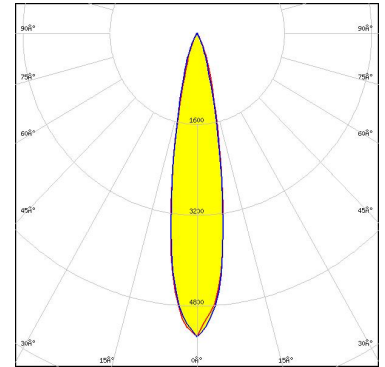


Light distribution files

OPTICAL RESULTS (SIMULATED):



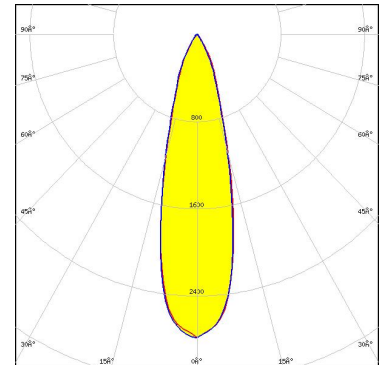
LED XP-G2
 FWHM / FWTM 20.0° / 40.0°
 Efficiency 89 %
 Peak intensity 5.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



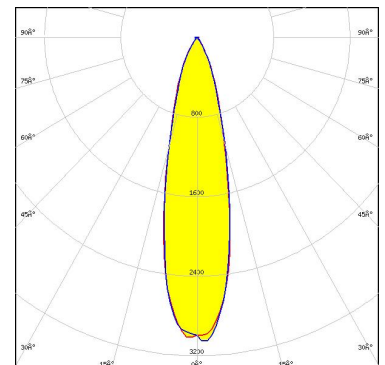
LED XP-G2 HE
 FWHM / FWTM 27.0° / 57.0°
 Efficiency 86 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G3
 FWHM / FWTM 26.0° / 54.0°
 Efficiency 86 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

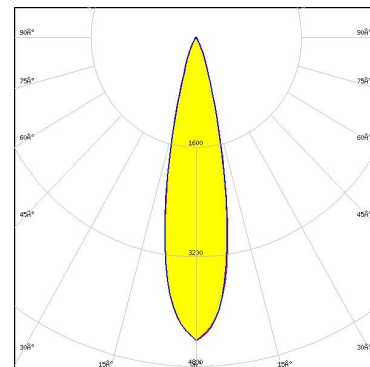


Light distribution files

OPTICAL RESULTS (SIMULATED):



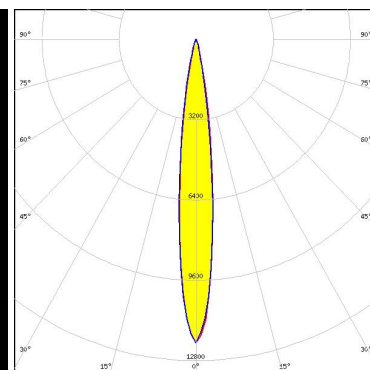
LED XP-G4
 FWHM / FWTM 24.0° / 42.0°
 Efficiency 90 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



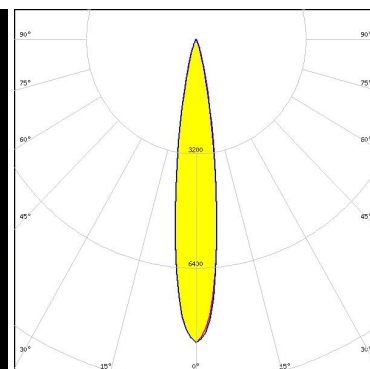
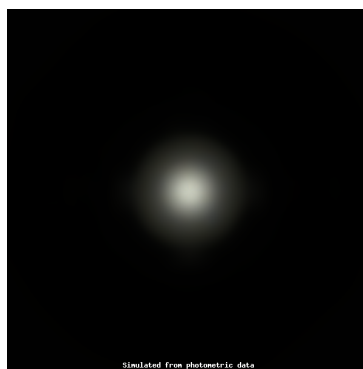
LED XP-GR
 FWHM / FWTM 13.0 + 14.0° / 26.0°
 Efficiency 91 %
 Peak intensity 12.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-LR
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 91 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

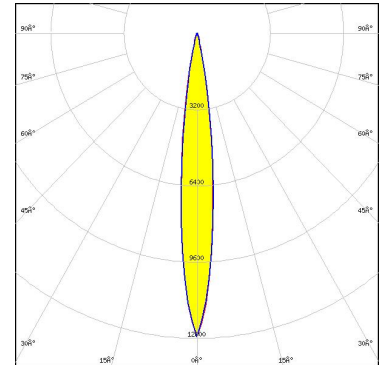


Light distribution files

OPTICAL RESULTS (SIMULATED):



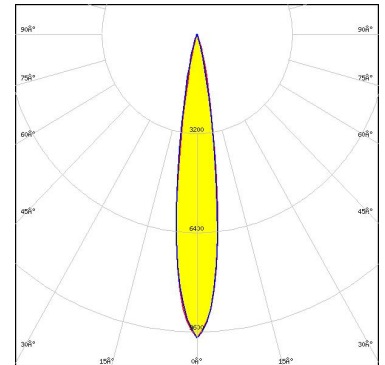
LED XP-P
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 97 %
 Peak intensity 12.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



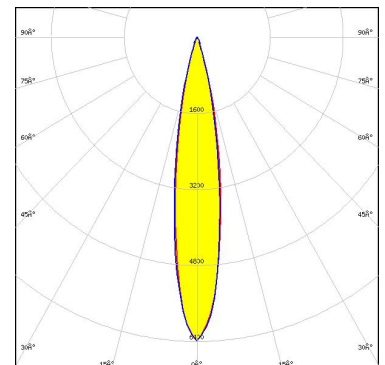
LED XQ-E HD
 FWHM / FWTM 16.0° / 29.0°
 Efficiency 89 %
 Peak intensity 9.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XQ-E HI
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 82 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

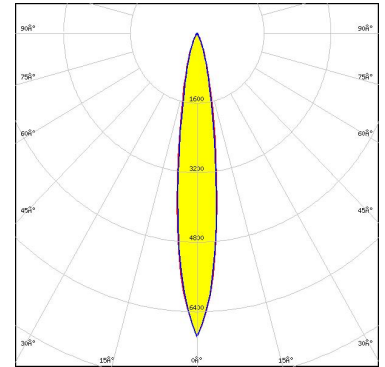


Light distribution files

OPTICAL RESULTS (SIMULATED):



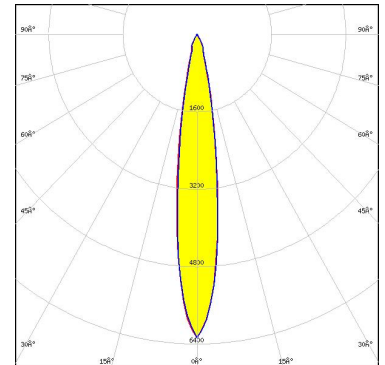
LED LUXEON 2835 Line
 FWHM / FWTM 16.0° / 36.0°
 Efficiency 89 %
 Peak intensity 7 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



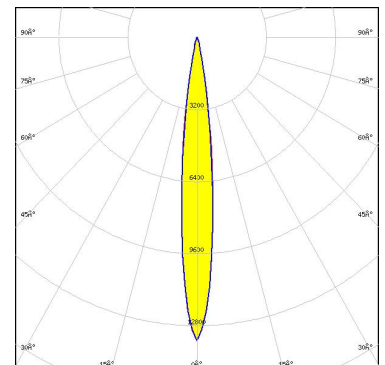
LED LUXEON C
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 78 %
 Peak intensity 6.3 cd/Im
 LEDs/each optic 1
 Light colour/type Red
 Required components:



Light distribution files



LED LUXEON CZ
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 90 %
 Peak intensity 13.5 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

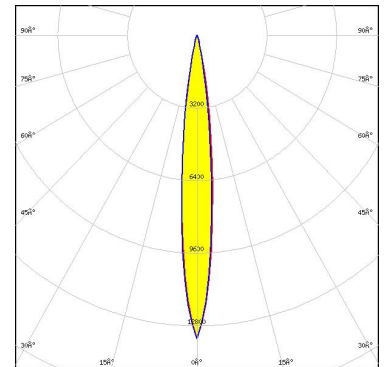


Light distribution files

OPTICAL RESULTS (SIMULATED):



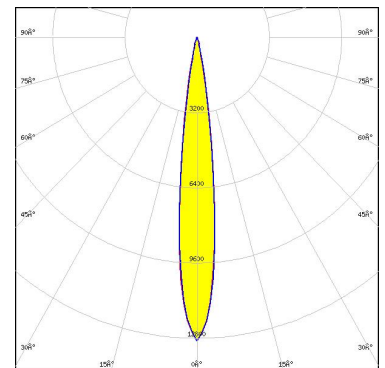
LED LUXEON CZ
FWHM / FWTM 12.0° / 25.0°
Efficiency 90 %
Peak intensity 13.4 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files



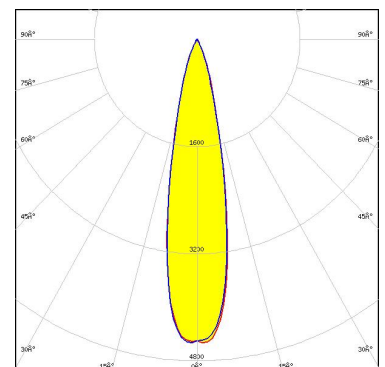
LED LUXEON Rubix
FWHM / FWTM 14.0° / 24.0°
Efficiency 90 %
Peak intensity 12.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON TX
FWHM / FWTM 22.0° / 43.0°
Efficiency 88 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

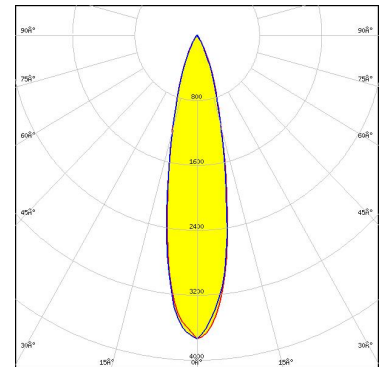


Light distribution files

OPTICAL RESULTS (SIMULATED):



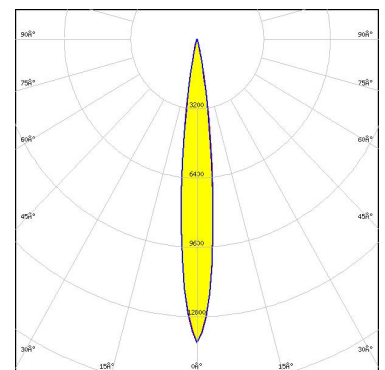
LED LUXEON V2
 FWHM / FWTM 22.0° / 51.0°
 Efficiency 90 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



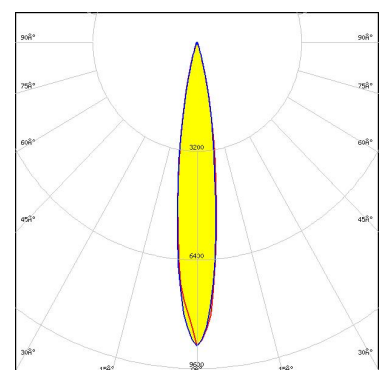
LED LUXEON Z
 FWHM / FWTM 12.0° / 23.0°
 Efficiency 87 %
 Peak intensity 13.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON Z ES
 FWHM / FWTM 15.0° / 30.0°
 Efficiency 88 %
 Peak intensity 9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

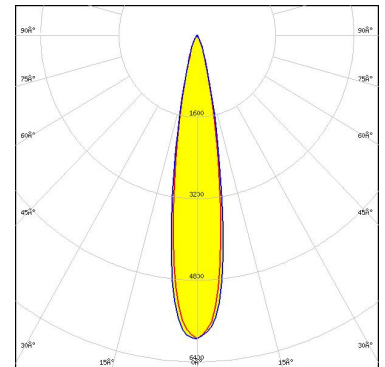


Light distribution files

OPTICAL RESULTS (SIMULATED):



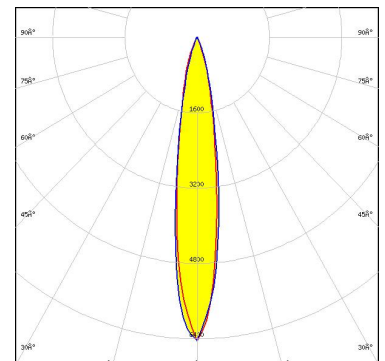
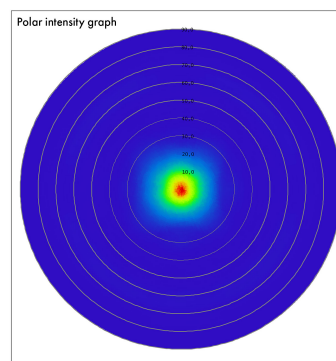
LED SST-10-B130
 FWHM / FWTM 19.0° / 36.0°
 Efficiency 89 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour/type Deep Red
 Required components:



Light distribution files



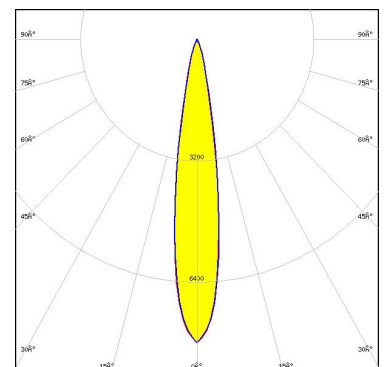
LED SST-10-IR-B90
 FWHM / FWTM 17.0° / 38.0°
 Efficiency 87 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files



LED SST-12 Gen1
 FWHM / FWTM 17.0° / 32.0°
 Efficiency 89 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

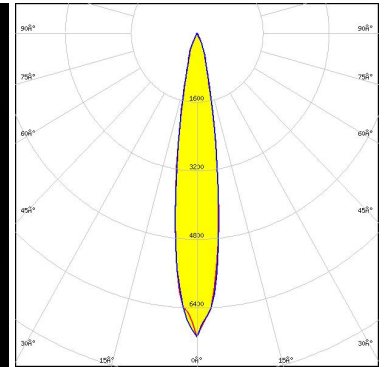
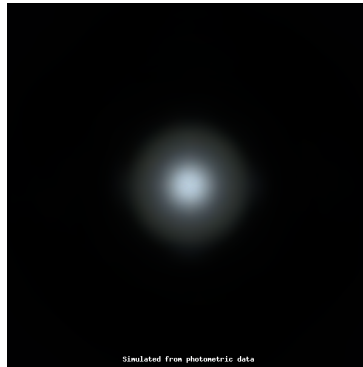


Light distribution files

OPTICAL RESULTS (SIMULATED):



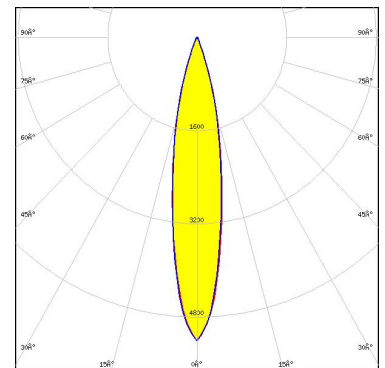
LED SST-12 Gen2
 FWHM / FWTM 16.0° / 35.0 + 36.0°
 Efficiency 89 %
 Peak intensity 7.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



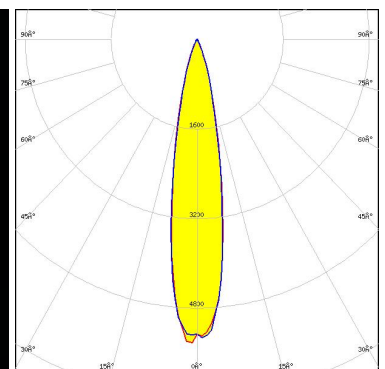
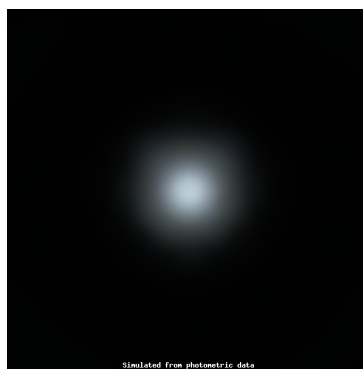
LED SST-20 Gen1
 FWHM / FWTM 20.0° / 40.0°
 Efficiency 86 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-20 Gen2
 FWHM / FWTM 20.0° / 40.0°
 Efficiency 87 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

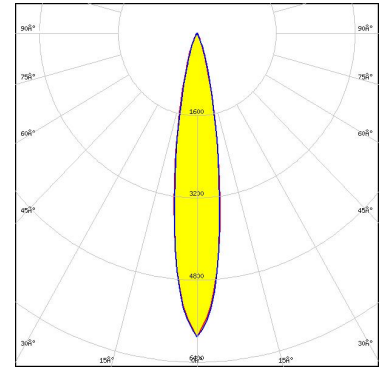


Light distribution files

OPTICAL RESULTS (SIMULATED):



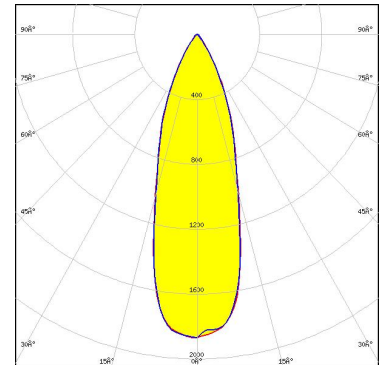
LED NCSxx19B
 FWHM / FWTM 18.0° / 37.0°
 Efficiency 84 %
 Peak intensity 5.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



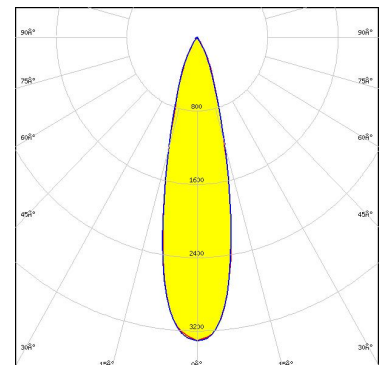
LED NV4WB35AM
 FWHM / FWTM 32.0° / 65.0°
 Efficiency 84 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

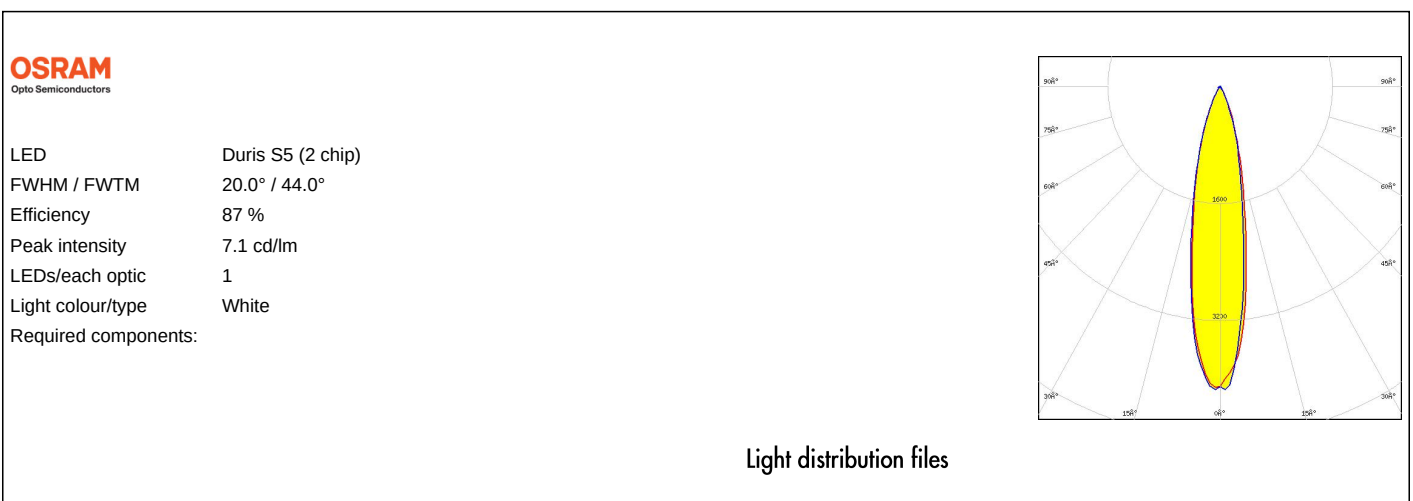
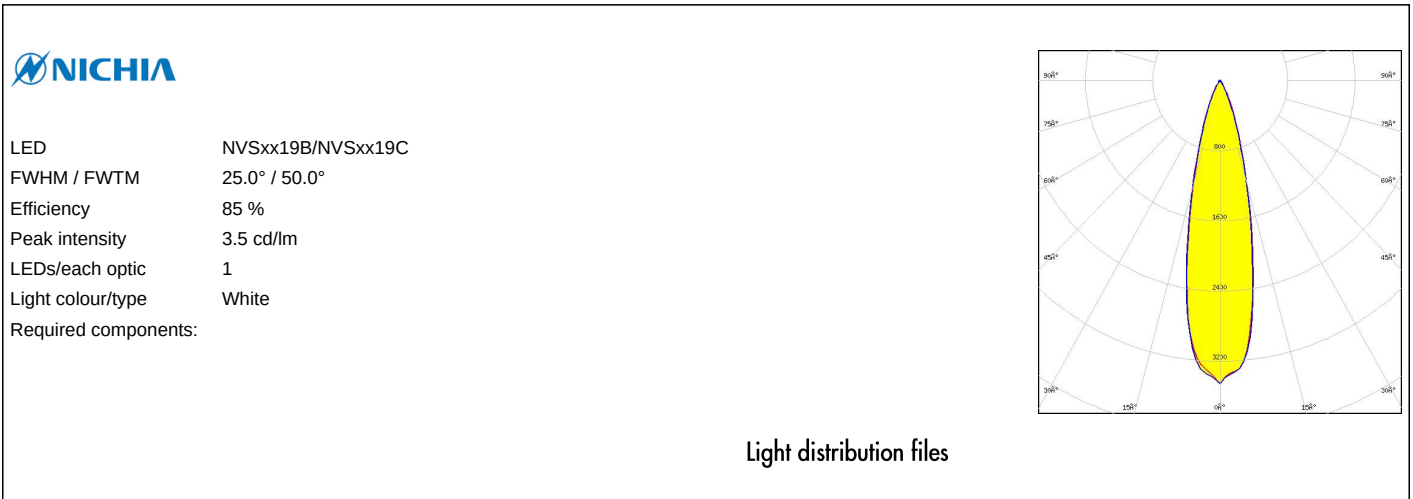


LED NVSW219F
 FWHM / FWTM 26.0° / 52.0°
 Efficiency 88 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

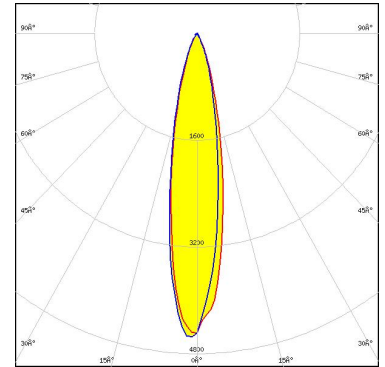
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

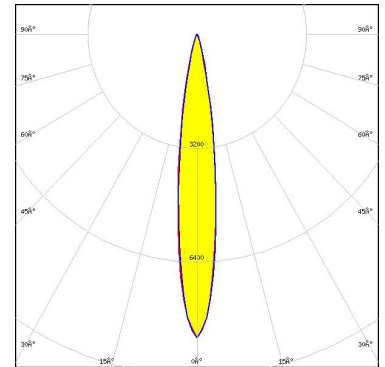
LED Duris S5 (Single chip)
FWHM / FWTM 20.0° / 43.0°
Efficiency 86 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

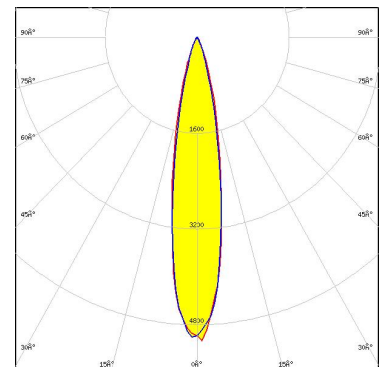
LED OSCONIQ P 3030
FWHM / FWTM 14.0° / 30.0°
Efficiency 86 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (2W version)
FWHM / FWTM 20.0° / 40.0°
Efficiency 88 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

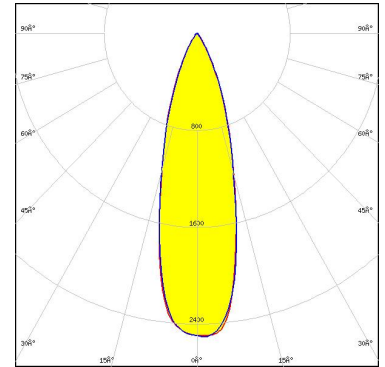


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

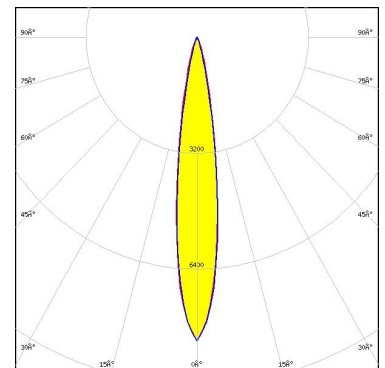
LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 29.0° / 58.0°
Efficiency 88 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

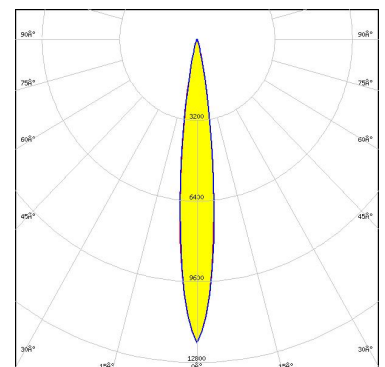
LED OSLO Boost HX (KW CULPM1.TG)
FWHM / FWTM 16.0° / 32.0°
Efficiency 90 %
Peak intensity 8.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLO Pure 1414
FWHM / FWTM 14.0° / 26.0°
Efficiency 90 %
Peak intensity 12 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

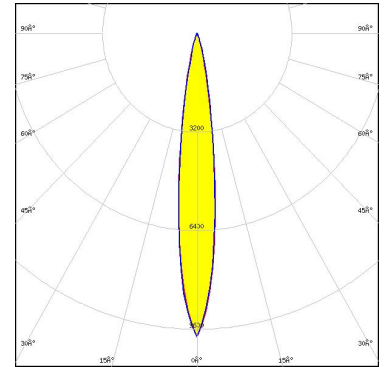


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

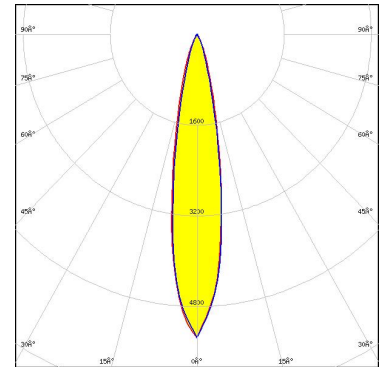
LED OSLON Signal
FWHM / FWTM 14.0° / 29.0°
Efficiency 88 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

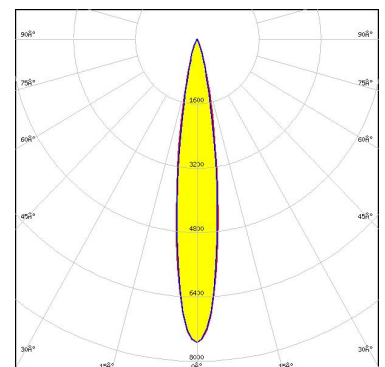
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 19.0° / 40.0°
Efficiency 88 %
Peak intensity 5.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square Flat
FWHM / FWTM 16.0° / 33.0°
Efficiency 89 %
Peak intensity 7.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

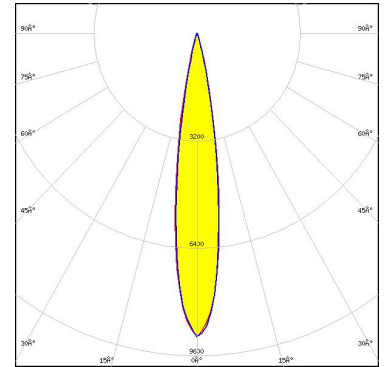


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

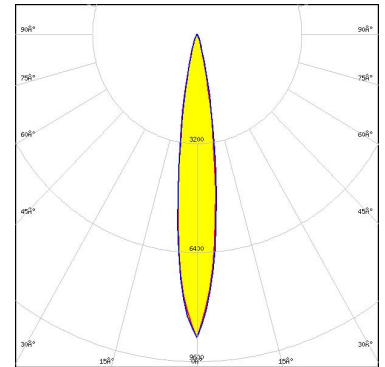
LED OSLON SSL 120
FWHM / FWTM 16.0° / 29.0°
Efficiency 90 %
Peak intensity 9 cd/Im
LEDs/each optic 1
Light colour/type Hyper Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

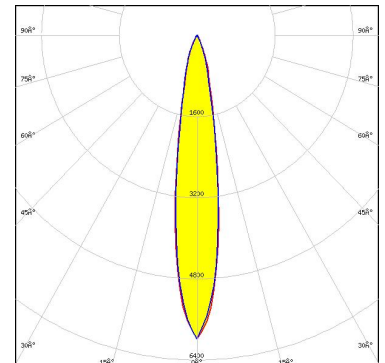
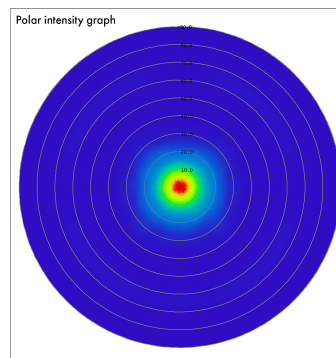
LED OSLON SSL 150
FWHM / FWTM 14.5° / 29.0°
Efficiency 88 %
Peak intensity 8.7 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 17.0° / 40.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type White
Required components:

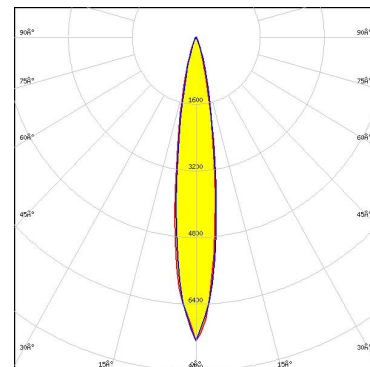


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

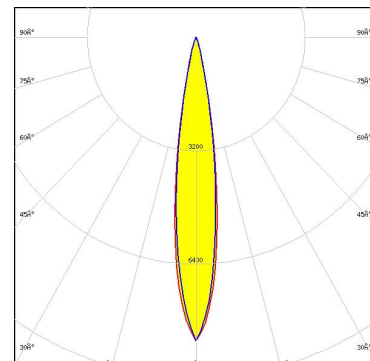
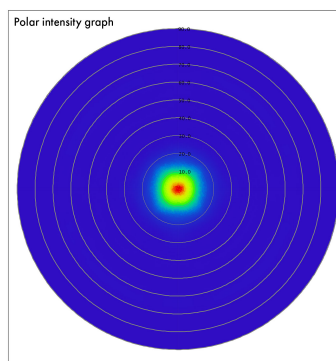
LED OSLON SSL 80
FWHM / FWTM 15.0° / 31.0°
Efficiency 87 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

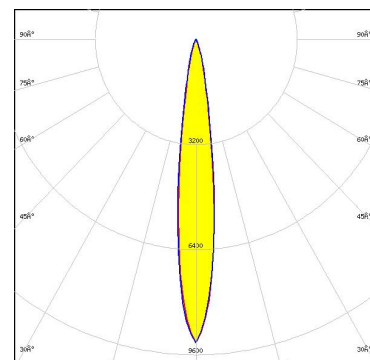
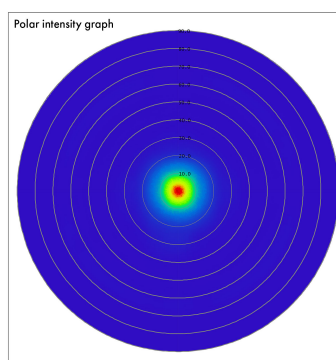
LED SFH 4716S
FWHM / FWTM 16.0° / 29.0°
Efficiency 86 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4770S
FWHM / FWTM 14.0° / 30.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:

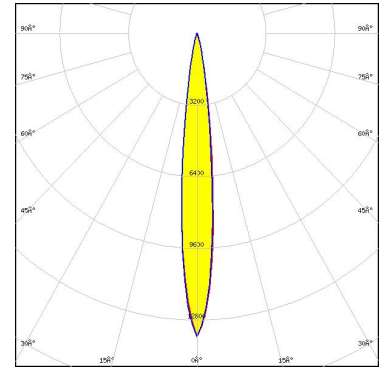


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

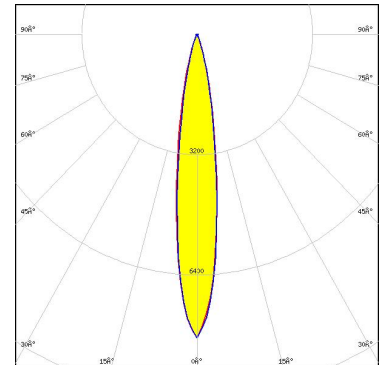
LED Synios P2720 1 mm
FWHM / FWTM 12.0° / 24.0°
Efficiency 88 %
Peak intensity 13.6 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

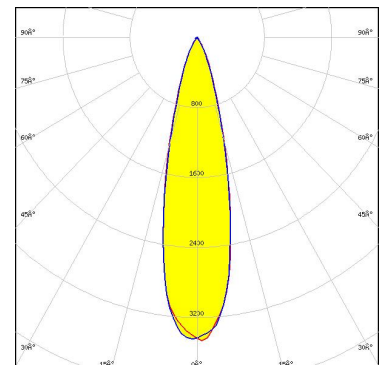
LED SYNIOS S2222
FWHM / FWTM 16.0° / 34.0° + 32.0°
Efficiency 97 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351B
FWHM / FWTM 26.0° / 49.0°
Efficiency 88 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

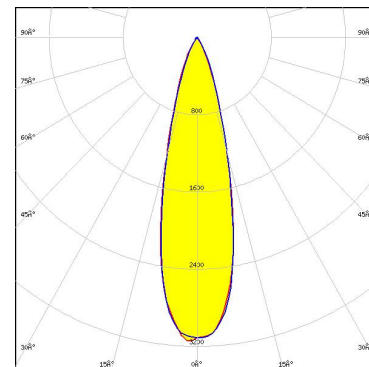


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

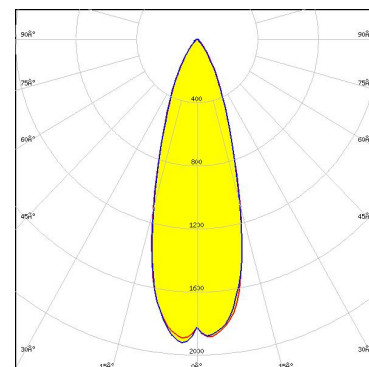
LED LH351C
 FWHM / FWTM 26.0° / 51.0°
 Efficiency 87 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

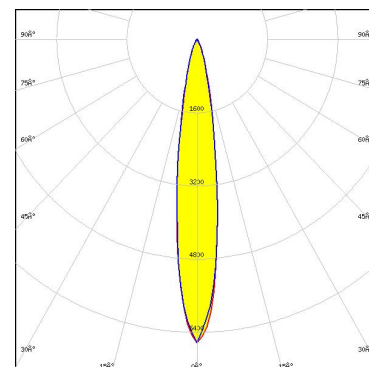
LED LH351D
 FWHM / FWTM 34.0° / 66.0°
 Efficiency 85 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LM301A
 FWHM / FWTM 14.5° / 33.0°
 Efficiency 87 %
 Peak intensity 7.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

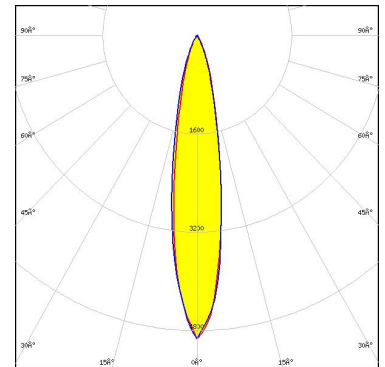


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

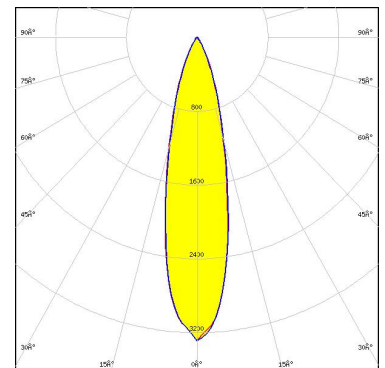
LED LM302A
FWHM / FWTM 16.0° / 40.0°
Efficiency 87 %
Peak intensity 5.3 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



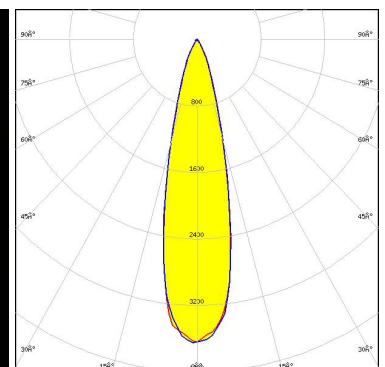
LED Z5M3
FWHM / FWTM 24.0° / 51.0°
Efficiency 86 %
Peak intensity 3.3 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Z5M3-E1
FWHM / FWTM 24.0° / 48.0°
Efficiency 90 %
Peak intensity 3.7 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:

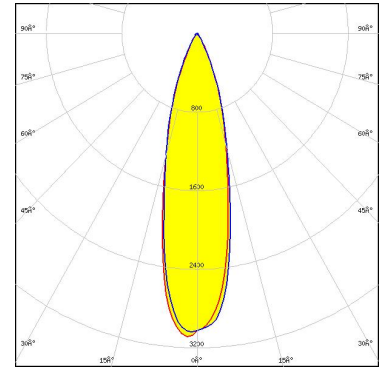


Light distribution files

OPTICAL RESULTS (SIMULATED):



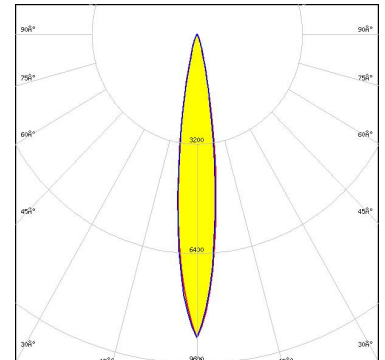
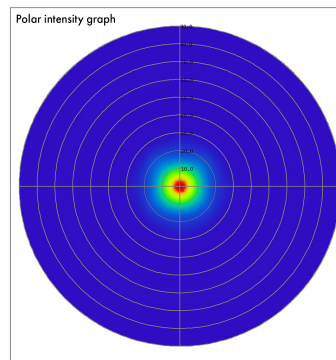
LED Z5M4
FWHM / FWTM 26.0° / 53.0°
Efficiency 88 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



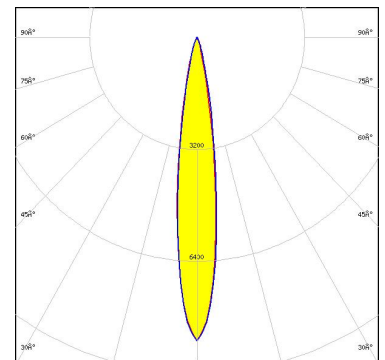
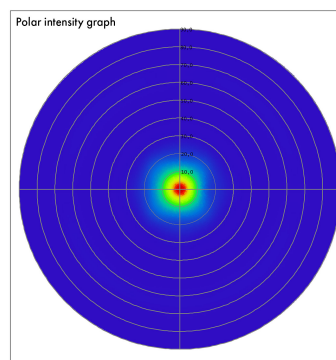
LED MGN1108MS
FWHM / FWTM 15.0° / 30.0°
Efficiency 89 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files



LED MJN1108MS
FWHM / FWTM 15.0° / 31.0°
Efficiency 90 %
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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