

LEILA-Y-O

~45° + 15° oval beam. 14.8 mm high assembly with black holder, installation tape and pins.

SPECIFICATION:

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

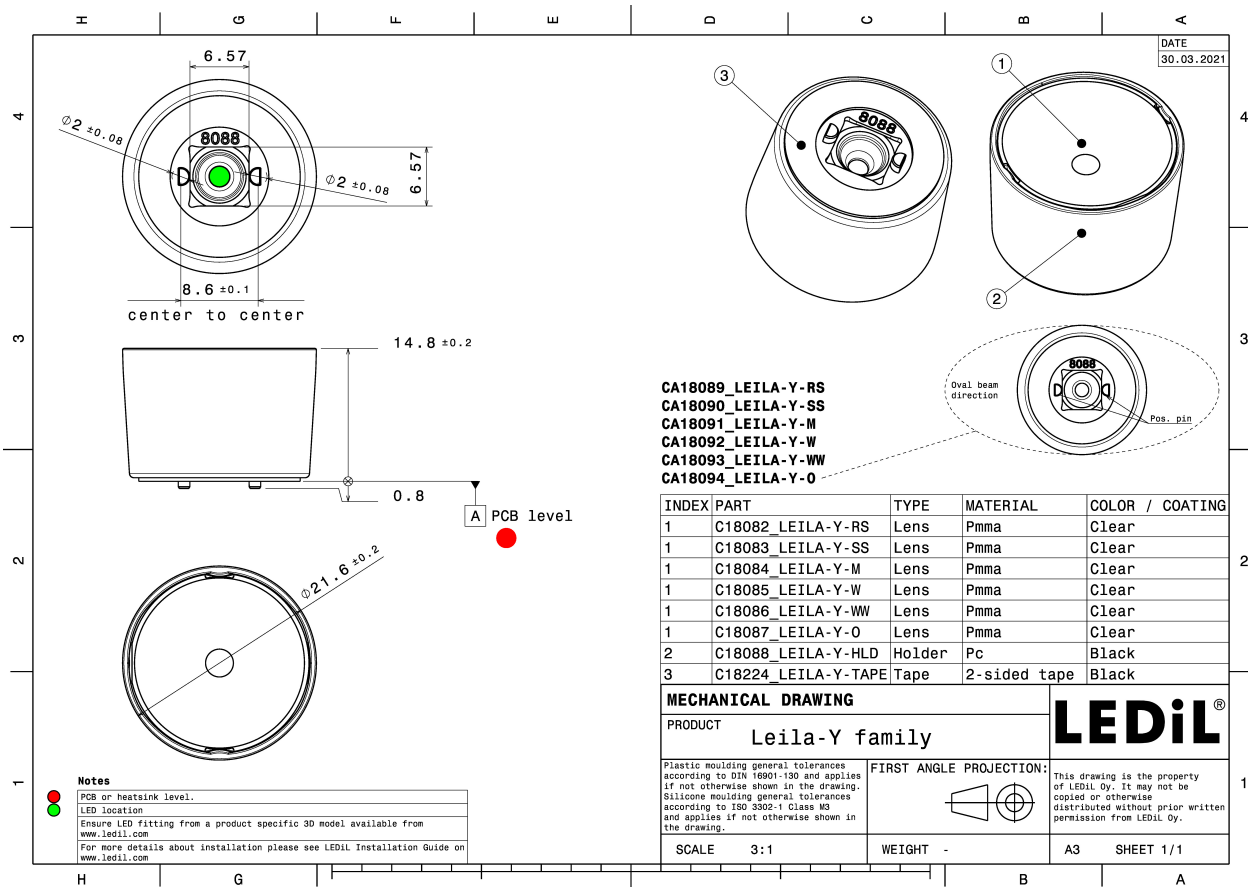


MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LEILA-Y-O	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)
CA18094_LEILA-Y-O » Box size: 476 x 273 x 197 mm	1800	180	180	7.6

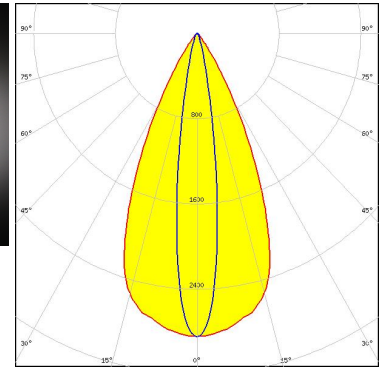
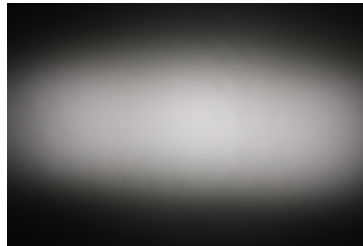


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



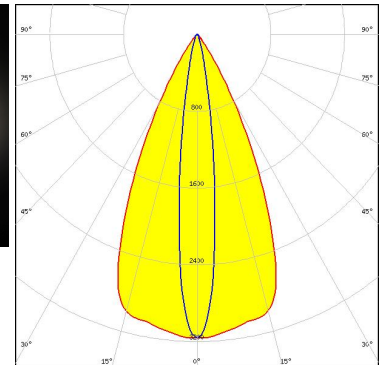
LED XHP35 HI
FWHM / FWTM 49.0 + 16.0° / 70.0 + 31.0°
Efficiency 80 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



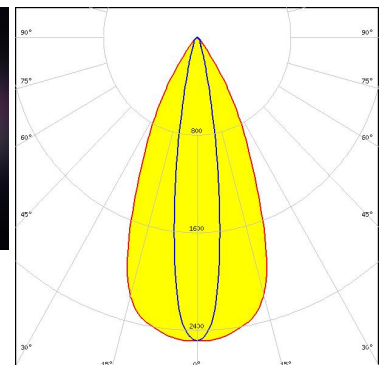
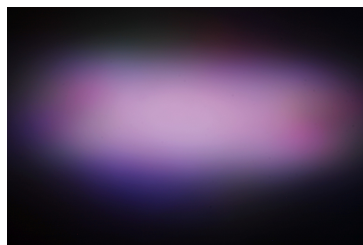
LED XP-G4
FWHM / FWTM 50.0 + 14.0° / 69.0 + 29.0°
Efficiency 81 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-L RGBW HD
FWHM / FWTM 47.0 + 17.0° / 72.0 + 34.0°
Efficiency 78 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type RGBW
Required components:

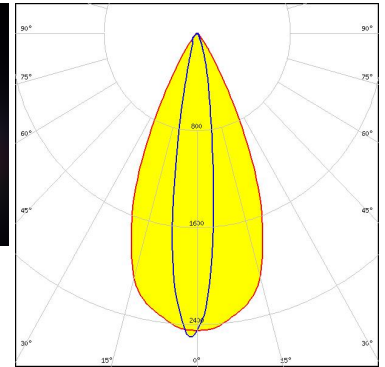
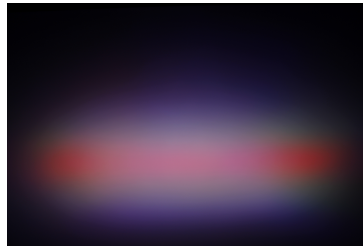


Light distribution files

OPTICAL RESULTS (MEASURED):



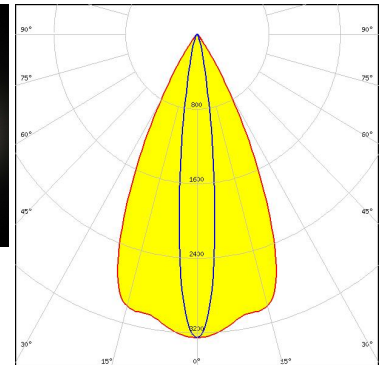
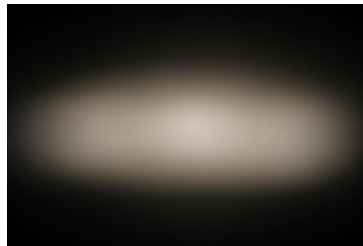
LED XP-L RGBW HI Blend
 FWHM / FWTM 47.0 + 16.0° / 69.0 + 34.0°
 Efficiency 73 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



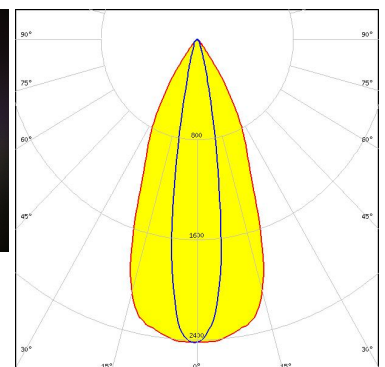
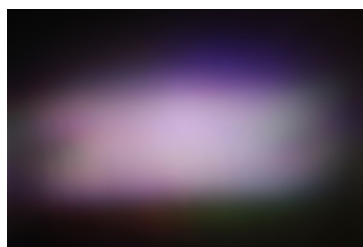
LED NVSW719AC
 FWHM / FWTM 50.0 + 14.0° / 68.0 + 28.0°
 Efficiency 81 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSLO Pure 1414
 FWHM / FWTM 44.0 + 18.0° / 72.0 + 34.0°
 Efficiency 78 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

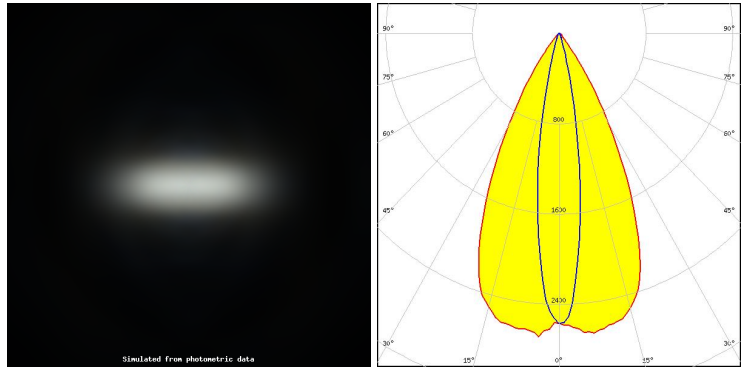


Light distribution files

OPTICAL RESULTS (SIMULATED):



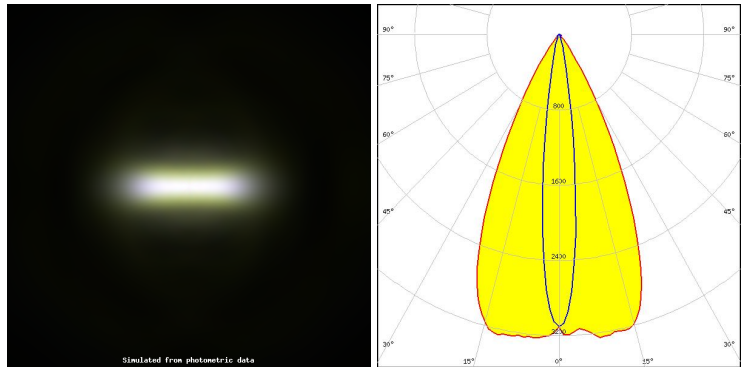
LED Bridgelux SMD 3535 (3B1)
 FWHM / FWTM 54.0 + 18.0° / 76.0 + 32.0°
 Efficiency 82 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



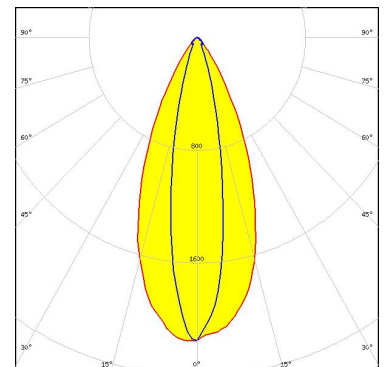
LED J Series 3030C
 FWHM / FWTM 50.0 + 14.0° / 70.0 + 26.0°
 Efficiency 81 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED J Series 5050 Round LES
 FWHM / FWTM 20.0 + 44.0°
 Efficiency 78 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

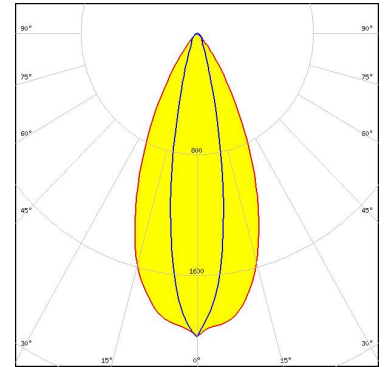


Light distribution files

OPTICAL RESULTS (SIMULATED):



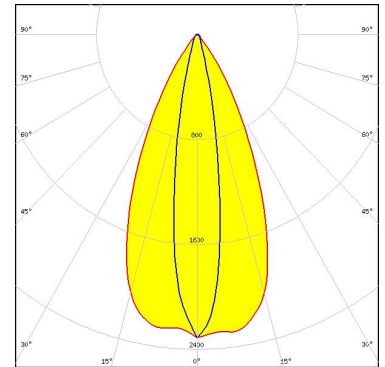
LED J Series 5050B 6V K Class
 FWHM / FWTM 46.0 + 20.0° / 74.0 + 42.0°
 Efficiency 77 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



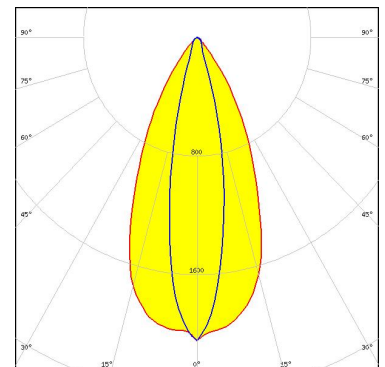
LED XHP35.2 HI
 FWHM / FWTM 49.0 + 18.0° / 74.0 + 34.0°
 Efficiency 78 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XM-L RGBW (XMLDCL HD)
 FWHM / FWTM 48.0 + 22.0° / 78.0 + 38.0°
 Efficiency 79 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:

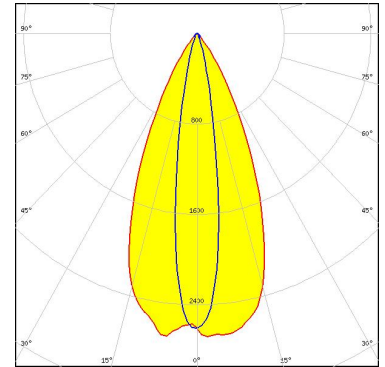


Light distribution files

OPTICAL RESULTS (SIMULATED):



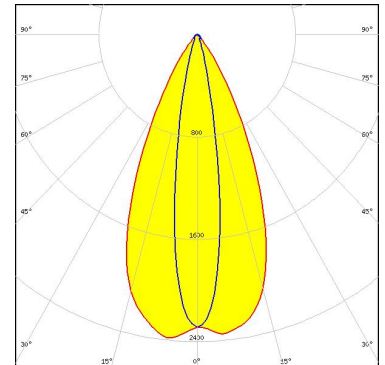
LED XM-L2
 FWHM / FWTM 17.0 + 47.0°
 Efficiency 81 %
 Peak intensity 2.7 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



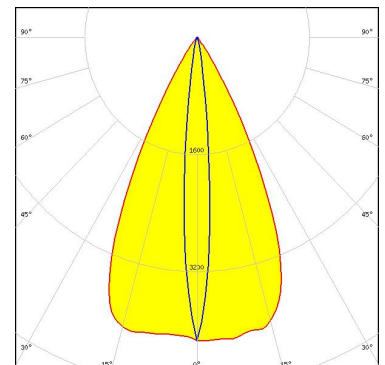
LED XM-L3
 FWHM / FWTM 17.0 + 48.0°
 Efficiency 76 %
 Peak intensity 2.4 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-E2
 FWHM / FWTM 52.0 + 10.0° / 68.0 + 20.0°
 Efficiency 84 %
 Peak intensity 4.2 cd/Im
 LEDs/each optic 1
 Light colour/type Blue
 Required components:

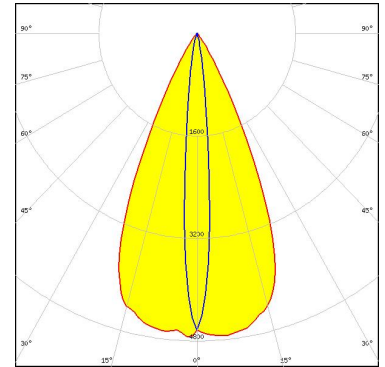


Light distribution files

OPTICAL RESULTS (SIMULATED):



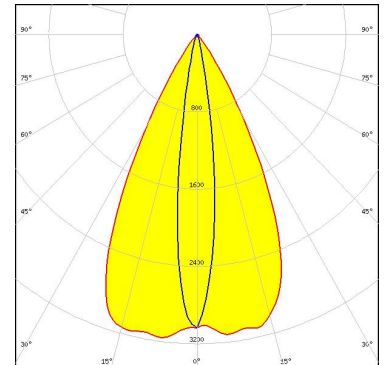
LED XP-E2
 FWHM / FWTM 10.0 + 49.0°
 Efficiency 85 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



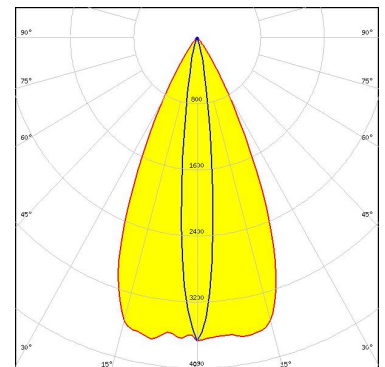
LED XP-E2
 FWHM / FWTM 54.0 + 15.0° / 72.0 + 27.0°
 Efficiency 82 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour/type Amber
 Required components:



Light distribution files



LED XP-G2
 FWHM / FWTM 13.0 + 49.0°
 Efficiency 84 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

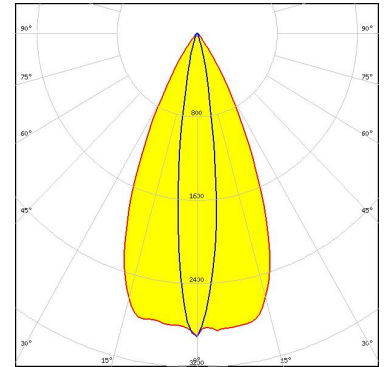


Light distribution files

OPTICAL RESULTS (SIMULATED):



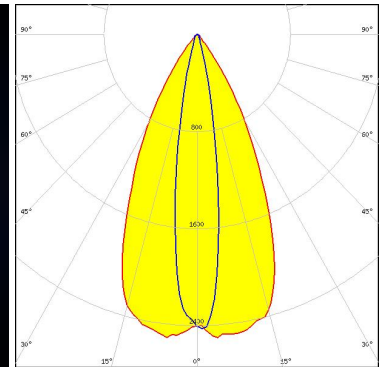
LED XP-G3
 FWHM / FWTM 15.0 + 48.0°
 Efficiency 80 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



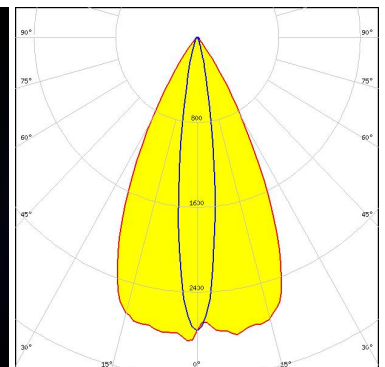
LED XP-L RGBW HD
 FWHM / FWTM 51.0 + 18.0° / 76.0 + 33.0°
 Efficiency 80 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



LED XP-L RGBW HI Blend
 FWHM / FWTM 52.0 + 14.0° / 72.0 + 30.0°
 Efficiency 80 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:

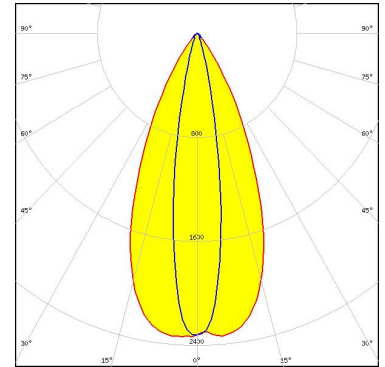


Light distribution files

OPTICAL RESULTS (SIMULATED):



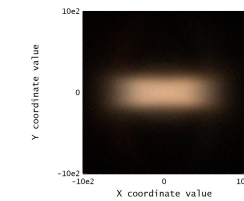
LED XP-L2
FWHM / FWTM 18.0 + 47.0°
Efficiency 77 %
Peak intensity 2.4 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



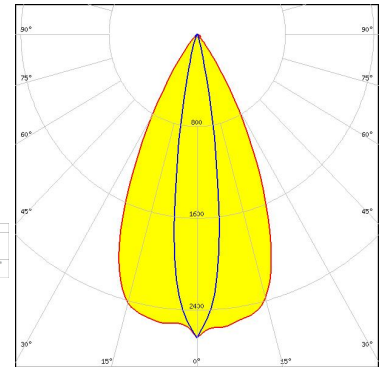
Light distribution files



LED XQ-E HD
FWHM / FWTM 51.0 + 16.0° / 72.0 + 29.0°
Efficiency 82 %
Peak intensity 2.6 cd/Im
LEDs/each optic 2
Light colour/type White
Required components:



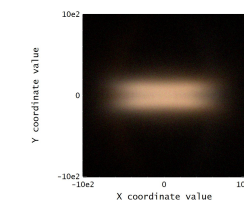
Detector Image: Illuminance		Zemax
20-2-2024	20-2-2024	Zemax OpticStudio 21.3
Simulation: 11, 1000 Surface(s) 1: 1000mm		
Size: 2000.000 x 1.000.000 x 1000.000 mm, Physical: 2000.000 x 1.000.000 mm, Total: 2000.000 x 1.000.000 mm		
Max Illuminance: 1.000000 cd/m²		
Total Power: 1.000000 W		



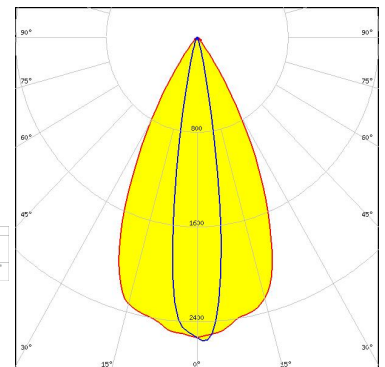
Light distribution files



LED XQ-E HI
FWHM / FWTM 52.0 + 18.0° / 72.0 + 28.0°
Efficiency 82 %
Peak intensity 2.6 cd/Im
LEDs/each optic 2
Light colour/type White
Required components:



Detector Image: Illuminance		Zemax
20-2-2024	20-2-2024	Zemax OpticStudio 21.3
Simulation: 11, 1000 Surface(s) 1: 1000mm		
Size: 2000.000 x 1.000.000 x 1000.000 mm, Physical: 2000.000 x 1.000.000 mm, Total: 2000.000 x 1.000.000 mm		
Max Illuminance: 1.000000 cd/m²		
Total Power: 1.000000 W		

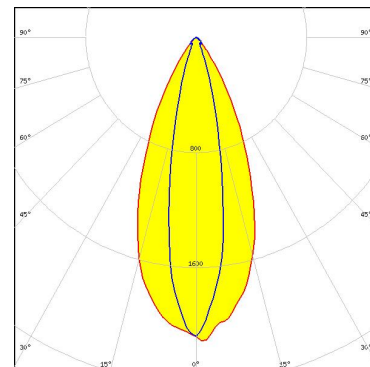


Light distribution files

OPTICAL RESULTS (SIMULATED):



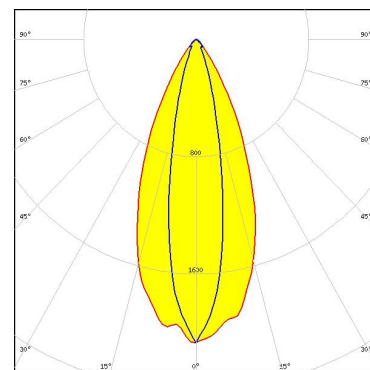
LED LUXEON 5050 Round LES
 FWHM / FWTM 21.0 + 44.0°
 Efficiency 78 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



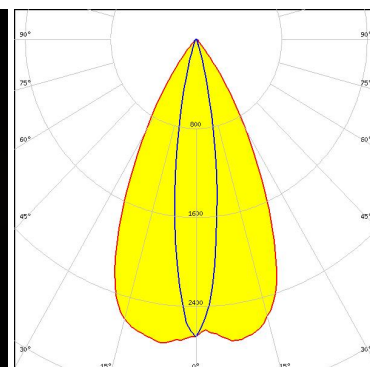
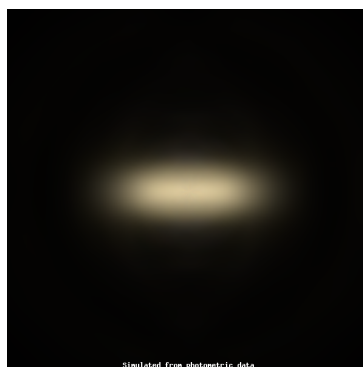
LED LUXEON 5050 Square LES
 FWHM / FWTM 21.0 + 44.0°
 Efficiency 78 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON HL2X-V
 FWHM / FWTM 52.0 + 16.0° / 76.0 + 32.0°
 Efficiency 83 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

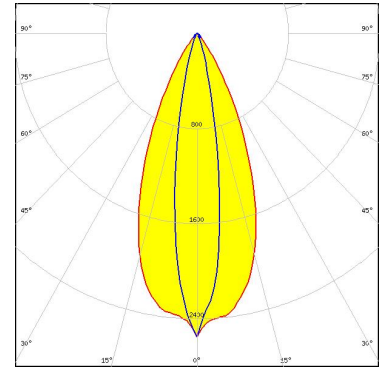


Light distribution files

OPTICAL RESULTS (SIMULATED):



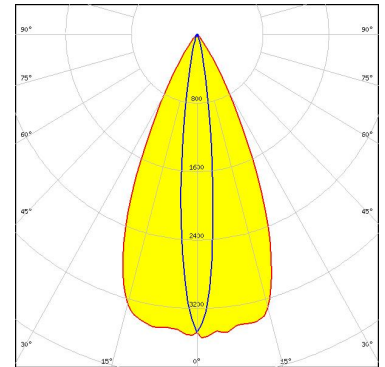
LED LUXEON MZ
FWHM / FWTM 17.0 + 43.0°
Efficiency 78 %
Peak intensity 2.5 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



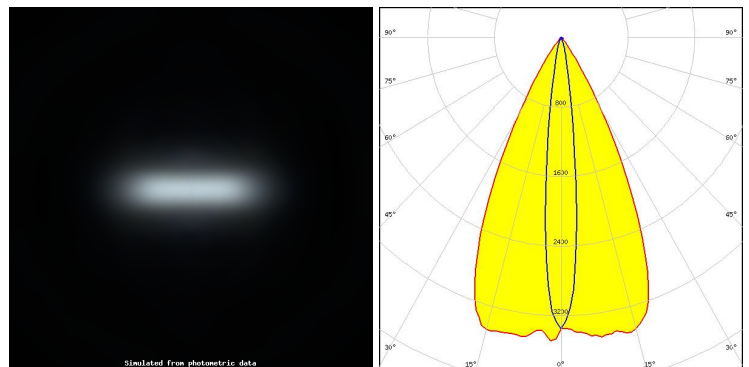
LED LUXEON TX
FWHM / FWTM 13.0 + 48.0°
Efficiency 82 %
Peak intensity 3.6 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED SST-20 Gen2
FWHM / FWTM 52.0 + 12.0° / 70.0 + 24.0°
Efficiency 82 %
Peak intensity 3.5 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:

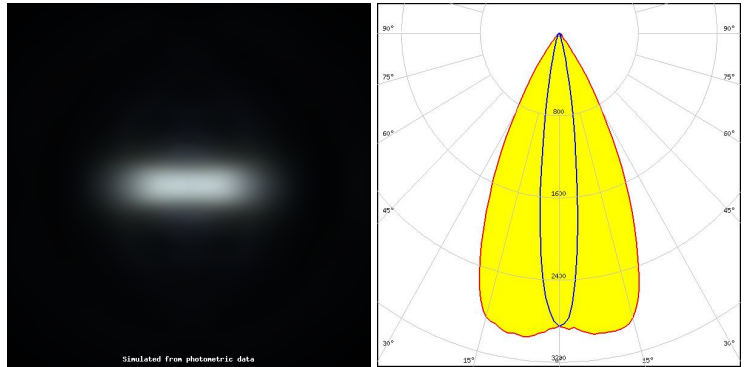


Light distribution files

OPTICAL RESULTS (SIMULATED):



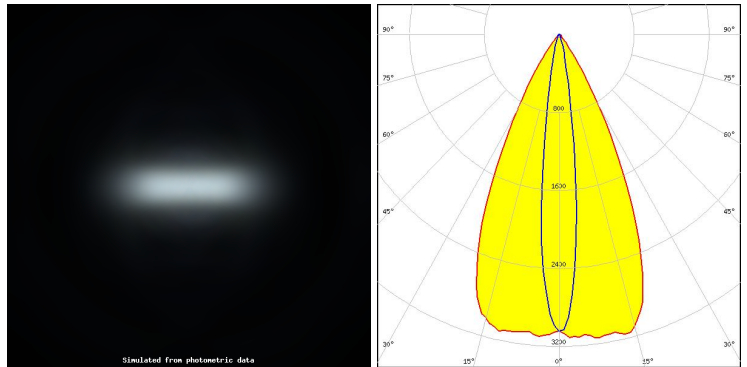
LED SST-20F-W
 FWHM / FWTM $52.0 + 14.0^\circ / 72.0 + 28.0^\circ$
 Efficiency 82 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



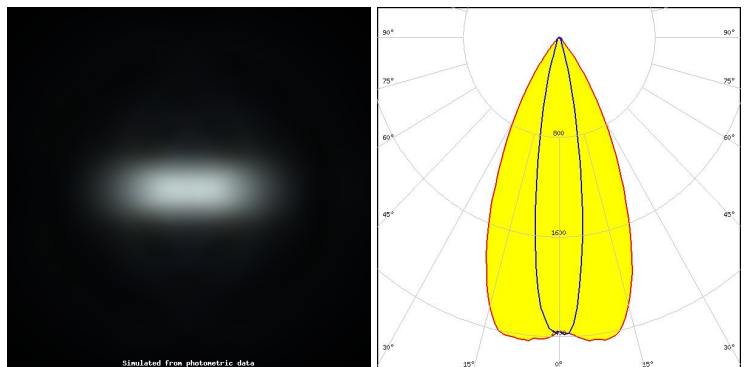
LED SST-25-W
 FWHM / FWTM $52.0 + 14.0^\circ / 72.0 + 26.0^\circ$
 Efficiency 81 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-36F-W
 FWHM / FWTM $50.0 + 18.0^\circ / 76.0 + 33.0^\circ$
 Efficiency 81 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

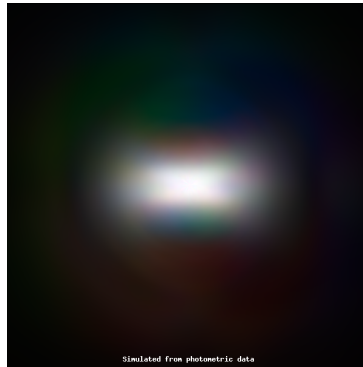


Light distribution files

OPTICAL RESULTS (SIMULATED):



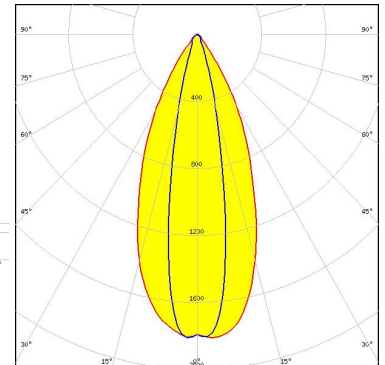
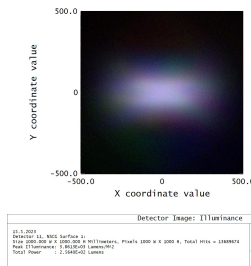
LED NCSxE17A
FWHM / FWTM 44.0 + 20.0° / 74.0 + 39.0°
Efficiency 73 %
Peak intensity 2 cd/lm
LEDs/each optic 4
Light colour/type RGBW
Required components:



Light distribution files



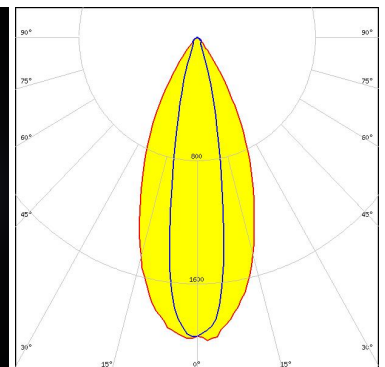
LED NCSxE17A
FWHM / FWTM 45.0 + 21.0° / 74.0 + 40.0°
Efficiency 70 %
Peak intensity 1.8 cd/lm
LEDs/each optic 4
Light colour/type RGBW
Required components:



Light distribution files



LED NCSxE17A
FWHM / FWTM 44.0 + 20.0° / 74.0 + 40.0°
Efficiency 72 %
Peak intensity 2 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:

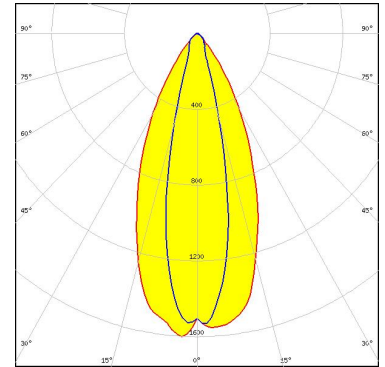


Light distribution files

OPTICAL RESULTS (SIMULATED):



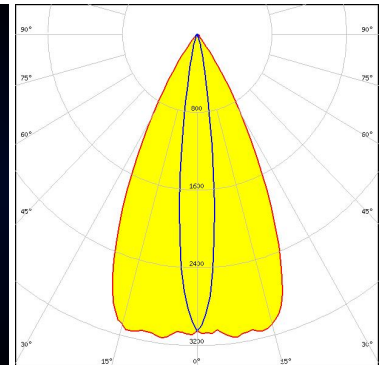
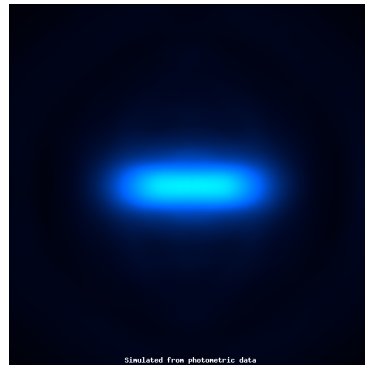
LED NV4x144A
 FWHM / FWTM 46.0 + 24.0° / 78.0 + 42.0°
 Efficiency 69 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



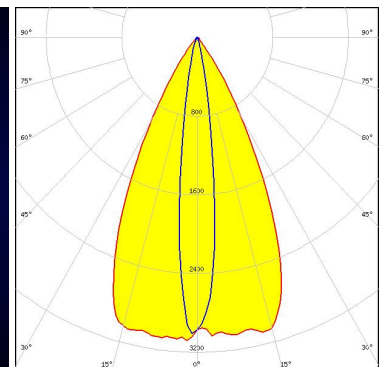
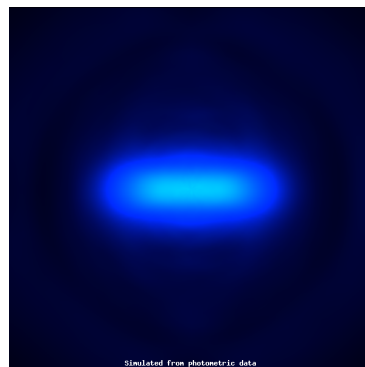
LED NVSB219GL-L1
 FWHM / FWTM 52.0 + 14.0° / 72.0 + 26.0°
 Efficiency 81 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type Blue
 Required components:



Light distribution files



LED NVSC219GL-L1
 FWHM / FWTM 52.0 + 14.0° / 72.0 + 27.0°
 Efficiency 80 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type Royal Blue
 Required components:

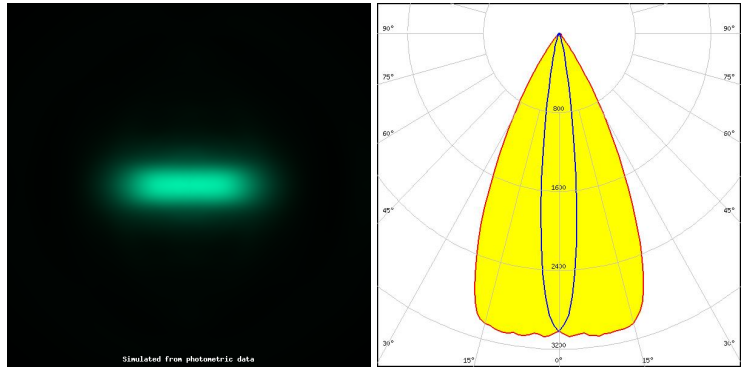


Light distribution files

OPTICAL RESULTS (SIMULATED):



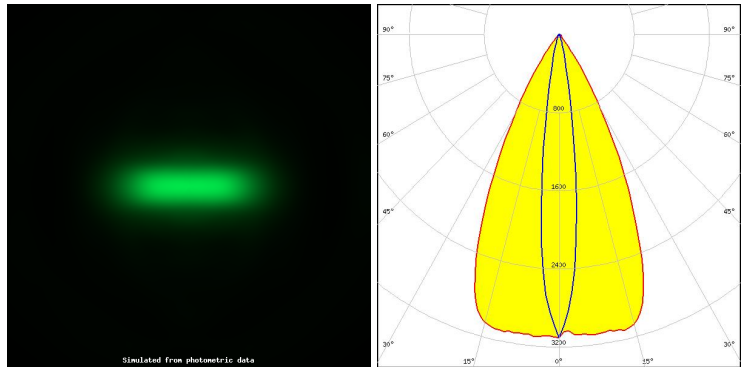
LED NVSE219GL-L1
 FWHM / FWTM 52.0 + 14.0° / 72.0 + 26.0°
 Efficiency 81 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type Cyan
 Required components:



Light distribution files



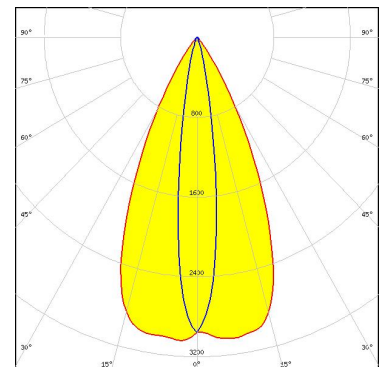
LED NVSG219GL-L1
 FWHM / FWTM 52.0 + 14.0° / 72.0 + 26.0°
 Efficiency 81 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type Green
 Required components:



Light distribution files



LED NVSW219F
 FWHM / FWTM 15.0 + 50.0°
 Efficiency 83 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

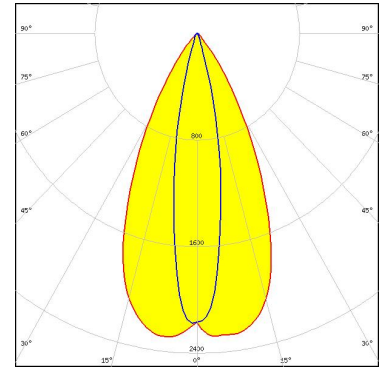


Light distribution files

OPTICAL RESULTS (SIMULATED):



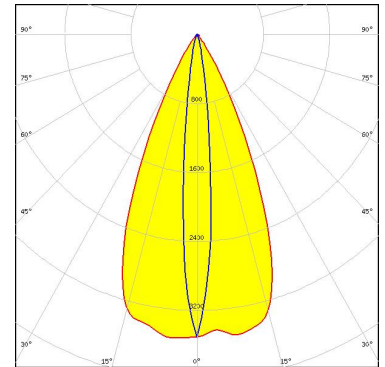
LED NVSW519A
 FWHM / FWTM 50.0 + 19.0° / 76.0 + 34.0°
 Efficiency 77 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



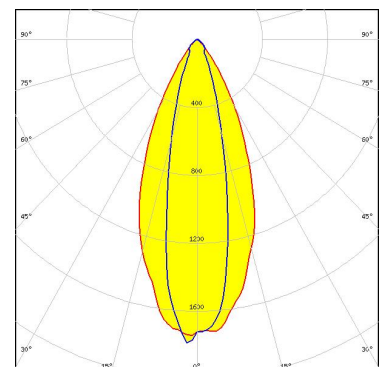
LED NVSxE21A
 FWHM / FWTM 48.0 + 11.0° / 66.0 + 24.0°
 Efficiency 77 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Duris S8
 FWHM / FWTM 24.0 + 44.0°
 Efficiency 77 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

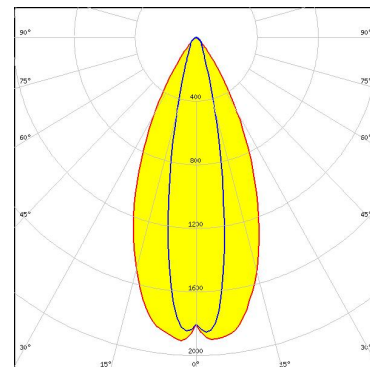


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

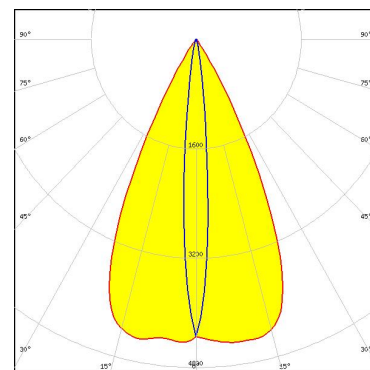
LED OSCONIQ S 5050 (Q9LR32)
FWHM / FWTM 47.0 + 22.0° / 76.0 + 43.0°
Efficiency 76 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

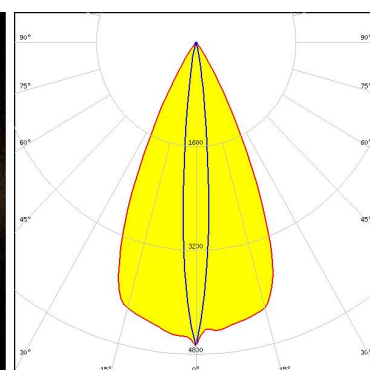
LED OSLO Pure 1414
FWHM / FWTM 52.0 + 10.0° / 66.0 + 20.0°
Efficiency 84 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLO SSL 150
FWHM / FWTM 10.0 + 49.0°
Efficiency 84 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

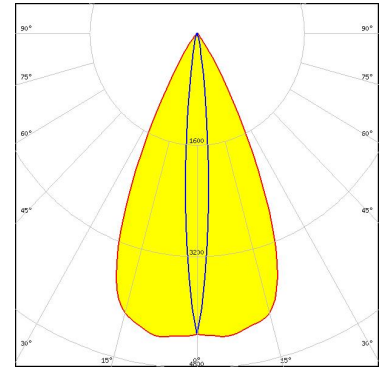


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

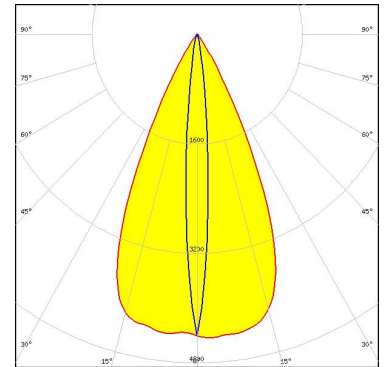
LED: SYNIOS S2222
FWHM / FWTM: 50.0 + 10.0° / 67.0 + 20.0°
Efficiency: 82 %
Peak intensity: 4.4 cd/lm
LEDs/each optic: 1
Light colour/type: Blue
Required components:



Light distribution files

OSRAM
Opto Semiconductors

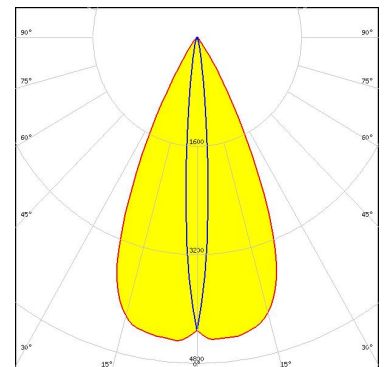
LED: SYNIOS S2222
FWHM / FWTM: 50.0 + 8.0° / 66.0 + 20.0°
Efficiency: 83 %
Peak intensity: 4.4 cd/lm
LEDs/each optic: 1
Light colour/type: Green
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED: SYNIOS S2222
FWHM / FWTM: 50.0 + 9.0° / 67.0 + 20.0°
Efficiency: 83 %
Peak intensity: 4.5 cd/lm
LEDs/each optic: 1
Light colour/type: Blue
Required components:

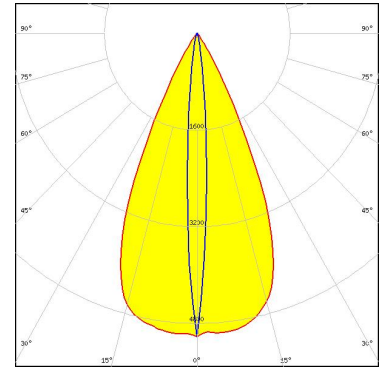


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

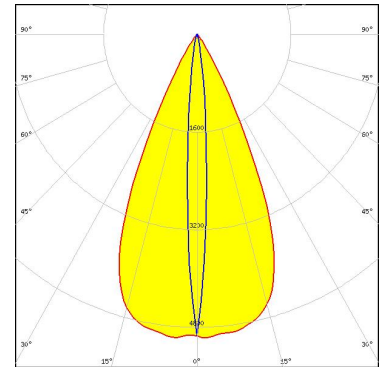
LED SYNIOS S2222
FWHM / FWTM 48.0 + 8.0° / 65.0 + 20.0°
Efficiency 83 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

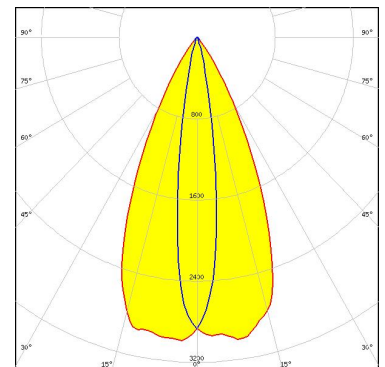
LED SYNIOS S2222
FWHM / FWTM 50.0 + 8.0° / 66.0 + 20.0°
Efficiency 83 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour/type Yellow
Required components:



Light distribution files

SAMSUNG

LED LH351B
FWHM / FWTM 15.0 + 49.0°
Efficiency 81 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

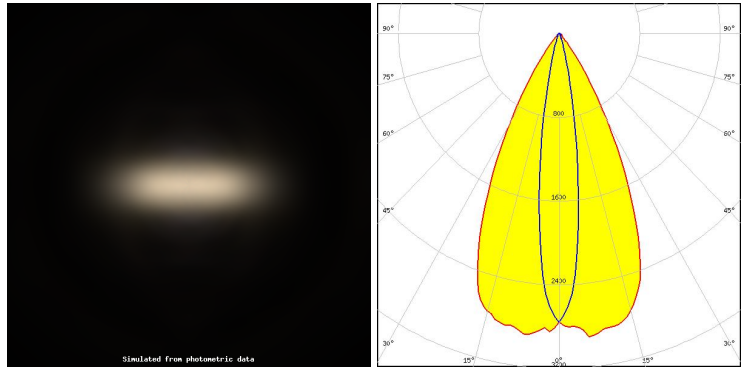


Light distribution files

OPTICAL RESULTS (SIMULATED):



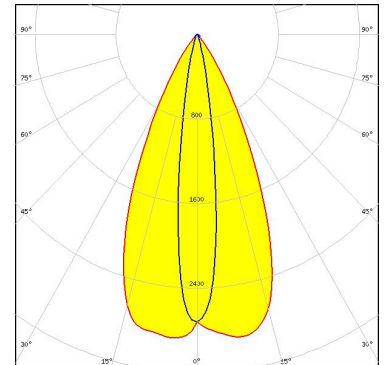
LED Z5M3-E1
 FWHM / FWTM 52.0 + 16.0° / 74.0 + 31.0°
 Efficiency 83 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



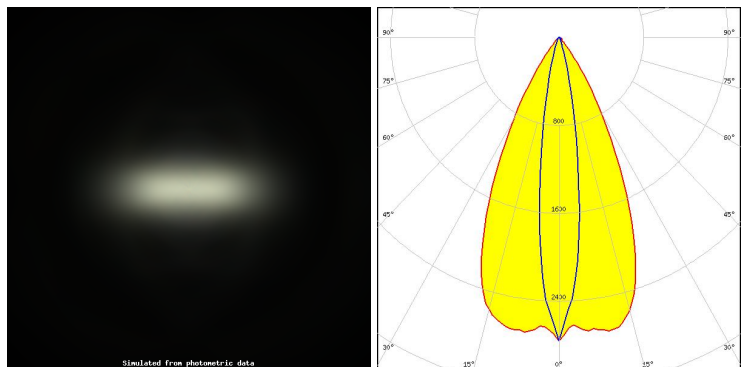
LED Z5M4
 FWHM / FWTM 48.0 + 16.0° / 72.0 + 30.0°
 Efficiency 81 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z5M4-E1
 FWHM / FWTM 51.0 + 16.0° / 74.0 + 32.0°
 Efficiency 81 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

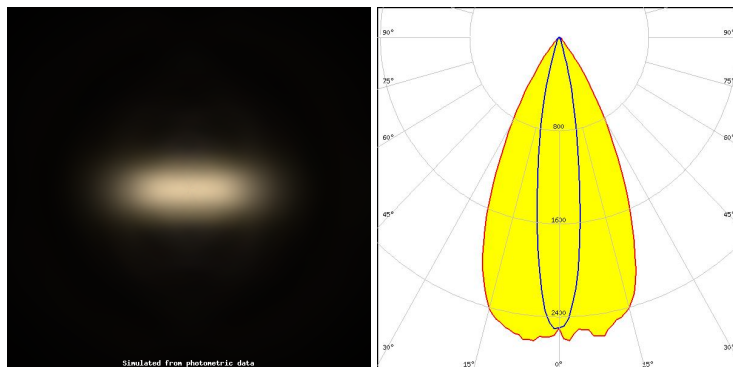


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED	Z5M4-E2
FWHM / FWTM	52.0 + 17.0° / 76.0 + 34.0°
Efficiency	82 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 7
FI-24100 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Poznan, Poland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)