

LEILA-Y-RS

~10° spot beam. 14.8 mm high assembly with holder, installation tape and pins.

SPECIFICATION:

Dimensions	Ø 21.6
Height	14.8 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

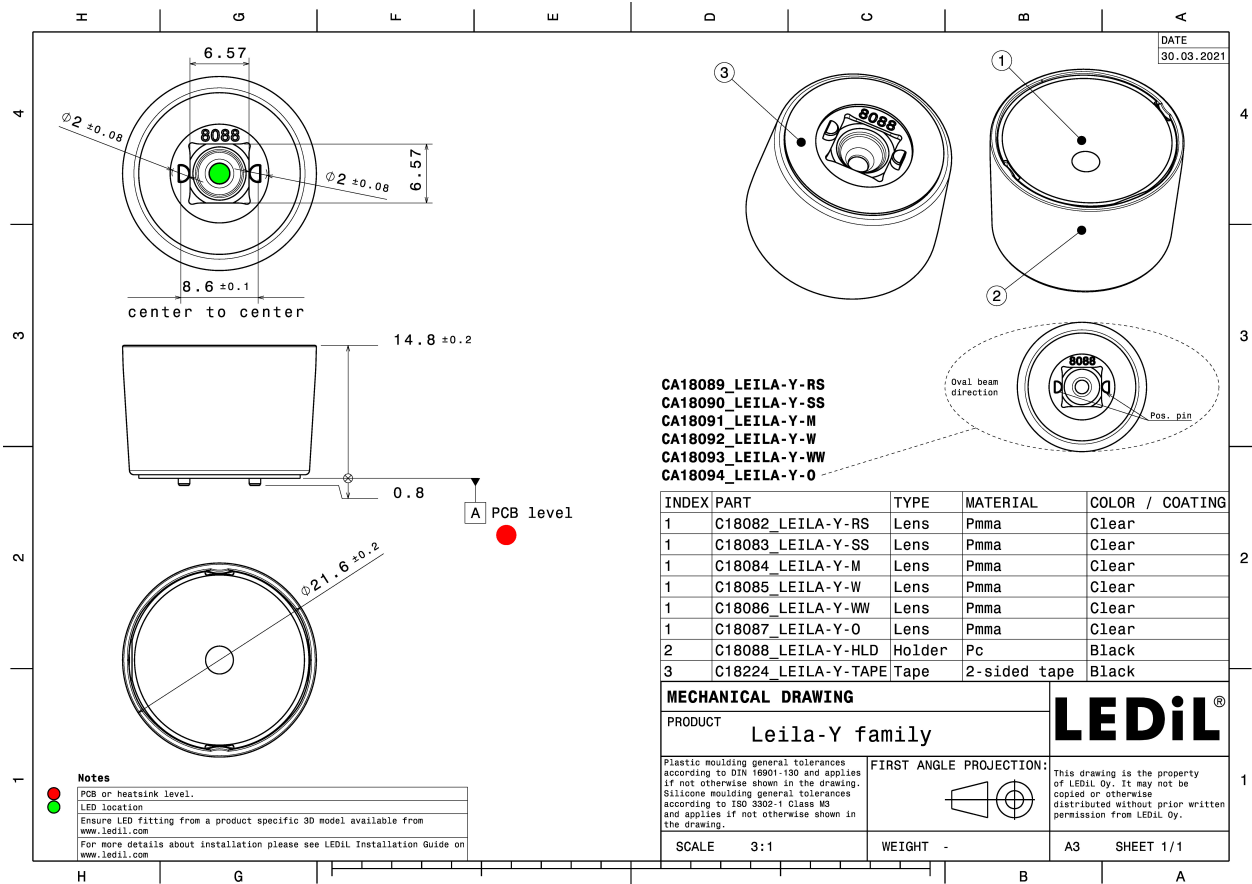


MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LEILA-Y-RS	Single lens	PMMA	clear	gloss	
LEILA-Y-HLD	Holder	PC	black	gloss	
LEILA-Y-TAPE	Tape	Acryl tape			

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18089_LEILA-Y-RS	1800	180	180	7.6
» Box size: 476 x 273 x 197 mm				

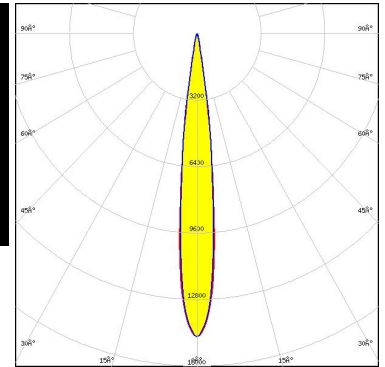
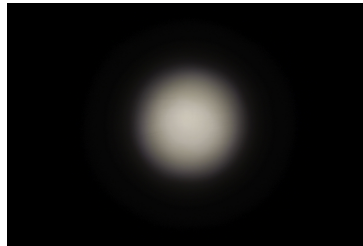


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



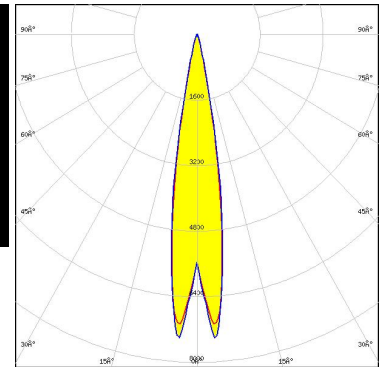
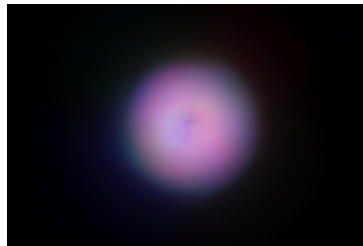
LED XP-G4
 FWHM / FWTM 13.0° / 21.0°
 Efficiency 87 %
 Peak intensity 14.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



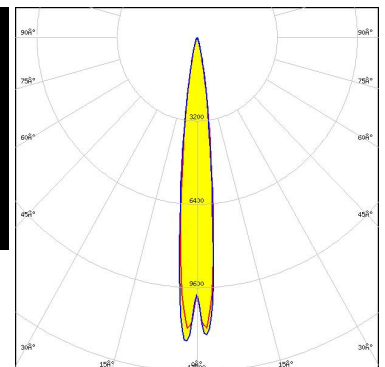
LED XP-L RGBW HD
 FWHM / FWTM 18.0° / 28.0°
 Efficiency 82 %
 Peak intensity 7.8 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



LED XP-L RGBW HI
 FWHM / FWTM 13.0° / 24.0°
 Efficiency 81 %
 Peak intensity 11.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

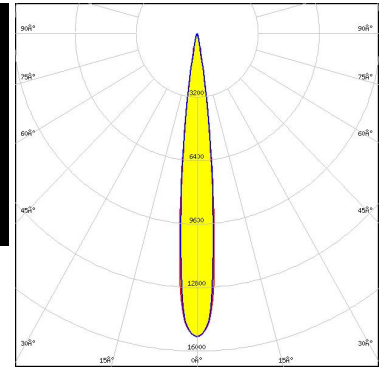
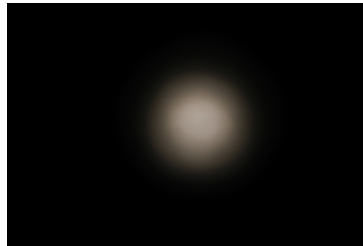


Light distribution files

OPTICAL RESULTS (MEASURED):



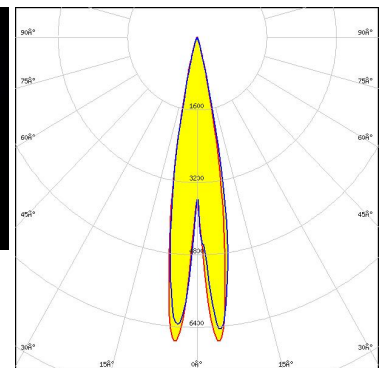
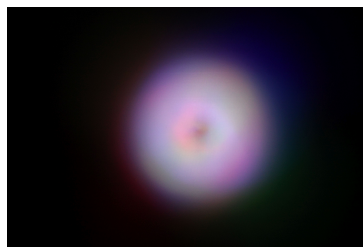
LED NVSW719AC
 FWHM / FWTM 12.0° / 21.0°
 Efficiency 87 %
 Peak intensity 15.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



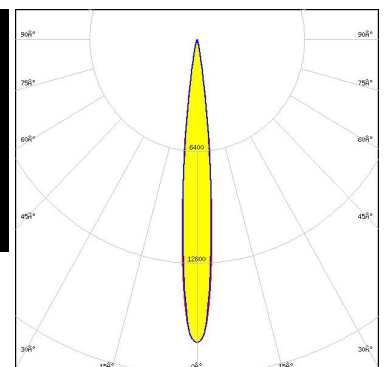
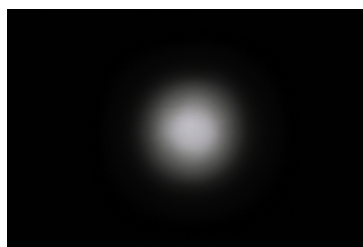
LED OSLO Pure 1414
 FWHM / FWTM 19.0° / 29.0°
 Efficiency 82 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 4
 Light colour/type RGBW
 Required components:



Light distribution files



LED OSLO Square CSSRM2/CSSRM3
 FWHM / FWTM 11.0° / 20.0°
 Efficiency 87 %
 Peak intensity 17.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

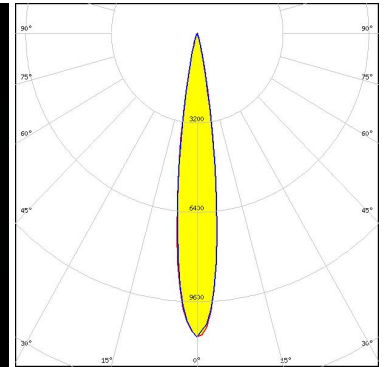


Light distribution files

OPTICAL RESULTS (SIMULATED):



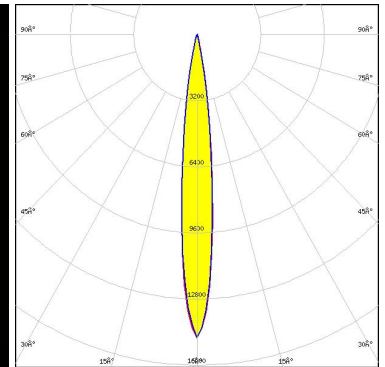
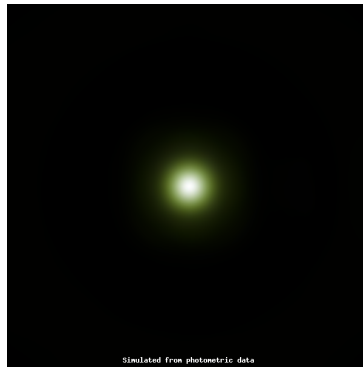
LED Bridgelux SMD 3535 (3B1)
 FWHM / FWTM 15.0° / 26.0°
 Efficiency 88 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



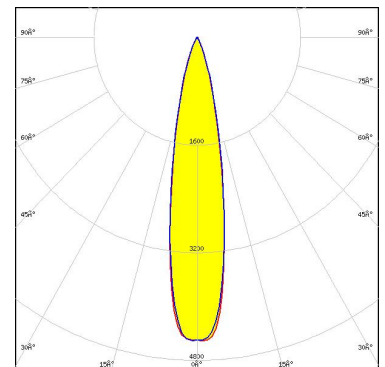
LED J Series 3030C
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 88 %
 Peak intensity 14.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED J Series 5050B 6V K Class
 FWHM / FWTM 20.0° / 41.0°
 Efficiency 79 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

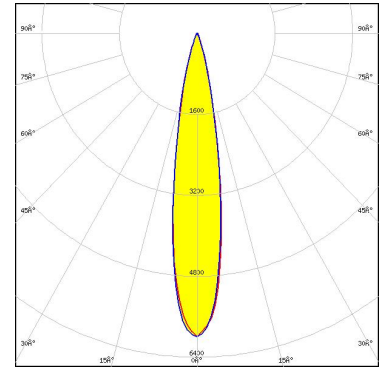


Light distribution files

OPTICAL RESULTS (SIMULATED):



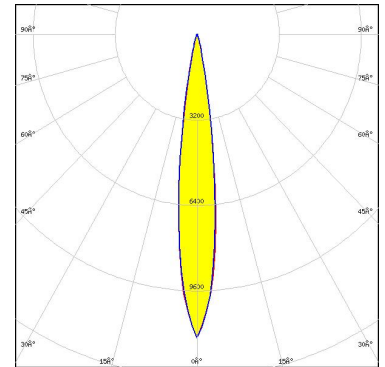
LED XHP35 HD
FWHM / FWTM 18.0° / 35.0°
Efficiency 79 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



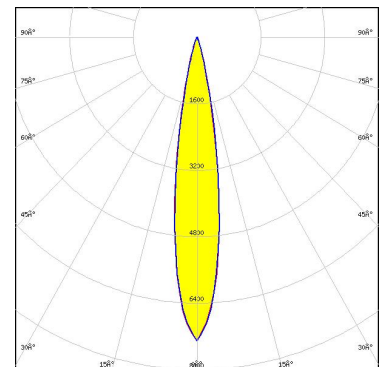
LED XHP35 HI
FWHM / FWTM 14.0° / 26.0°
Efficiency 87 %
Peak intensity 11.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XHP35.2 HI
FWHM / FWTM 18.0° / 32.0°
Efficiency 83 %
Peak intensity 7.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

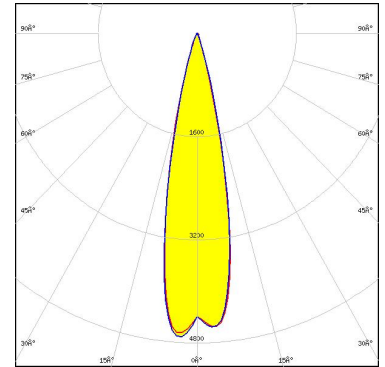


Light distribution files

OPTICAL RESULTS (SIMULATED):



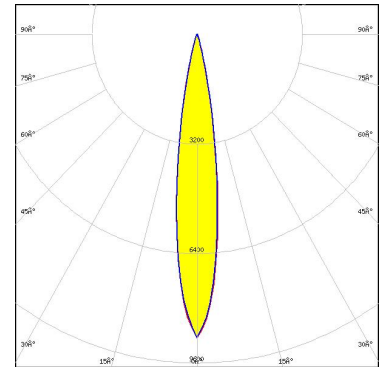
LED XM-L RGBW (XMLDCL HD)
 FWHM / FWTM 22.0° / 36.0°
 Efficiency 80 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



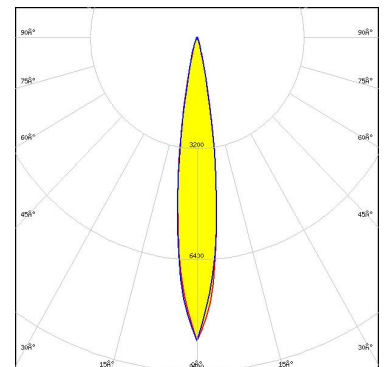
LED XM-L2
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 85 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XM-L3
 FWHM / FWTM 15.0° / 29.0°
 Efficiency 80 %
 Peak intensity 8.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

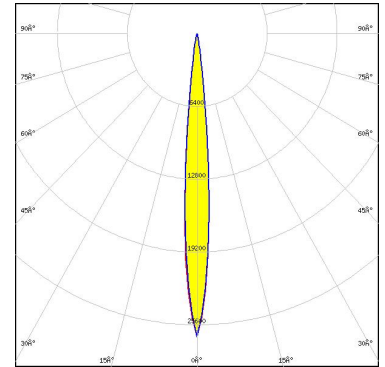


Light distribution files

OPTICAL RESULTS (SIMULATED):



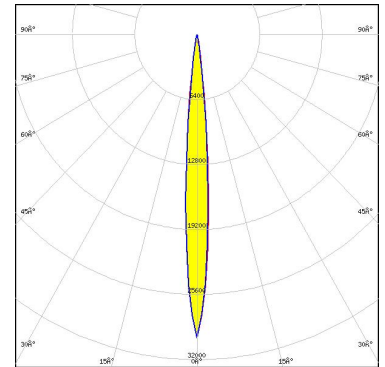
LED XP-E
FWHM / FWTM 10.0° / 18.0°
Efficiency 90 %
Peak intensity 26.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



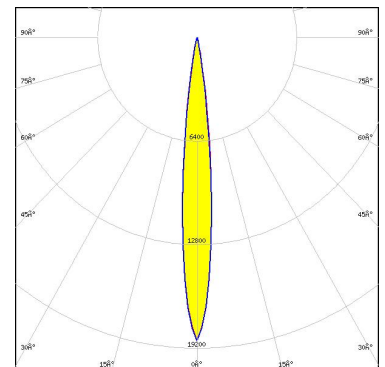
LED XP-E2
FWHM / FWTM 9.0° / 18.0°
Efficiency 91 %
Peak intensity 30 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G2
FWHM / FWTM 11.0° / 21.0°
Efficiency 90 %
Peak intensity 19 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

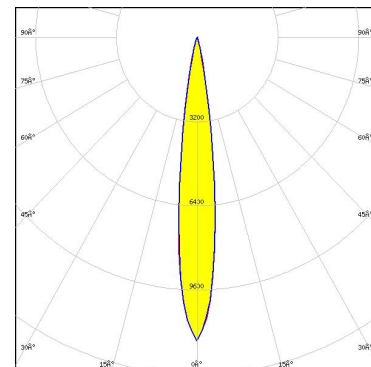


Light distribution files

OPTICAL RESULTS (SIMULATED):



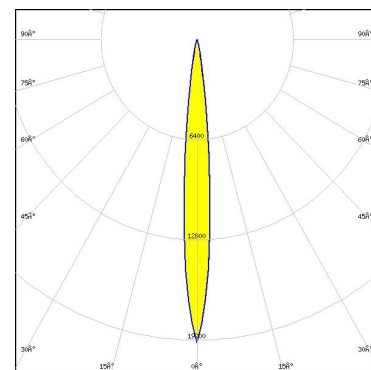
LED XP-G3
 FWHM / FWTM 13.9° / 25.4°
 Efficiency 85 %
 Peak intensity 11.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



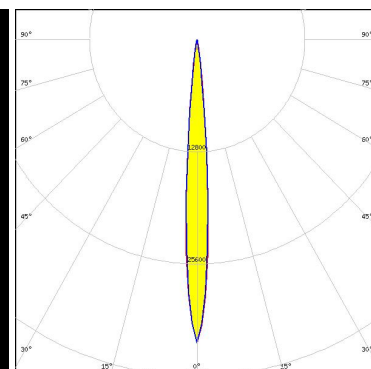
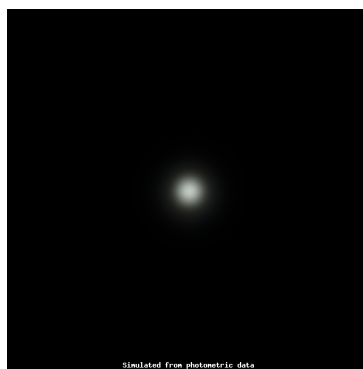
LED XP-G4 HI
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 88 %
 Peak intensity 19.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-GR
 FWHM / FWTM 8.0° / 16.0°
 Efficiency 92 %
 Peak intensity 34.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

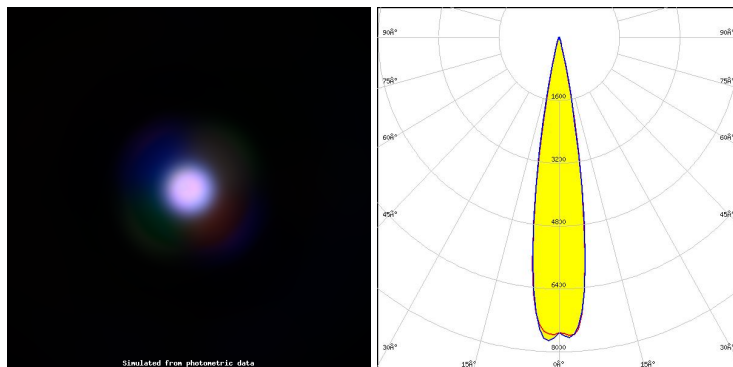


Light distribution files

OPTICAL RESULTS (SIMULATED):



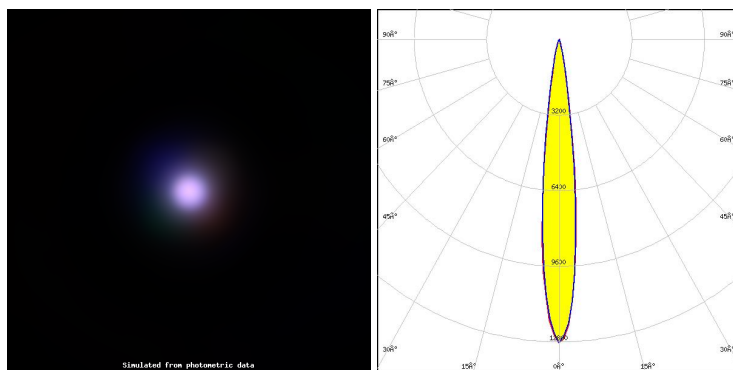
LED XP-L RGBW HD
 FWHM / FWTM 18.0° / 28.0°
 Efficiency 84 %
 Peak intensity 7.9 cd/Im
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



LED XP-L RGBW HI
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 85 %
 Peak intensity 12.8 cd/Im
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



LED XP-L2
 FWHM / FWTM 18.0° / 32.0°
 Efficiency 80 %
 Peak intensity 6.7 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

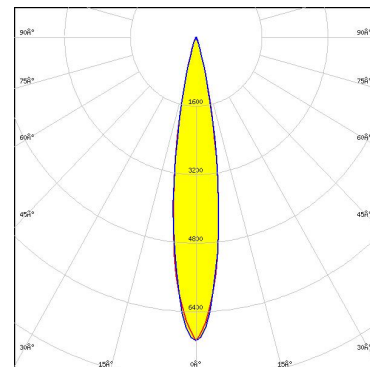
Light distribution files

OPTICAL RESULTS (SIMULATED):



LED	XP-L2
FWHM / FWTM	18.0° / 32.0°
Efficiency	81 %
Peak intensity	7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Required components:

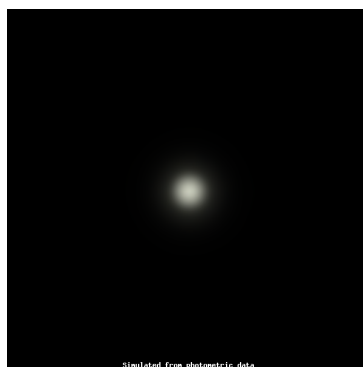


Light distribution files

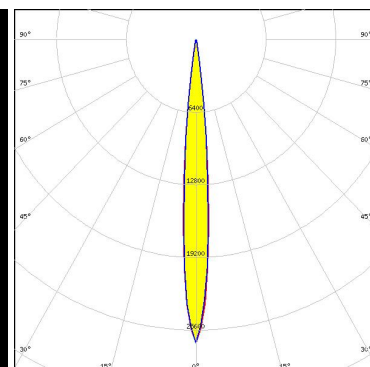


LED	XP-LR
FWHM / FWTM	10.0° / 18.0°
Efficiency	91 %
Peak intensity	26.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Required components:

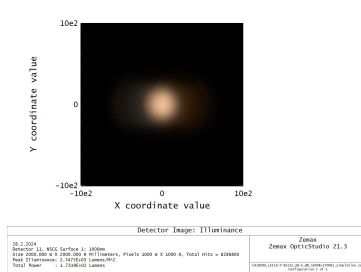


Light distribution files

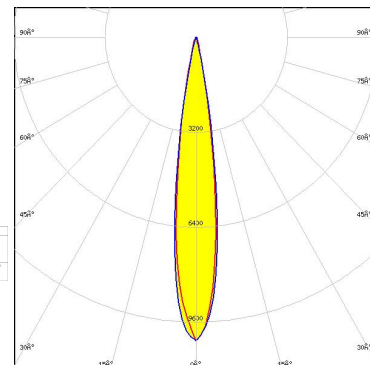


LED	XQ-E HD
FWHM / FWTM	14.0 + 16.0° / 27.0 + 26.0°
Efficiency	87 %
Peak intensity	10.2 cd/lm
LEDs/each optic	2
Light colour/type	White
Required components:	

Required components:



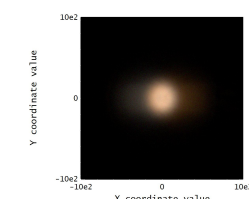
Light distribution files



OPTICAL RESULTS (SIMULATED):

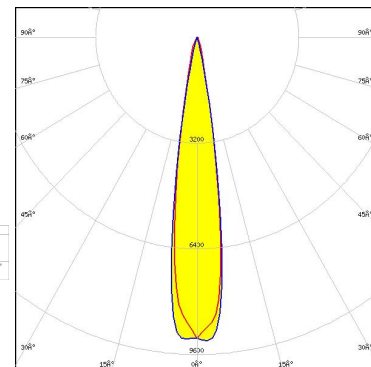


LED XQ-E HI
FWHM / FWTM 16.0 + 18.0° / 29.0 + 26.0°
Efficiency 88 %
Peak intensity 9.2 cd/lm
LEDs/each optic 2
Light colour/type White
Required components:



Detector Image: Illuminance

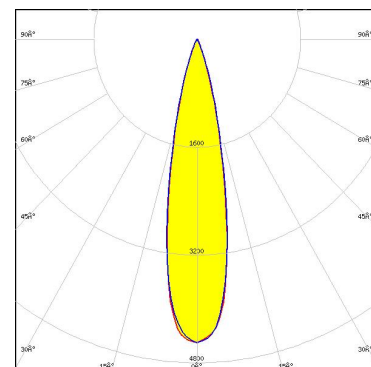
20.2.2024
Zemax OptiStudio 21.3



Light distribution files



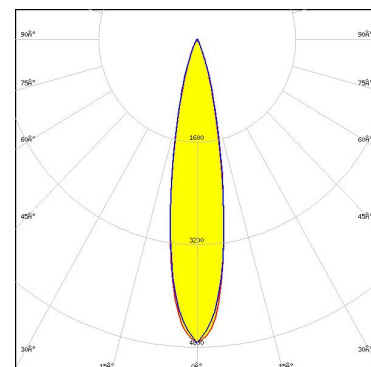
LED LUXEON 5050 Round LES
FWHM / FWTM 22.0° / 40.0°
Efficiency 81 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON 5050 Square LES
FWHM / FWTM 20.0° / 40.0°
Efficiency 81 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

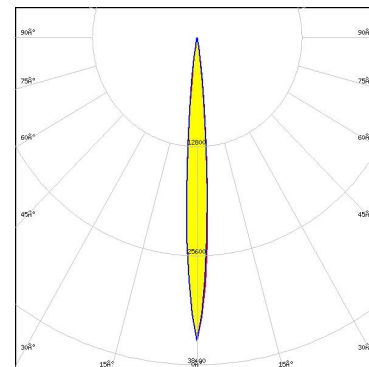


Light distribution files

OPTICAL RESULTS (SIMULATED):



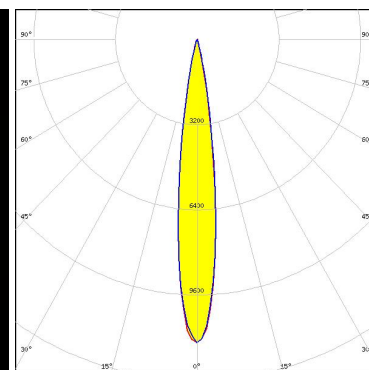
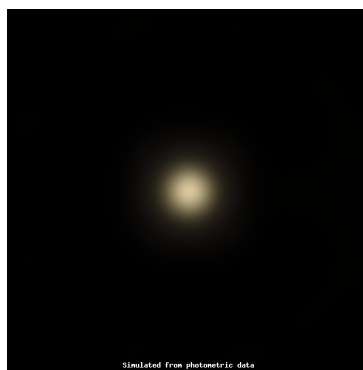
LED LUXEON CZ
FWHM / FWTM 8.0° / 16.0°
Efficiency 91 %
Peak intensity 35.6 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



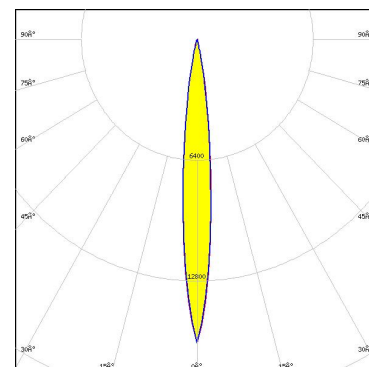
LED LUXEON HL2X-V
FWHM / FWTM 14.0° / 26.0°
Efficiency 88 %
Peak intensity 11.4 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON HL2Z
FWHM / FWTM 11.0° / 24.0°
Efficiency 87 %
Peak intensity 16.1 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:

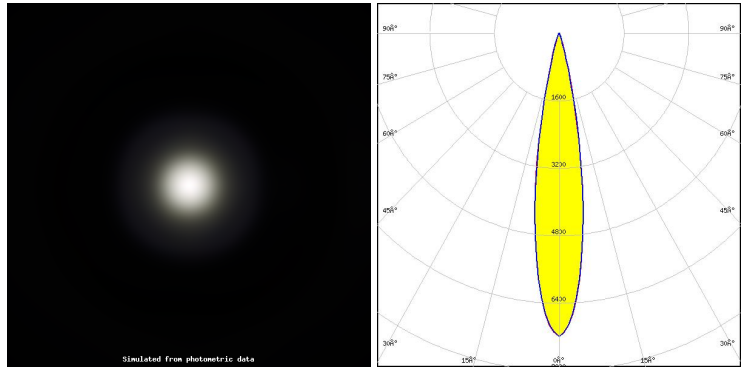


Light distribution files

OPTICAL RESULTS (SIMULATED):



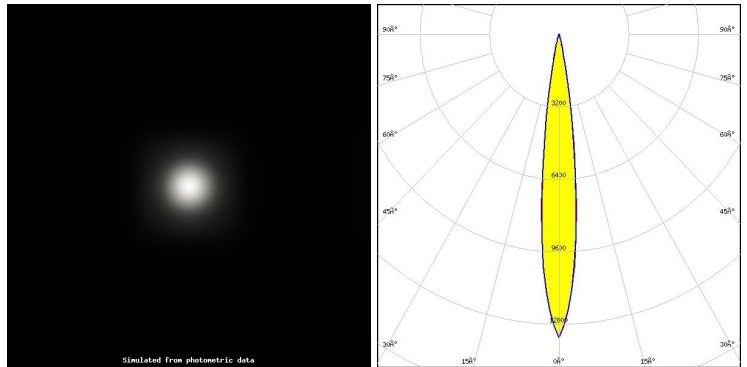
LED LUXEON HL4X
 FWHM / FWTM 18.0° / 32.0°
 Efficiency 85 %
 Peak intensity 7.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



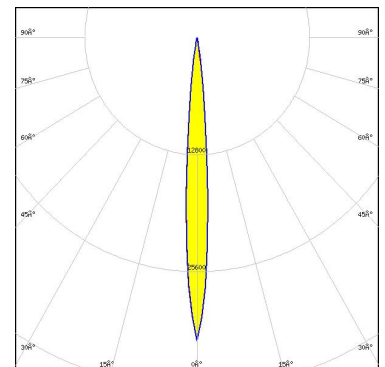
LED LUXEON HL4Z
 FWHM / FWTM 14.0° / 24.0°
 Efficiency 89 %
 Peak intensity 13.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON Rubix
 FWHM / FWTM 8.0° / 16.0°
 Efficiency 92 %
 Peak intensity 33.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

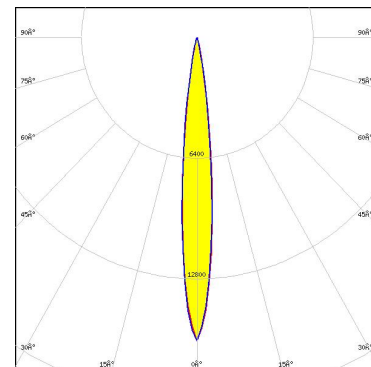


Light distribution files

OPTICAL RESULTS (SIMULATED):



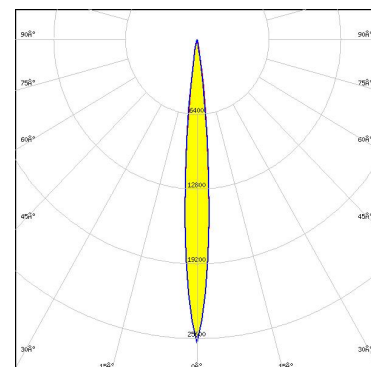
LED LUXEON TX
FWHM / FWTM 12.0° / 23.0°
Efficiency 88 %
Peak intensity 16 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



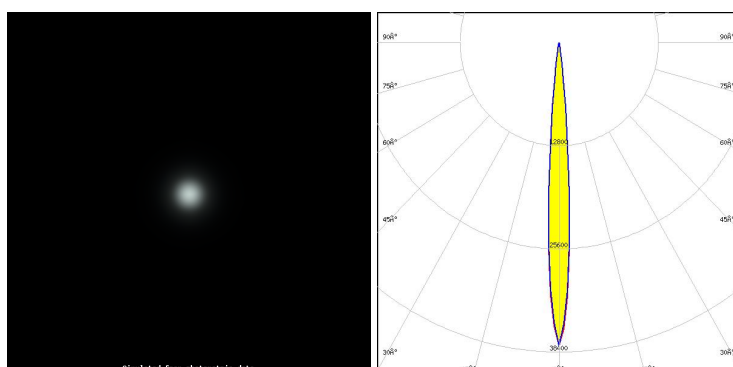
LED LUXEON Z ES
FWHM / FWTM 10.0° / 18.0°
Efficiency 90 %
Peak intensity 26 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED SFT-12R-W-A
FWHM / FWTM 8.0° / 14.0°
Efficiency 91 %
Peak intensity 37.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

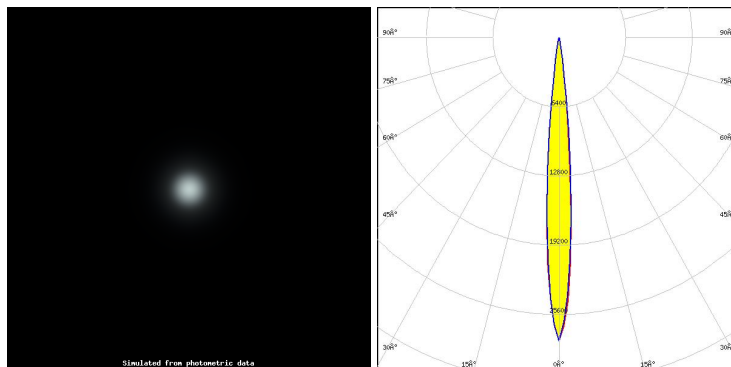


Light distribution files

OPTICAL RESULTS (SIMULATED):



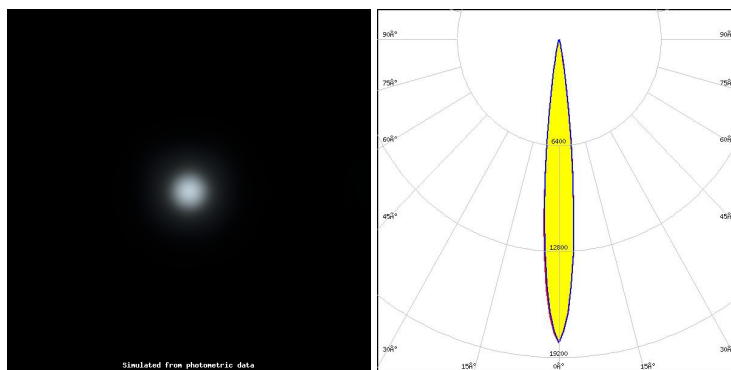
LED SFT-25R-W-A
 FWHM / FWTM 10.0° / 16.0 + 18.0°
 Efficiency 91 %
 Peak intensity 28.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



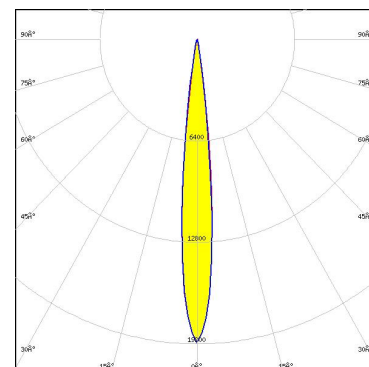
LED SST-20 Gen2
 FWHM / FWTM 12.0° / 20.0°
 Efficiency 89 %
 Peak intensity 18.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-20 Gen2
 FWHM / FWTM 12.0° / 20.0°
 Efficiency 89 %
 Peak intensity 19.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

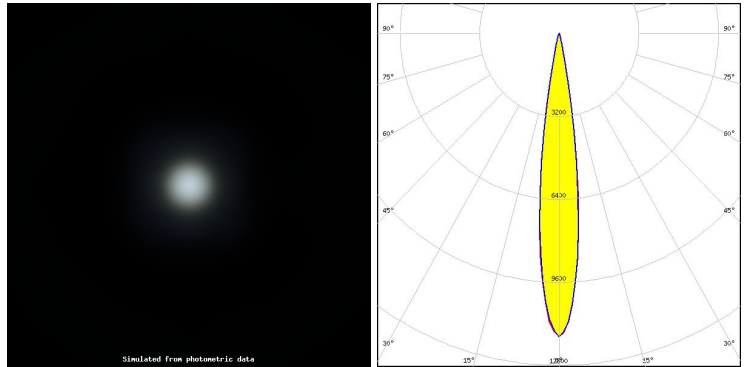


Light distribution files

OPTICAL RESULTS (SIMULATED):



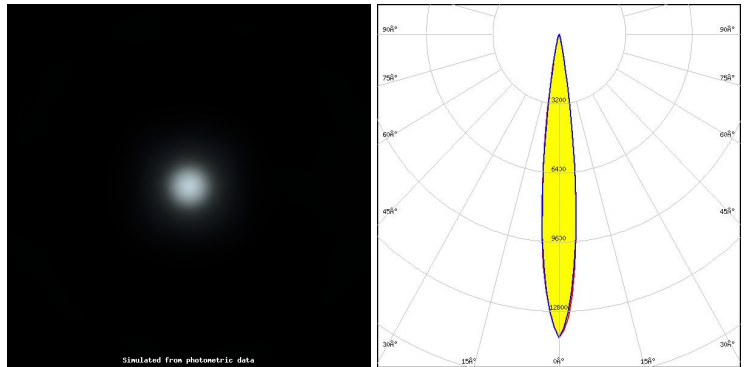
LED SST-20F-W
 FWHM / FWTM 14.0° / 24.0°
 Efficiency 88 %
 Peak intensity 11.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



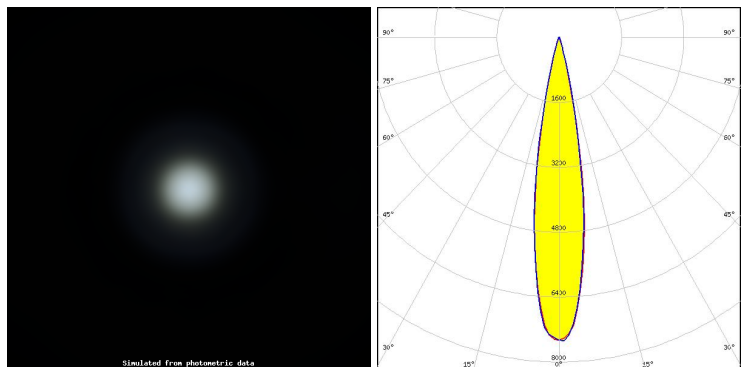
LED SST-25-W
 FWHM / FWTM 14.0 + 12.0° / 22.0°
 Efficiency 87 %
 Peak intensity 14 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-36F-W
 FWHM / FWTM 19.0 + 18.0° / 30.0°
 Efficiency 85 %
 Peak intensity 7.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

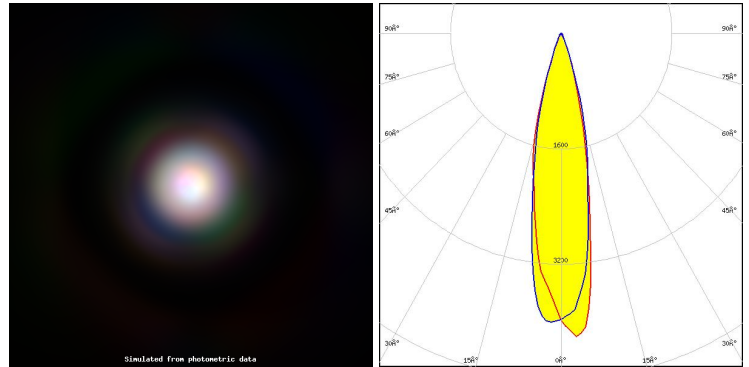


Light distribution files

OPTICAL RESULTS (SIMULATED):



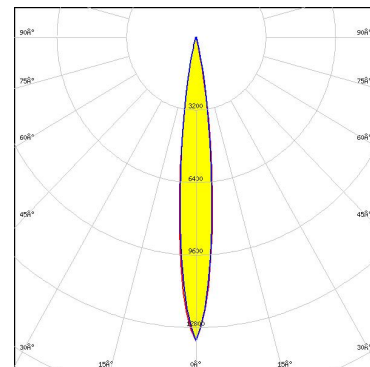
LED NCSxE17A
FWHM / FWTM 22.0° / 41.0°
Efficiency 79 %
Peak intensity 4.3 cd/lm
LEDs/each optic 4
Light colour/type RGBW
Required components:



OPTICAL RESULTS (SIMULATED):



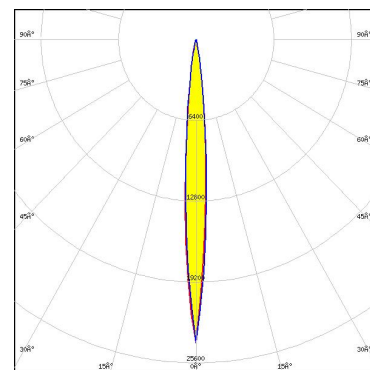
LED NF2x757G
FWHM / FWTM 12.0° / 24.0°
Efficiency 88 %
Peak intensity 13.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



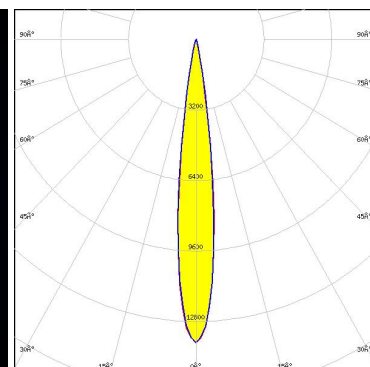
LED NFSx757G
FWHM / FWTM 8.0° / 20.0°
Efficiency 88 %
Peak intensity 24 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSB219GL-L1
FWHM / FWTM 14.0° / 22.0° + 23.0°
Efficiency 88 %
Peak intensity 13.8 cd/lm
LEDs/each optic 1
Light colour/type Blue
Required components:

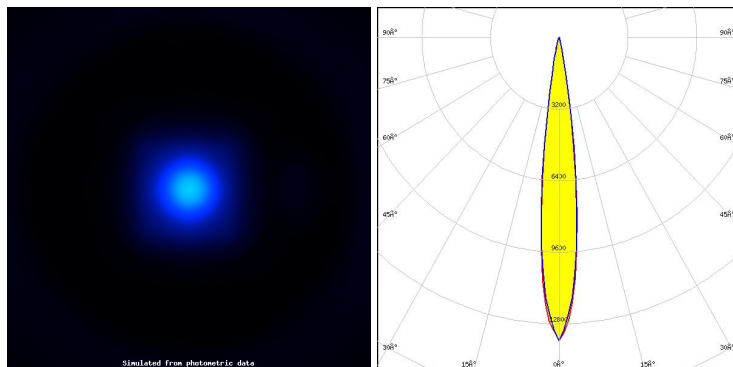


Light distribution files

OPTICAL RESULTS (SIMULATED):



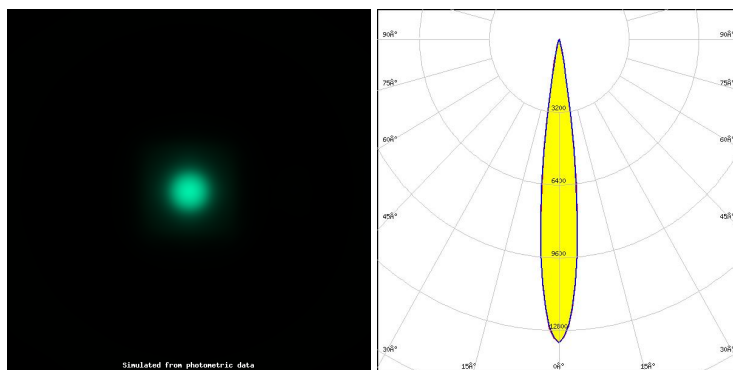
LED NVSC219GL-L1
 FWHM / FWTM 14.0° / 24.0°
 Efficiency 87 %
 Peak intensity 13.6 cd/lm
 LEDs/each optic 1
 Light colour/type Royal Blue
 Required components:



Light distribution files



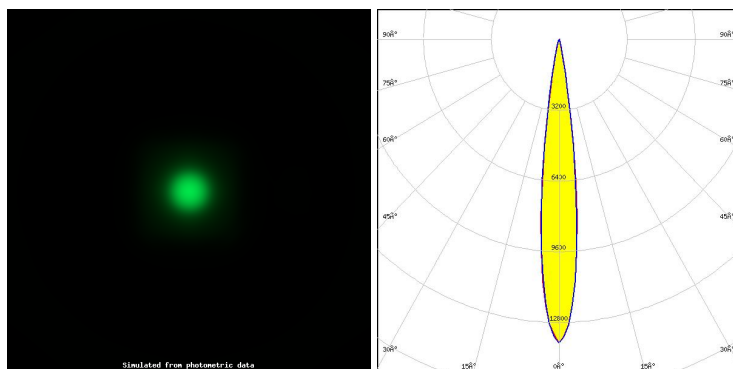
LED NVSE219GL-L1
 FWHM / FWTM 14.0° / 24.0°
 Efficiency 88 %
 Peak intensity 13.4 cd/lm
 LEDs/each optic 1
 Light colour/type Cyan
 Required components:



Light distribution files



LED NVSG219GL-L1
 FWHM / FWTM 14.0° / 23.0°
 Efficiency 88 %
 Peak intensity 13.7 cd/lm
 LEDs/each optic 1
 Light colour/type Green
 Required components:

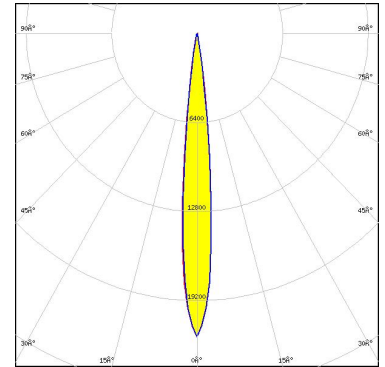


Light distribution files

OPTICAL RESULTS (SIMULATED):



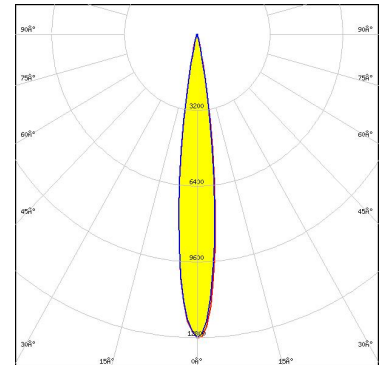
LED NVSW219C-V2
FWHM / FWTM 10.0° / 18.0°
Efficiency 90 %
Peak intensity 21.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



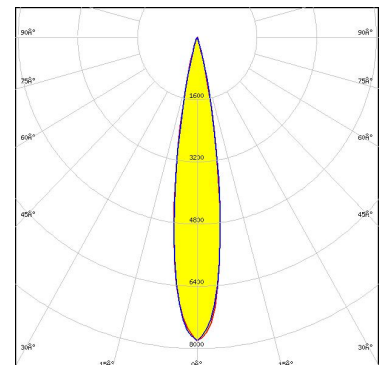
LED NVSW219F
FWHM / FWTM 14.0° / 25.0°
Efficiency 88 %
Peak intensity 12 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSW519A
FWHM / FWTM 18.0° / 30.0°
Efficiency 81 %
Peak intensity 7.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

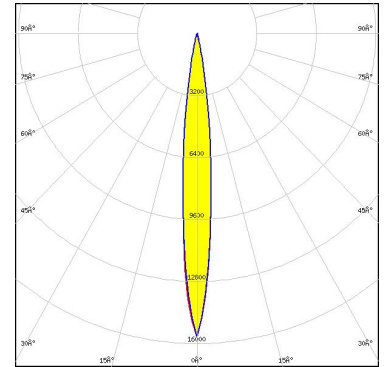


Light distribution files

OPTICAL RESULTS (SIMULATED):



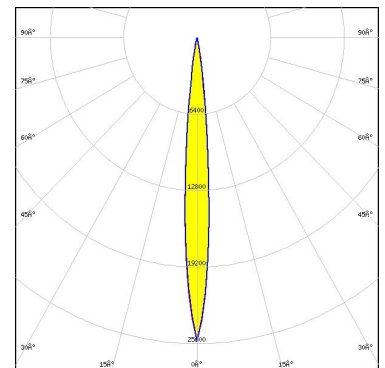
LED NVSxE21A
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 86 %
 Peak intensity 15.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



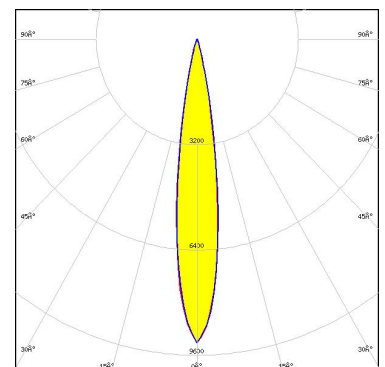
LED OSCONIQ P 3030
 FWHM / FWTM 10.0° / 18.0°
 Efficiency 90 %
 Peak intensity 25.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSCONIQ P 3737 (3W version)
 FWHM / FWTM 16.0° / 28.0°
 Efficiency 87 %
 Peak intensity 9.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

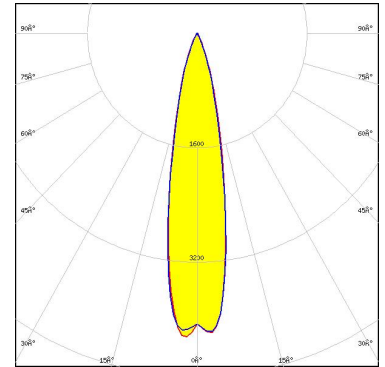


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

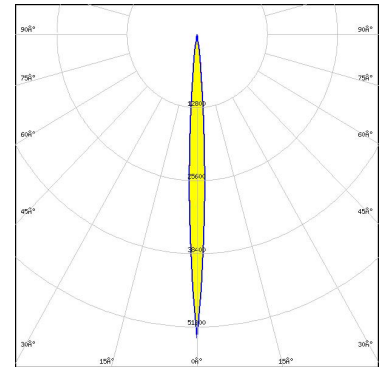
LED OSCONIQ S 5050 (Q9LR32)
FWHM / FWTM 22.0° / 42.0°
Efficiency 80 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

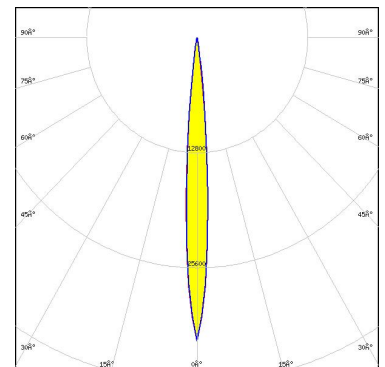
LED OSLOM Black Flat (LUW HWQP)
FWHM / FWTM 6.0° / 14.0°
Efficiency 90 %
Peak intensity 53.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLOM Pure 1414
FWHM / FWTM 8.0° / 16.0°
Efficiency 91 %
Peak intensity 33.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

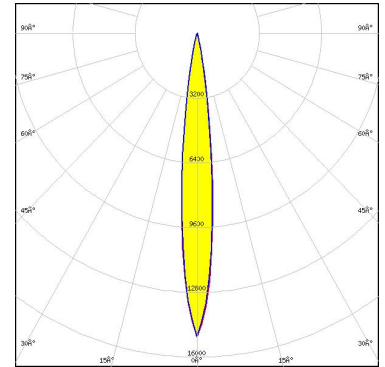


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

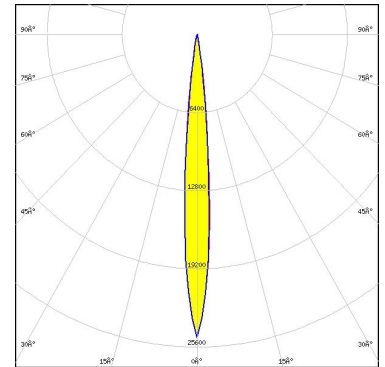
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 12.0° / 24.0°
Efficiency 88 %
Peak intensity 15 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

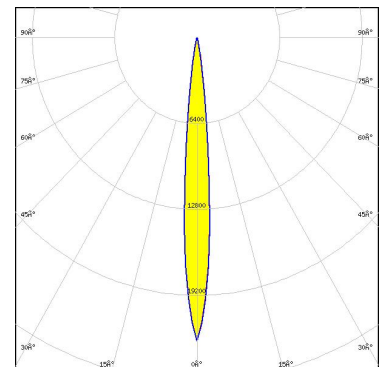
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 10.0° / 18.0°
Efficiency 89 %
Peak intensity 24.9 cd/Im
LEDs/each optic 1
Light colour/type Far Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square Flat
FWHM / FWTM 10.0° / 20.0°
Efficiency 90 %
Peak intensity 22.6 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:

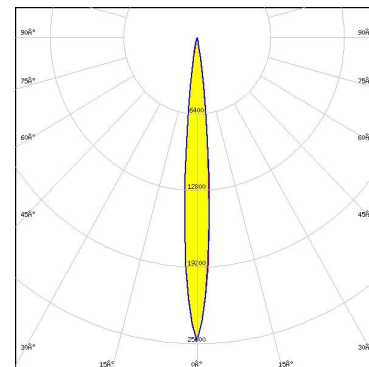


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

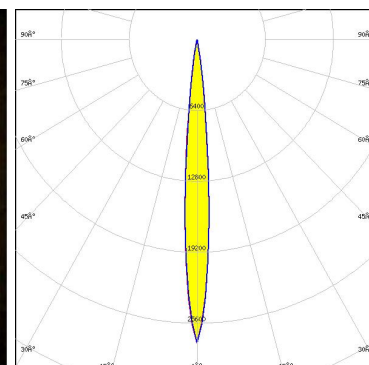
LED OSLON SSL 150
FWHM / FWTM 10.0° / 18.0°
Efficiency 91 %
Peak intensity 25.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

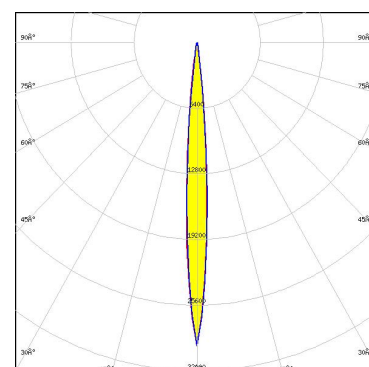
LED OSLON SSL 150
FWHM / FWTM 9.0° / 18.0°
Efficiency 91 %
Peak intensity 27 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 8.0° / 16.0°
Efficiency 89 %
Peak intensity 29.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

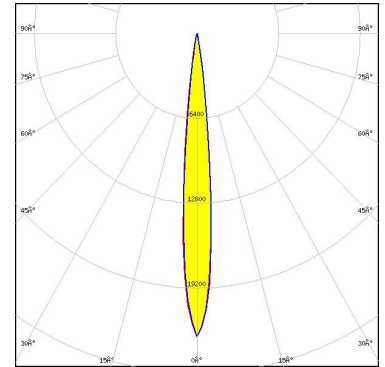


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

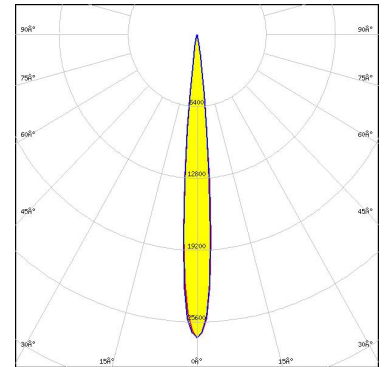
LED SYNIOS S2222
FWHM / FWTM 10.0° / 18.0°
Efficiency 90 %
Peak intensity 22.9 cd/lm
LEDs/each optic 1
Light colour/type Blue
Required components:



Light distribution files

OSRAM
Opto Semiconductors

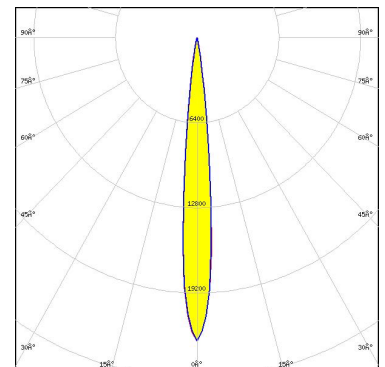
LED SYNIOS S2222
FWHM / FWTM 10.0° / 16.0°
Efficiency 91 %
Peak intensity 27 cd/lm
LEDs/each optic 1
Light colour/type Yellow
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SYNIOS S2222
FWHM / FWTM 10.0° / 18.0°
Efficiency 90 %
Peak intensity 22.8 cd/lm
LEDs/each optic 1
Light colour/type Green
Required components:

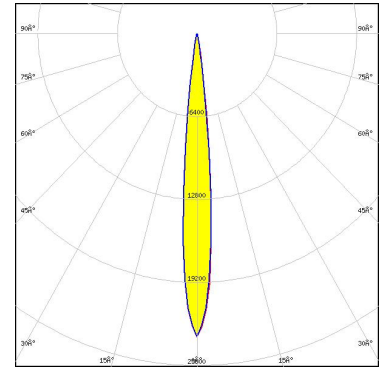


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

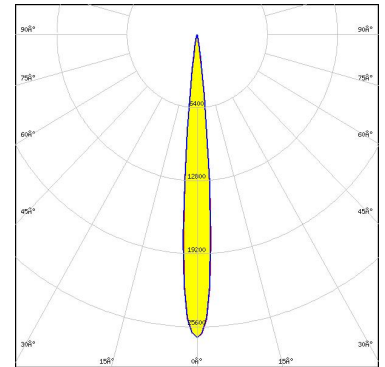
LED SYNIOS S2222
FWHM / FWTM 10.0° / 18.0°
Efficiency 90 %
Peak intensity 23.4 cd/lm
LEDs/each optic 1
Light colour/type Blue
Required components:



Light distribution files

OSRAM
Opto Semiconductors

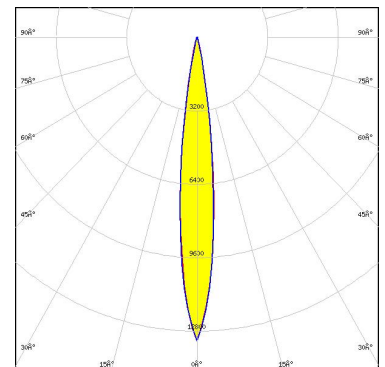
LED SYNIOS S2222
FWHM / FWTM 10.0° / 16.0°
Efficiency 91 %
Peak intensity 26.6 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files

SAMSUNG

LED LH351B
FWHM / FWTM 13.0° / 24.0°
Efficiency 86 %
Peak intensity 13 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

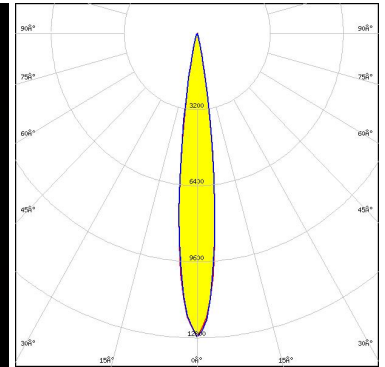


Light distribution files

OPTICAL RESULTS (SIMULATED):



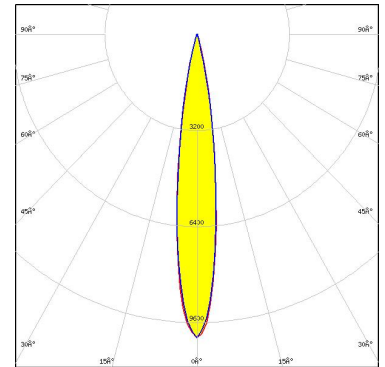
LED Z5M3-E1
 FWHM / FWTM 14.0° / 24.0°
 Efficiency 89 %
 Peak intensity 12.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



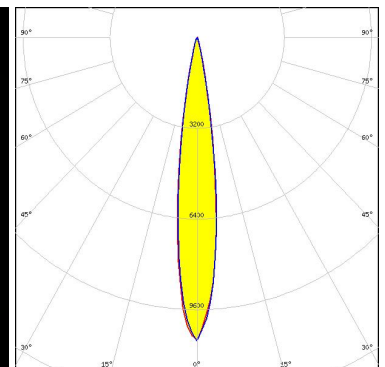
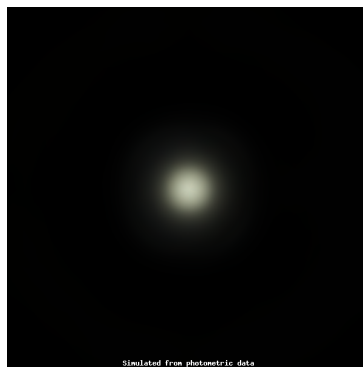
LED Z5M4
 FWHM / FWTM 15.0° / 28.0°
 Efficiency 87 %
 Peak intensity 10.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z5M4-E1
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 87 %
 Peak intensity 10.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

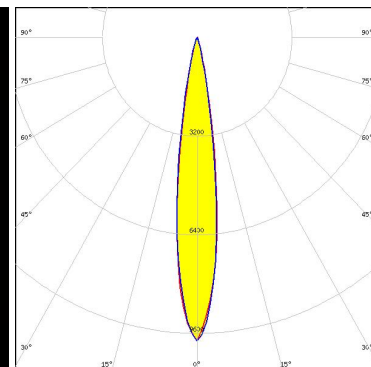
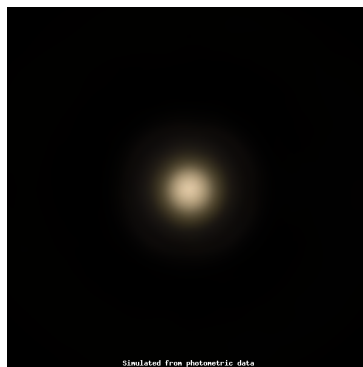


Light distribution files

OPTICAL RESULTS (SIMULATED):



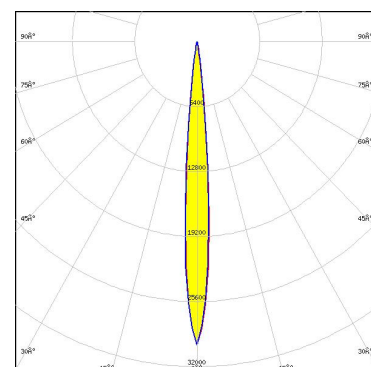
LED Z5M4-E2
 FWHM / FWTM 16.0° / 28.0°
 Efficiency 87 %
 Peak intensity 9.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



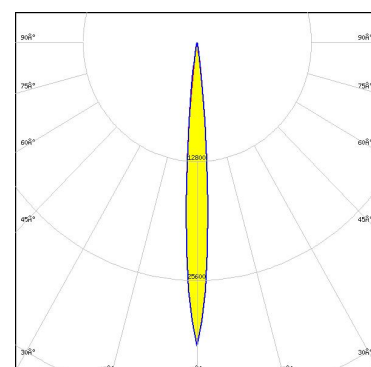
LED MGN1108MS
 FWHM / FWTM 10.0° / 16.0°
 Efficiency 91 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files



LED MJN1108MS
 FWHM / FWTM 8.0° / 16.0°
 Efficiency 92 %
 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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