

HB-2X2-RS

~10° spot beam

SPECIFICATION:

Dimensions	50.0 x 50.0
Height	10 mm
Fastening	screw
ROHS compliant	yes ⓘ

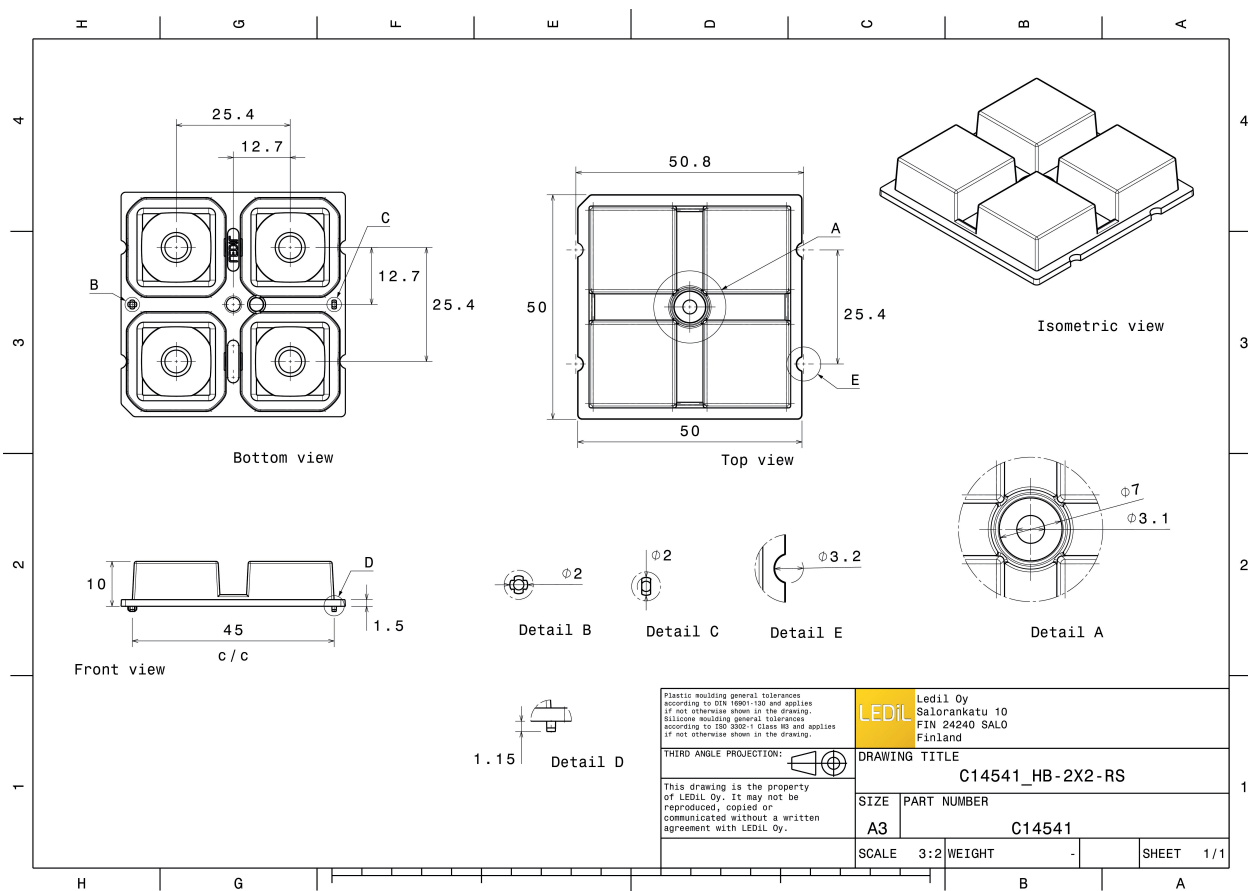
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
HB-2X2-RS	Multi-lens	PMMA	clear		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14541_HB-2X2-RS » Box size: 480 x 280 x 300 mm	800	160	160	10.2



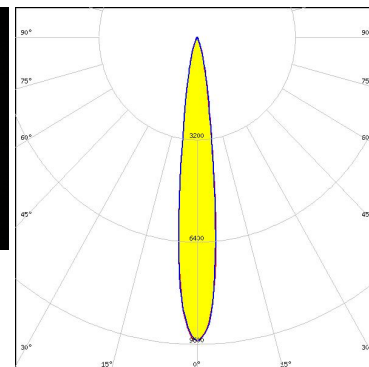


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



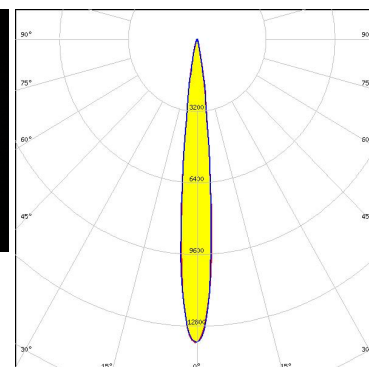
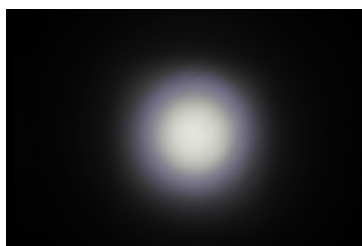
LED QUICK FLUX XTP 2x6 xxx LS G5
 FWHM / FWTM 14.0° / 29.0°
 Efficiency 94 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



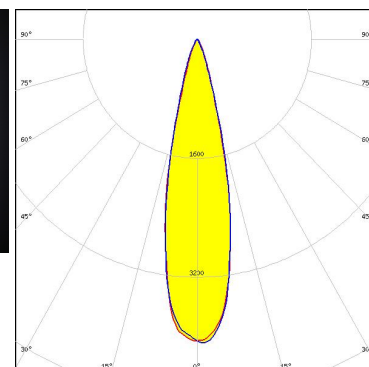
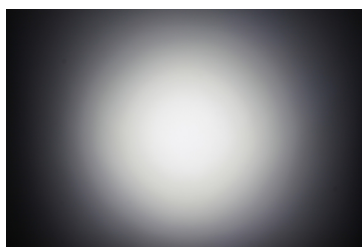
LED XD16
 FWHM / FWTM 11.0° / 23.0°
 Efficiency 93 %
 Peak intensity 13.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XHP35 HD
 FWHM / FWTM 24.0° / 42.0°
 Efficiency 89 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

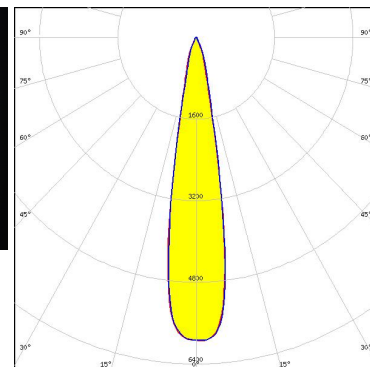
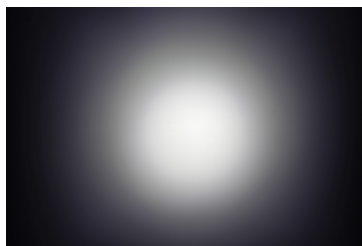


Light distribution files

OPTICAL RESULTS (MEASURED):



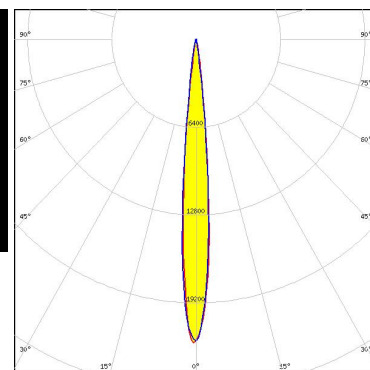
LED XM-L3
FWHM / FWTM 20.0° / 36.0°
Efficiency 96 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



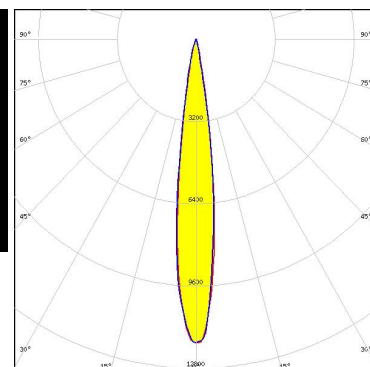
LED XP-E2
FWHM / FWTM 10.0° / 18.0°
Efficiency 94 %
Peak intensity 22.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G2
FWHM / FWTM 14.0° / 25.0°
Efficiency 94 %
Peak intensity 11.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

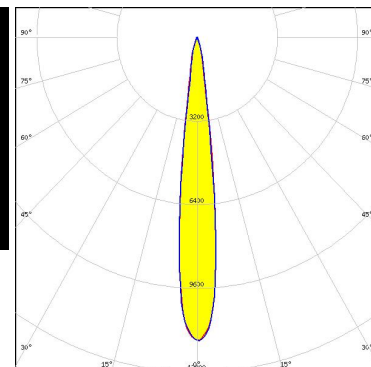


Light distribution files

OPTICAL RESULTS (MEASURED):



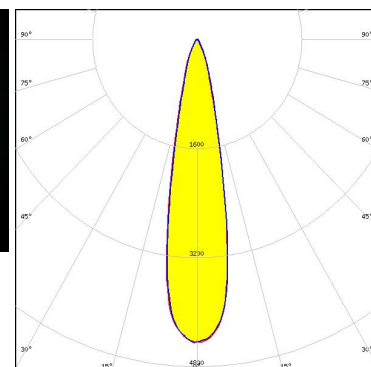
LED XP-L HI
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 94 %
 Peak intensity 11.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



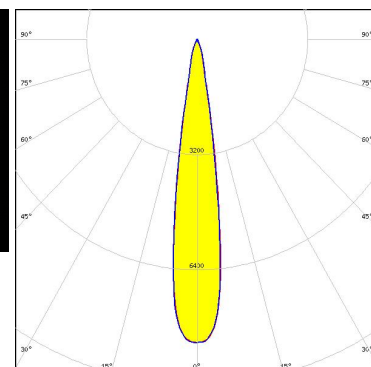
LED XP-L2
 FWHM / FWTM 21.0° / 43.0°
 Efficiency 94 %
 Peak intensity 4.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED PL-BRICK HP 3800 2x8 SSG
 FWHM / FWTM 16.0° / 28.0°
 Efficiency 95 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

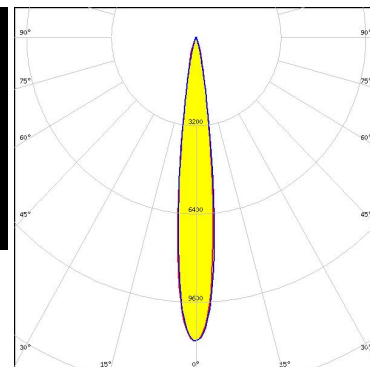
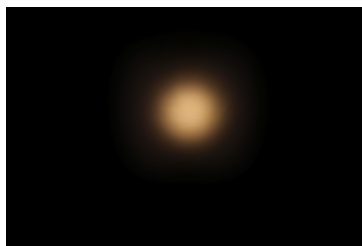


Light distribution files

OPTICAL RESULTS (MEASURED):

inventronics

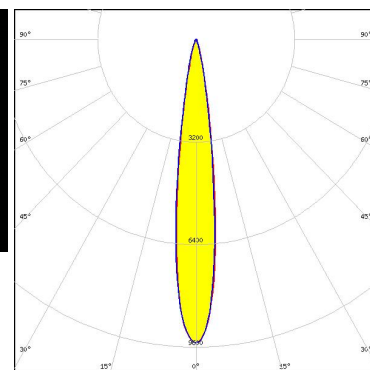
LED PrevaLED Core Z3 LES9
FWHM / FWTM 13.5° / 26.0°
Efficiency 95 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

LUMILEDS

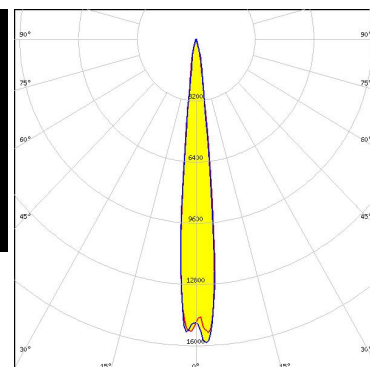
LED LUXEON V2
FWHM / FWTM 15.0° / 28.0°
Efficiency 94 %
Peak intensity 9.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

LUMINUS

LED SST-10-B130
FWHM / FWTM 12.0° / 21.0°
Efficiency 96 %
Peak intensity 15.9 cd/lm
LEDs/each optic 1
Light colour/type Deep Red
Required components:

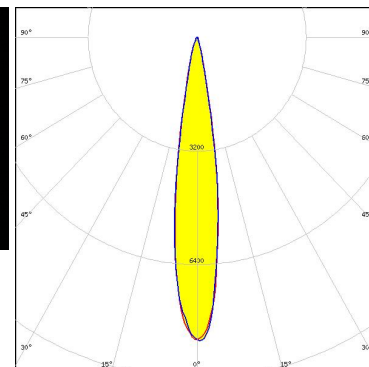


Light distribution files

OPTICAL RESULTS (MEASURED):



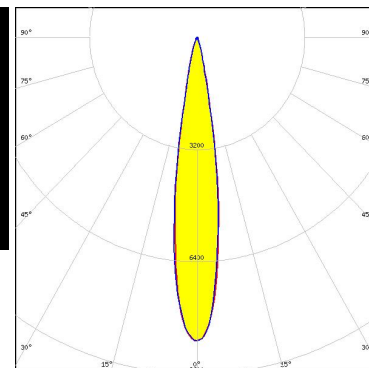
LED NVSW219D
 FWHM / FWTM 17.0° / 29.0°
 Efficiency 94 %
 Peak intensity 8.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



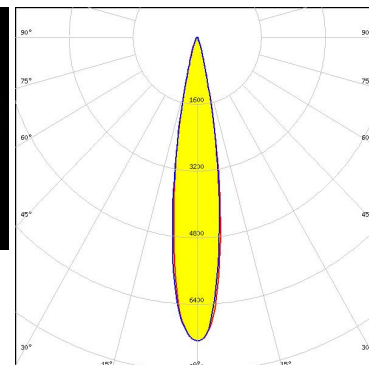
LED NVSW219F-V2
 FWHM / FWTM 17.0° / 29.0°
 Efficiency 94 %
 Peak intensity 8.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW319B
 FWHM / FWTM 18.0° / 32.0°
 Efficiency 94 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

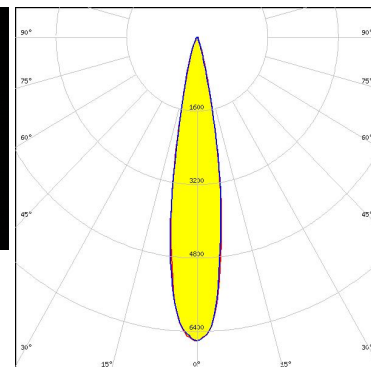


Light distribution files

OPTICAL RESULTS (MEASURED):



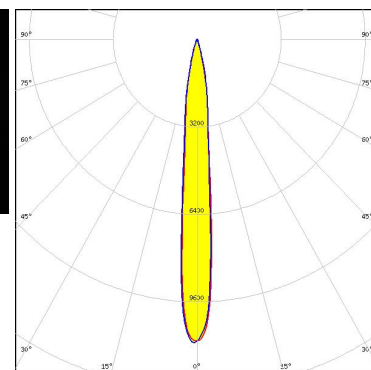
LED NVSW3x9A
 FWHM / FWTM 19.0° / 33.0°
 Efficiency 94 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



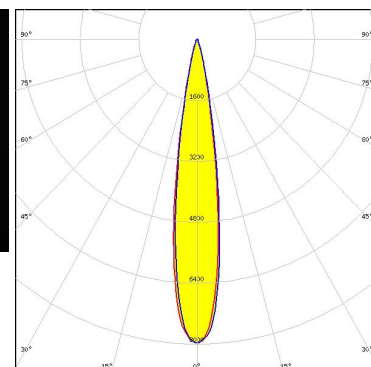
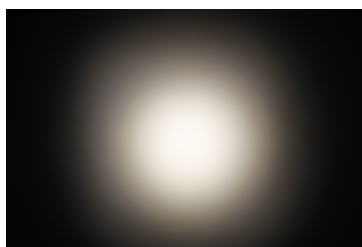
LED NVSxE21A
 FWHM / FWTM 11.0° / 28.0°
 Efficiency 89 %
 Peak intensity 11.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSxx19B/NVSxx19C
 FWHM / FWTM 17.0° / 30.0°
 Efficiency 93 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

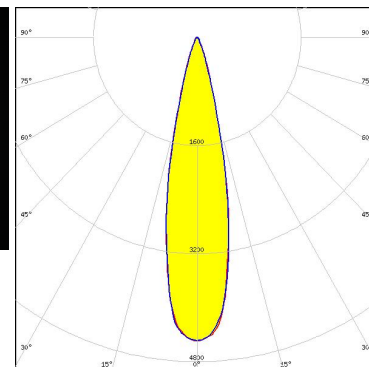
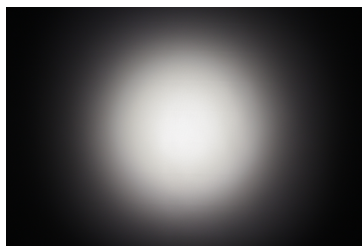


Light distribution files

OPTICAL RESULTS (MEASURED):



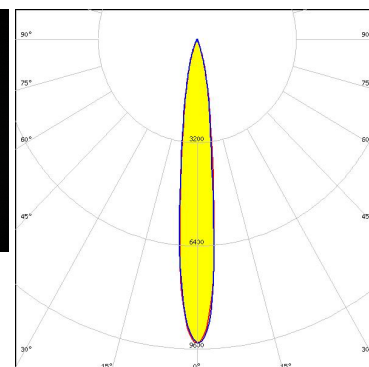
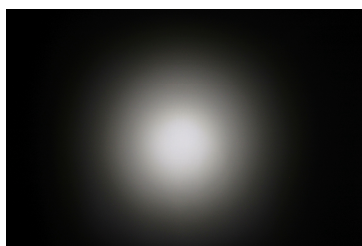
LED NWSx229A
 FWHM / FWTM 23.0° / 41.0°
 Efficiency 94 %
 Peak intensity 4.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



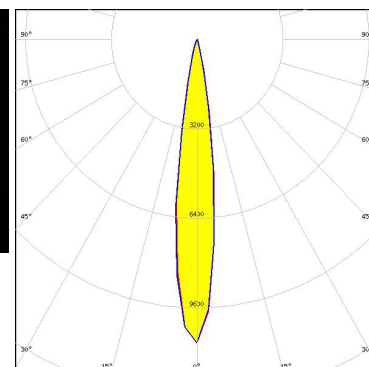
LED OSCONIQ C 3030
 FWHM / FWTM 13.0° / 31.0°
 Efficiency 95 %
 Peak intensity 9.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 15.0° / 27.0°
 Efficiency 90 %
 Peak intensity 11 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

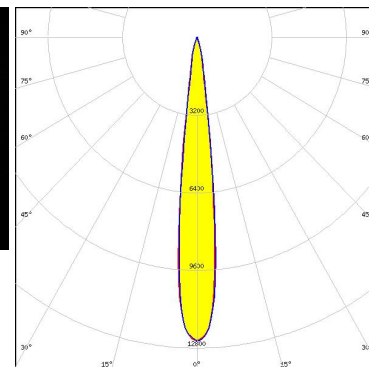


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

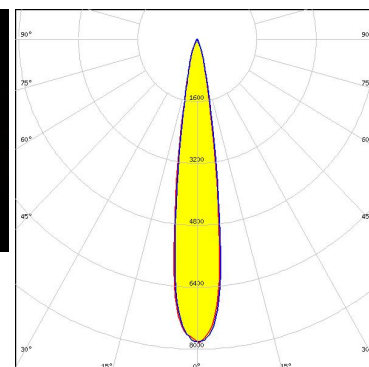
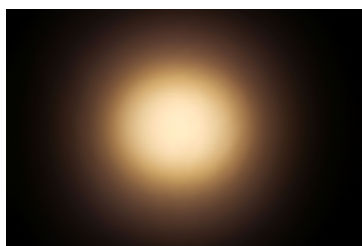
LED Fortimo FastFlex LED 2x8 DA G4
 FWHM / FWTM 13.0° / 23.0°
 Efficiency 93 %
 Peak intensity 12.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

PHILIPS

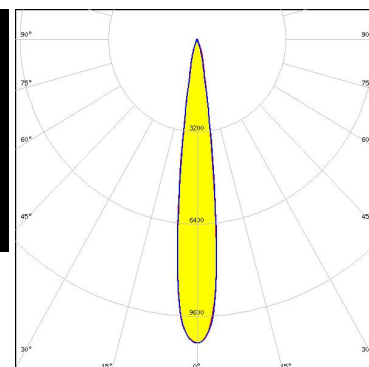
LED Fortimo FastFlex LED 2x8 DA G4+
 FWHM / FWTM 17.0° / 32.0°
 Efficiency 96 %
 Peak intensity 7.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5
 FWHM / FWTM 14.0° / 27.0°
 Efficiency 96 %
 Peak intensity 10.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

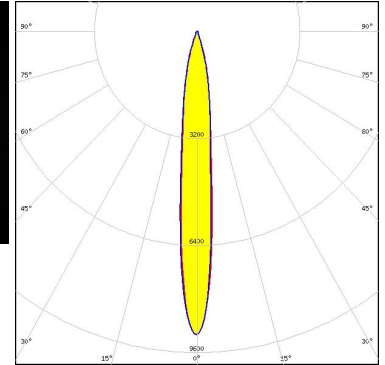


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

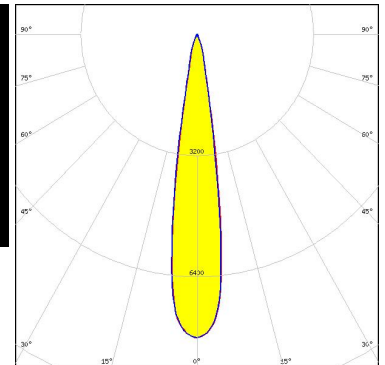
LED HiLOM RC12 Z (LH181B)
 FWHM / FWTM 12.0° / 33.0°
 Efficiency 97 %
 Peak intensity 9.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

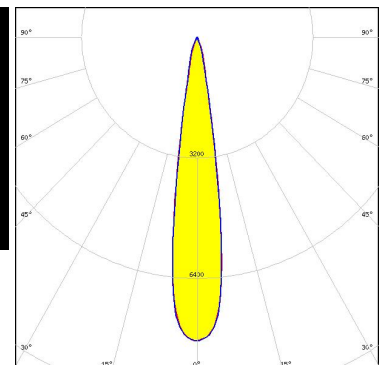
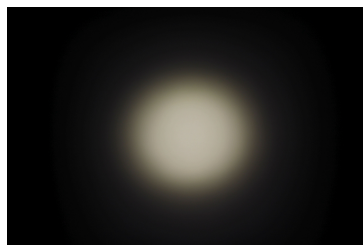
LED HiLOM RH12 Z (LH351C)
 FWHM / FWTM 17.0° / 29.0°
 Efficiency 96 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED HiLOM RH16 (LH351C)
 FWHM / FWTM 17.0° / 30.0°
 Efficiency 94 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

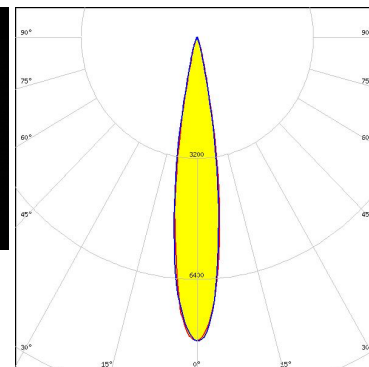


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

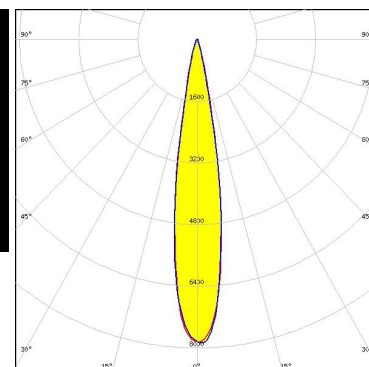
LED LH351B
FWHM / FWTM 17.0° / 29.0°
Efficiency 89 %
Peak intensity 8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

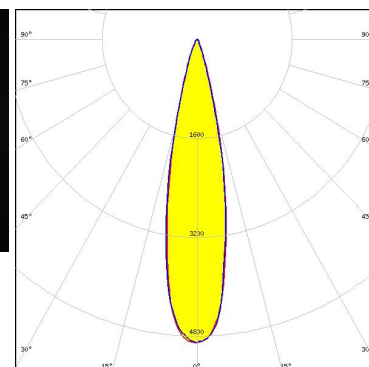
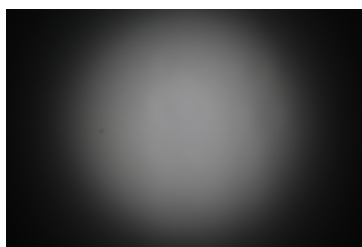
LED LH351C
FWHM / FWTM 18.0° / 30.0°
Efficiency 94 %
Peak intensity 7.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351D
FWHM / FWTM 22.0° / 38.0°
Efficiency 94 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

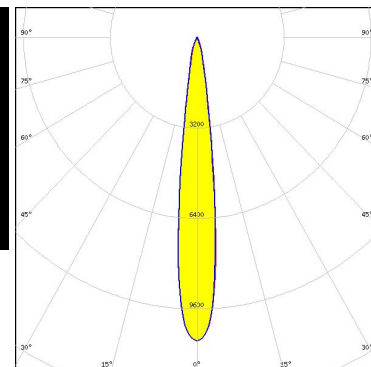
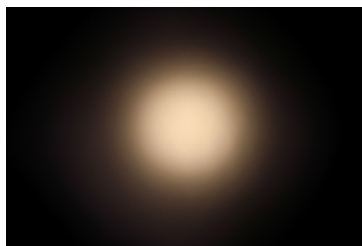


Light distribution files

OPTICAL RESULTS (MEASURED):



LED LED-Pa-L15c2W11c2-xxx-C050-01
 FWHM / FWTM 14.0° / 27.0°
 Efficiency 96 %
 Peak intensity 10.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

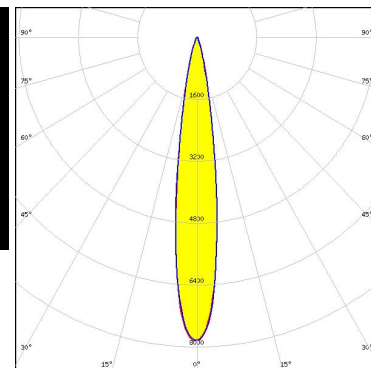
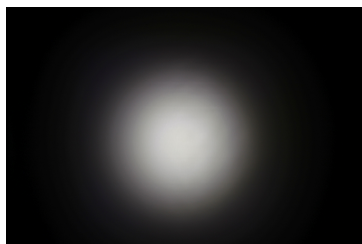


Light distribution files



SEOL SEMICONDUCTOR

LED Z5M3
 FWHM / FWTM 16.0° / 31.0°
 Efficiency 94 %
 Peak intensity 7.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

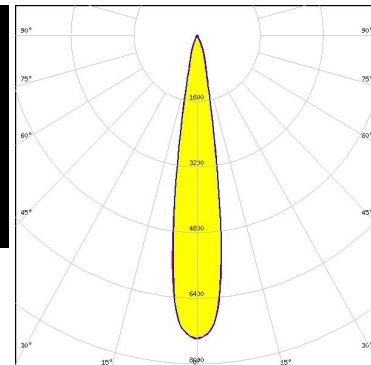


Light distribution files



SEOL SEMICONDUCTOR

LED Z5M4
 FWHM / FWTM 17.0° / 32.0°
 Efficiency 96 %
 Peak intensity 7.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

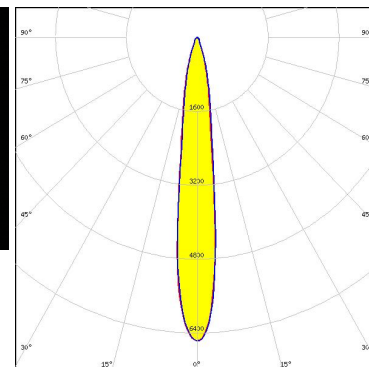


Light distribution files

OPTICAL RESULTS (MEASURED):



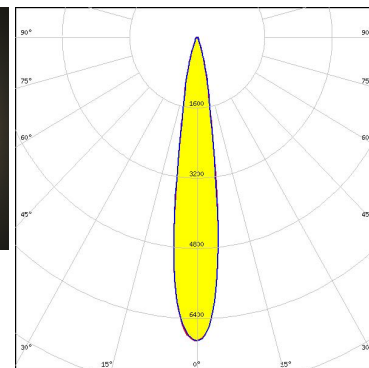
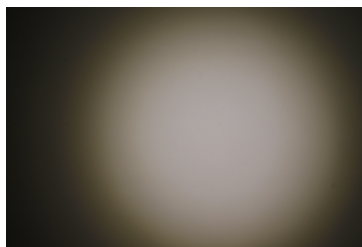
LED Z8Y22
 FWHM / FWTM 14.0° / 35.0°
 Efficiency 94 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z8Y22P
 FWHM / FWTM 16.0° / 33.0°
 Efficiency 93 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

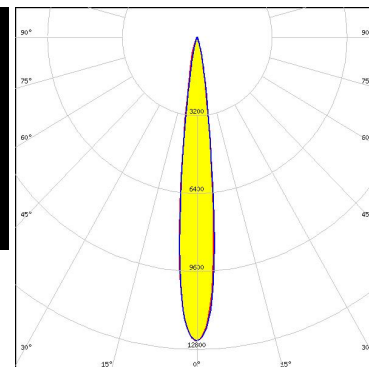
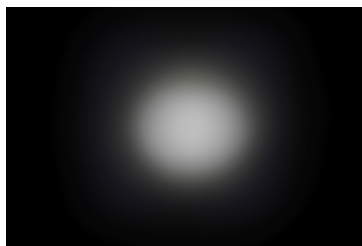
TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 94 %
 Peak intensity 12.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

OPTICAL RESULTS (MEASURED):

TRIDONIC

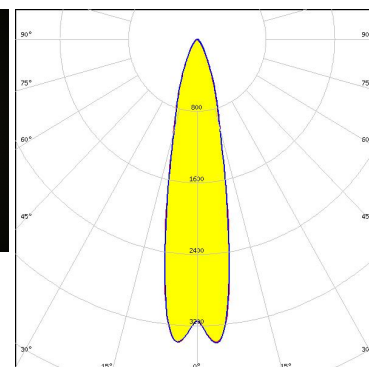
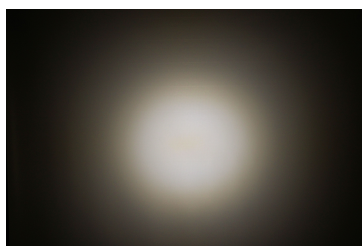
LED RLE 2x8 4000lm HP EXC2 OTD
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 94 %
 Peak intensity 12.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

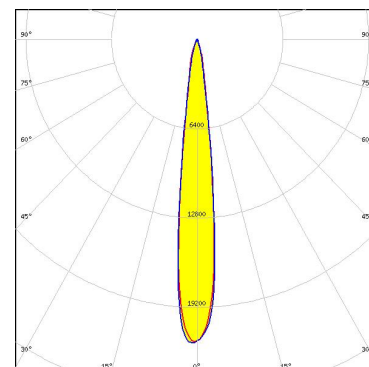
LED RLE 2x8 6000lm HP HE EXC3 OTD
 FWHM / FWTM 23.0° / 51.0°
 Efficiency 97 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 94 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

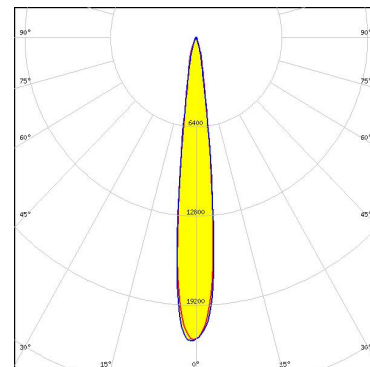


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

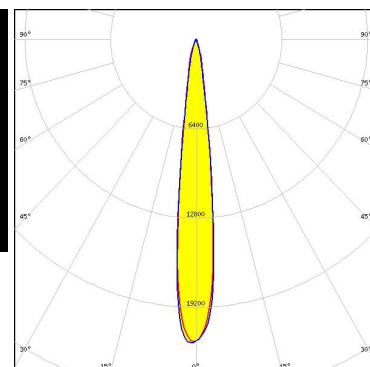
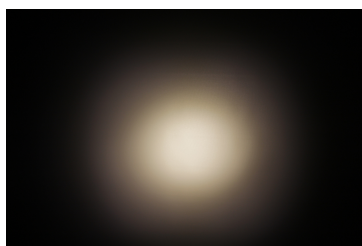
LED RLE G1 49x133mm 2000lm xxx EXC OTD
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 94 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

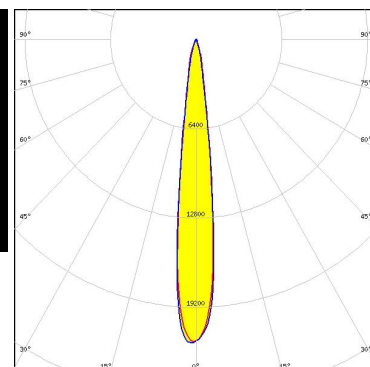
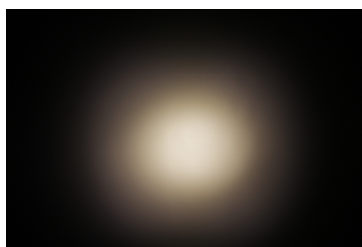
LED RLE G1 49x223mm 4000lm xxx EXC OTD
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 94 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 94 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

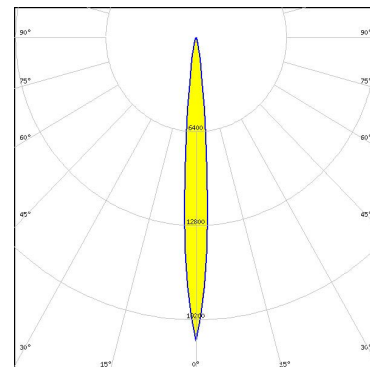


Light distribution files

OPTICAL RESULTS (SIMULATED):



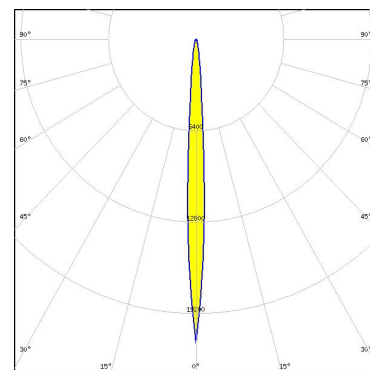
LED J Series 2835
FWHM / FWTM 10.0° / 20.0°
Efficiency 91 %
Peak intensity 20.6 cd/lm
LEDs/each optic 1
Light colour/type PC Amber
Required components:



Light distribution files



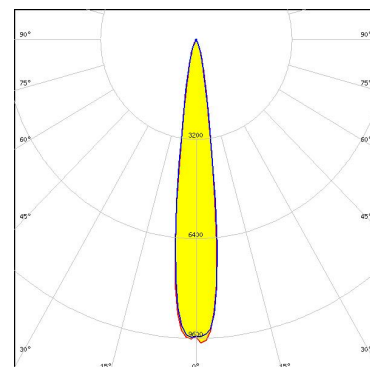
LED J Series 2835
FWHM / FWTM 6.0° / 16.0°
Efficiency 91 %
Peak intensity 21.3 cd/lm
LEDs/each optic 1
Light colour/type Amber
Required components:



Light distribution files



LED XHP35 HI
FWHM / FWTM 14.0° / 29.0°
Efficiency 93 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

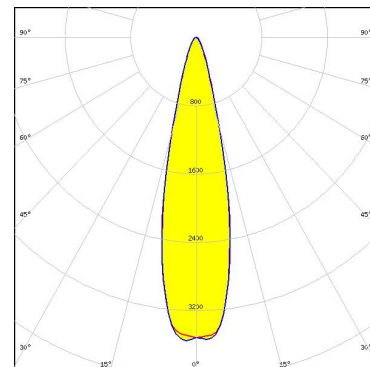


Light distribution files

OPTICAL RESULTS (SIMULATED):



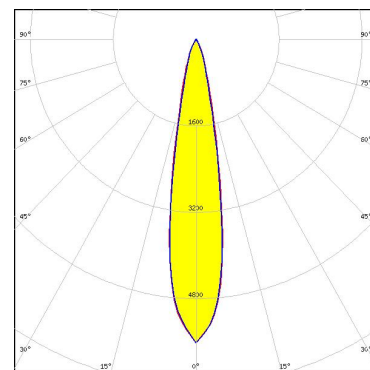
LED XHP35.2 HD
FWHM / FWTM 24.0° / 46.0°
Efficiency 93 %
Peak intensity 3.6 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



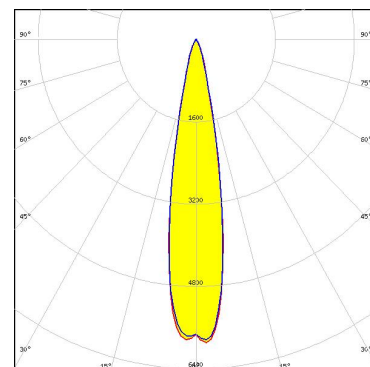
LED XM-L
FWHM / FWTM 19.0° / 38.0°
Efficiency 92 %
Peak intensity 5.6 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XM-L2
FWHM / FWTM 18.0° / 34.0°
Efficiency 94 %
Peak intensity 6.9 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:

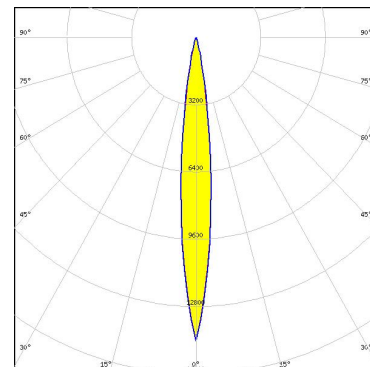


Light distribution files

OPTICAL RESULTS (SIMULATED):



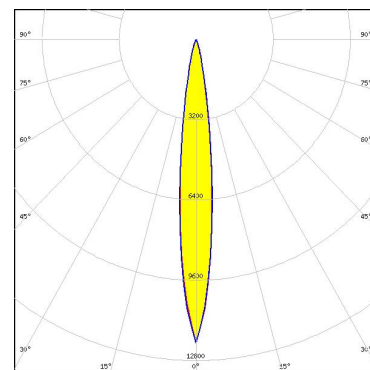
LED XP-E2
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 95 %
 Peak intensity 14.4 cd/lm
 LEDs/each optic 1
 Light colour/type Red
 Required components:



Light distribution files



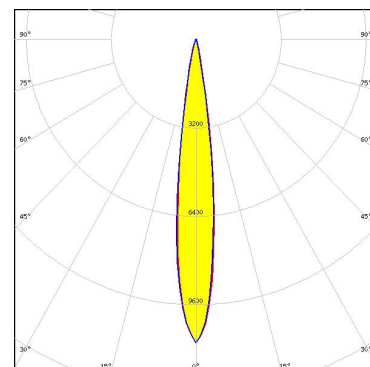
LED XP-G
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 93 %
 Peak intensity 12.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G2
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 89 %
 Peak intensity 11 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



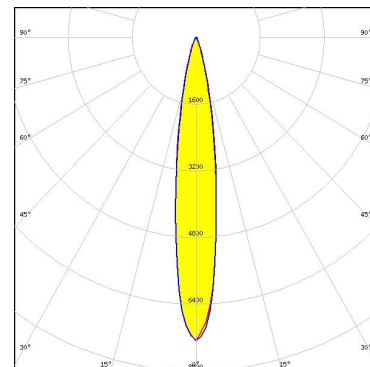
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



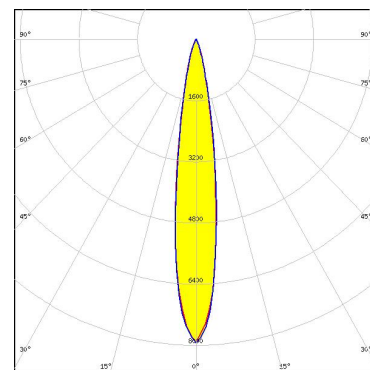
LED XP-G2 HE
FWHM / FWTM 16.0° / 34.0°
Efficiency 94 %
Peak intensity 7.3 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



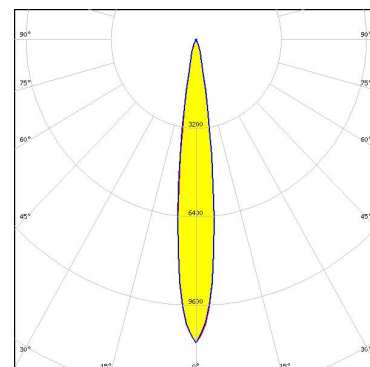
LED XP-G3
FWHM / FWTM 16.0° / 33.0°
Efficiency 94 %
Peak intensity 7.9 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G4
FWHM / FWTM 14.0° / 26.0°
Efficiency 95 %
Peak intensity 11 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



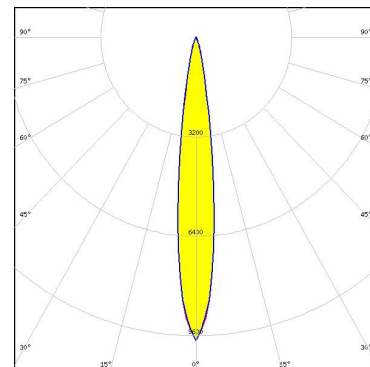
Light distribution files

OPTICAL RESULTS (SIMULATED):



LED XP-G4
FWHM / FWTM 14.0° / 28.0°
Efficiency 88 %
Peak intensity 9.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

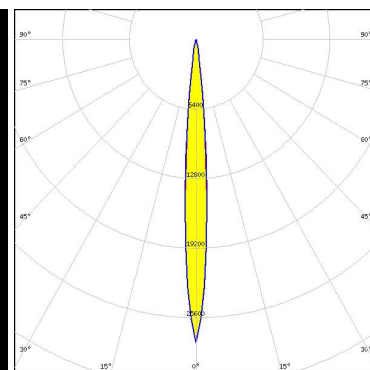
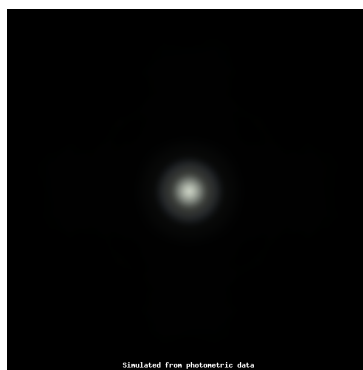
Protective plate, glass



Light distribution files



LED XP-GR
FWHM / FWTM 8.0° / 18.0°
Efficiency 95 %
Peak intensity 27.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

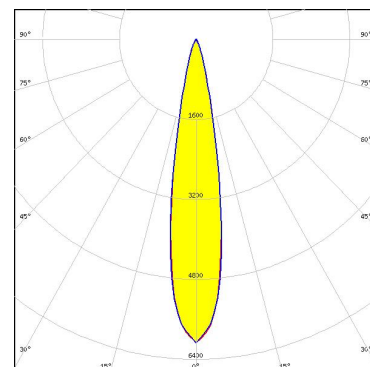


Light distribution files



LED XP-L HD
FWHM / FWTM 18.0° / 34.0°
Efficiency 90 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

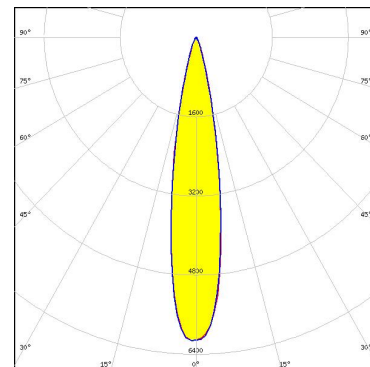


Light distribution files

OPTICAL RESULTS (SIMULATED):



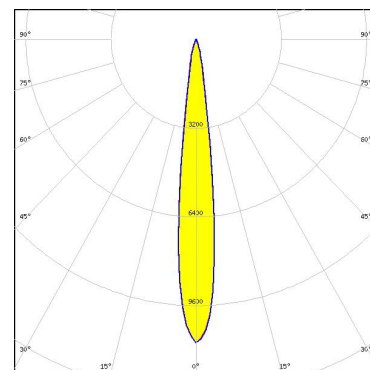
LED XP-L HD
 FWHM / FWTM 19.0° / 35.0°
 Efficiency 94 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-L HI
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 89 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

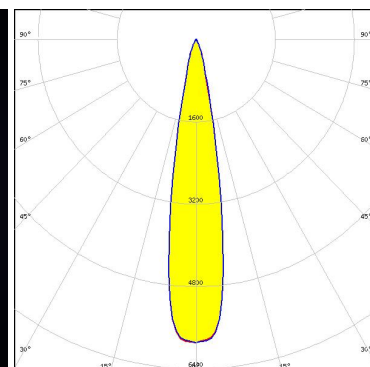


Light distribution files

Protective plate, glass



LED XP-L RGBW HD
 FWHM / FWTM 20.0° / 34.0°
 Efficiency 94 %
 Peak intensity 5.9 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:

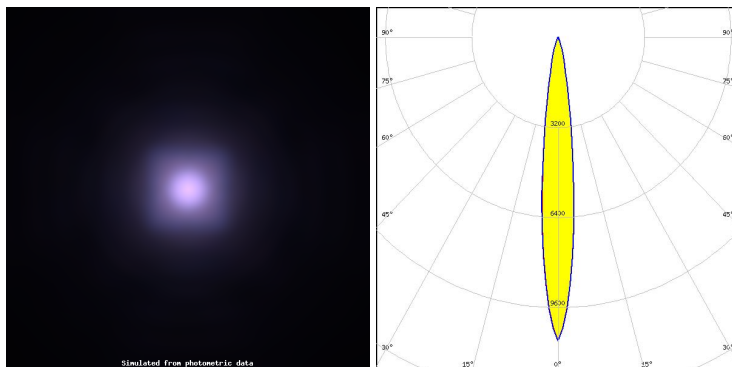


Light distribution files

OPTICAL RESULTS (SIMULATED):



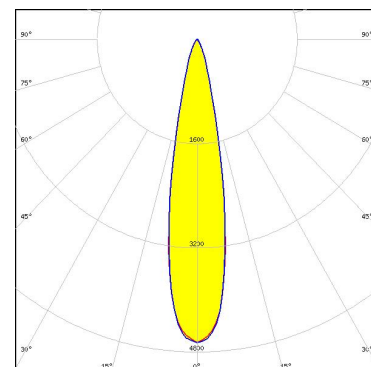
LED XP-L RGBW HI Blend
 FWHM / FWTM 12.0° / 28.0°
 Efficiency 94 %
 Peak intensity 10.8 cd/Im
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



LED XP-L2
 FWHM / FWTM 20.0° / 40.0°
 Efficiency 89 %
 Peak intensity 4.7 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

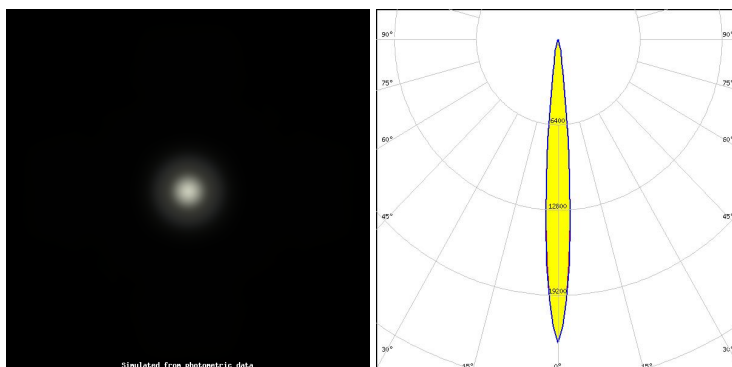


Protective plate, glass

Light distribution files



LED XP-LR
 FWHM / FWTM 10.0° / 18.0°
 Efficiency 95 %
 Peak intensity 22.8 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

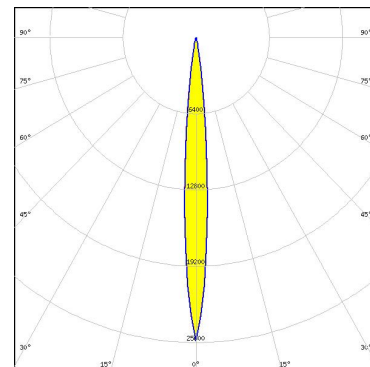


Light distribution files

OPTICAL RESULTS (SIMULATED):



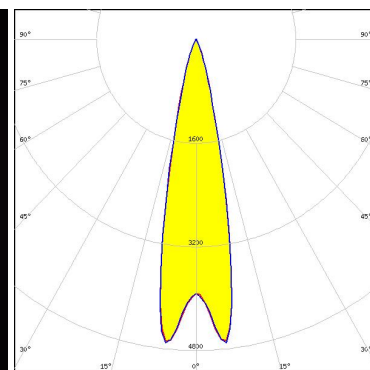
LED XP-P
FWHM / FWTM 8.0° / 18.0°
Efficiency 95 %
Peak intensity 25.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



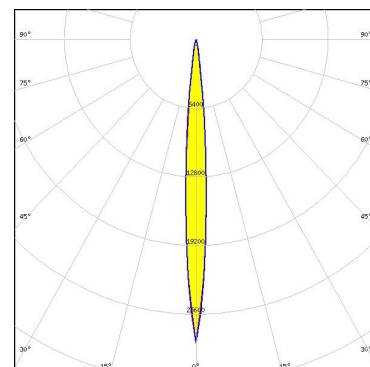
LED XQ-E HD
FWHM / FWTM 22.0° / 38.0°
Efficiency 96 %
Peak intensity 4.7 cd/lm
LEDs/each optic 4
Light colour/type RGBW
Required components:



Light distribution files



LED XQ-E HI
FWHM / FWTM 8.0° / 18.0°
Efficiency 94 %
Peak intensity 28.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

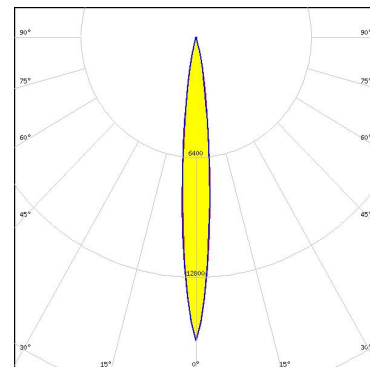


Light distribution files

OPTICAL RESULTS (SIMULATED):



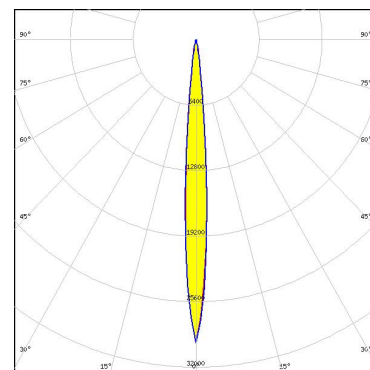
LED LUXEON C
FWHM / FWTM 11.0° / 24.0°
Efficiency 94 %
Peak intensity 16.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



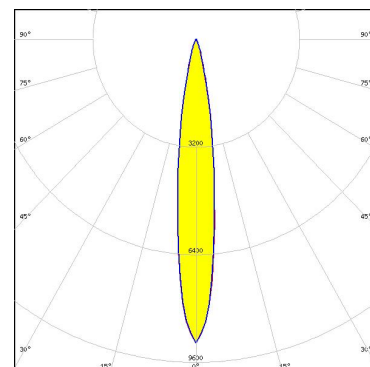
LED LUXEON CZ
FWHM / FWTM 8.0° / 16.0°
Efficiency 93 %
Peak intensity 29.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON HL2X
FWHM / FWTM 14.0° / 30.0°
Efficiency 95 %
Peak intensity 9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

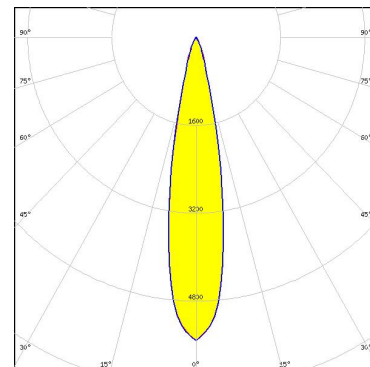


Light distribution files

OPTICAL RESULTS (SIMULATED):



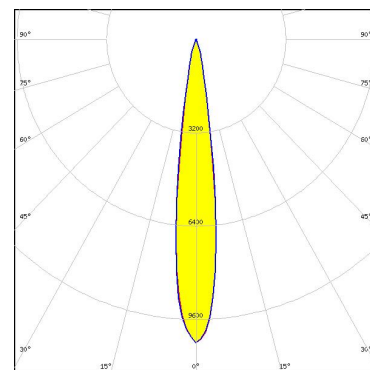
LED LUXEON HL4X
 FWHM / FWTM 20.0° / 38.0°
 Efficiency 95 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



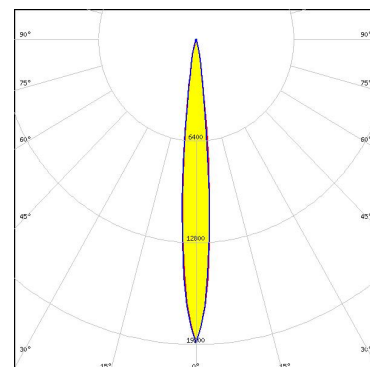
LED LUXEON HL4Z
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 95 %
 Peak intensity 10.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON IR Domed 150 (L110-0xxx150000000)
 FWHM / FWTM 11.0° / 21.0°
 Efficiency 94 %
 Peak intensity 19.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):



LED LUXEON IR Domed 60 (L1I0-0xxx060000000)

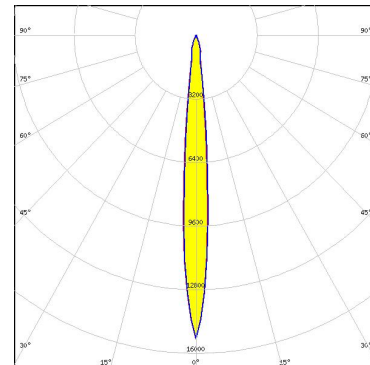
FWHM / FWTM 10.0° / 20.0°

Efficiency 93 %

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 18.0° / 34.0°

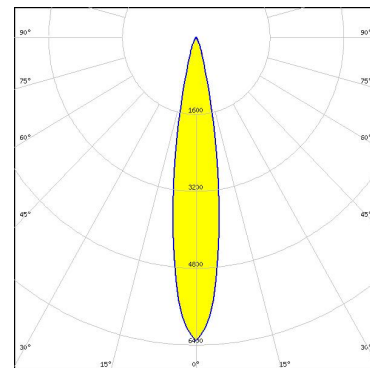
Efficiency 88 %

Peak intensity 6.3 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

Protective plate, glass



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 18.0° / 34.0°

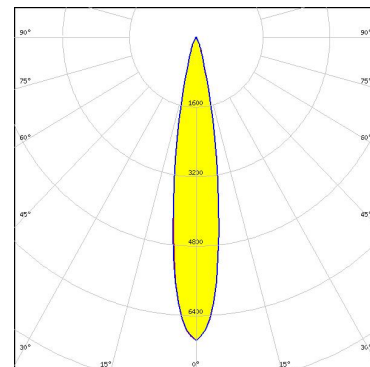
Efficiency 95 %

Peak intensity 7 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

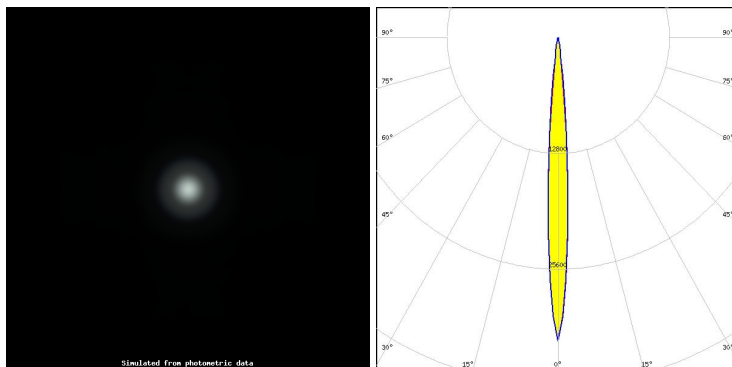


Light distribution files

OPTICAL RESULTS (SIMULATED):



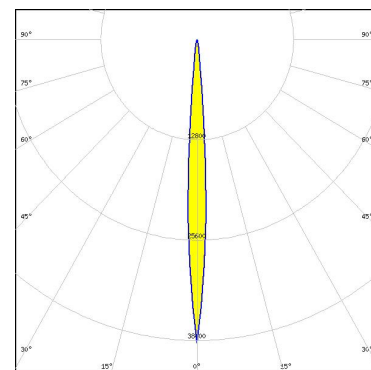
LED SFT-12R-W-A
 FWHM / FWTM 8.0° / 16.0°
 Efficiency 95 %
 Peak intensity 33.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SFT-12R-W-A
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 90 %
 Peak intensity 38.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

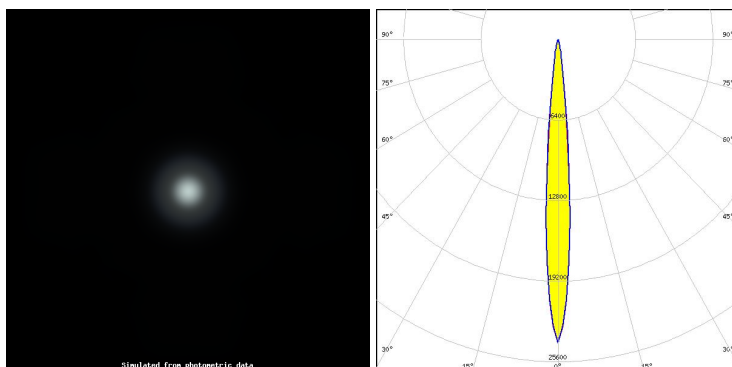


Protective plate, glass

Light distribution files



LED SFT-25R-W-A
 FWHM / FWTM 10.0° / 18.0°
 Efficiency 95 %
 Peak intensity 24.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

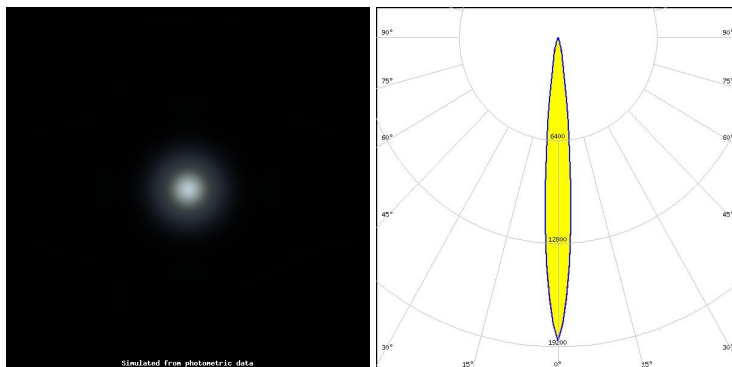


Light distribution files

OPTICAL RESULTS (SIMULATED):



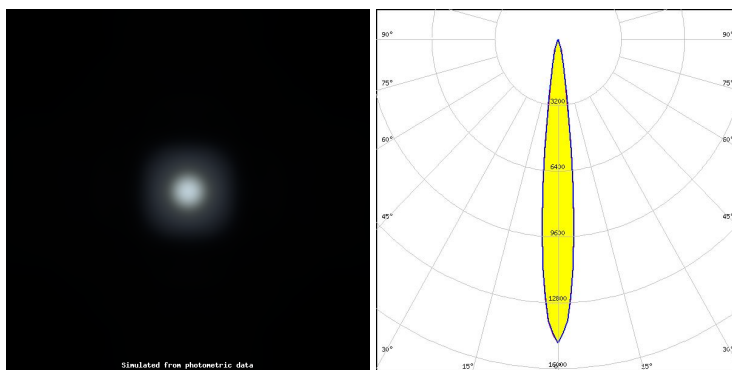
LED SST-12 Gen2
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 95 %
 Peak intensity 18.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



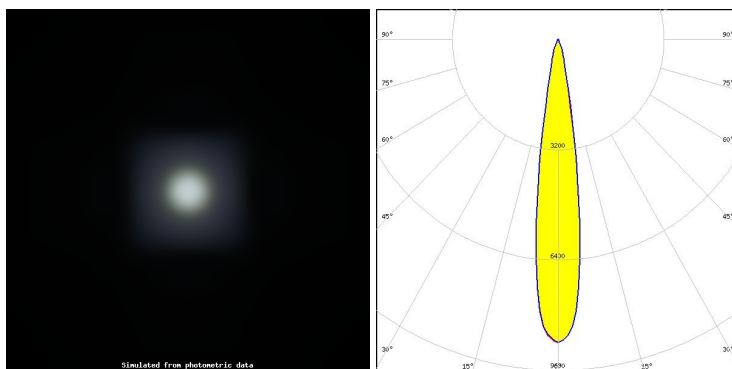
LED SST-20 Gen2
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 96 %
 Peak intensity 14.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-20F-W
 FWHM / FWTM 16.0° / 28.0°
 Efficiency 96 %
 Peak intensity 8.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

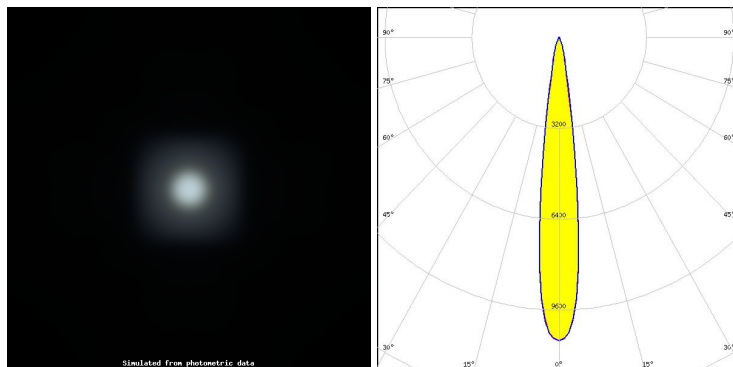


Light distribution files

OPTICAL RESULTS (SIMULATED):



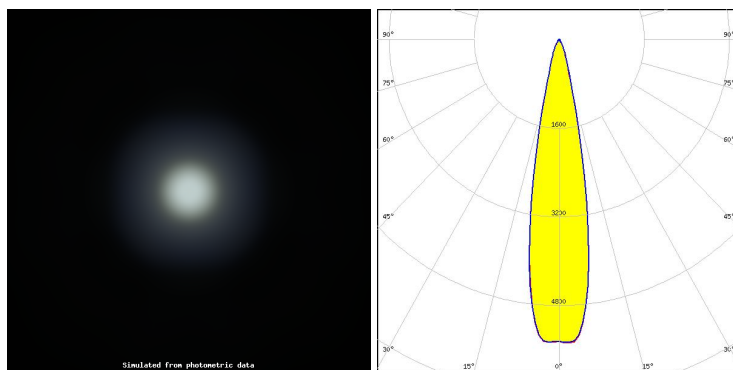
LED SST-25-W
FWHM / FWTM 14.0° / 26.0°
Efficiency 96 %
Peak intensity 10.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



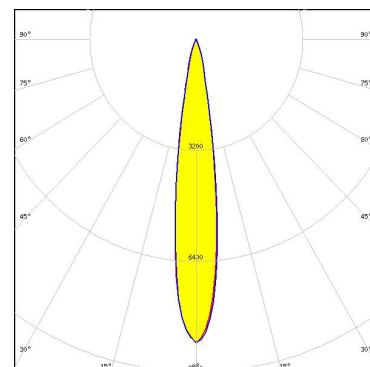
LED SST-36F-W
FWHM / FWTM 22.0° / 36.0°
Efficiency 96 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSxx19B/NVSxx19C
FWHM / FWTM 16.0° / 30.0°
Efficiency 94 %
Peak intensity 8.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

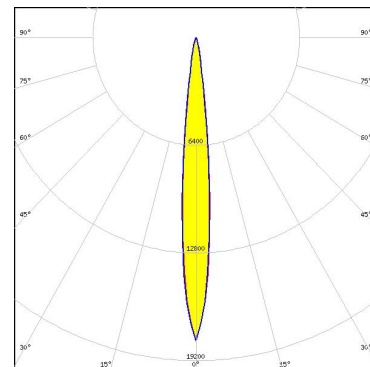


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

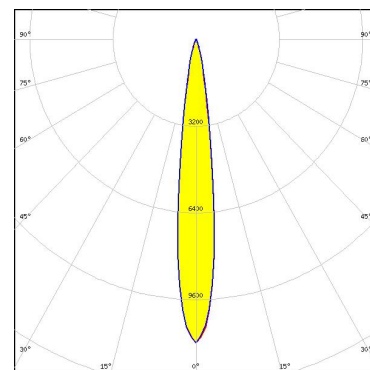
LED OSCONIQ C 2424 Gen1
FWHM / FWTM 10.0° / 20.0 + 21.0°
Efficiency 96 %
Peak intensity 18 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

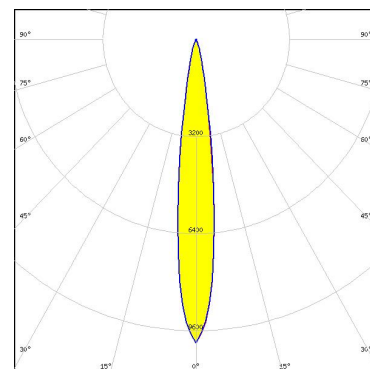
LED OSCONIQ C 3030
FWHM / FWTM 14.0° / 27.0 + 28.0°
Efficiency 96 %
Peak intensity 11.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 14.0° / 28.0°
Efficiency 88 %
Peak intensity 10 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



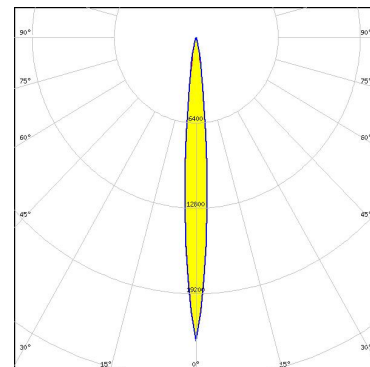
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

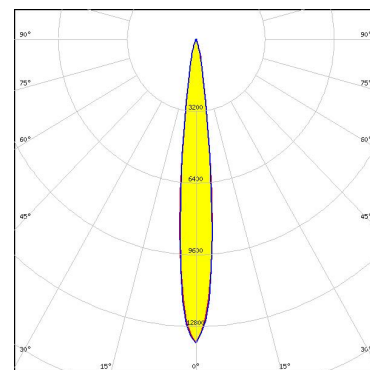
LED OSCONIQ P 3030
FWHM / FWTM 8.0° / 20.0°
Efficiency 95 %
Peak intensity 22.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

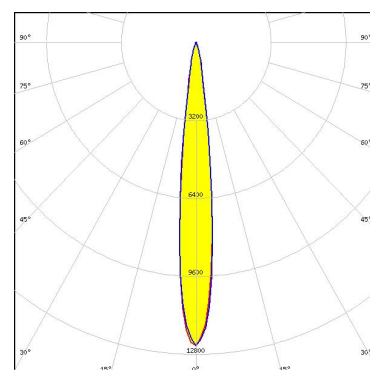
LED OSCONIQ P 3737 (2W) PUSRA1
FWHM / FWTM 12.0° / 24.0°
Efficiency 95 %
Peak intensity 13.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (2W) PUSRA1
FWHM / FWTM 12.0° / 24.0°
Efficiency 90 %
Peak intensity 12.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



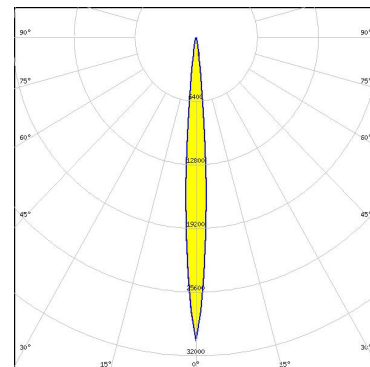
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

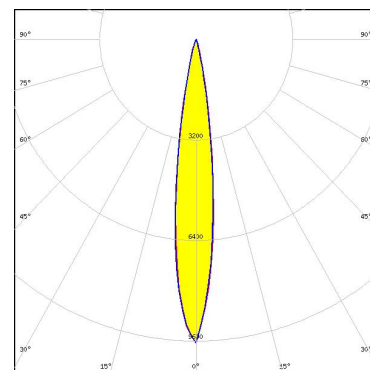
LED OSLON Pure 1414
FWHM / FWTM 8.0° / 16.0°
Efficiency 95 %
Peak intensity 30.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 15.0° / 27.0°
Efficiency 81 %
Peak intensity 9.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

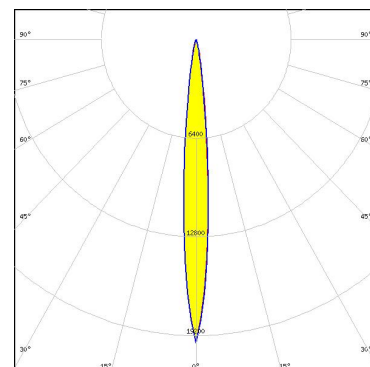


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square Flat
FWHM / FWTM 10.0° / 20.0°
Efficiency 96 %
Peak intensity 19.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

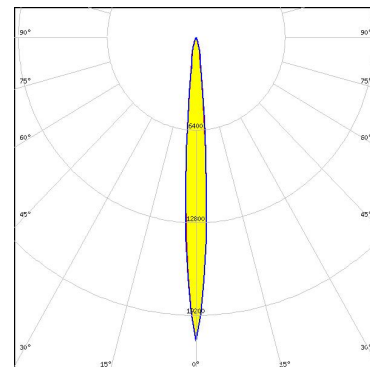


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

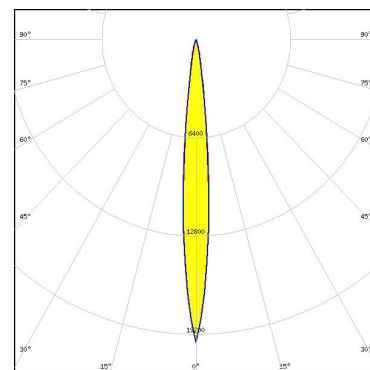
LED OSLOM SSL 80
FWHM / FWTM 8.2° / 18.8°
Efficiency 94 %
Peak intensity 21 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

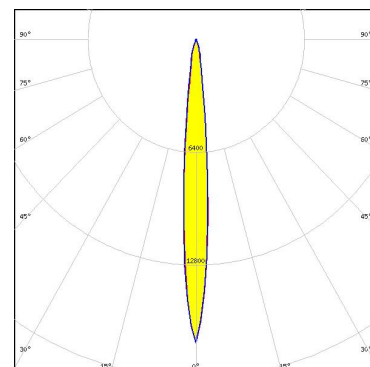
LED OSTAR Projection Compact (KW.CSLNM1.TG)
FWHM / FWTM 10.0° / 20.0°
Efficiency 96 %
Peak intensity 19.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 9.2° / 21.0°
Efficiency %
LEDs/each optic 1
Light colour/type IR
Required components:

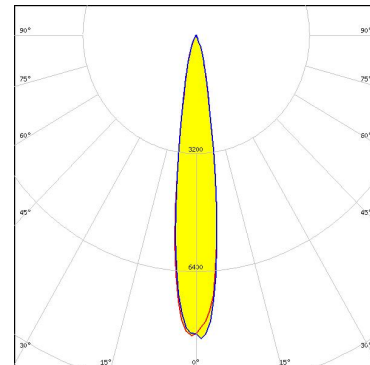


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

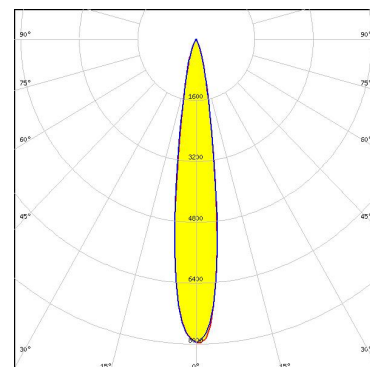
LED LH231B
FWHM / FWTM 16.0° / 32.0°
Efficiency 95 %
Peak intensity 8.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

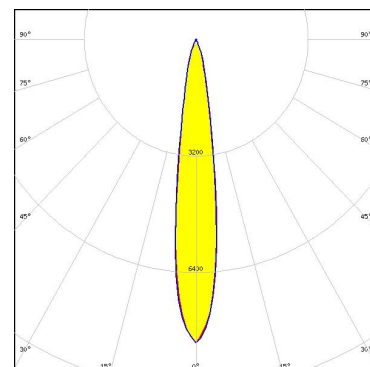
LED LH231B
FWHM / FWTM 16.0° / 34.0°
Efficiency 94 %
Peak intensity 8 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH231B
FWHM / FWTM 16.0° / 32.0°
Efficiency 95 %
Peak intensity 8.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

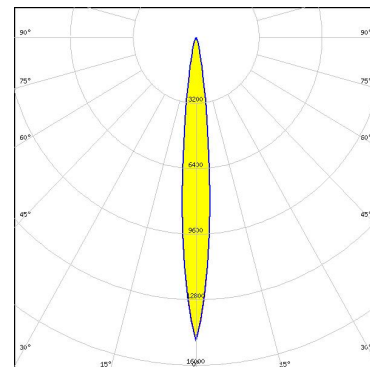


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

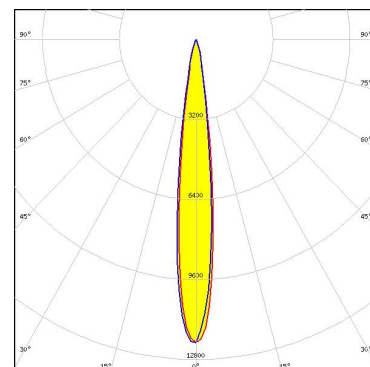
LED LM301B
 FWHM / FWTM 10.0° / 24.0°
 Efficiency 94 %
 Peak intensity 14.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



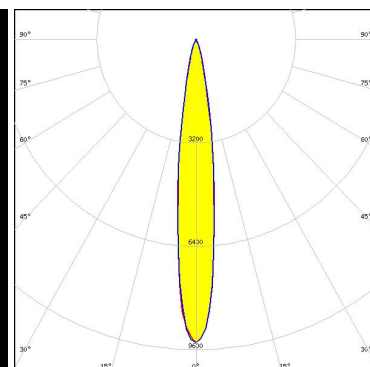
LED Z5M1/Z5M2
 FWHM / FWTM 13.0° / 26.0°
 Efficiency 92 %
 Peak intensity 12.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z5M3-E1
 FWHM / FWTM 14.0° / 30.0°
 Efficiency 96 %
 Peak intensity 9.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

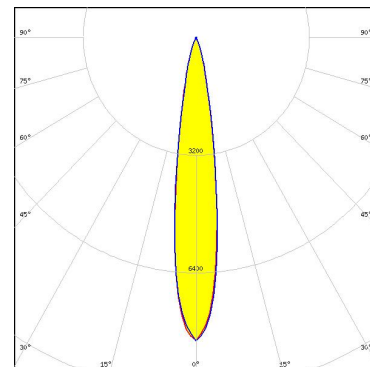


Light distribution files

OPTICAL RESULTS (SIMULATED):



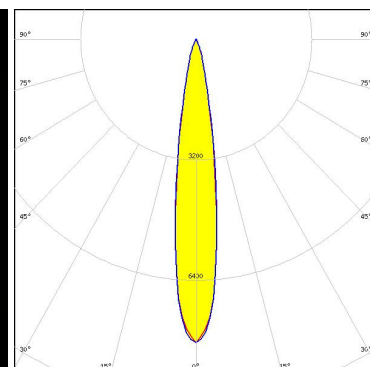
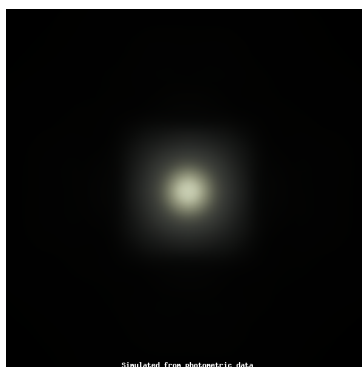
LED Z5M4
FWHM / FWTM 16.0° / 32.0°
Efficiency 95 %
Peak intensity 8.2 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



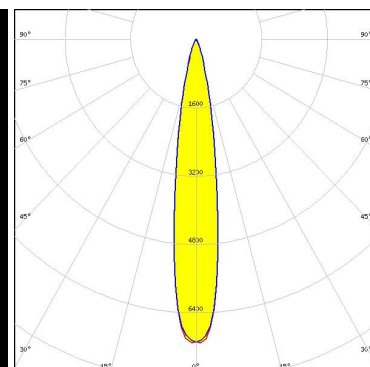
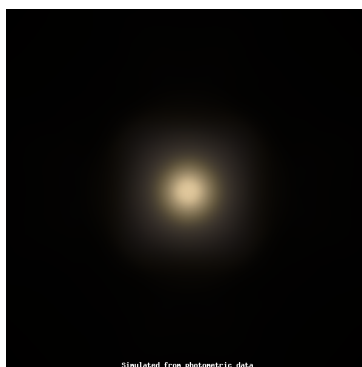
LED Z5M4-E1
FWHM / FWTM 16.0° / 32.0°
Efficiency 96 %
Peak intensity 8.1 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Z5M4-E2
FWHM / FWTM 16.0° / 34.0°
Efficiency 96 %
Peak intensity 7.1 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):



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)