

HB-2X2-M

~25° medium beam optimized for CREE XP-L
and XM-L

SPECIFICATION:

Dimensions	50.0 x 50.0
Height	8.5 mm
Fastening	pin, screw
ROHS compliant	yes ⓘ

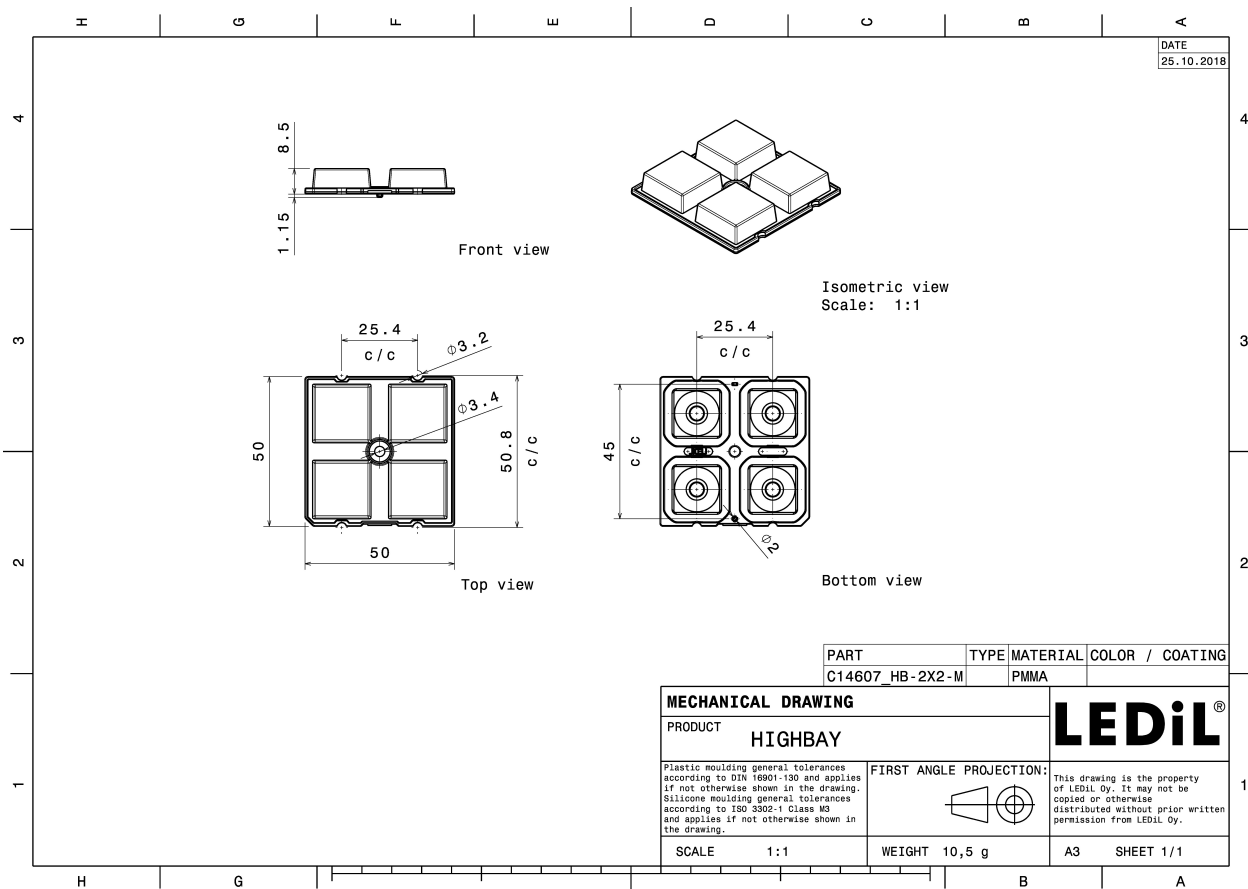


MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14607_HB-2X2-M » Box size: 480 x 280 x 300 mm	800	160	160	9.2

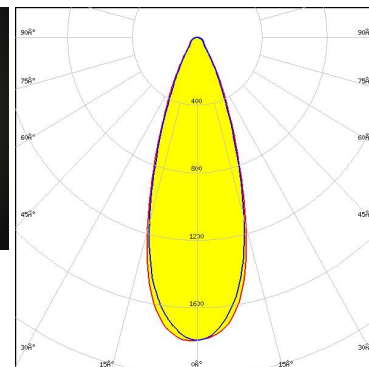
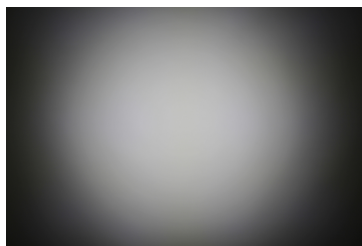


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



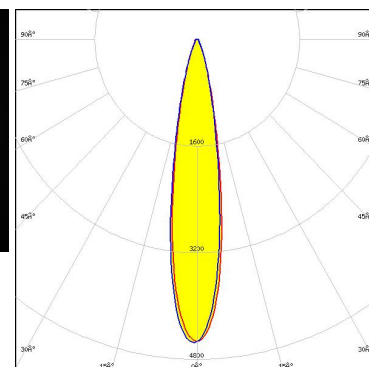
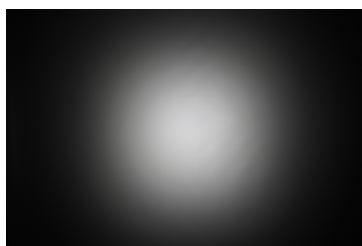
LED Bridgelux SMD 5050
 FWHM / FWTM 36.0° / 66.0°
 Efficiency 94 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



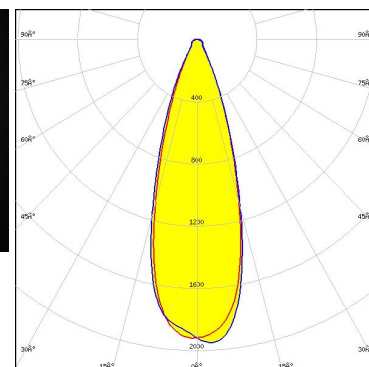
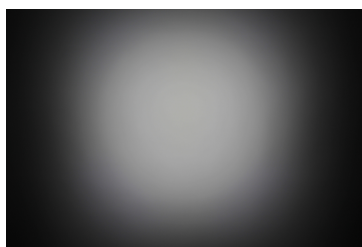
LED XD16
 FWHM / FWTM 19.0° / 39.0°
 Efficiency 90 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XD16
 FWHM / FWTM 33.0° / 59.0°
 Efficiency 94 %
 Peak intensity 2 cd/lm
 LEDs/each optic 4
 Light colour/type White
 Required components:

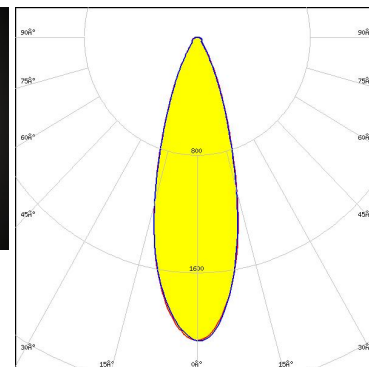
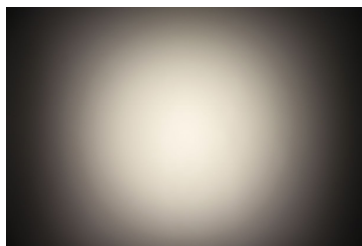


Light distribution files

OPTICAL RESULTS (MEASURED):



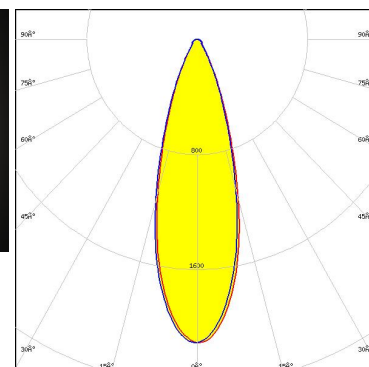
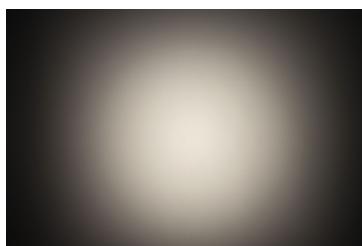
LED XM-L
FWHM / FWTM 32.0° / 61.0°
Efficiency 93 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



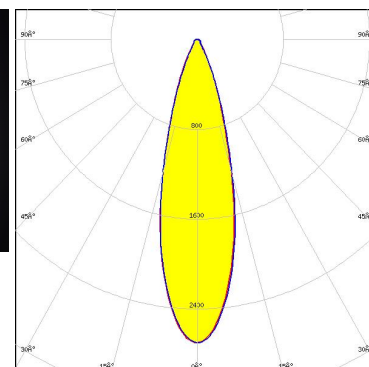
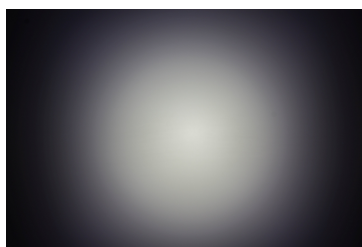
LED XM-L2
FWHM / FWTM 32.0° / 61.0°
Efficiency 92 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XM-L3
FWHM / FWTM 28.0° / 54.0°
Efficiency 95 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

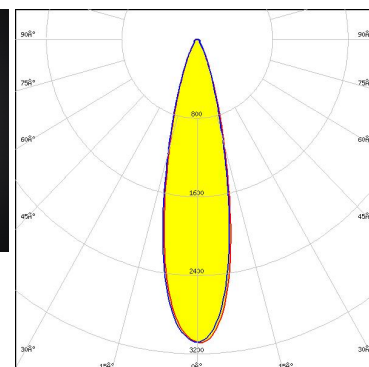
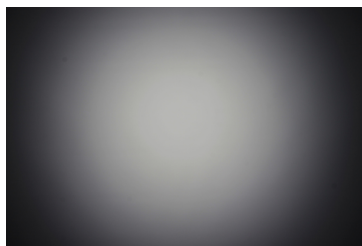


Light distribution files

OPTICAL RESULTS (MEASURED):



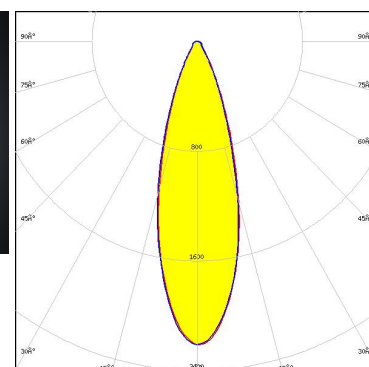
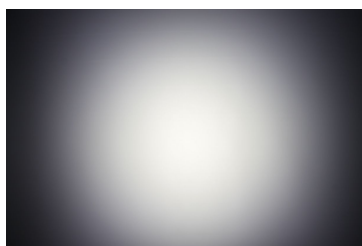
LED XP-G2
FWHM / FWTM 25.0° / 49.0°
Efficiency 0 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



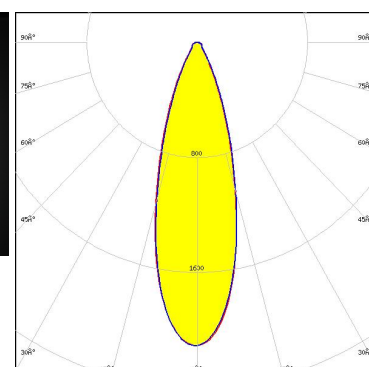
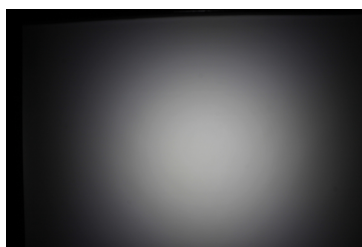
LED XP-L HD
FWHM / FWTM 31.0° / 60.0°
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-L2
FWHM / FWTM 31.0° / 61.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

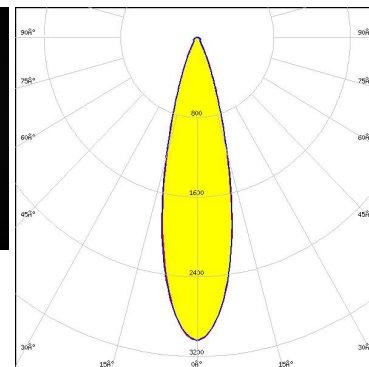
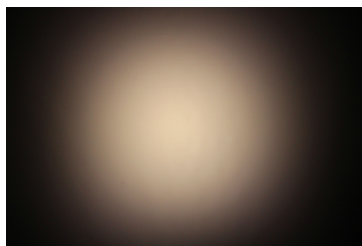


Light distribution files

OPTICAL RESULTS (MEASURED):

inventronics

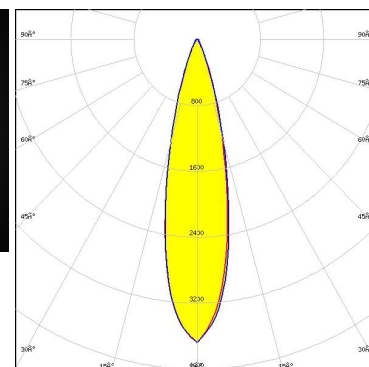
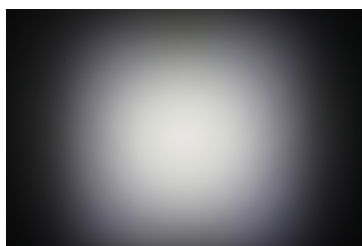
LED PL-BRICK HP 3800 2x8 SSG
 FWHM / FWTM 26.0° / 50.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

inventronics

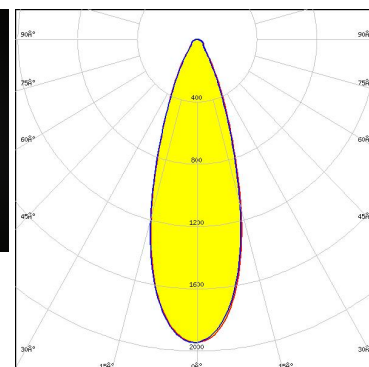
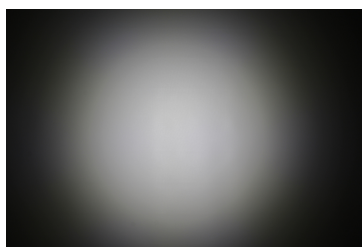
LED PrevaLED Brick HP 2x8
 FWHM / FWTM 23.0° / 44.0°
 Efficiency 91 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

LUMILEDS

LED LUXEON 5050 Round LES
 FWHM / FWTM 34.0° / 65.0°
 Efficiency 94 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

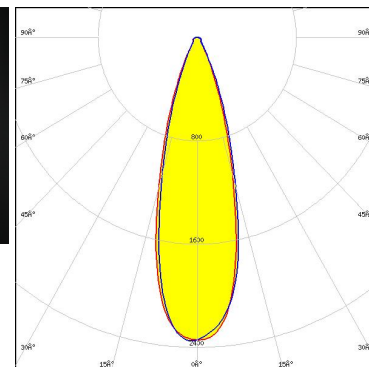
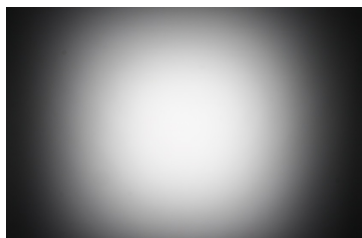


Light distribution files

OPTICAL RESULTS (MEASURED):



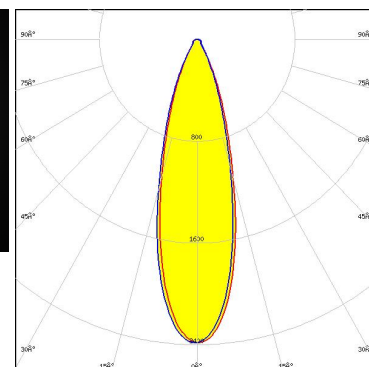
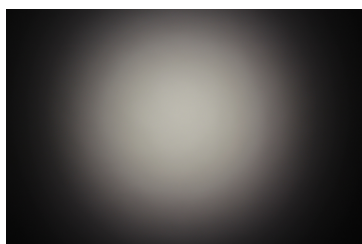
LED LUXEON MZ
FWHM / FWTM 30.0° / 55.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



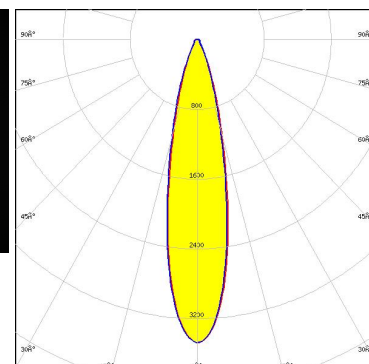
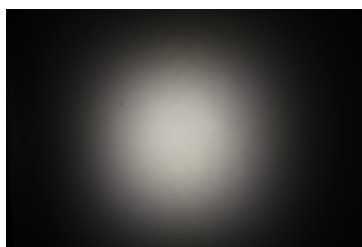
LED LUXEON V
FWHM / FWTM 29.0° / 58.0°
Efficiency 94 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON V2
FWHM / FWTM 23.0° / 47.0°
Efficiency 94 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

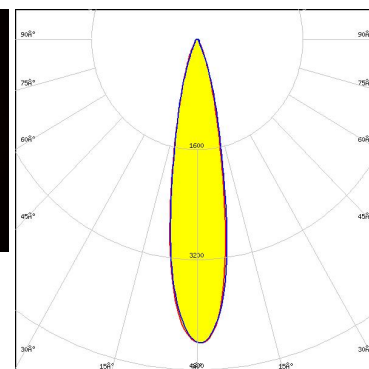
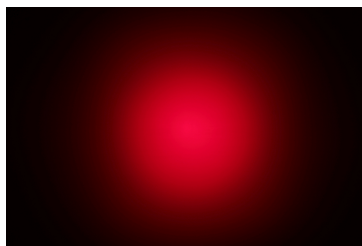


Light distribution files

OPTICAL RESULTS (MEASURED):



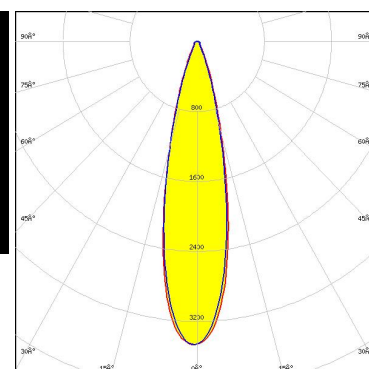
LED SST-10-B130
 FWHM / FWTM 21.0° / 42.0°
 Efficiency 95 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour/type Deep Red
 Required components:



Light distribution files



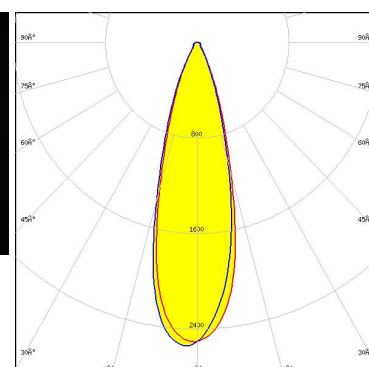
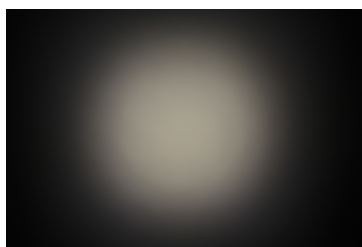
LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
 FWHM / FWTM 24.0° / 46.0°
 Efficiency 95 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219D
 FWHM / FWTM 29.0° / 55.0°
 Efficiency 94 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

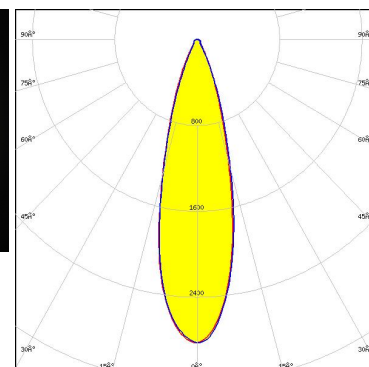
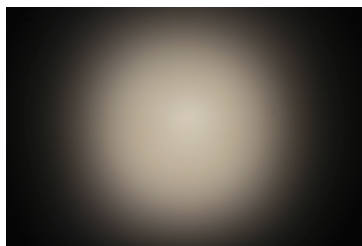


Light distribution files

OPTICAL RESULTS (MEASURED):



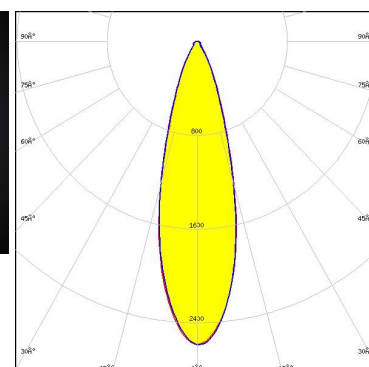
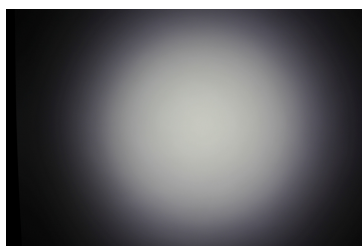
LED NVSW219F-V2
 FWHM / FWTM 28.0° / 53.0°
 Efficiency 95 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



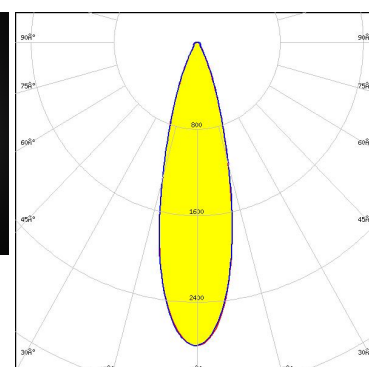
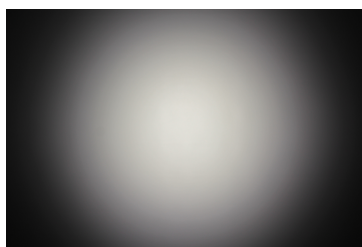
LED NVSW319B
 FWHM / FWTM 29.0° / 57.0°
 Efficiency 94 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW3x9A
 FWHM / FWTM 28.0° / 53.0°
 Efficiency 94 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

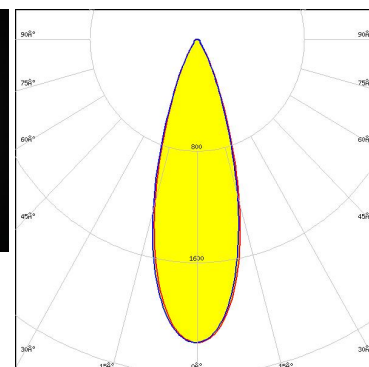
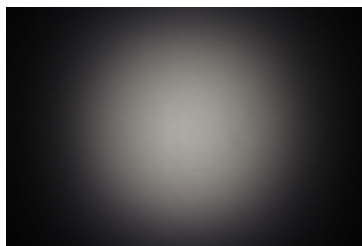


Light distribution files

OPTICAL RESULTS (MEASURED):



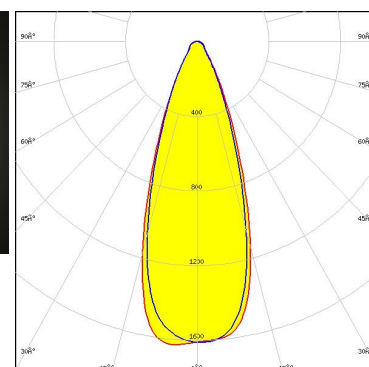
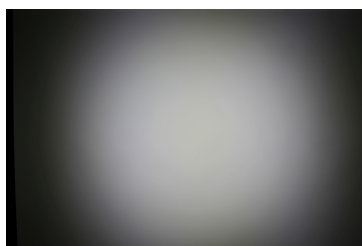
LED NWSx229A
 FWHM / FWTM 33.0° / 58.0°
 Efficiency 87 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



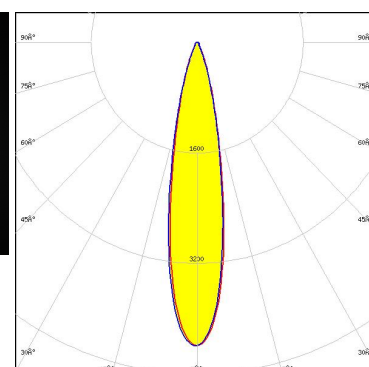
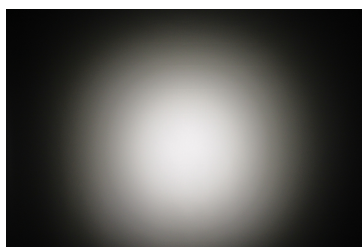
LED Duris S8
 FWHM / FWTM 38.0° / 68.0°
 Efficiency 94 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSCONIQ C 3030
 FWHM / FWTM 21.0° / 42.0°
 Efficiency 93 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

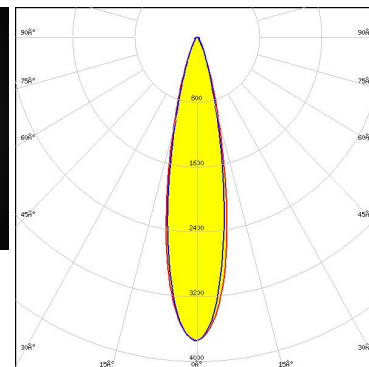
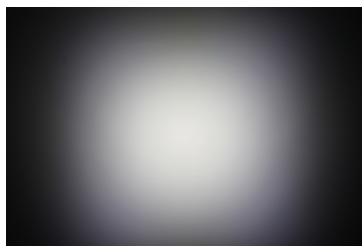


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

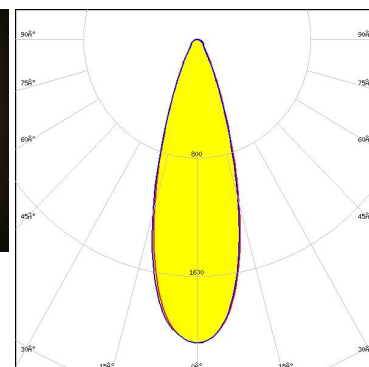
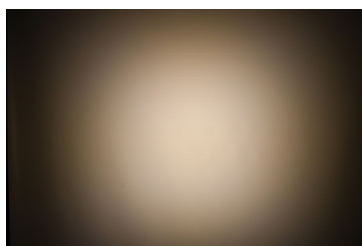
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 23.0° / 44.0°
Efficiency 91 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

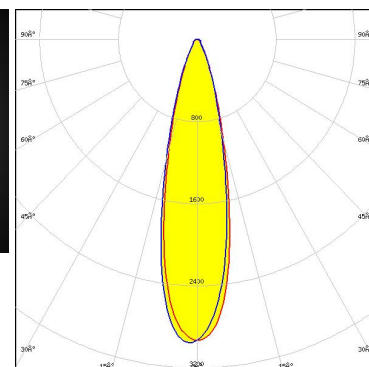
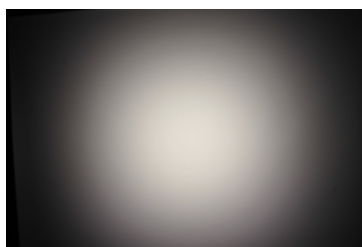
LED Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM 32.0° / 61.0°
Efficiency 96 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4
FWHM / FWTM 25.0° / 51.0°
Efficiency 92 %
Peak intensity 3 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 30.0° / 59.0°

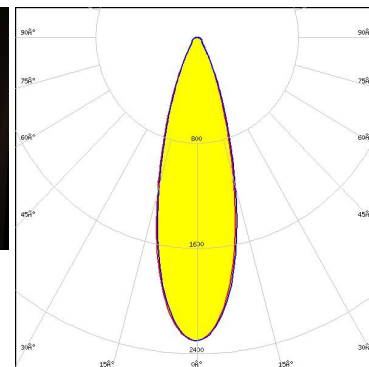
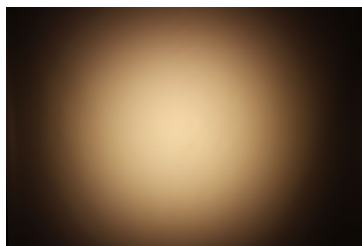
Efficiency 96 %

Peak intensity 2.3 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 24.0° / 47.0°

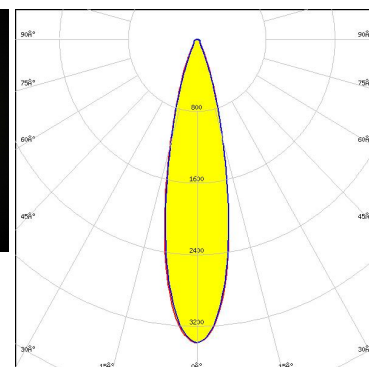
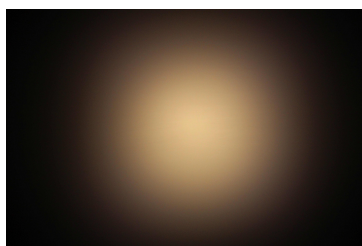
Efficiency 94 %

Peak intensity 3.4 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

SAMSUNG

LED HiLOM RC12 Z (LH181B)

FWHM / FWTM 21.0° / 45.0°

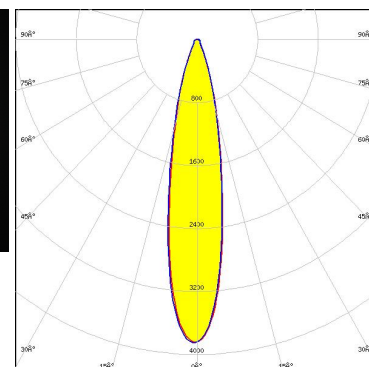
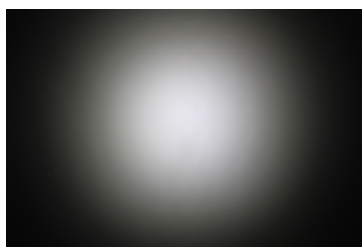
Efficiency 96 %

Peak intensity 3.9 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

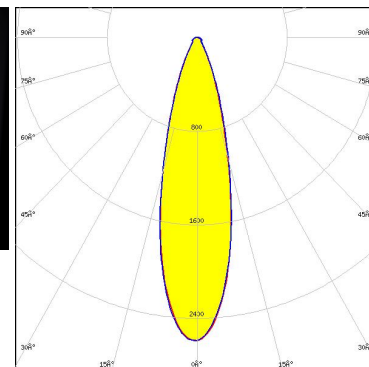
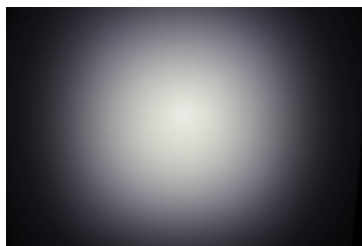


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

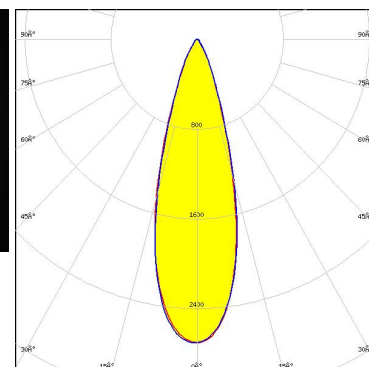
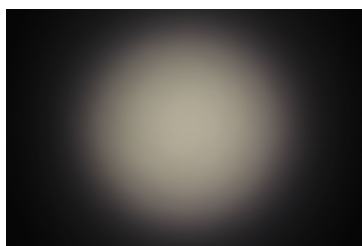
LED HiLOM RH12 Z (LH351C)
 FWHM / FWTM 27.0° / 55.0°
 Efficiency 95 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

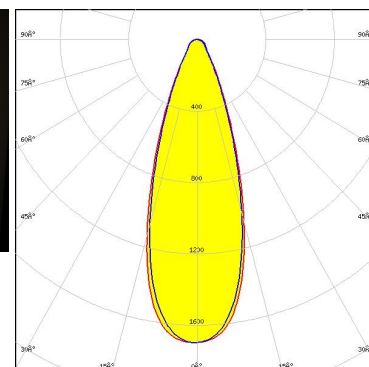
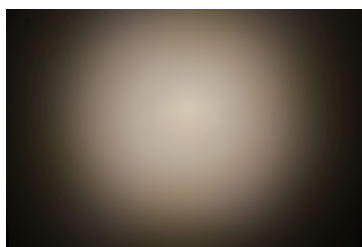
LED HiLOM RH16 (LH351C)
 FWHM / FWTM 30.0° / 55.0°
 Efficiency 94 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED HiLOM RM12 Z (LH502C)
 FWHM / FWTM 35.0° / 67.0°
 Efficiency 95 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

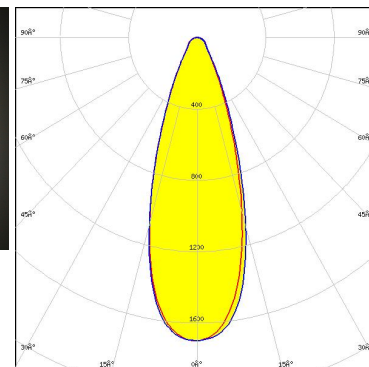
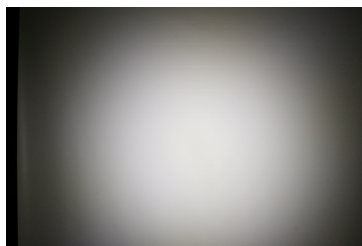


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

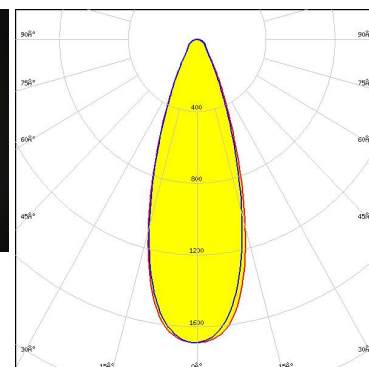
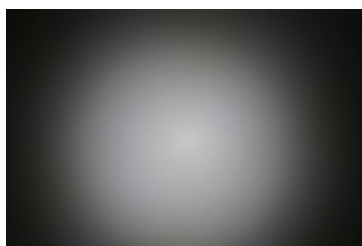
LED HiLOM RM16 Z (LH502C)
 FWHM / FWTM 36.0° / 68.0°
 Efficiency 96 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

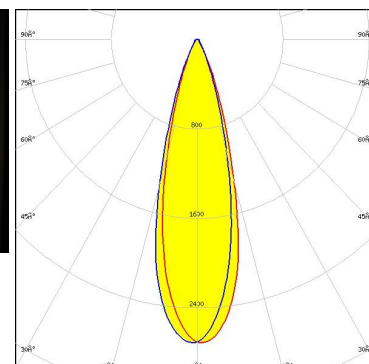
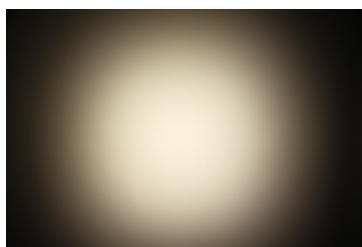
LED HiLOM RM8 Z (LH502C)
 FWHM / FWTM 36.0° / 68.0°
 Efficiency 96 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LH351B
 FWHM / FWTM 28.0° / 52.0°
 Efficiency 85 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

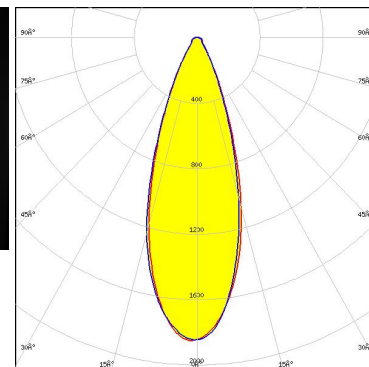
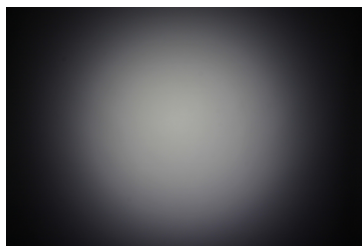


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LH351D
FWHM / FWTM 35.0° / 64.0°
Efficiency 91 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

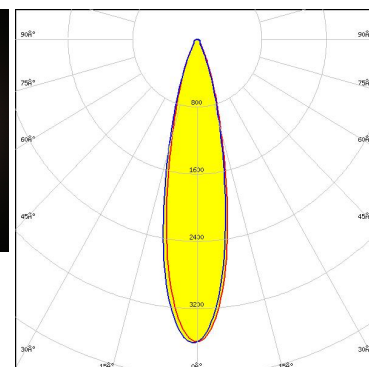
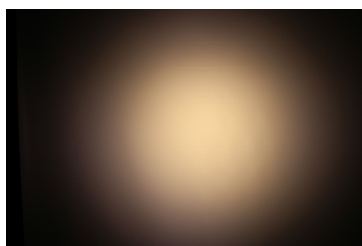


Light distribution files

SEITEC

Elektronik GmbH

LED LED-Pa-L15c2W11c2-xxx-C050-01
FWHM / FWTM 24.0° / 48.0 + 47.0°
Efficiency 95 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

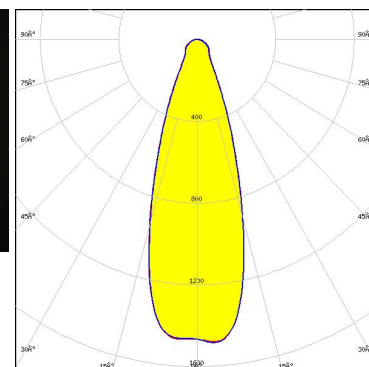
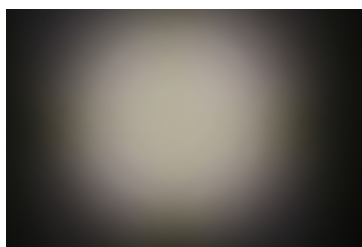


Light distribution files

SEMI

SEOUL SEMICONDUCTOR

LED 2x2 Y22 module - SMJQ-D48W16AA-XX
FWHM / FWTM 34.0° / 64.0°
Efficiency 93 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

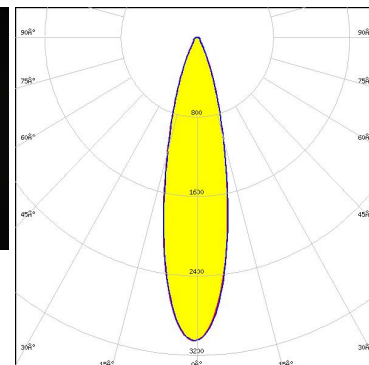
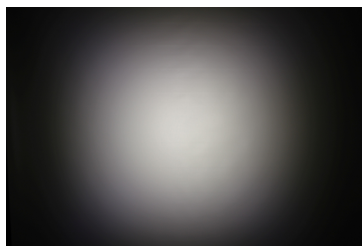


Light distribution files

OPTICAL RESULTS (MEASURED):



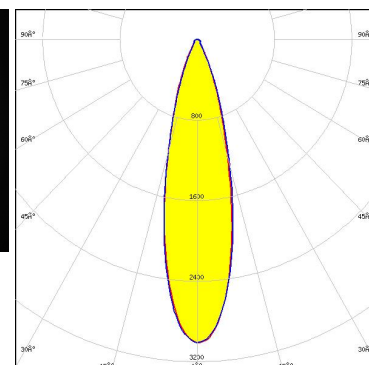
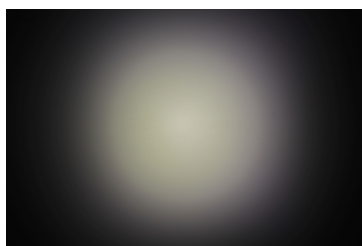
LED Z5M3
 FWHM / FWTM 25.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



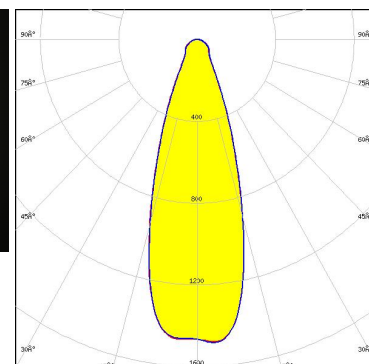
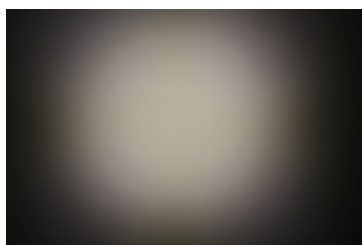
LED Z5M4
 FWHM / FWTM 26.0° / 52.0°
 Efficiency 95 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z8Y19
 FWHM / FWTM 34.0° / 64.0°
 Efficiency 93 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 4
 Light colour/type White
 Required components:

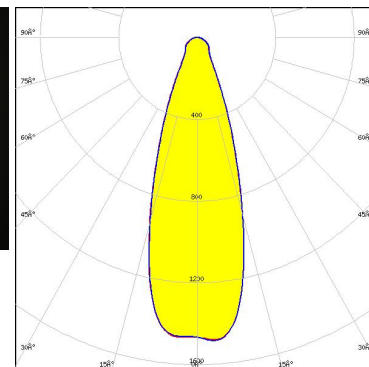
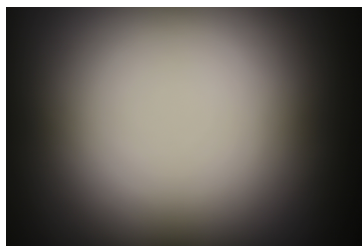


Light distribution files

OPTICAL RESULTS (MEASURED):



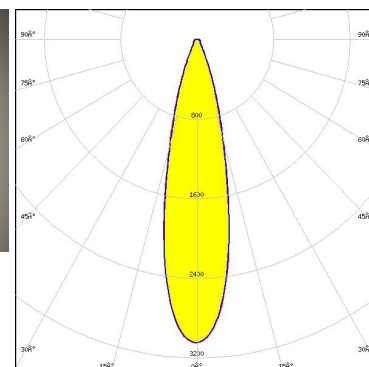
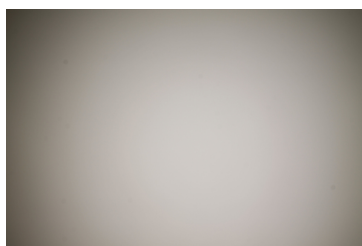
LED Z8Y19
FWHM / FWTM 34.0° / 64.0°
Efficiency 93 %
Peak intensity 1.5 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:



Light distribution files



LED Z8Y22P
FWHM / FWTM 25.0° / 48.0°
Efficiency 92 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

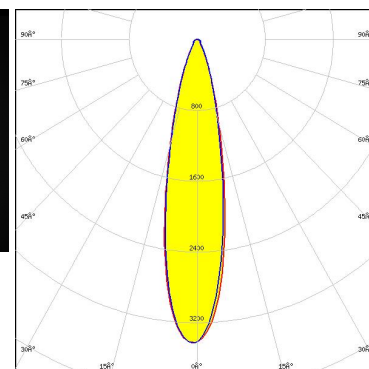
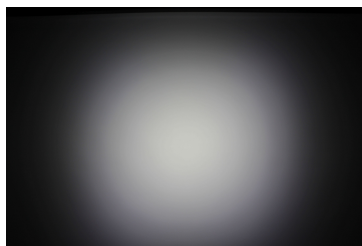
TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM 23.0° / 48.0°
Efficiency 94 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

OPTICAL RESULTS (MEASURED):

TRIDONIC

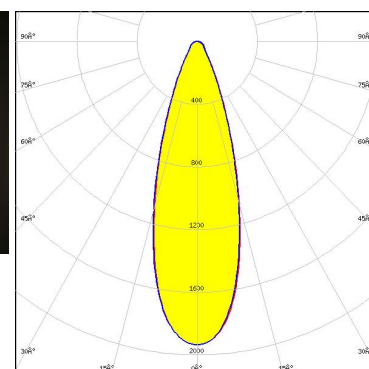
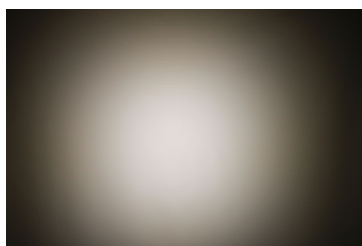
LED RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM 23.0° / 48.0°
Efficiency 94 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

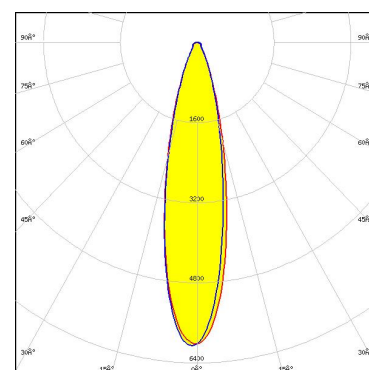
LED RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM 33.0° / 64.0°
Efficiency 95 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM / FWTM 24.0° / 51.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

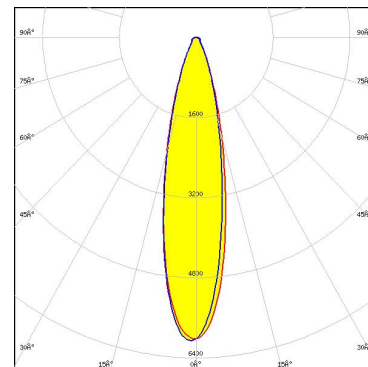


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

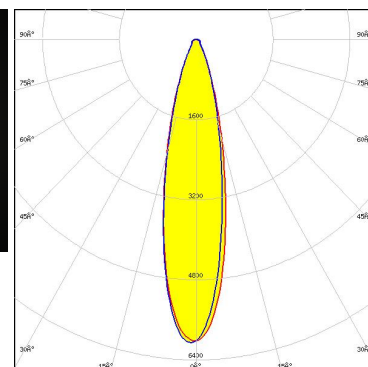
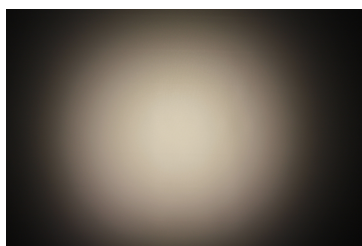
LED RLE G1 49x133mm 2000lm xxx EXC OTD
 FWHM / FWTM 24.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

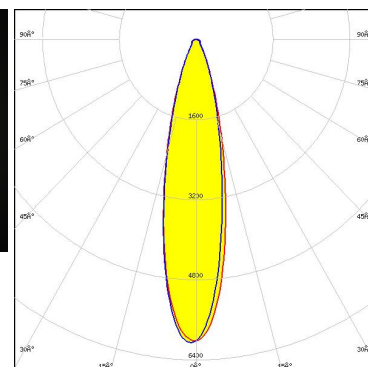
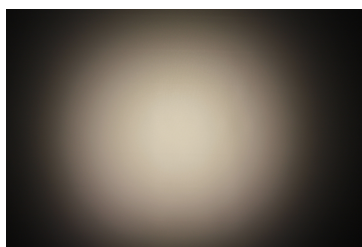
LED RLE G1 49x223mm 4000lm xxx EXC OTD
 FWHM / FWTM 24.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD
 FWHM / FWTM 24.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

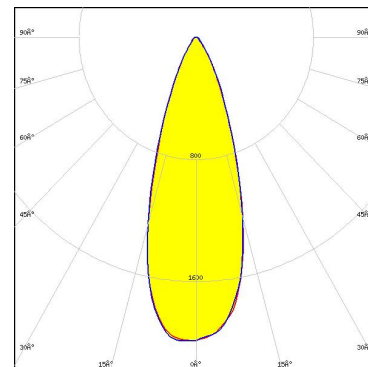


Light distribution files

OPTICAL RESULTS (SIMULATED):



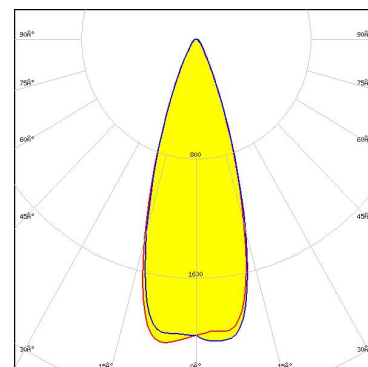
LED J Series 5050 6V P Class
 FWHM / FWTM 35.0° / 64.0°
 Efficiency 92 %
 Peak intensity 2 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



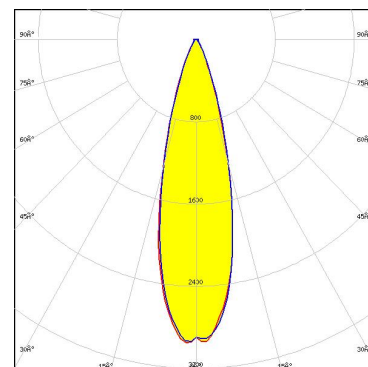
LED XP-G2 HE
 FWHM / FWTM 35.0° / 58.0°
 Efficiency 92 %
 Peak intensity 2.1 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G3
 FWHM / FWTM 28.0° / 50.0°
 Efficiency 92 %
 Peak intensity 3 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

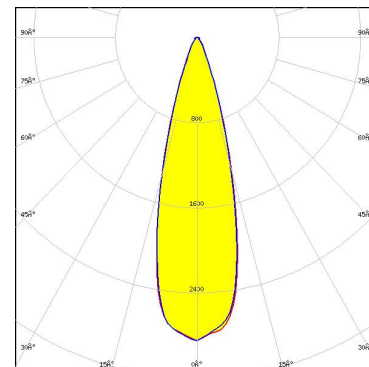


Light distribution files

OPTICAL RESULTS (SIMULATED):



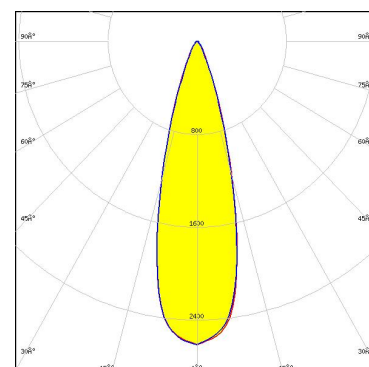
LED XP-G4
 FWHM / FWTM 28.0° / 50.0 + 49.0°
 Efficiency 93 %
 Peak intensity 2.9 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G4
 FWHM / FWTM 28.0° / 50.0°
 Efficiency 85 %
 Peak intensity 2.6 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

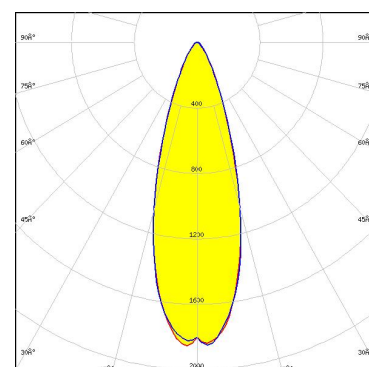


Protective plate, glass

Light distribution files



LED XP-L2
 FWHM / FWTM 32.0° / 62.0°
 Efficiency 82 %
 Peak intensity 1.9 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



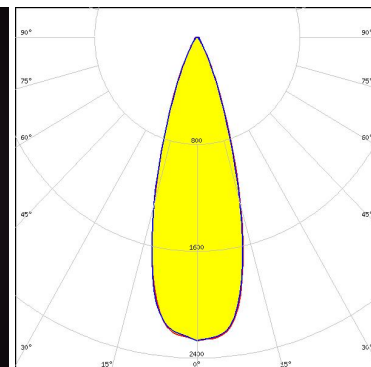
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



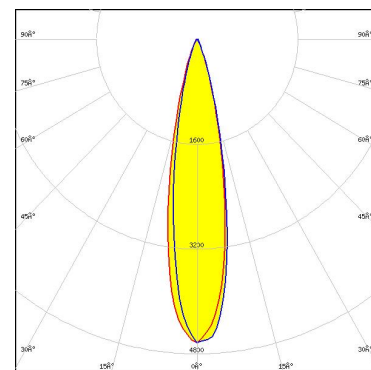
LED XQ-E HD
 FWHM / FWTM 32.0° / 56.0°
 Efficiency 92 %
 Peak intensity 2.3 cd/Im
 LEDs/each optic 4
 Light colour/type RGBW
 Required components:



Light distribution files



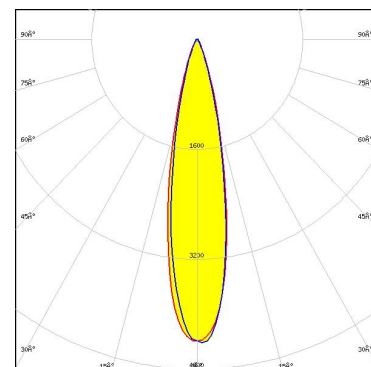
LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM 21.0° / 41.0°
 Efficiency 91 %
 Peak intensity 4.7 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 3535 2D
 FWHM / FWTM 22.0° / 42.0°
 Efficiency 92 %
 Peak intensity 4.5 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

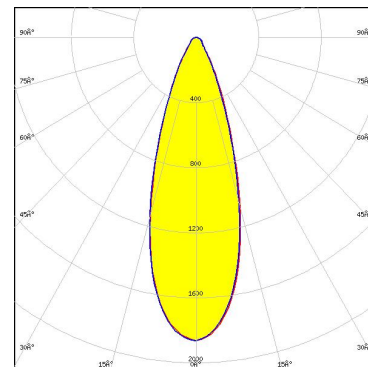
OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Round LES
 FWHM / FWTM 34.0° / 64.0°
 Efficiency 87 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

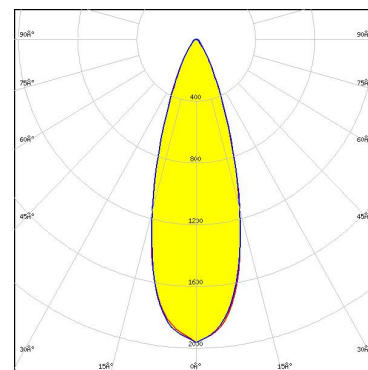
Light distribution files



LED LUXEON 5050 Square LES
 FWHM / FWTM 34.0° / 62.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

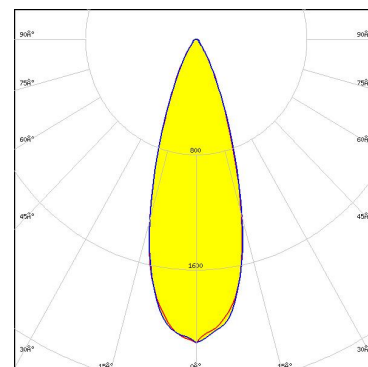
Protective plate, glass

Light distribution files



LED LUXEON 5050 Square LES
 FWHM / FWTM 34.0° / 62.0°
 Efficiency 93 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



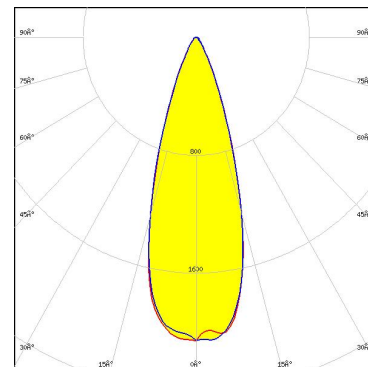
OPTICAL RESULTS (SIMULATED):



LED LUXEON HL2X
FWHM / FWTM 34.0° / 58.0°
Efficiency 87 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

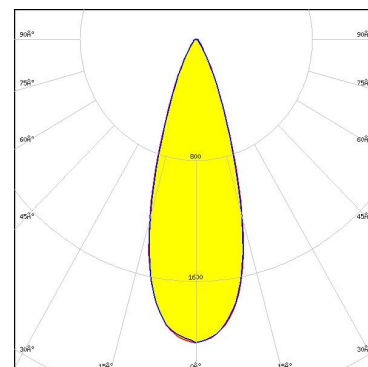
Light distribution files



LED LUXEON HL2X-D
FWHM / FWTM 34.0° / 58.0°
Efficiency 85 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

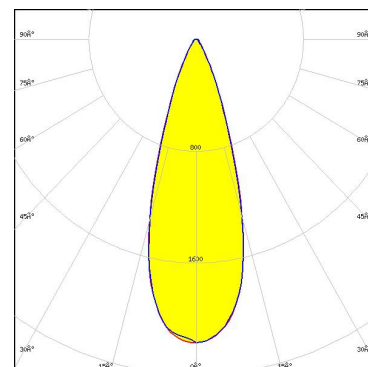
Protective plate, glass

Light distribution files



LED LUXEON HL2X-D
FWHM / FWTM 34.0° / 58.0°
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

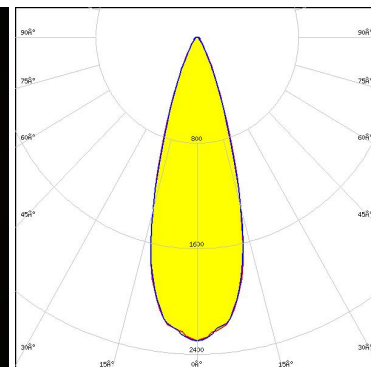
Light distribution files



OPTICAL RESULTS (SIMULATED):



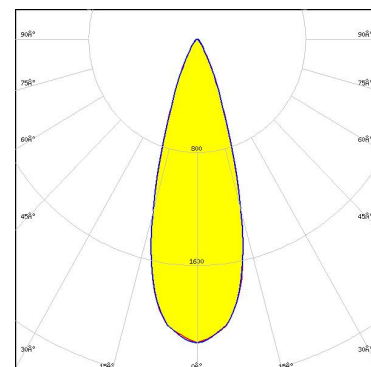
LED LUXEON HL2X-E
 FWHM / FWTM 32.0° / 56.0°
 Efficiency 94 %
 Peak intensity 2.3 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON HL2X-E
 FWHM / FWTM 32.0° / 56.0°
 Efficiency 86 %
 Peak intensity 2.2 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

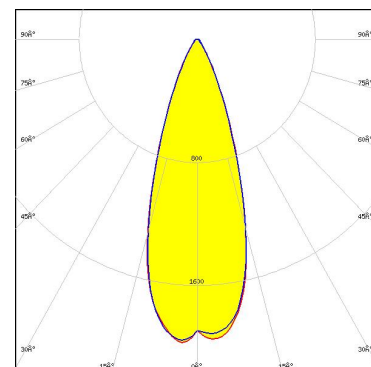


Protective plate, glass

Light distribution files



LED LUXEON HL2X-P
 FWHM / FWTM 36.0° / 62.0°
 Efficiency 91 %
 Peak intensity 2 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

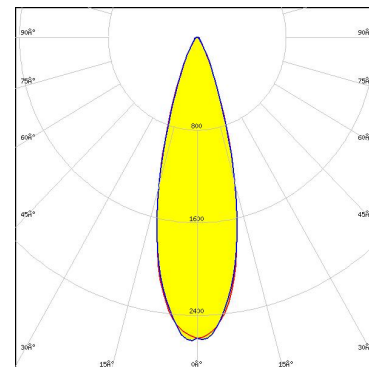


Light distribution files

OPTICAL RESULTS (SIMULATED):



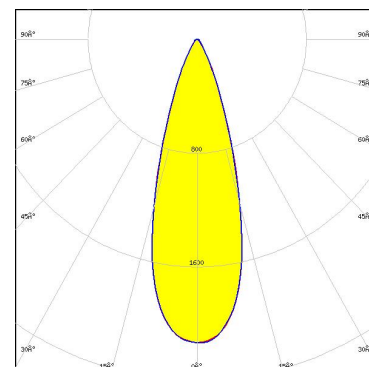
LED LUXEON HL4X
 FWHM / FWTM 30.0° / 54.0°
 Efficiency 94 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
 FWHM / FWTM 32.0° / 58.0°
 Efficiency 85 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

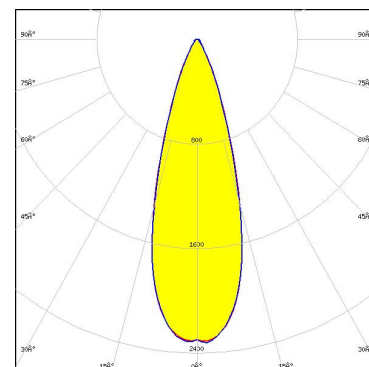


Light distribution files

Protective plate, glass



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
 FWHM / FWTM 32.0° / 56.0°
 Efficiency 94 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

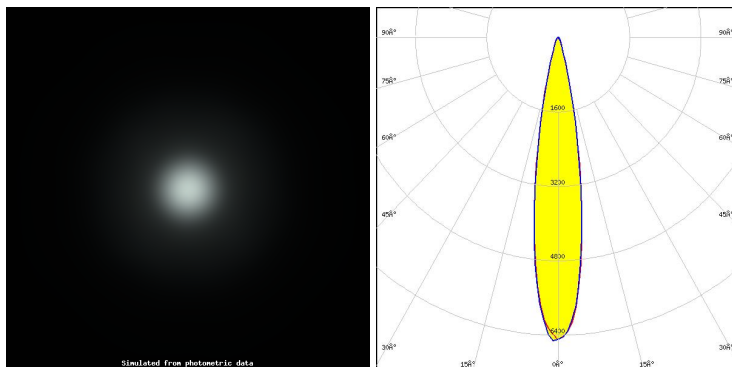


Light distribution files

OPTICAL RESULTS (SIMULATED):



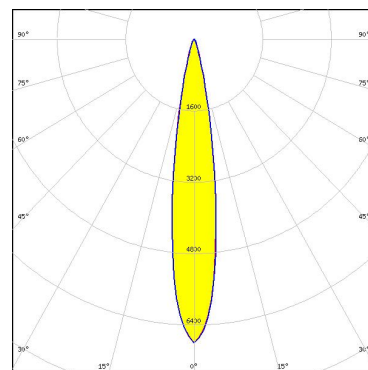
LED SFT-12R-W-A
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 93 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SFT-12R-W-A
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 88 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

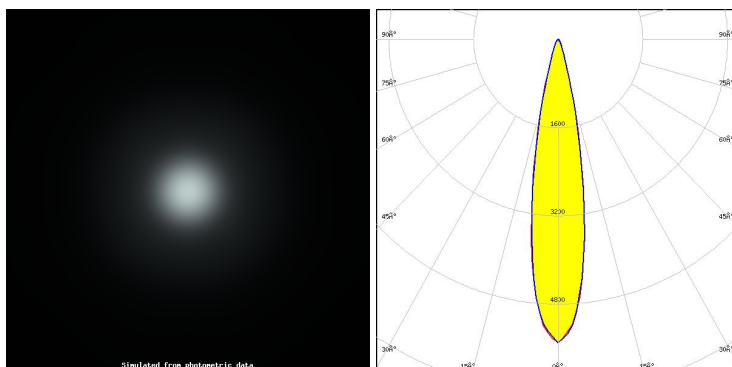


Protective plate, glass

Light distribution files



LED SFT-25R-W-A
 FWHM / FWTM 20.0° / 36.0°
 Efficiency 93 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

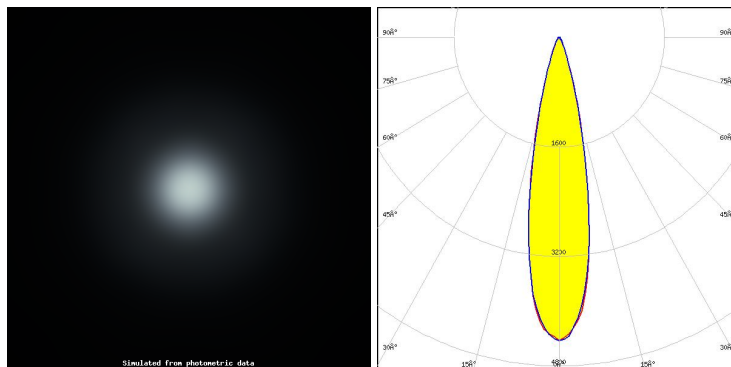


Light distribution files

OPTICAL RESULTS (SIMULATED):



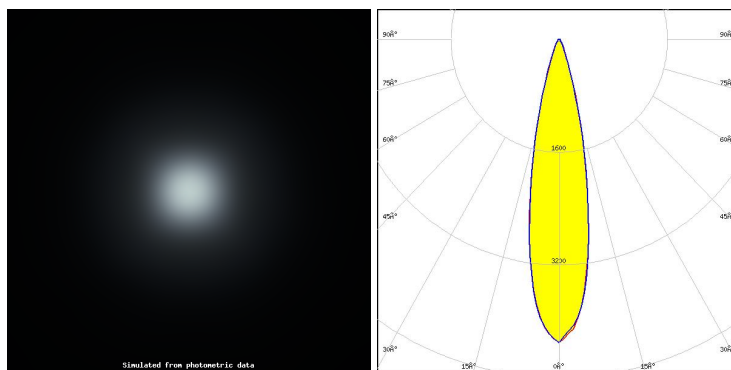
LED SST-12 Gen2
 FWHM / FWTM 22.0° / 42.0°
 Efficiency 93 %
 Peak intensity 4.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



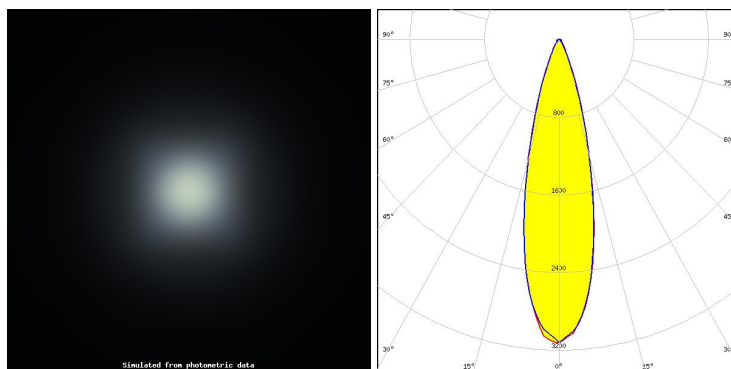
LED SST-20 Gen2
 FWHM / FWTM 22.0° / 42.0°
 Efficiency 93 %
 Peak intensity 4.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-20F-W
 FWHM / FWTM 26.0° / 50.0°
 Efficiency 93 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

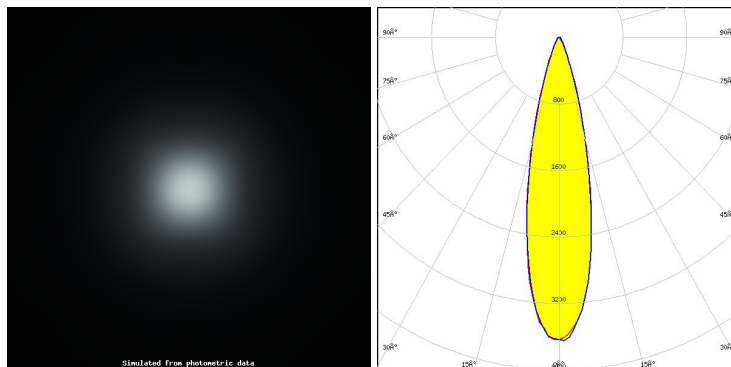


Light distribution files

OPTICAL RESULTS (SIMULATED):



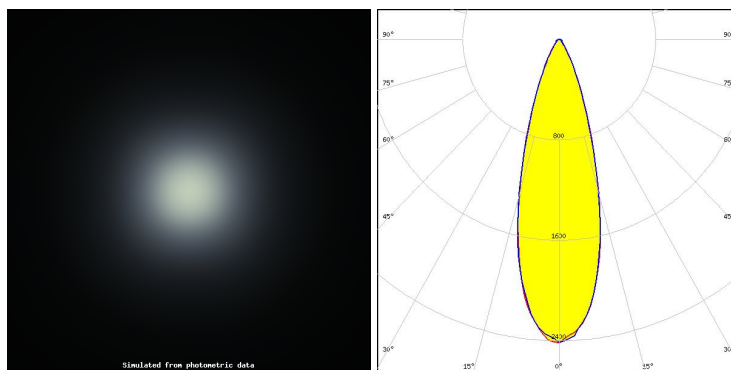
LED SST-25-W
 FWHM / FWTM 24.0° / 46.0 + 45.0°
 Efficiency 93 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



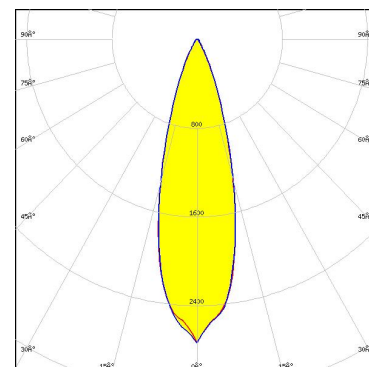
LED SST-36F-W
 FWHM / FWTM 32.0° / 58.0°
 Efficiency 93 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NV4WB35AM
 FWHM / FWTM 30.0° / 54.0°
 Efficiency 93 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

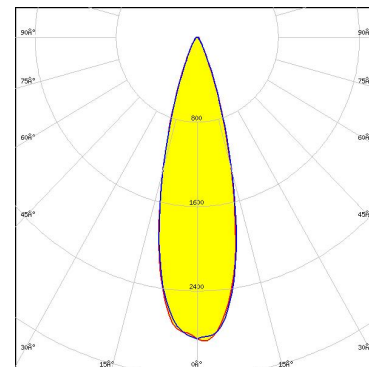


Light distribution files

OPTICAL RESULTS (SIMULATED):



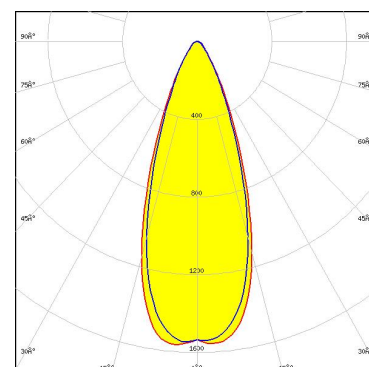
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 28.0° / 50.0°
 Efficiency 92 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Duris S8
 FWHM / FWTM 38.0° / 69.0°
 Efficiency 89 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

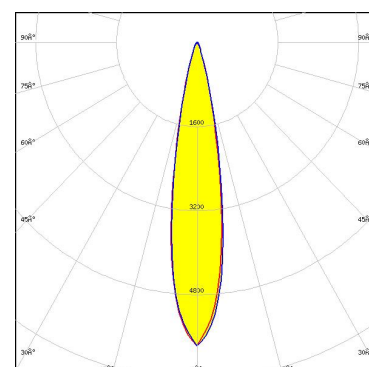


Light distribution files

Protective plate, glass



LED OSCONIQ C 2424 Gen1
 FWHM / FWTM 19.0 + 20.0° / 36.0°
 Efficiency 93 %
 Peak intensity 5.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

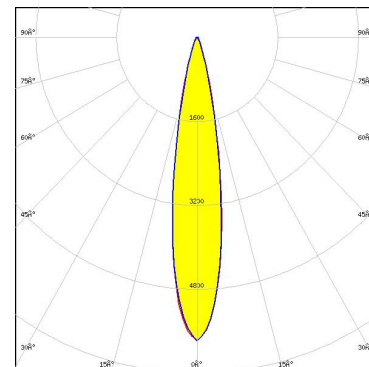


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

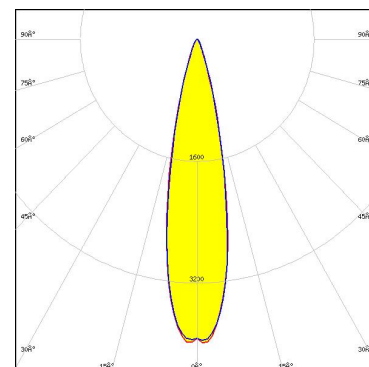
LED OSCONIQ P 3030
FWHM / FWTM 18.0° / 36.0°
Efficiency 94 %
Peak intensity 5.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (2W) PUSRA1
FWHM / FWTM 22.0° / 40.0°
Efficiency 87 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

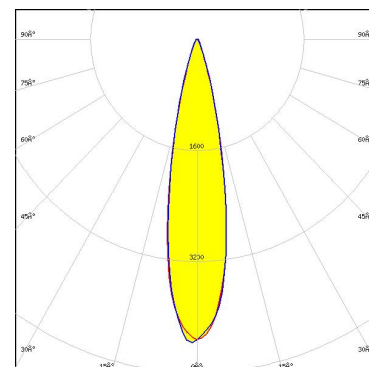


Light distribution files

Protective plate, glass

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (2W) PUSRA1
FWHM / FWTM 22.0° / 40.0°
Efficiency 92 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

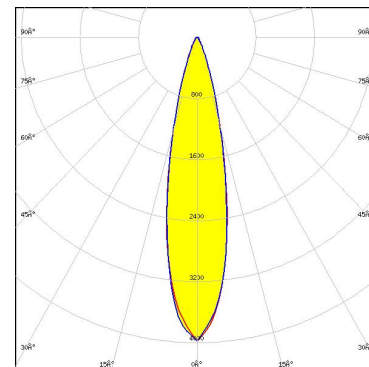


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

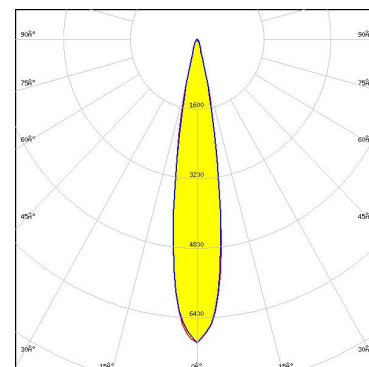
LED OSCONIQ P 3737 Flat
FWHM / FWTM 24.0° / 44.0°
Efficiency 93 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

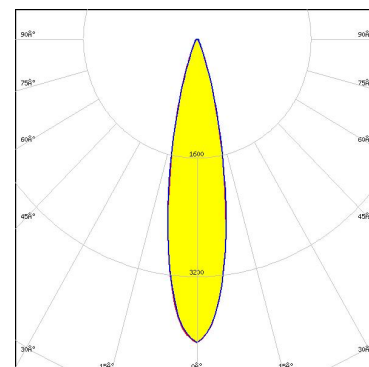
LED OSLO Pure 1414
FWHM / FWTM 18.0° / 30.0°
Efficiency 93 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLO Square CSSRM2/CSSRM3
FWHM / FWTM 22.0° / 42.0°
Efficiency 89 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



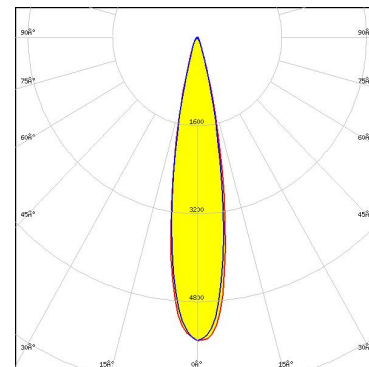
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

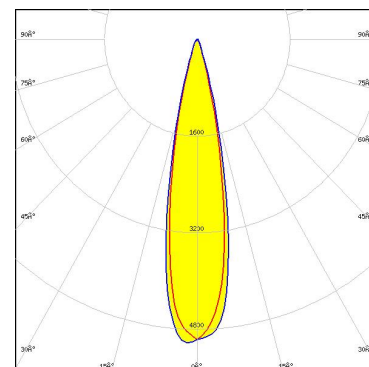
LED OSLON Square Flat
FWHM / FWTM 20.0° / 35.0°
Efficiency 94 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

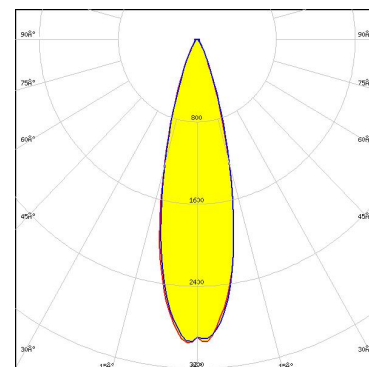
LED OSTAR Projection Compact (KW.CSLNM1.TG)
FWHM / FWTM 21.0° / 38.0°
Efficiency 94 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM 28.0° / 50.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

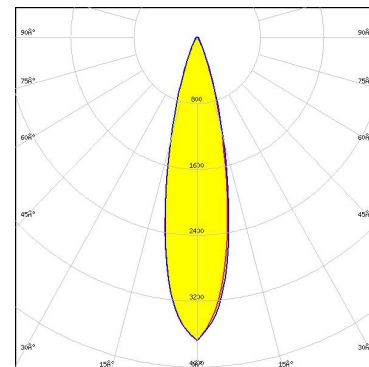


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

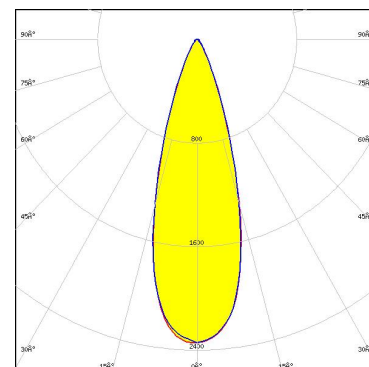
LED LH231B
FWHM / FWTM 24.0° / 46.0°
Efficiency 92 %
Peak intensity 3.7 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:



Light distribution files

SAMSUNG

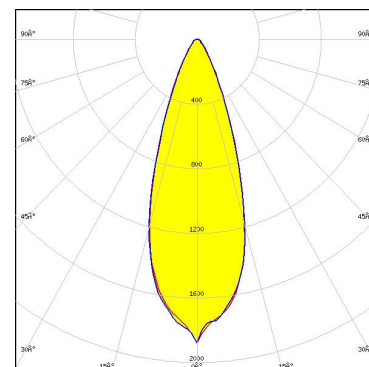
LED LH351C
FWHM / FWTM 32.0° / 56.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351D
FWHM / FWTM 36.0° / 64.0°
Efficiency 92 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

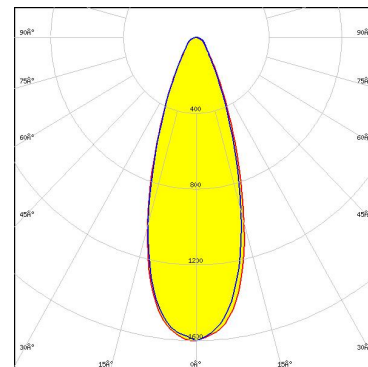
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LH502C
FWHM / FWTM 36.0° / 70.0°
Efficiency 89 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

Light distribution files



SAMSUNG

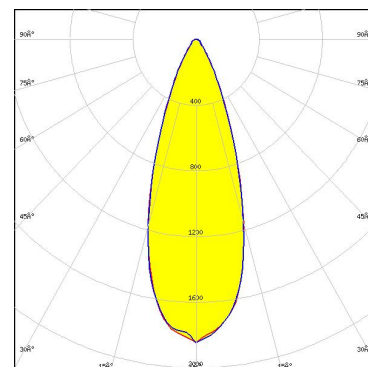
LED LH508A Plus
FWHM / FWTM 32.0° / 62.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED MJT 5050
FWHM / FWTM 36.0° / 66.0°
Efficiency 92 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

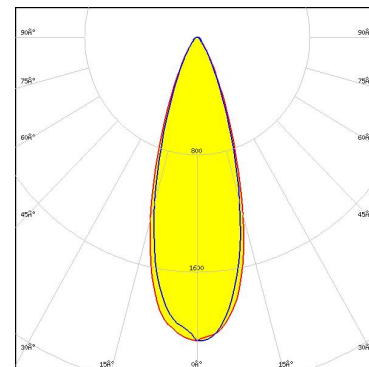
Light distribution files



OPTICAL RESULTS (SIMULATED):



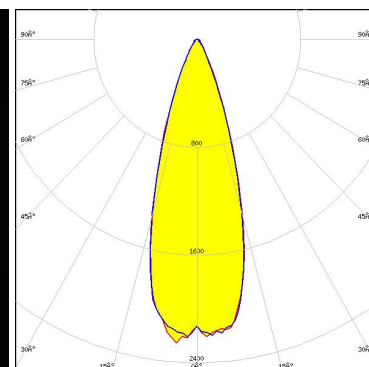
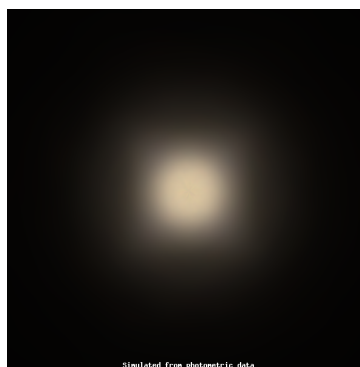
LED: SEOUL DC 5050 6V
 FWHM / FWTM: 34.0° / 62.0°
 Efficiency: 94 %
 Peak intensity: 2.1 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



Light distribution files



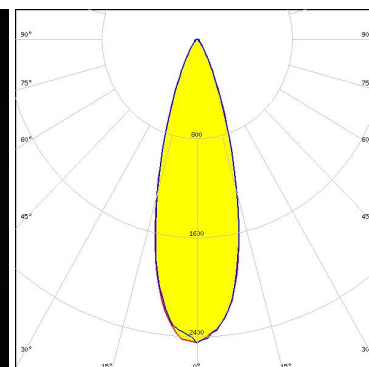
LED: Z5M3-E1
 FWHM / FWTM: 33.0 + 34.0° / 56.0°
 Efficiency: 93 %
 Peak intensity: 2.3 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



Light distribution files



LED: Z5M4-E1
 FWHM / FWTM: 32.0° / 56.0°
 Efficiency: 93 %
 Peak intensity: 2.5 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:

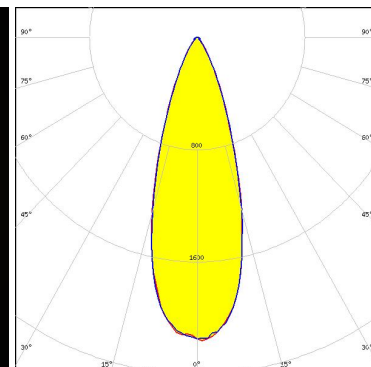
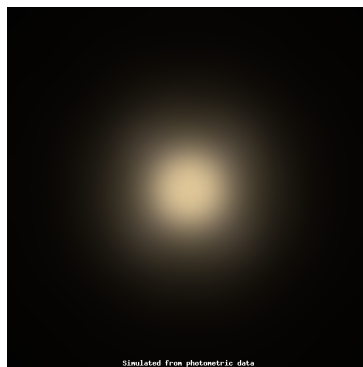


Light distribution files

OPTICAL RESULTS (SIMULATED):



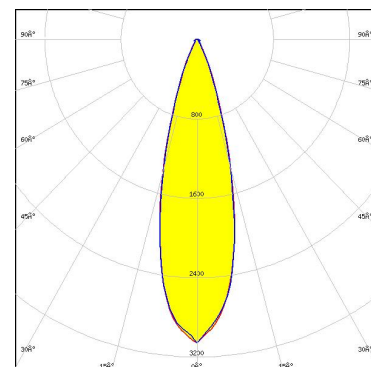
LED Z5M4-E2
 FWHM / FWTM 34.0° / 60.0 + 61.0°
 Efficiency 93 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



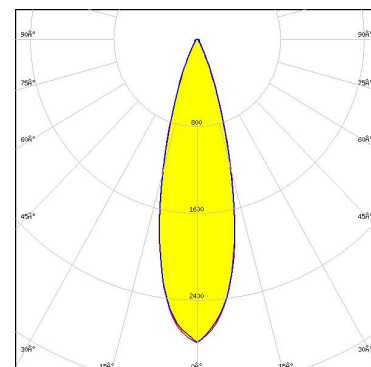
LED Z5M5
 FWHM / FWTM 28.0° / 50.0°
 Efficiency 94 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



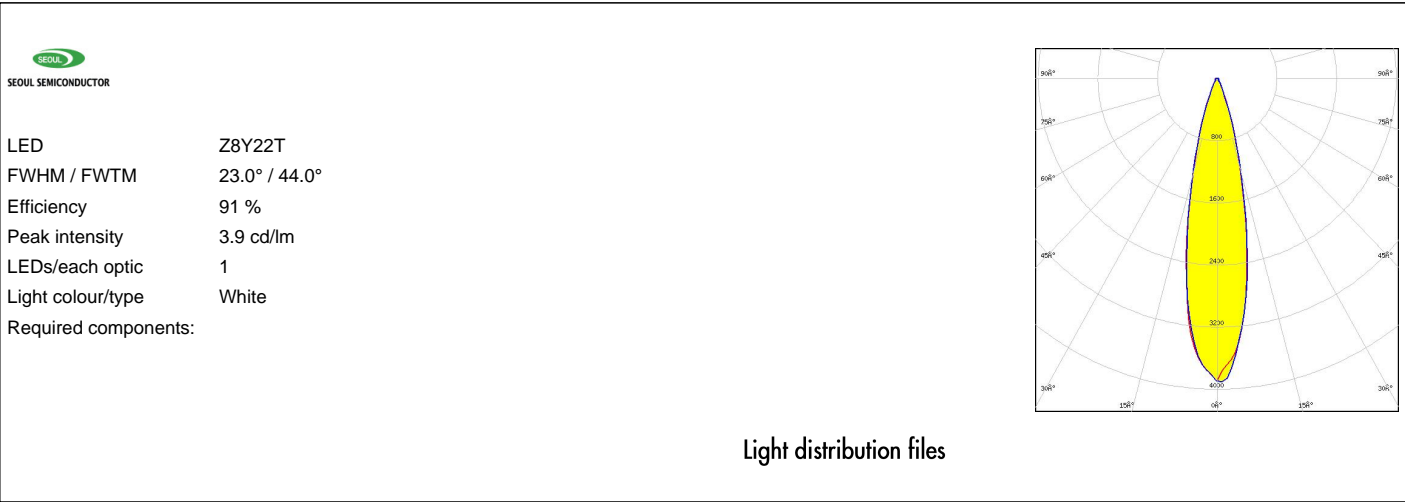
LED Z5M5
 FWHM / FWTM 28.0° / 50.0°
 Efficiency 85 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Protective plate, glass

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)