

HB-IP-2X6-RS

~20° spot beam

SPECIFICATION:

Dimensions	173.0 x 71.4
Height	11.4 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

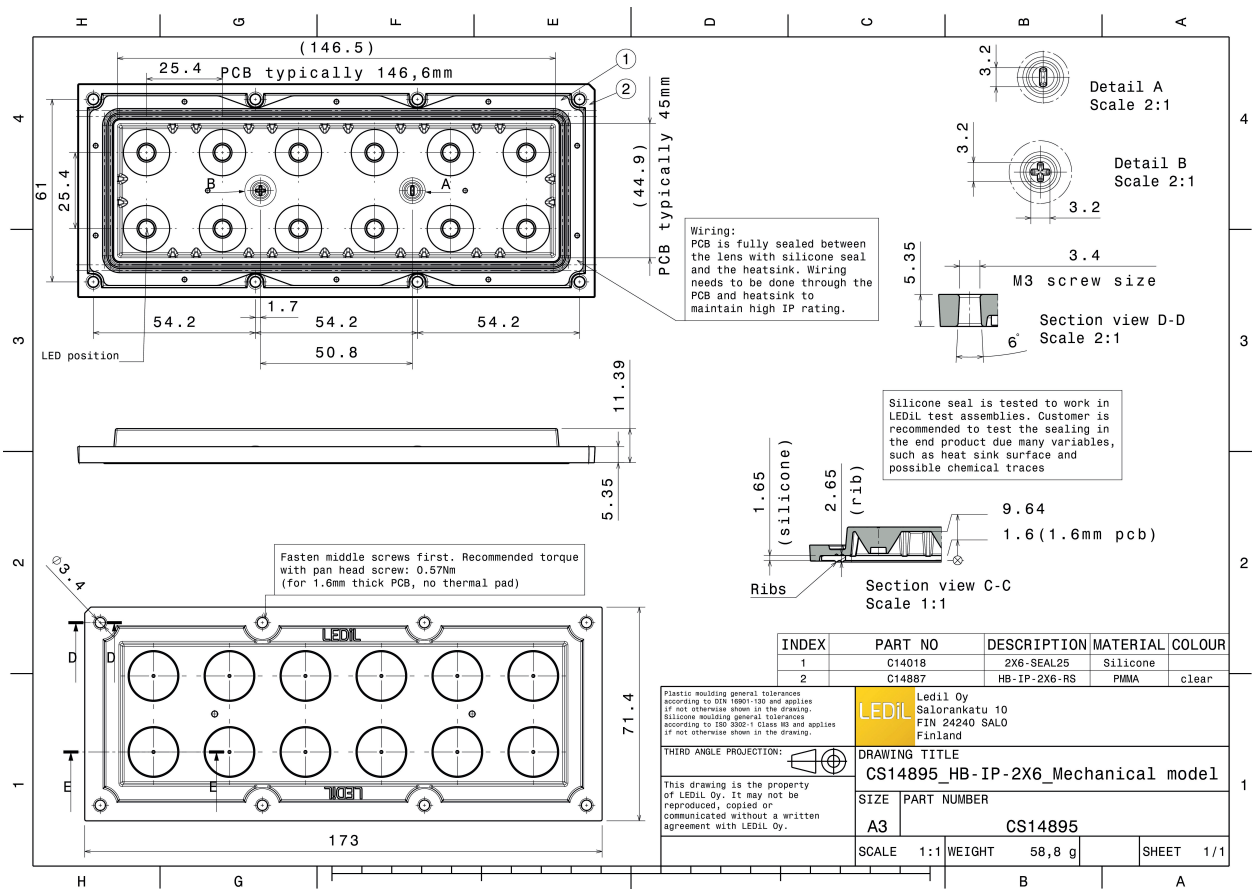
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
HB-IP-2X6-RS	Multi-lens	PMMA	clear		
2X6-SEAL25	Seal	Silicone	white		



ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14895_HB-IP-2X6-RS	Multi-lens	120	40	40	8.0
» Box size: 476 x 273 x 247 mm					

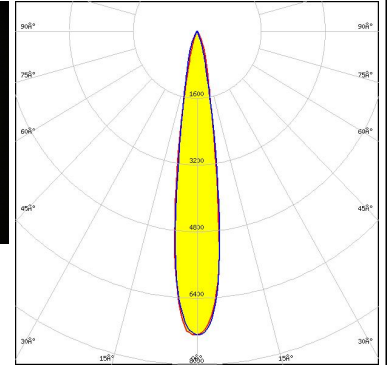


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



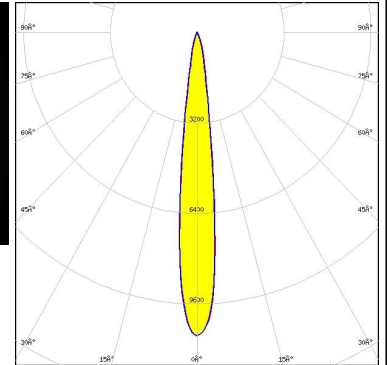
LED QUICK FLUX 2x6 LED XG xxx G7+
 FWHM / FWTM 16.0° / 33.0°
 Efficiency 94 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



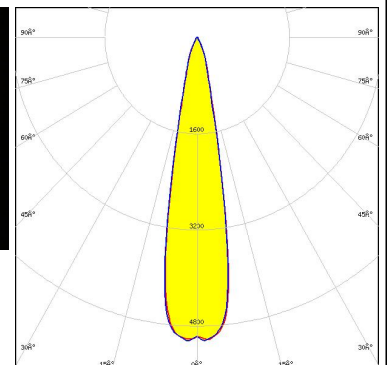
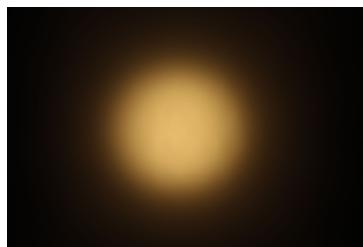
LED QUICK FLUX 2x6 LED XT xxx G5
 FWHM / FWTM 13.0° / 26.0°
 Efficiency 94 %
 Peak intensity 10.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XM-L
 FWHM / FWTM 21.0° / 38.0°
 Efficiency 94 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

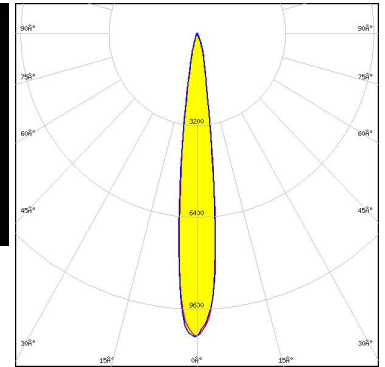


Light distribution files

OPTICAL RESULTS (MEASURED):



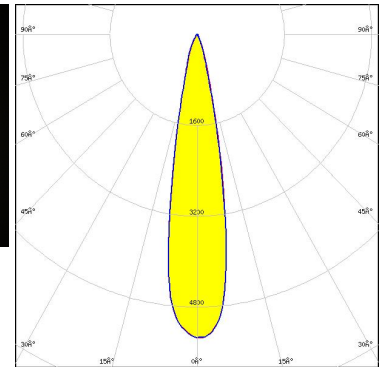
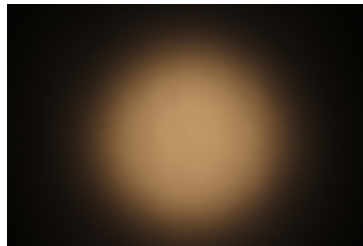
LED XP-G2
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 94 %
 Peak intensity 10.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



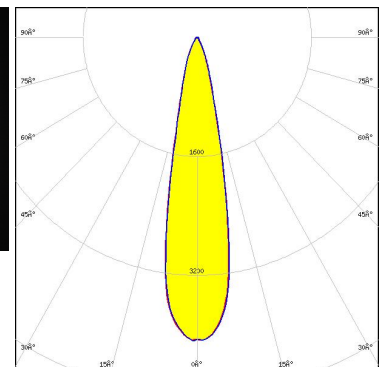
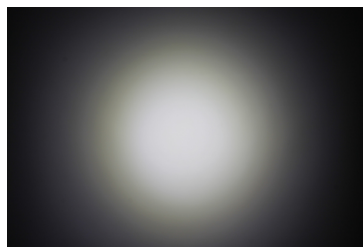
LED XP-L HD
 FWHM / FWTM 20.0° / 37.0°
 Efficiency 93 %
 Peak intensity 5.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-L2
 FWHM / FWTM 22.0° / 43.0°
 Efficiency 93 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

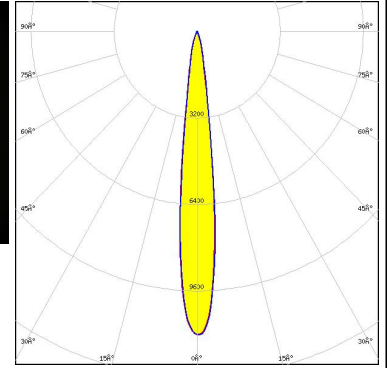


Light distribution files

OPTICAL RESULTS (MEASURED):



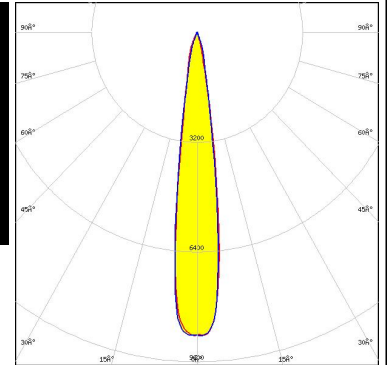
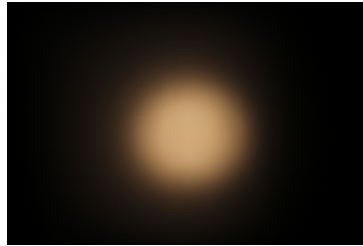
LED XT-E HE
 FWHM / FWTM 13.0° / 26.0°
 Efficiency 94 %
 Peak intensity 11.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



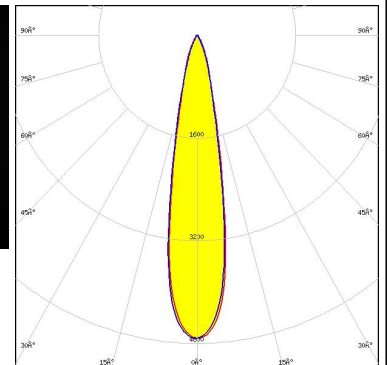
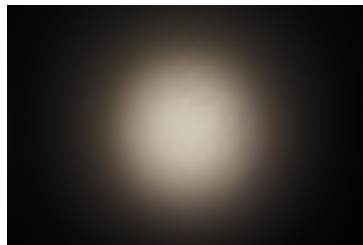
LED LUXEON T
 FWHM / FWTM 15.0° / 29.0°
 Efficiency 94 %
 Peak intensity 8.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON V
 FWHM / FWTM 20.0° / 41.0°
 Efficiency 92 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

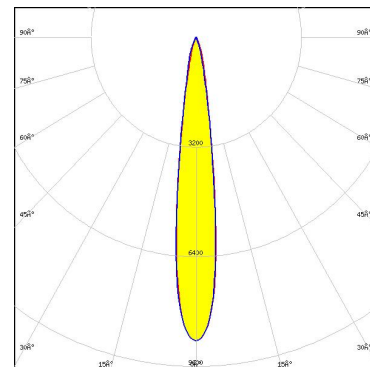


Light distribution files

OPTICAL RESULTS (MEASURED):



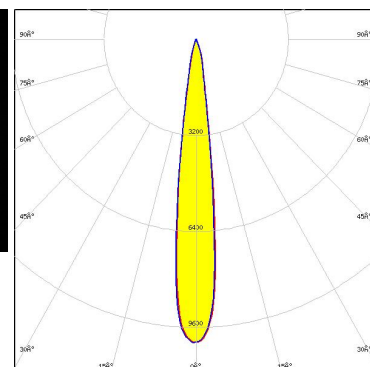
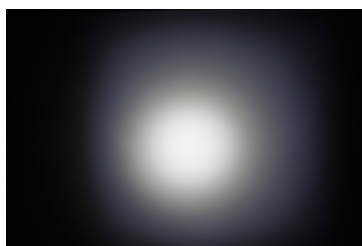
LED LUXEON V2
FWHM / FWTM 15.0° / 30.0°
Efficiency 94 %
Peak intensity 8.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



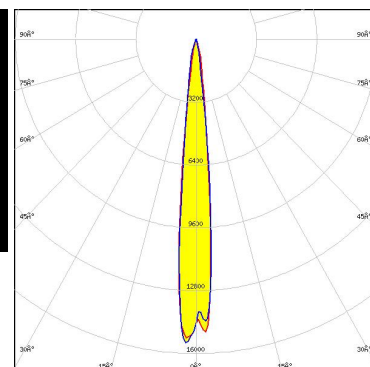
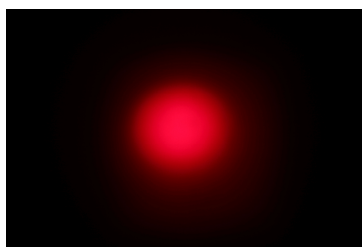
LED LUXEON XR-TX (L2T0-xxxx012M0000)
FWHM / FWTM 14.0° / 27.0°
Efficiency 92 %
Peak intensity 10.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED SST-10-B130
FWHM / FWTM 12.0° / 22.0°
Efficiency 94 %
Peak intensity 15.6 cd/lm
LEDs/each optic 1
Light colour/type Deep Red
Required components:

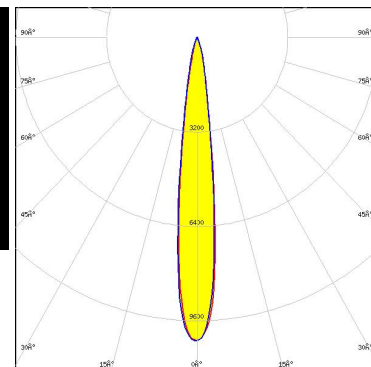


Light distribution files

OPTICAL RESULTS (MEASURED):

MST | Your solutions

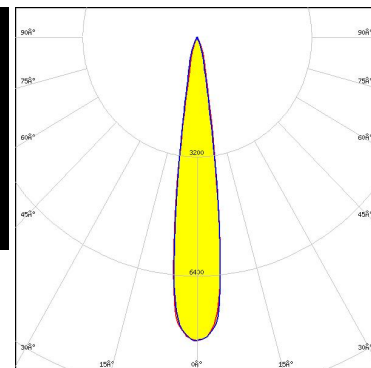
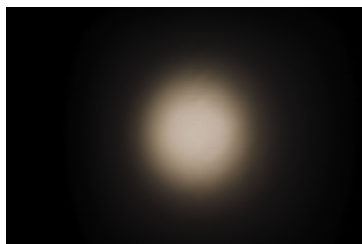
LED RecLED 146x45mm 2900lm 730 2x6 IP G1
 FWHM / FWTM 14.0° / 27.0°
 Efficiency 95 %
 Peak intensity 10.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

NICHIA

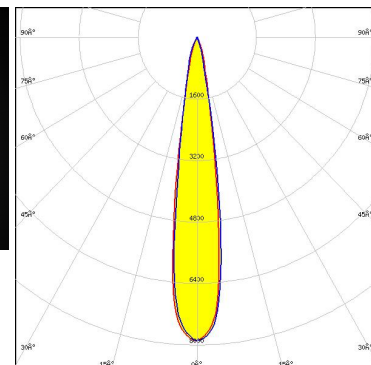
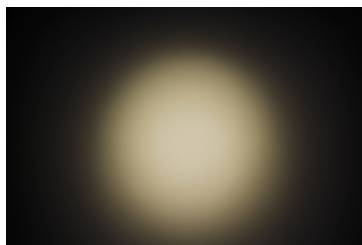
LED NVSW219D
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 94 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

NICHIA

LED NVSW219F-V2
 FWHM / FWTM 16.0° / 31.0°
 Efficiency 8 %
 Peak intensity 94 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

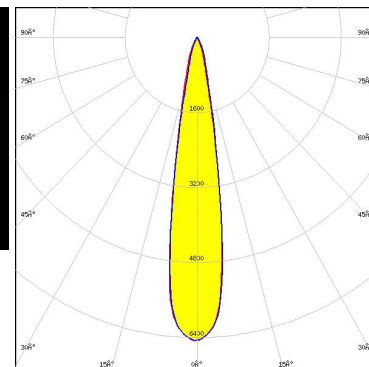
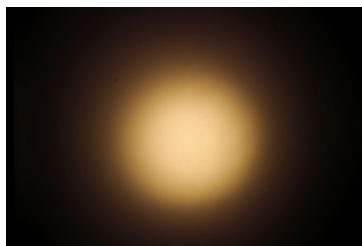


Light distribution files

OPTICAL RESULTS (MEASURED):



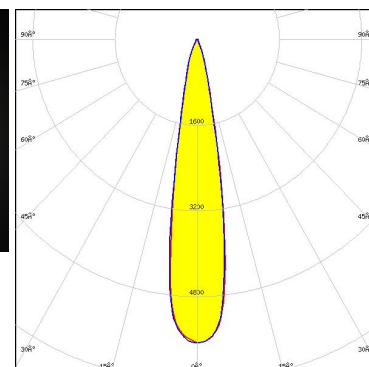
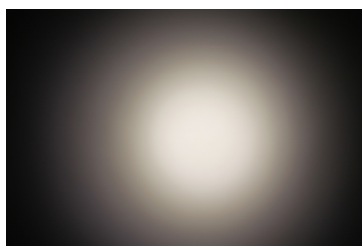
LED NVSW319B
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 94 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



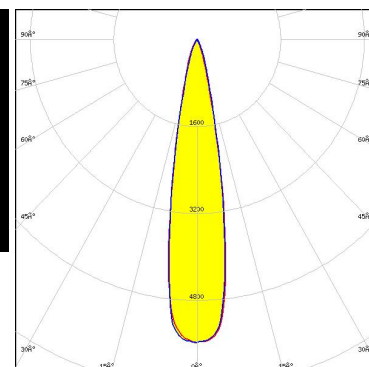
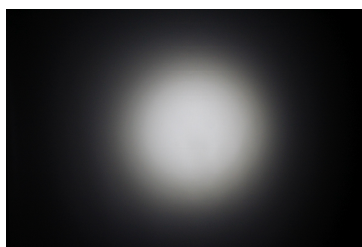
LED NVSW3x9A
 FWHM / FWTM 19.0° / 36.0°
 Efficiency 92 %
 Peak intensity 5.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW519A
 FWHM / FWTM 20.0° / 37.0°
 Efficiency 95 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

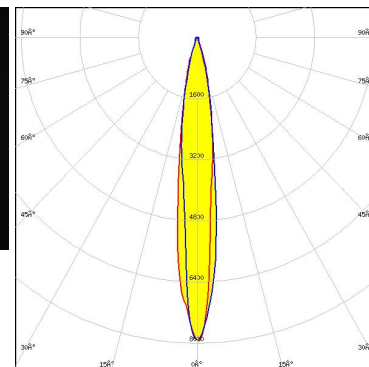


Light distribution files

OPTICAL RESULTS (MEASURED):



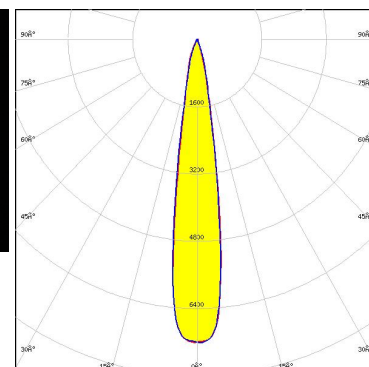
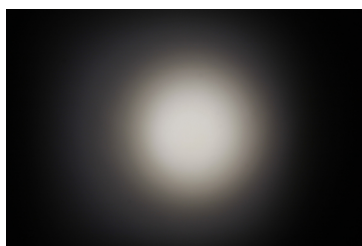
LED NVSxE21A
 FWHM / FWTM 13.0° / 33.0°
 Efficiency 94 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



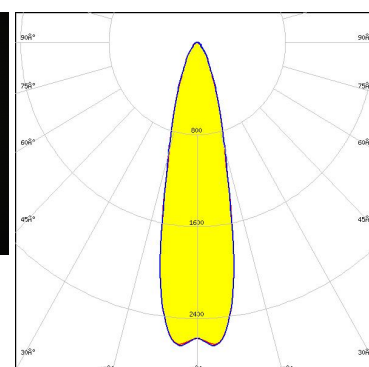
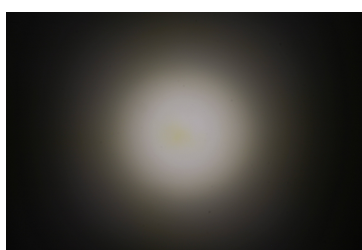
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 92 %
 Peak intensity 7.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSCONIQ S 5050 (Q9LR32)
 FWHM / FWTM 26.0° / 55.0°
 Efficiency 96 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

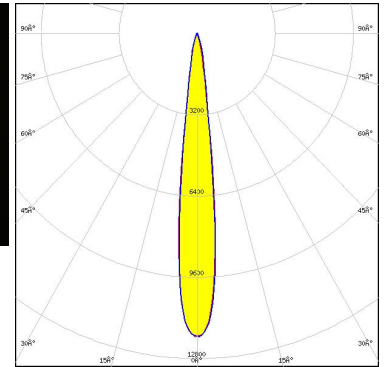


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

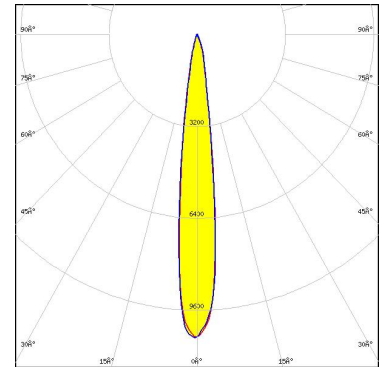
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 13.0° / 24.0°
Efficiency 94 %
Peak intensity 12 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

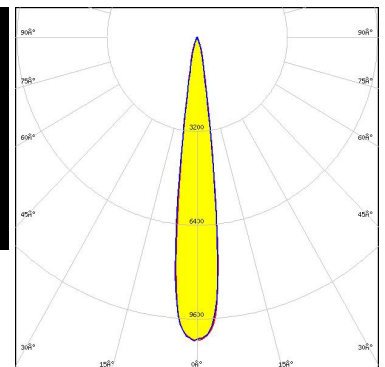
LED Fortimo FastFlex LED 2x6 DP G4
FWHM / FWTM 13.0° / 27.0°
Efficiency 94 %
Peak intensity 10.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo FastFlex LED 2x6 DP G5
FWHM / FWTM 14.0° / 26.0°
Efficiency 96 %
Peak intensity 10.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

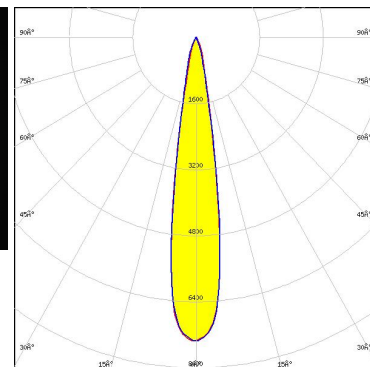
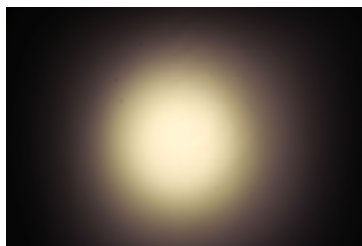


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

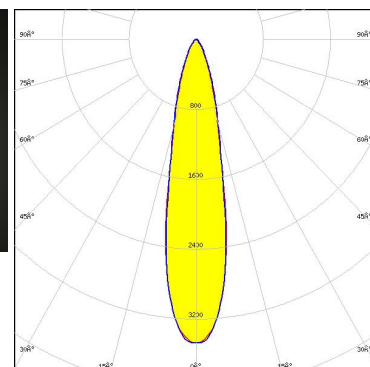
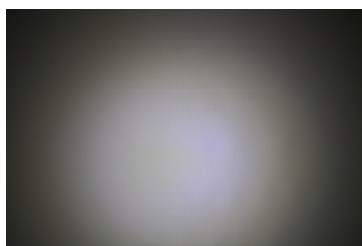
LED	HiLOM RH12 (LH351C)
FWHM / FWTM	17.0° / 31.0°
Efficiency	94 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SCIOLUX

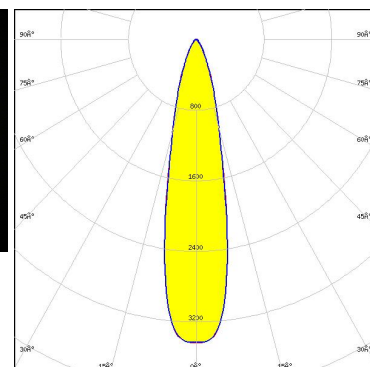
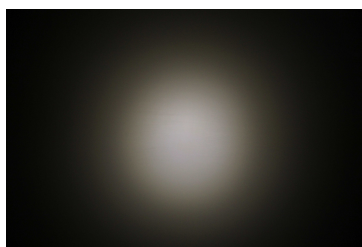
LED	BALAM-VP-5250-750-36
FWHM / FWTM	22.0° / 50.0°
Efficiency	95 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SCIOLUX

LED	BALAMEC-VE-5700-740-36
FWHM / FWTM	23.0° / 50.0°
Efficiency	96 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

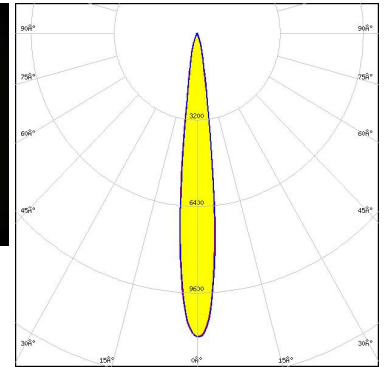


Light distribution files

OPTICAL RESULTS (MEASURED):



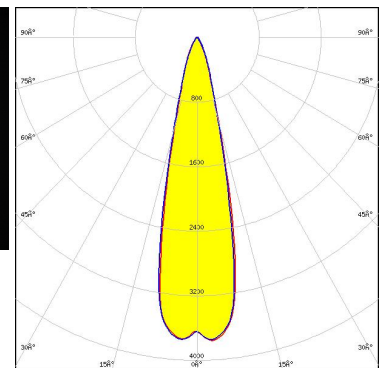
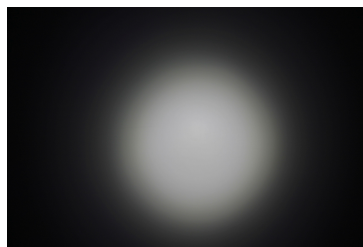
LED XLE-S22C4XTEHE (XT-E HE)
 FWHM / FWTM 13.0° / 26.0°
 Efficiency 94 %
 Peak intensity 11.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



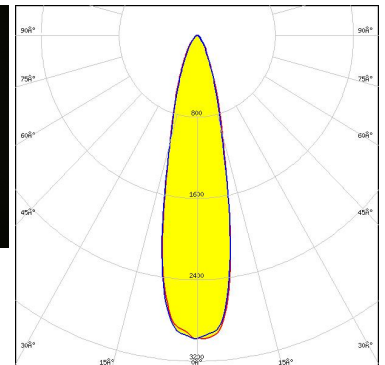
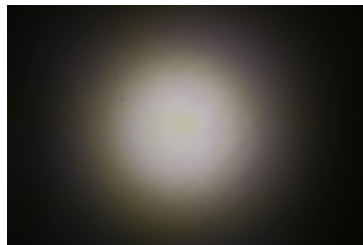
LED XLE-S26XHP35 (XHP35 HD)
 FWHM / FWTM 24.0° / 45.0°
 Efficiency 94 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED 2x6 5050 module - SMJD-3625012F-XX
 FWHM / FWTM 24.0° / 53.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

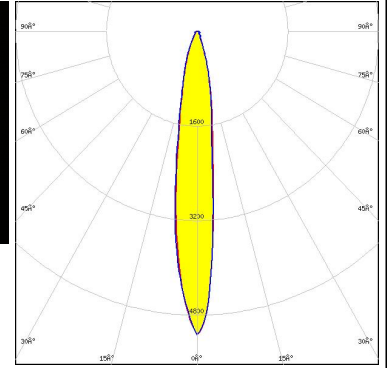


Light distribution files

OPTICAL RESULTS (MEASURED):



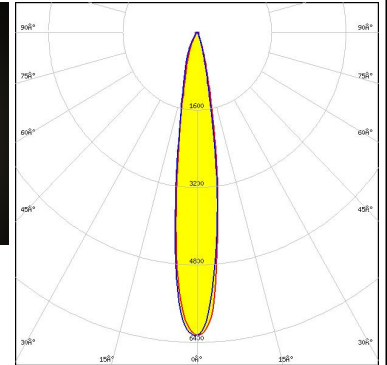
LED SMJQ-D36W12Mx
 FWHM / FWTM 15.0° / 39.0°
 Efficiency 89 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



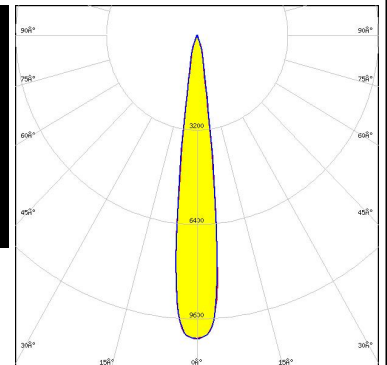
LED SMJQ-D36W12Px
 FWHM / FWTM 16.0° / 36.0°
 Efficiency 93 %
 Peak intensity 6.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z5M1/Z5M2
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 94 %
 Peak intensity 10 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

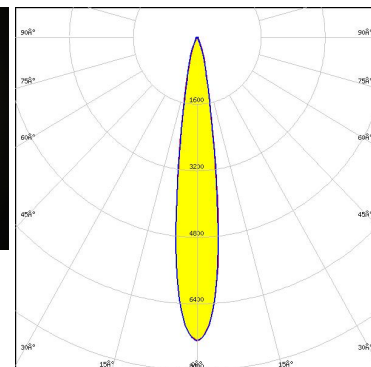
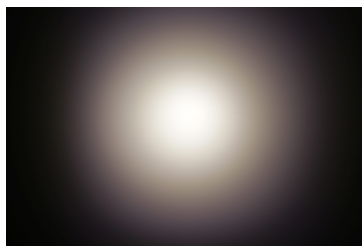


Light distribution files

OPTICAL RESULTS (MEASURED):



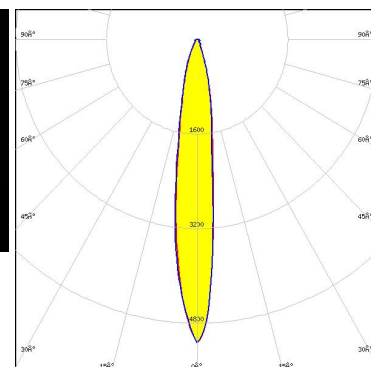
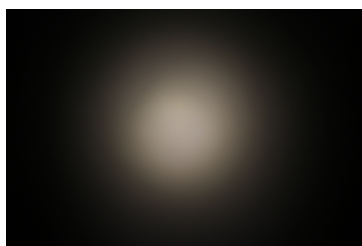
LED Z5M3
 FWHM / FWTM 16.0° / 33.0°
 Efficiency 95 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



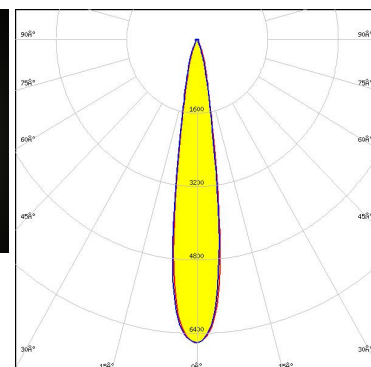
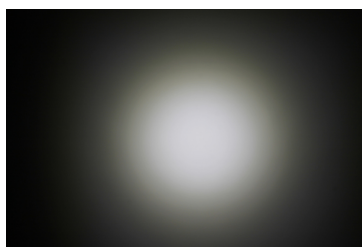
LED Z8Y22
 FWHM / FWTM 15.0° / 39.0°
 Efficiency 89 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z8Y22P
 FWHM / FWTM 17.0° / 34.0°
 Efficiency 92 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

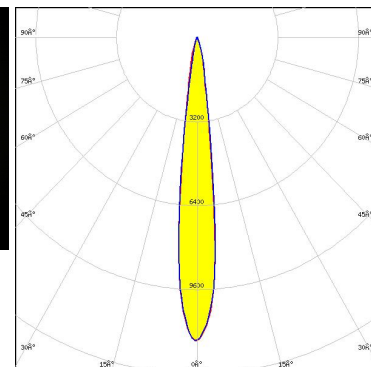
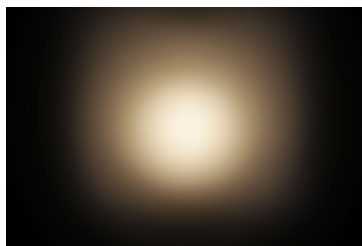


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

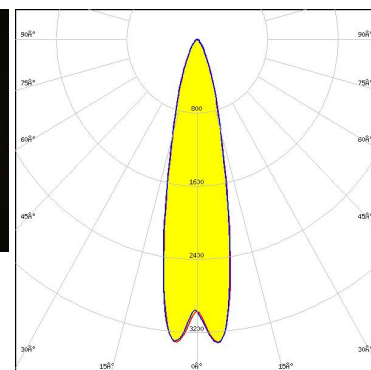
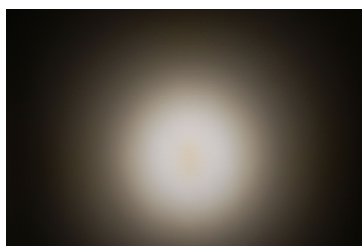
LED RLE 2x6 3000lm HP EXC2 OTD
FWHM / FWTM 13.0° / 25.0°
Efficiency 94 %
Peak intensity 11.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

LED RLE 2x6 4500lm HP HE EXC3 OTD Z19
FWHM / FWTM 24.0° / 50.0°
Efficiency 96 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

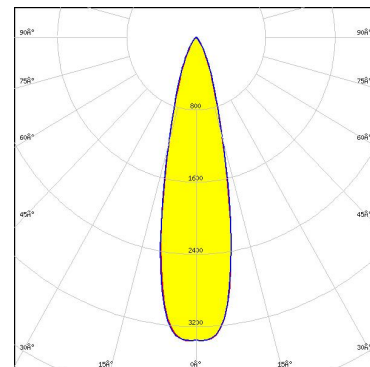


Light distribution files

OPTICAL RESULTS (SIMULATED):



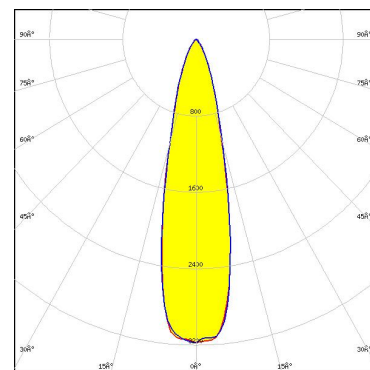
LED J Series 5050 6V P Class
 FWHM / FWTM 25.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3.4 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



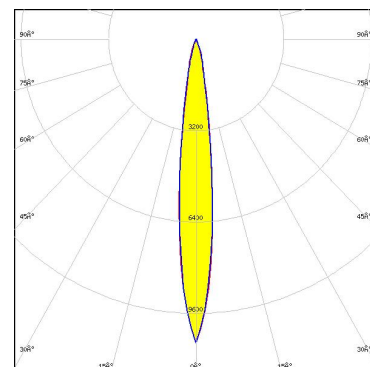
LED J Series 5050B 6V K Class
 FWHM / FWTM 24.0° / 52.0°
 Efficiency 94 %
 Peak intensity 3.2 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XB-H
 FWHM / FWTM 12.0° / 28.0°
 Efficiency 92 %
 Peak intensity 10.6 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

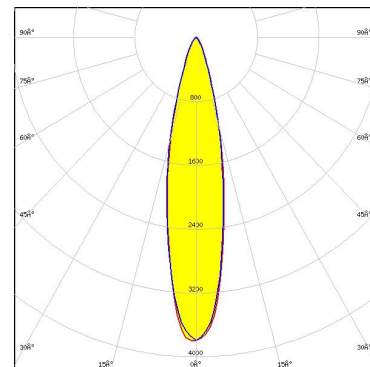


Light distribution files

OPTICAL RESULTS (SIMULATED):



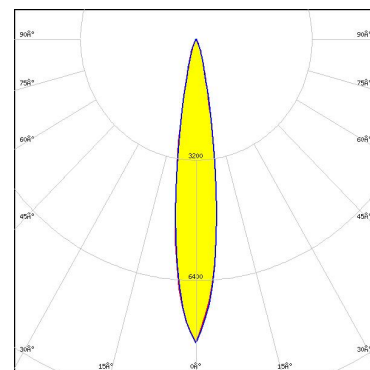
LED XHP35 HD
FWHM / FWTM 22.0° / 46.0°
Efficiency 93 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



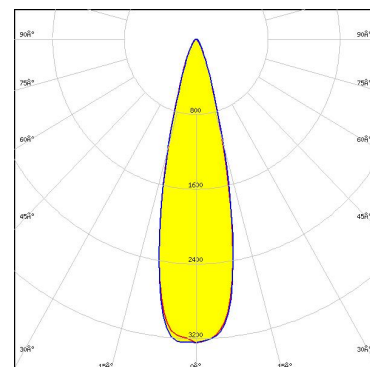
LED XHP35 HI
FWHM / FWTM 16.0° / 32.0°
Efficiency 93 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XHP35.2 HD
FWHM / FWTM 26.0° / 48.0°
Efficiency 92 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

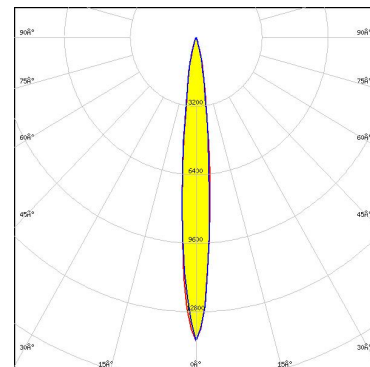


Light distribution files

OPTICAL RESULTS (SIMULATED):



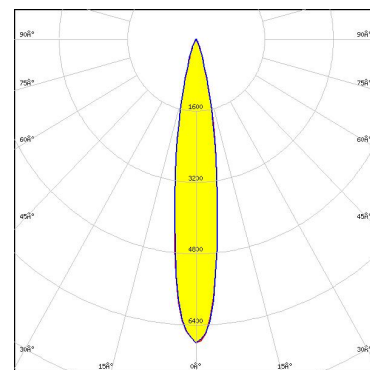
LED XP-E2
 FWHM / FWTM 11.0° / 26.0°
 Efficiency 91 %
 Peak intensity 14.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



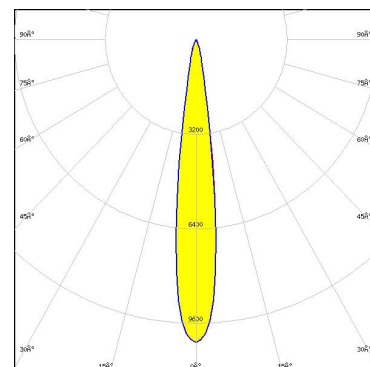
LED XP-G2 HE
 FWHM / FWTM 17.0° / 35.0°
 Efficiency 93 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G4
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 93 %
 Peak intensity 10.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

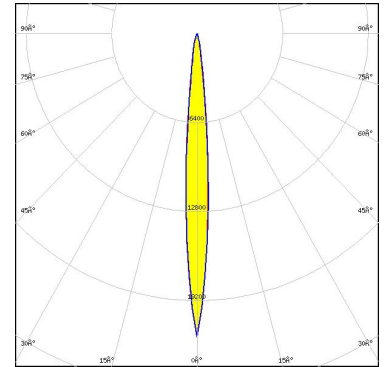


Light distribution files

OPTICAL RESULTS (SIMULATED):



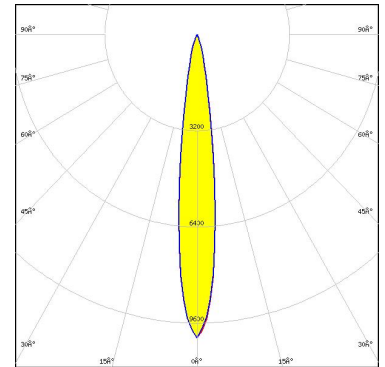
LED XQ-E HD
 FWHM / FWTM 8.0° / 19.0°
 Efficiency 92 %
 Peak intensity 21.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



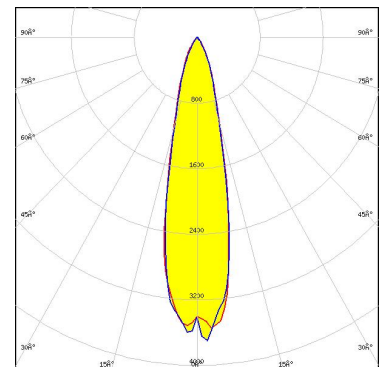
LED PrevaLED Brick HP IP 2x6
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 92 %
 Peak intensity 10.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 5050 Round LES
 FWHM / FWTM 23.0° / 50.0°
 Efficiency 91 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

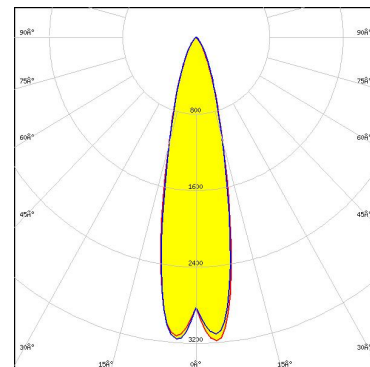


Light distribution files

OPTICAL RESULTS (SIMULATED):



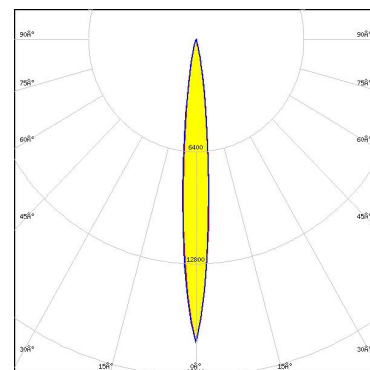
LED LUXEON 5050 Square LES
 FWHM / FWTM 25.0° / 52.0°
 Efficiency 94 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



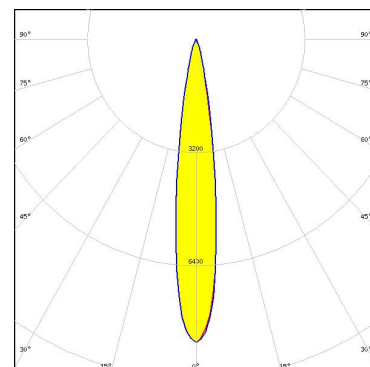
LED LUXEON C
 FWHM / FWTM 10.0° / 23.0°
 Efficiency 91 %
 Peak intensity 17.3 cd/lm
 LEDs/each optic 1
 Light colour/type Cyan
 Required components:



Light distribution files



LED LUXEON HL2X
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 92 %
 Peak intensity 8.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

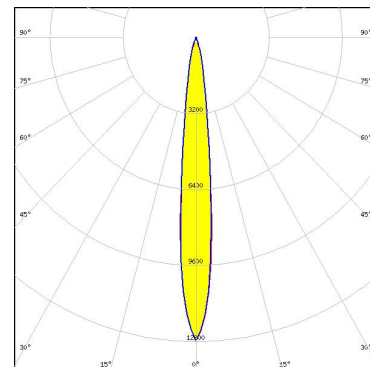


Light distribution files

OPTICAL RESULTS (SIMULATED):



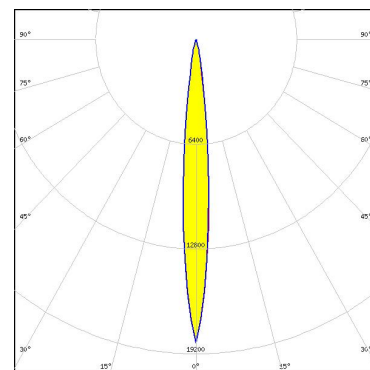
LED LUXEON HL2Z
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 92 %
 Peak intensity 12.8 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



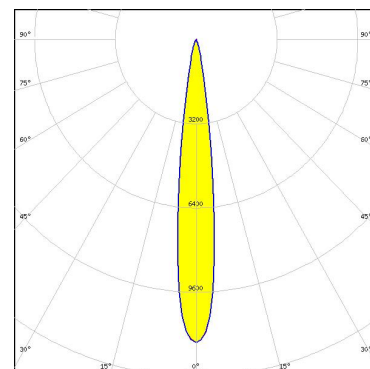
LED LUXEON SunPlus 20 Line (120 deg)
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 94 %
 Peak intensity 18.5 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON TX
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 95 %
 Peak intensity 11.5 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:

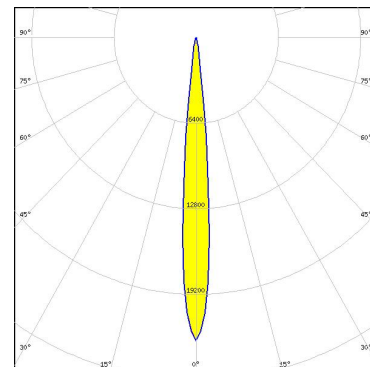


Light distribution files

OPTICAL RESULTS (SIMULATED):



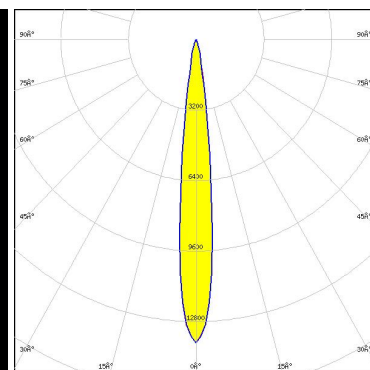
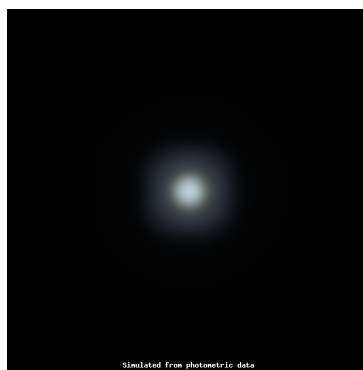
LED	LUXEON Z ES
FWHM / FWTM	10.0° / 18.0°
Efficiency	94 %
Peak intensity	22.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



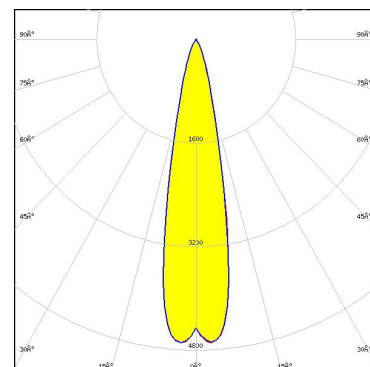
LED	SST-20 Gen2
FWHM / FWTM	12.0° / 24.0°
Efficiency	93 %
Peak intensity	13.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	NV4WB35AM
FWHM / FWTM	22.0° / 40.0°
Efficiency	94 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

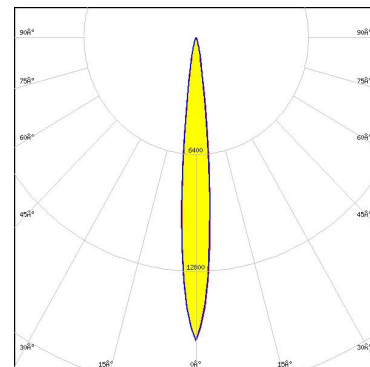


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

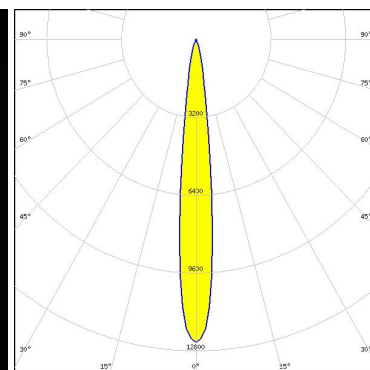
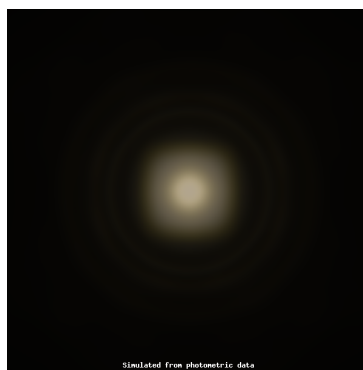
LED OSCONIQ C 2424 Gen1
FWHM / FWTM 11.0° / 22.0°
Efficiency 93 %
Peak intensity 16.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

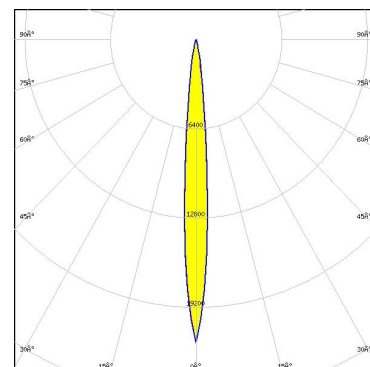
LED OSCONIQ C 2424 Gen2
FWHM / FWTM 12.0° / 26.0°
Efficiency 93 %
Peak intensity 12.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3030
FWHM / FWTM 9.0° / 20.0°
Efficiency 94 %
Peak intensity 21.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

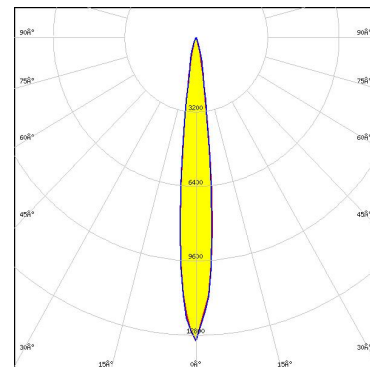


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

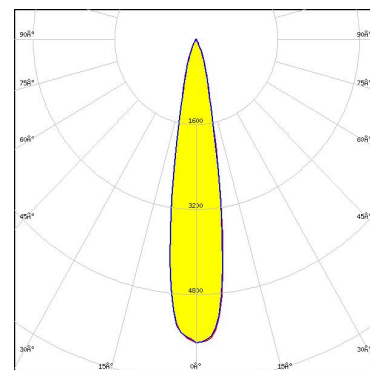
LED OSCONIQ P 3737 (2W) PUSRA1
FWHM / FWTM 12.0° / 25.0°
Efficiency 89 %
Peak intensity 13 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

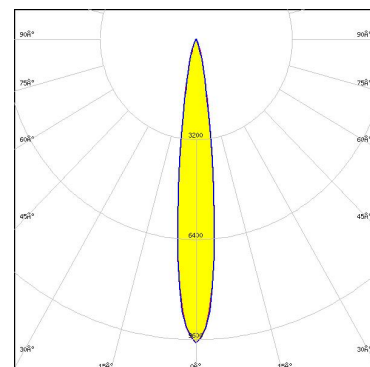
LED OSCONIQ P 3737 (3W) PUSTA1
FWHM / FWTM 19.0° / 37.0°
Efficiency 93 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 Flat
FWHM / FWTM 14.0° / 30.0°
Efficiency 94 %
Peak intensity 9.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

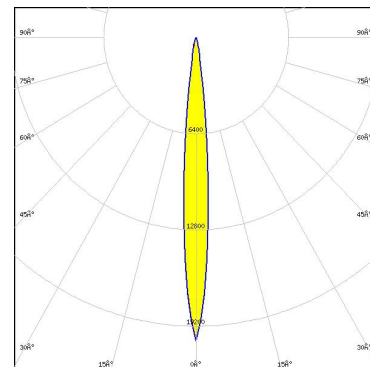


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

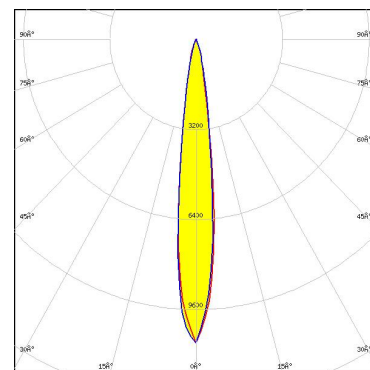
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 10.0° / 20.0°
Efficiency 92 %
Peak intensity 20.2 cd/lm
LEDs/each optic 1
Light colour/type Far Red
Required components:



Light distribution files

SAMSUNG

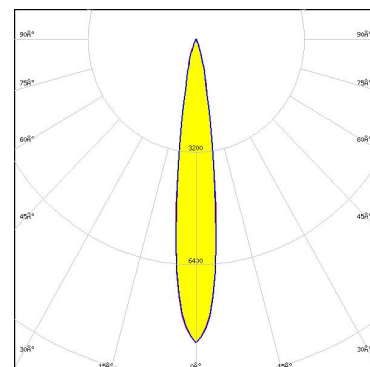
LED LH181B
FWHM / FWTM 13.0° / 28.0°
Efficiency 93 %
Peak intensity 10.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH231B
FWHM / FWTM 16.0° / 32.0°
Efficiency 93 %
Peak intensity 8.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

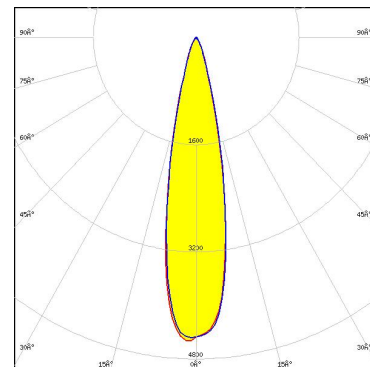


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

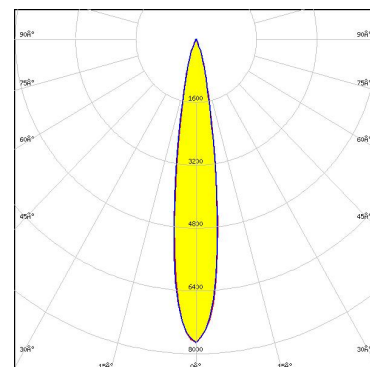
LED LH351D
 FWHM / FWTM 22.0° / 40.0°
 Efficiency 93 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



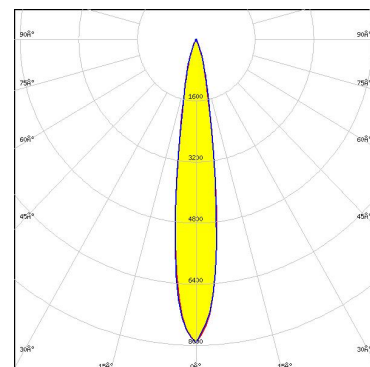
LED Z5M4
 FWHM / FWTM 16.0° / 34.0°
 Efficiency 93 %
 Peak intensity 7.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z8Y22T
 FWHM / FWTM 15.0° / 33.0°
 Efficiency 93 %
 Peak intensity 7.9 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.

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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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