

TINA-Y-RS

~14° spot beam. Assembly with holder, installation tape and pins.

SPECIFICATION:

Dimensions	Ø 16.1
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

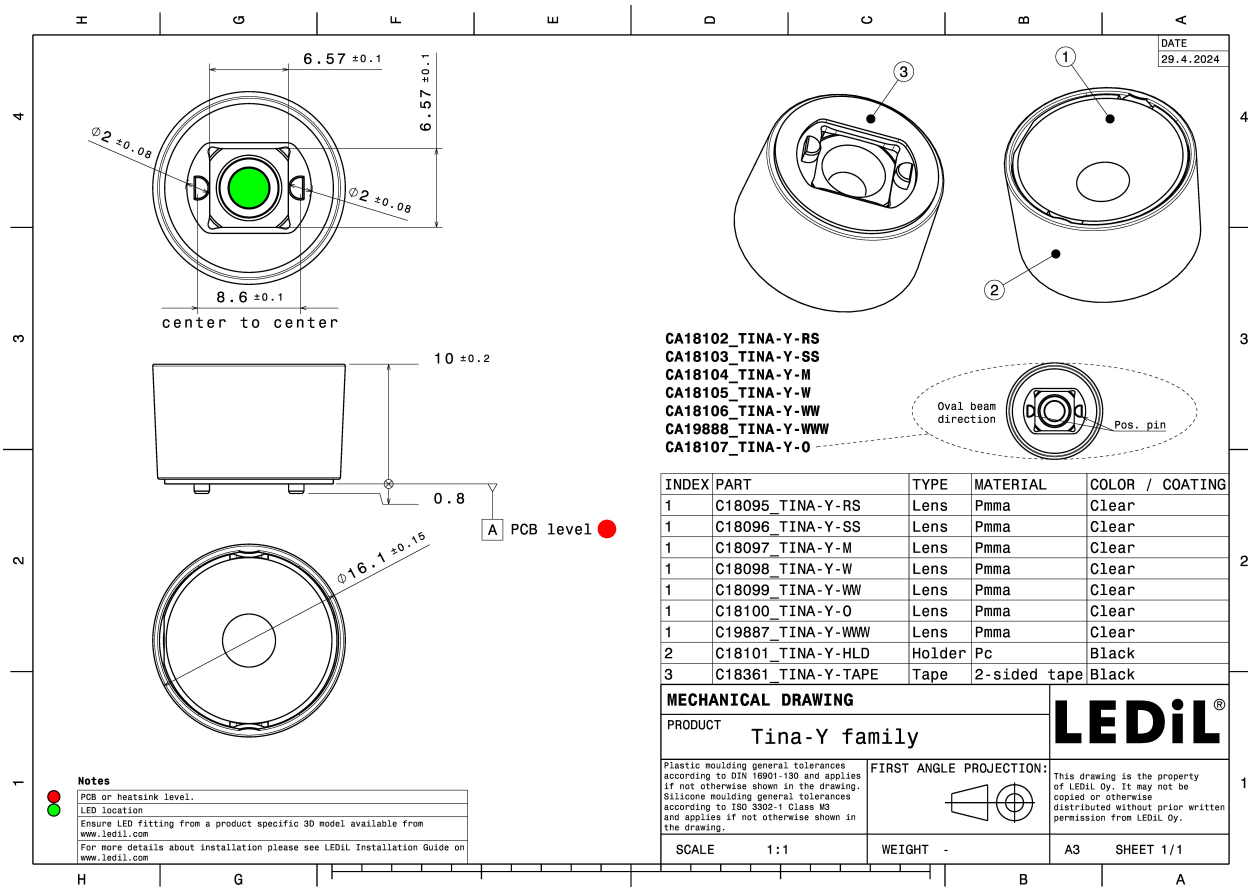


MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18102_TINA-Y-RS » Box size: 476 x 273 x 197 mm	3900	300	300	5.6

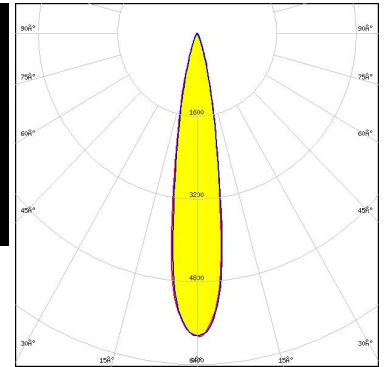


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



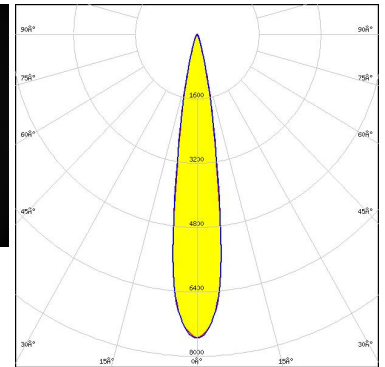
LED XP-G3
FWHM / FWTM 18.0° / 35.0°
Efficiency 81 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



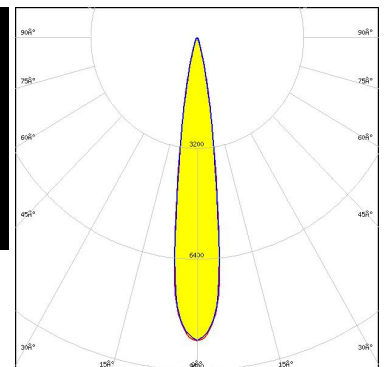
LED XP-G4
FWHM / FWTM 17.0° / 31.0°
Efficiency 87 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSW719AC
FWHM / FWTM 16.0° / 29.0°
Efficiency 88 %
Peak intensity 8.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

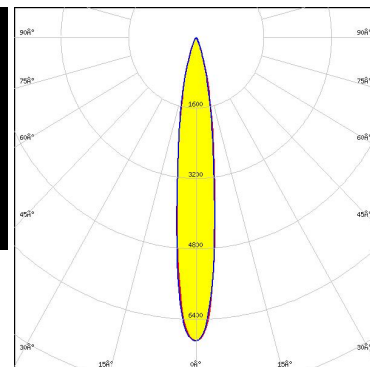
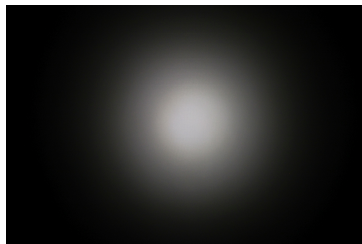


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 15.0° / 35.0°
Efficiency 83 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

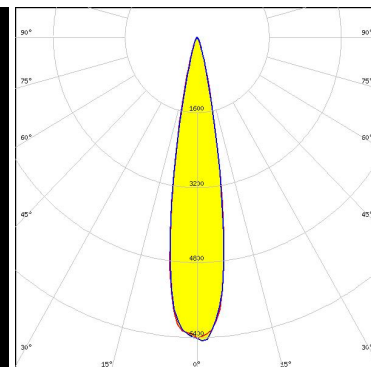
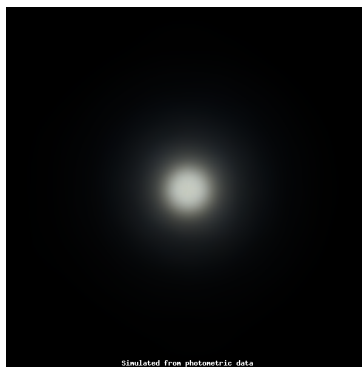


Light distribution files

OPTICAL RESULTS (SIMULATED):



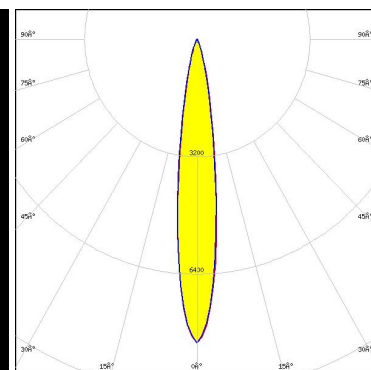
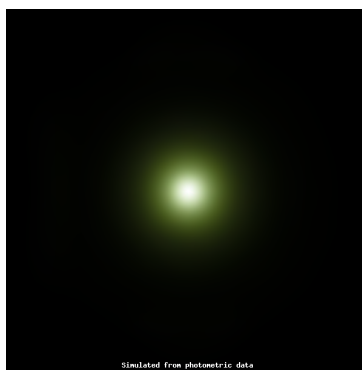
LED Bridgelux SMD 3535 (3B1)
FWHM / FWTM 20.0° / 33.0°
Efficiency 88 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



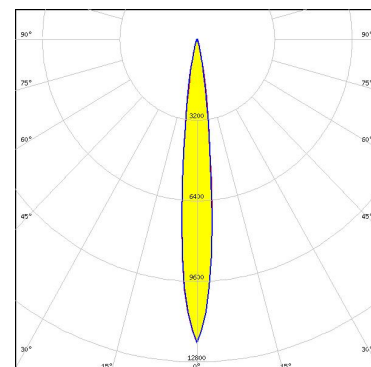
LED J Series 3030C
FWHM / FWTM 15.0° / 32.0°
Efficiency 87 %
Peak intensity 8.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XD16
FWHM / FWTM 12.0° / 24.0°
Efficiency 80 %
Peak intensity 12 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

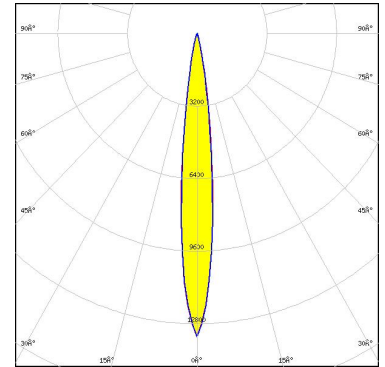


Light distribution files

OPTICAL RESULTS (SIMULATED):



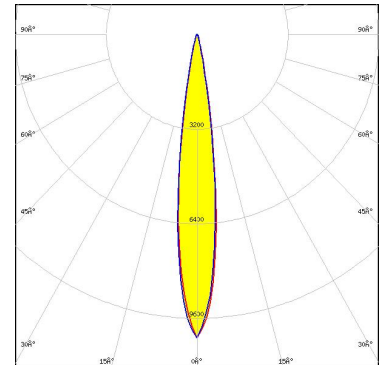
LED XD16 Premium
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 86 %
 Peak intensity 13.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



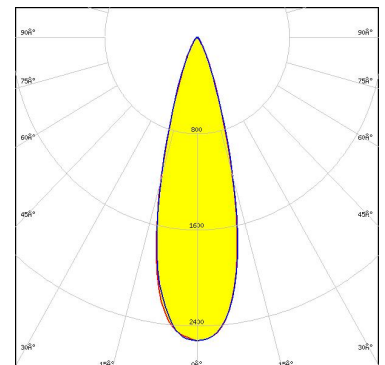
LED XE-G
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 87 %
 Peak intensity 10.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XHP35.2 HD
 FWHM / FWTM 30.0° / 52.0°
 Efficiency 76 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

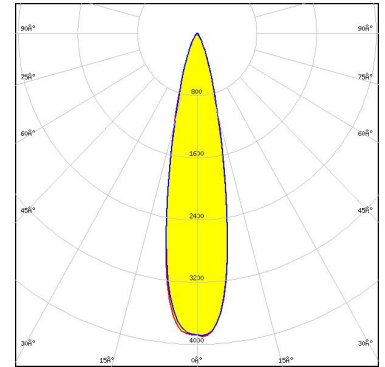


Light distribution files

OPTICAL RESULTS (SIMULATED):



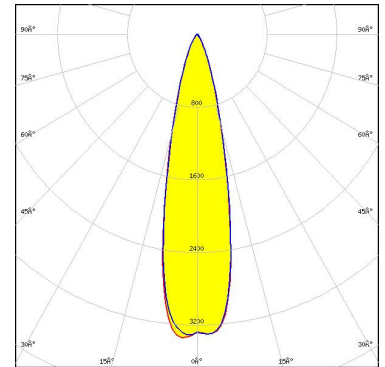
LED XHP35.2 HI
FWHM / FWTM 22.0° / 44.0°
Efficiency 84 %
Peak intensity 3.9 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



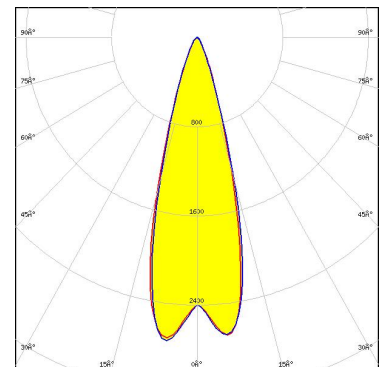
LED XHP50.3 HI
FWHM / FWTM 24.0° / 48.0°
Efficiency 82 %
Peak intensity 3.4 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XM-L RGBW (XMLDCL HD)
FWHM / FWTM 30.0° / 49.0°
Efficiency 85 %
Peak intensity 2.8 cd/Im
LEDs/each optic 1
Light colour/type RGBW
Required components:

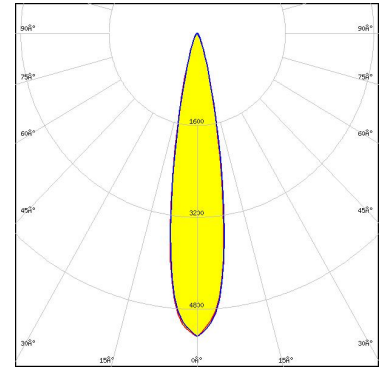


Light distribution files

OPTICAL RESULTS (SIMULATED):



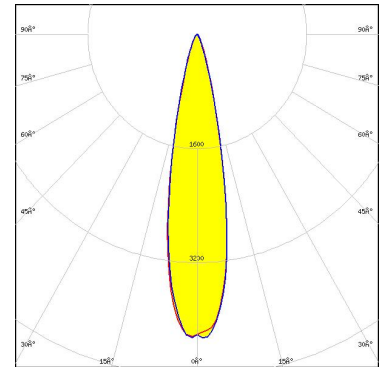
LED XM-L RGBW (XMLDCL HI)
 FWHM / FWTM 20.0° / 37.0°
 Efficiency 85 %
 Peak intensity 5.3 cd/Im
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



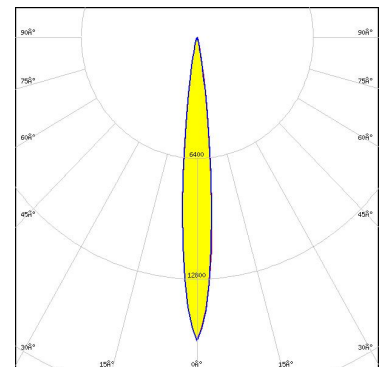
LED XM-L3
 FWHM / FWTM 21.0° / 40.0°
 Efficiency 81 %
 Peak intensity 4.3 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-E2
 FWHM / FWTM 11.0° / 22.0°
 Efficiency 88 %
 Peak intensity 16 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

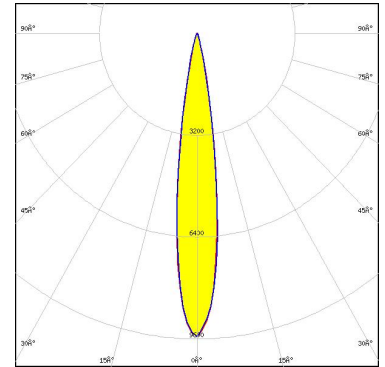


Light distribution files

OPTICAL RESULTS (SIMULATED):



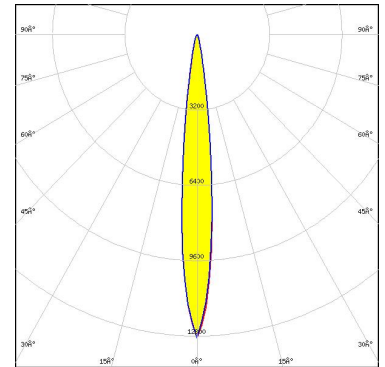
LED XP-G2
 FWHM / FWTM 15.0° / 28.0°
 Efficiency 88 %
 Peak intensity 9.6 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



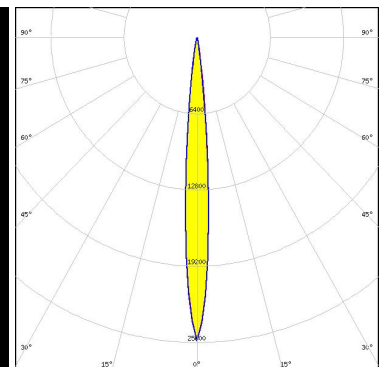
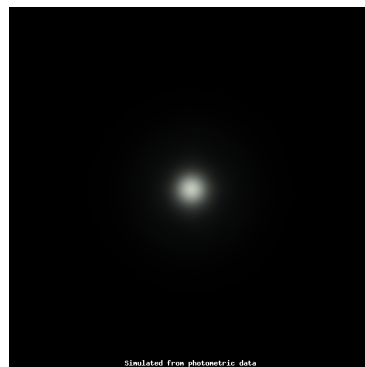
LED XP-G4 HI
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 86 %
 Peak intensity 12.9 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-GR
 FWHM / FWTM 9.0 + 8.0° / 18.0°
 Efficiency 90 %
 Peak intensity 25.5 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

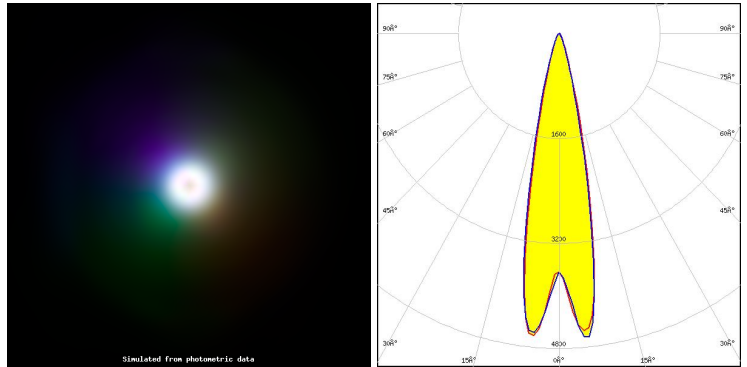


Light distribution files

OPTICAL RESULTS (SIMULATED):



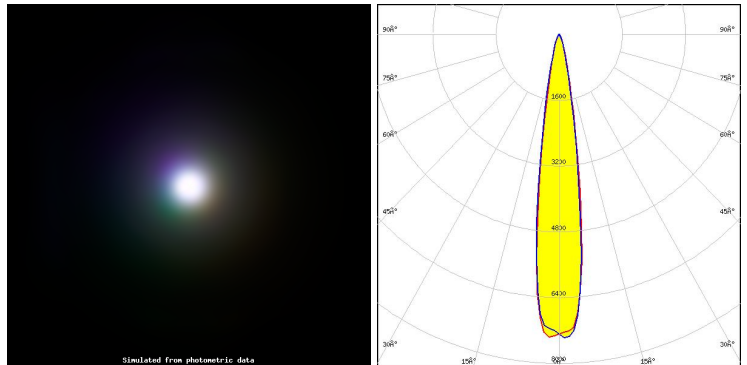
LED XP-L RGBW HD
 FWHM / FWTM 23.0 + 22.0° / 37.0°
 Efficiency 88 %
 Peak intensity 4.8 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



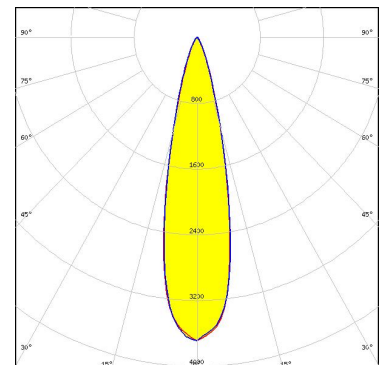
LED XP-L RGBW HI Blend
 FWHM / FWTM 16.0° / 31.0 + 30.0°
 Efficiency 85 %
 Peak intensity 7.5 cd/Im
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



LED XP-L2
 FWHM / FWTM 24.0° / 45.0°
 Efficiency 83 %
 Peak intensity 3.7 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

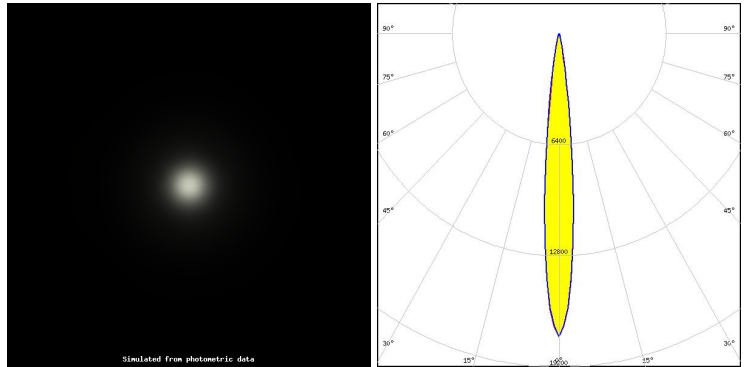


Light distribution files

OPTICAL RESULTS (SIMULATED):



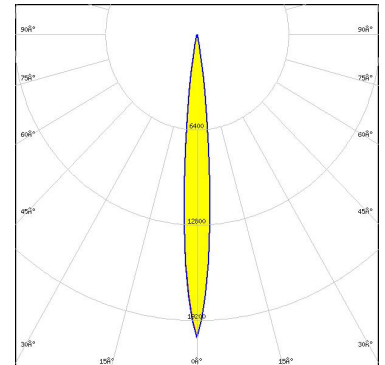
LED XP-LR
 FWHM / FWTM 12.0 + 11.0° / 22.0 + 21.0°
 Efficiency 90 %
 Peak intensity 17.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



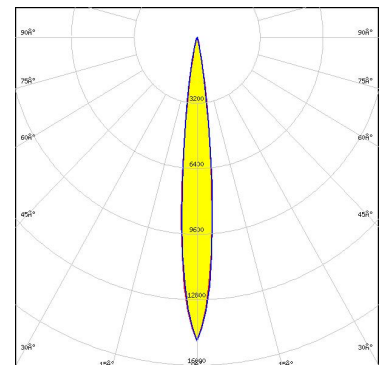
LED XP-P
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 89 %
 Peak intensity 20.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XQ-E HD
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 87 %
 Peak intensity 14.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

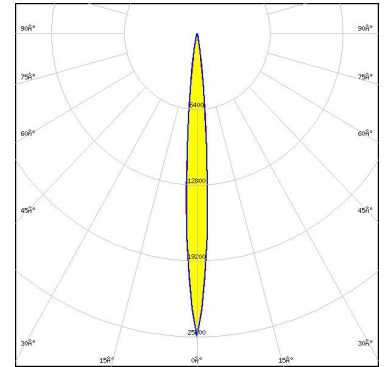


Light distribution files

OPTICAL RESULTS (SIMULATED):



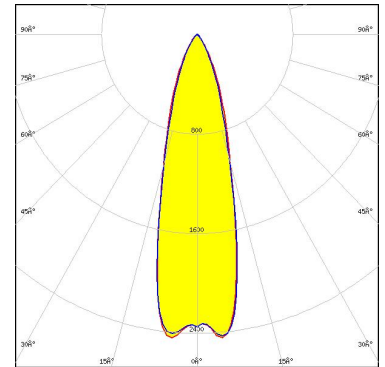
LED XQ-E HI
FWHM / FWTM 8.0° / 18.0°
Efficiency 87 %
Peak intensity 25.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



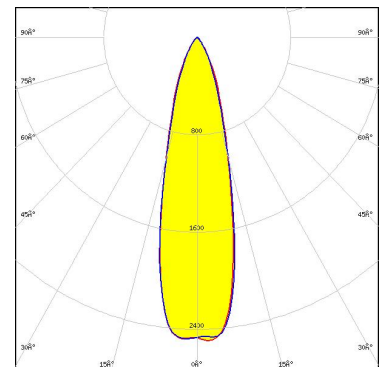
LED LUXEON 5050 Round LES
FWHM / FWTM 28.0° / 56.0°
Efficiency 81 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON 5050 Square LES
FWHM / FWTM 26.0° / 56.0°
Efficiency 80 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

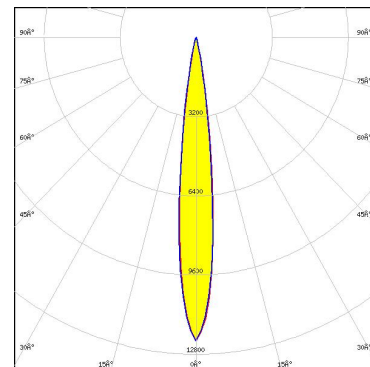


Light distribution files

OPTICAL RESULTS (SIMULATED):



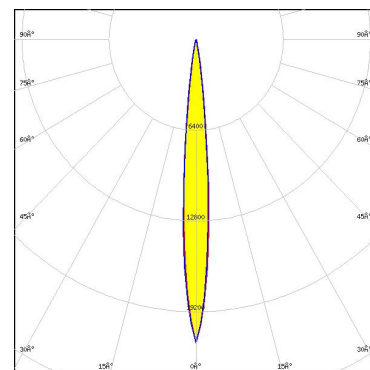
LED LUXEON C
FWHM / FWTM 12.0° / 24.0°
Efficiency 79 %
Peak intensity 12.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



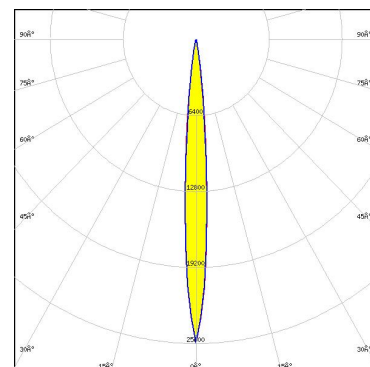
LED LUXEON CZ
FWHM / FWTM 10.0° / 19.0°
Efficiency 88 %
Peak intensity 21.4 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files



LED LUXEON CZ
FWHM / FWTM 8.0° / 18.0°
Efficiency 88 %
Peak intensity 25.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

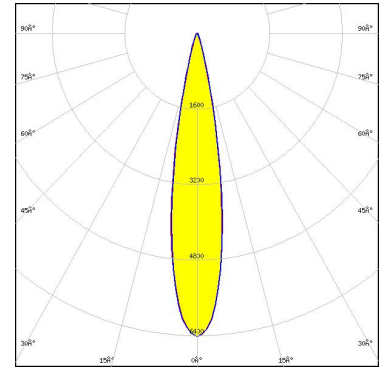


Light distribution files

OPTICAL RESULTS (SIMULATED):



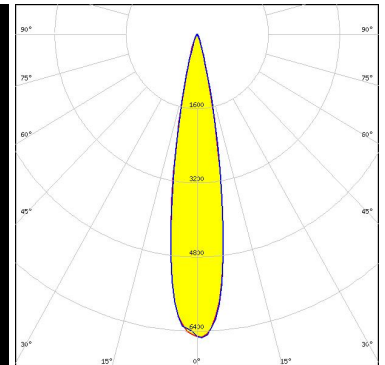
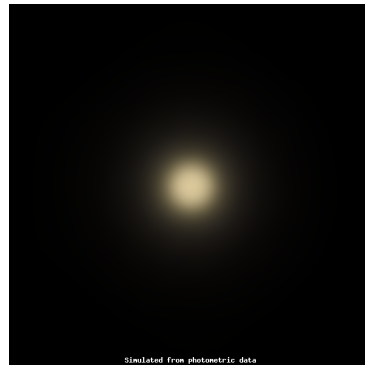
LED LUXEON HL2X
 FWHM / FWTM 20.0° / 32.0°
 Efficiency 87 %
 Peak intensity 6.4 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



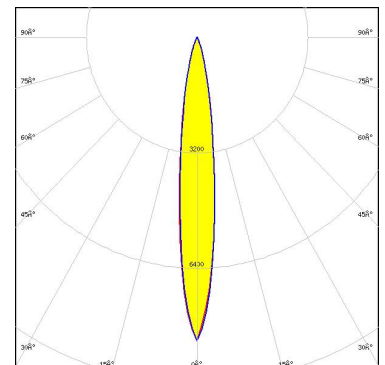
LED LUXEON HL2X-V
 FWHM / FWTM 20.0 + 19.0° / 33.0°
 Efficiency 89 %
 Peak intensity 6.6 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON HL2Z
 FWHM / FWTM 14.0° / 32.0°
 Efficiency 83 %
 Peak intensity 8.4 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

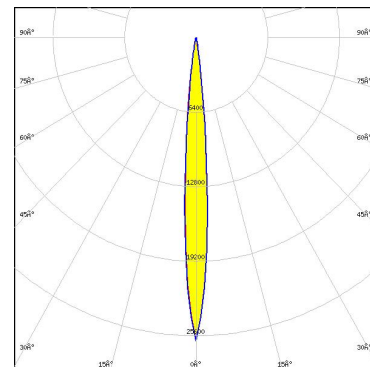


Light distribution files

OPTICAL RESULTS (SIMULATED):



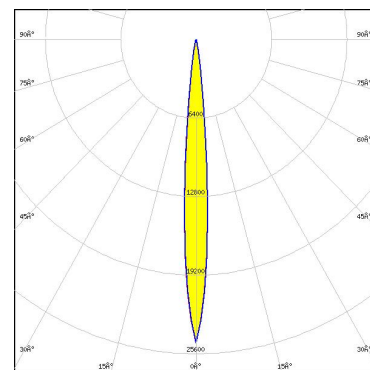
LED LUXEON Rubix
FWHM / FWTM 8.0° / 18.0°
Efficiency 89 %
Peak intensity 26.1 cd/lm
LEDs/each optic 1
Light colour/type Blue
Required components:



Light distribution files



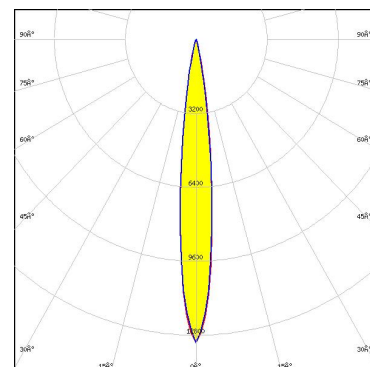
LED LUXEON Rubix
FWHM / FWTM 8.0° / 18.0°
Efficiency 89 %
Peak intensity 24.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON Z ES
FWHM / FWTM 12.0° / 24.0°
Efficiency 87 %
Peak intensity 13.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

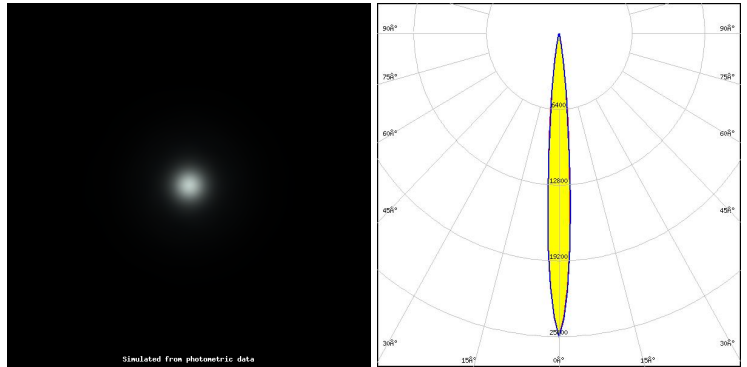


Light distribution files

OPTICAL RESULTS (SIMULATED):



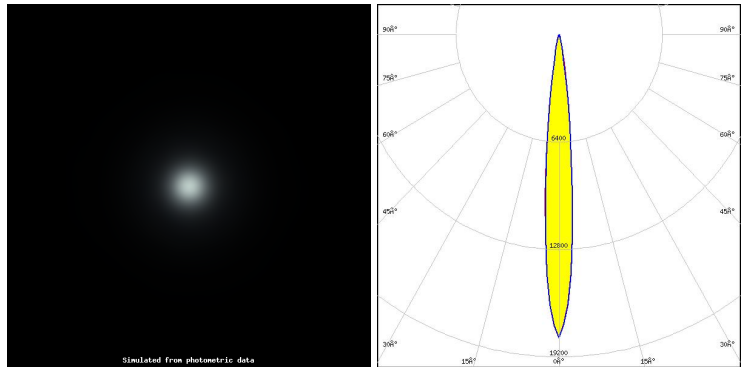
LED SFT-12R-W-A
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 89 %
 Peak intensity 25.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



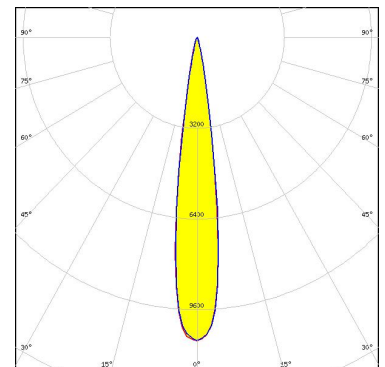
LED SFT-25R-W-A
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 89 %
 Peak intensity 18.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SFT-40 Gen2
 FWHM / FWTM 16.0° / 26.0°
 Efficiency 90 %
 Peak intensity 10.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

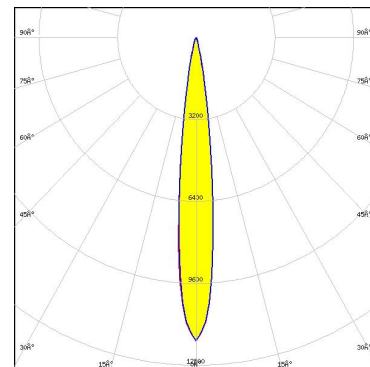


Light distribution files

OPTICAL RESULTS (SIMULATED):



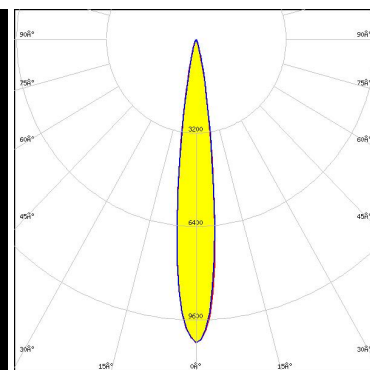
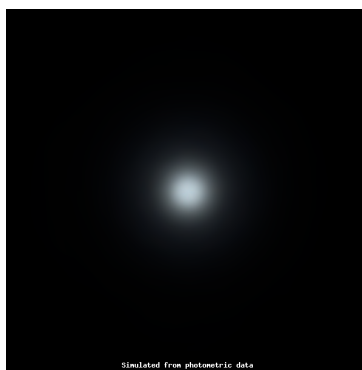
LED SST-20 Gen1
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 86 %
 Peak intensity 11.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



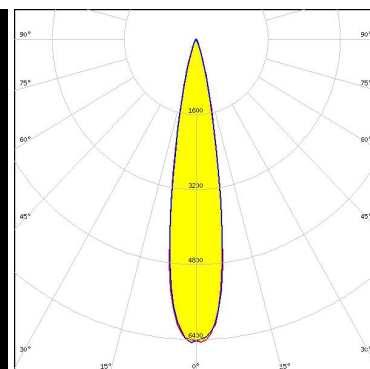
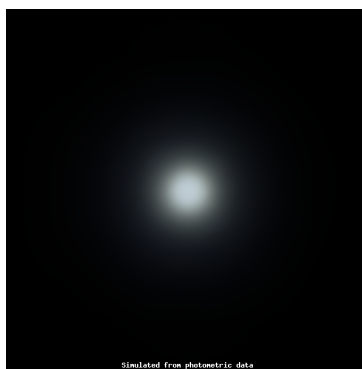
LED SST-20 Gen2
 FWHM / FWTM 14.0° / 26.0° + 27.0°
 Efficiency 86 %
 Peak intensity 10.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-20F-W
 FWHM / FWTM 19.0° + 18.0° / 34.0°
 Efficiency 90 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

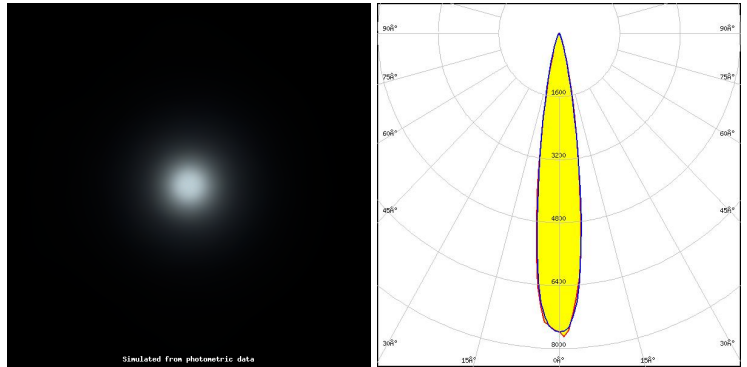


Light distribution files

OPTICAL RESULTS (SIMULATED):



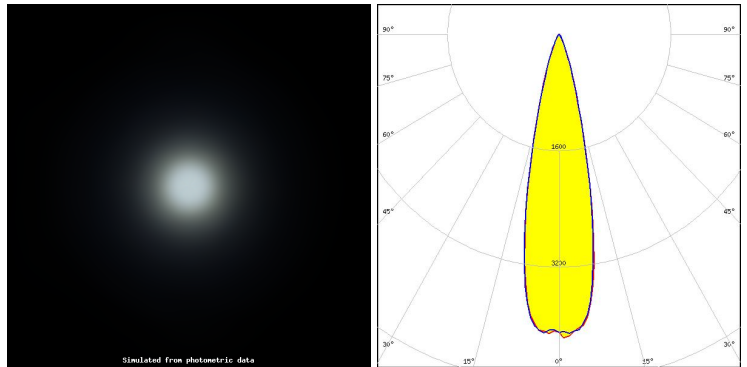
LED SST-25-W
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 87 %
 Peak intensity 7.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



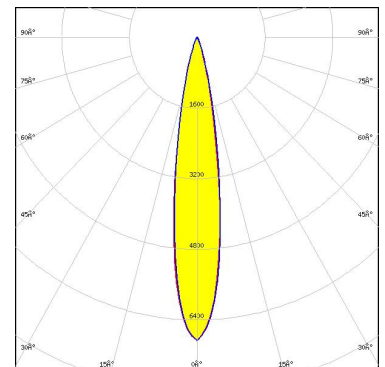
LED SST-36F-W
 FWHM / FWTM 24.0° / 42.0°
 Efficiency 88 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NF2W757H
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 89 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

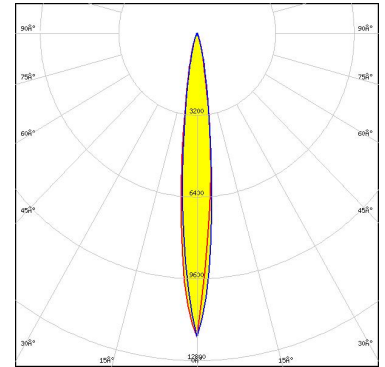


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED NFSx757G
FWHM / FWTM 12.0° / 27.0°
Efficiency 88 %
Peak intensity 11.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

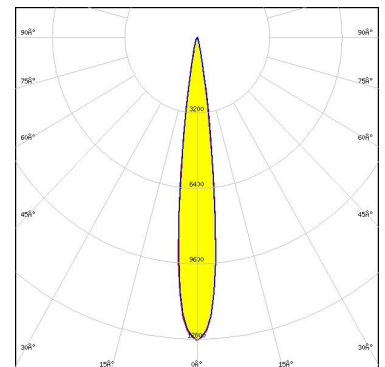


LED NV4WB35AM
FWHM / FWTM 24.0° / 46.0°
Efficiency 86 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED NVSW219C-V2
FWHM / FWTM 14.0° / 24.0° + 23.0°
Efficiency 88 %
Peak intensity 12.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

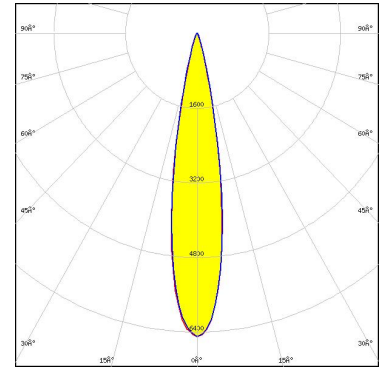


Light distribution files

OPTICAL RESULTS (SIMULATED):



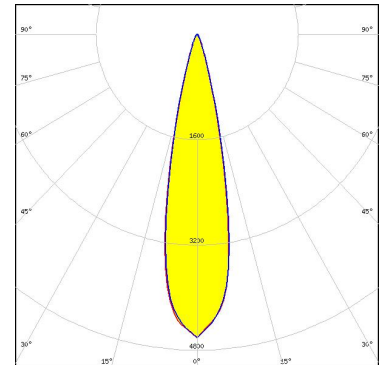
LED NVSW219F-V2
FWHM / FWTM 19.0° / 32.0°
Efficiency 87 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



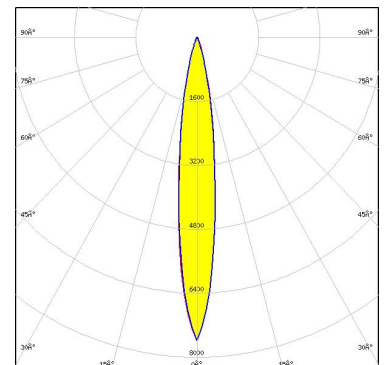
LED NVSW519A
FWHM / FWTM 22.0° / 38.0°
Efficiency 83 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSxE21A
FWHM / FWTM 14.0° / 32.0°
Efficiency 80 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

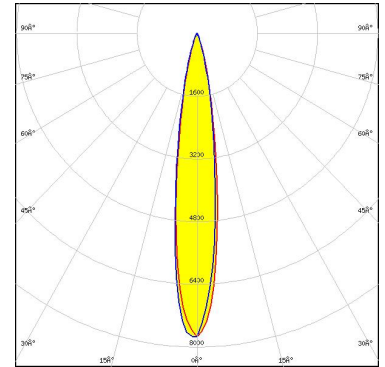


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

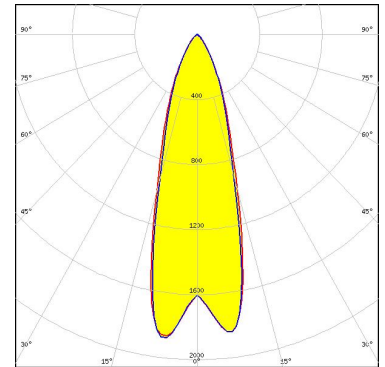
LED DURIS S5 (2 chip)
FWHM / FWTM 15.0° / 33.0°
Efficiency 88 %
Peak intensity 7.8 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

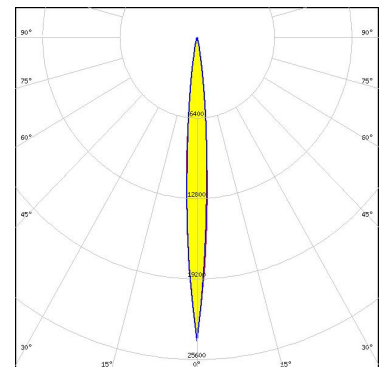
LED Duris S8
FWHM / FWTM 31.0° / 63.0°
Efficiency 76 %
Peak intensity 1.9 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLOM Black Flat S (KW HHL533.TK)
FWHM / FWTM 8.0° / 20.0°
Efficiency 86 %
Peak intensity 24.1 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:

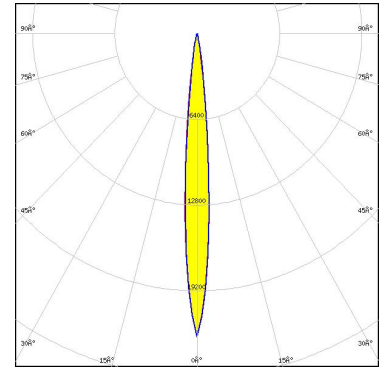


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

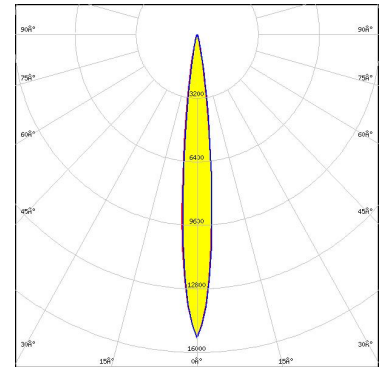
LED OSLON Pure 1414
FWHM / FWTM 10.0° / 18.0°
Efficiency 89 %
Peak intensity 22.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

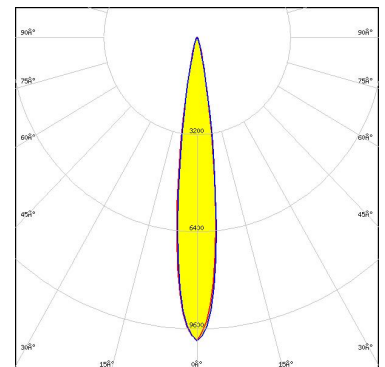
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 12.0° / 23.0°
Efficiency 87 %
Peak intensity 15.3 cd/lm
LEDs/each optic 1
Light colour/type Far Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 15.0° / 27.0°
Efficiency 88 %
Peak intensity 10 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

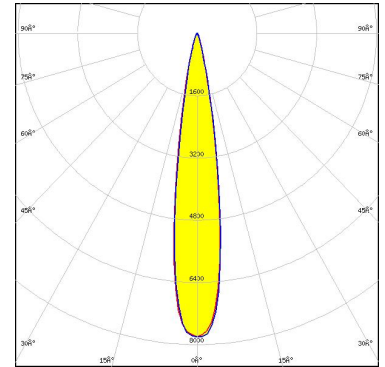


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

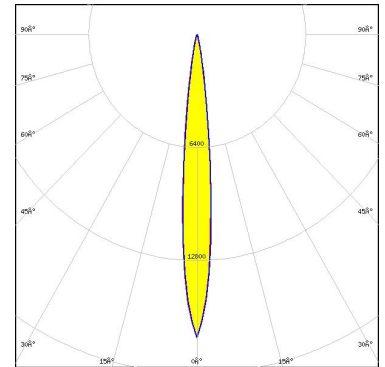
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 17.0° / 30.0°
Efficiency 87 %
Peak intensity 7.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

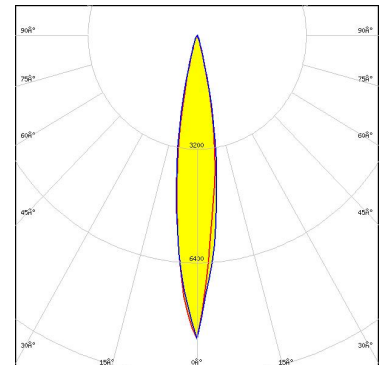
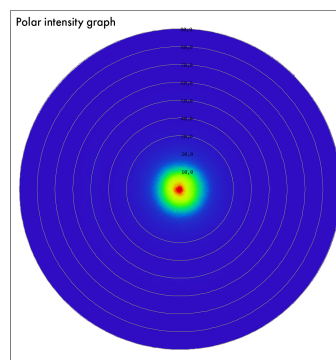
LED OSLON SSL 150
FWHM / FWTM 11.0° / 22.0°
Efficiency 88 %
Peak intensity 17.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 16.0° / 30.0°
Efficiency 86 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour/type IR
Required components:

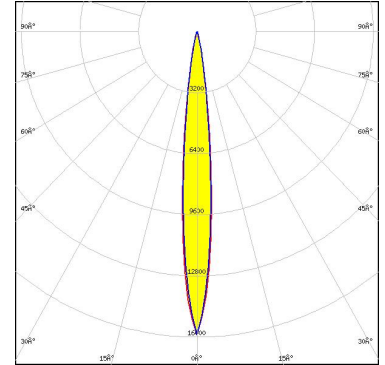
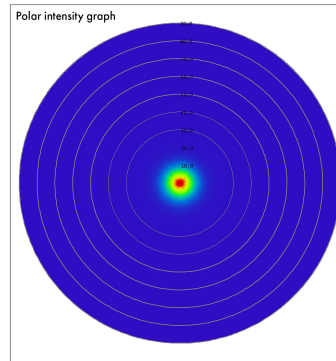


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

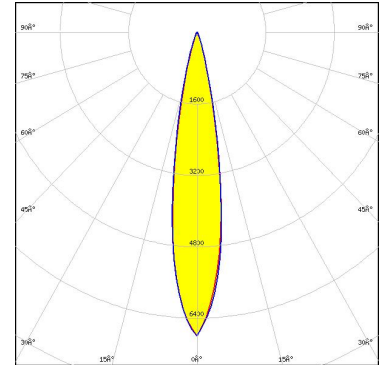
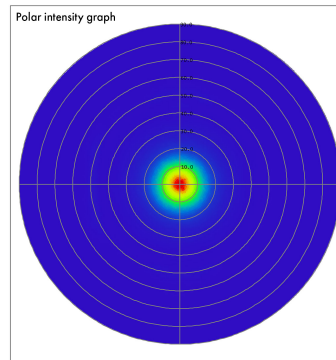
LED SFH 4716S
FWHM / FWTM 11.0° / 22.0°
Efficiency 86 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

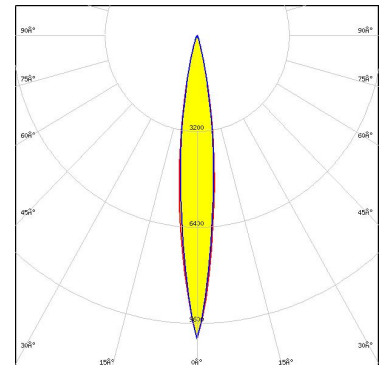
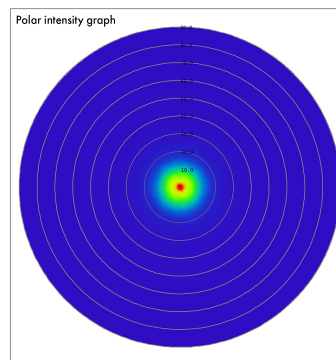
LED SFH 4725AS
FWHM / FWTM 18.0° / 32.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4725S
FWHM / FWTM 13.0° / 28.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:

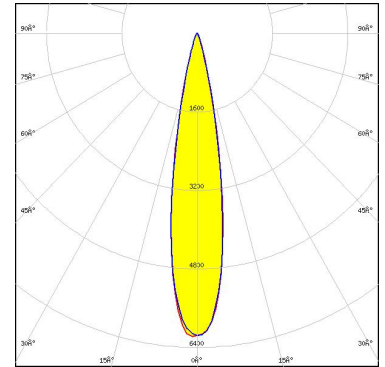


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

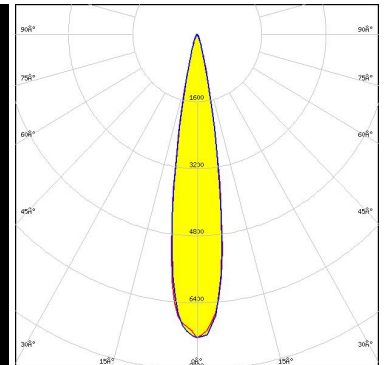
LED LH351B
 FWHM / FWTM 20.0° / 34.0°
 Efficiency 86 %
 Peak intensity 6.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



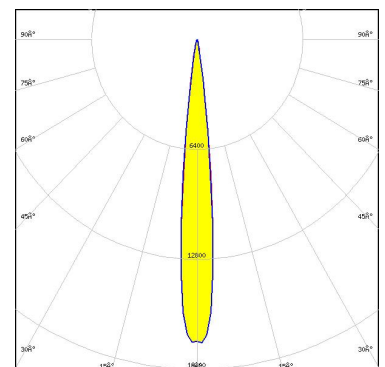
LED Z5M3-E1
 FWHM / FWTM 18.0° / 32.0°
 Efficiency 90 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED MGN1108MS
 FWHM / FWTM 12.0° / 20.0°
 Efficiency 88 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:

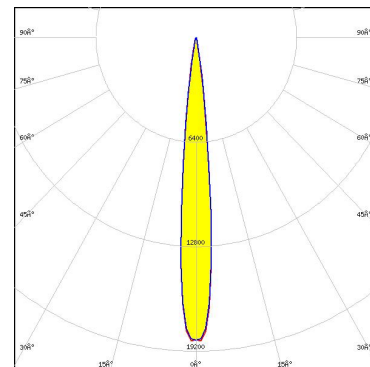


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED	MJN1108MS
FWHM / FWTM	12.0° / 20.0°
Efficiency	89 %
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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