

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 ⓘ

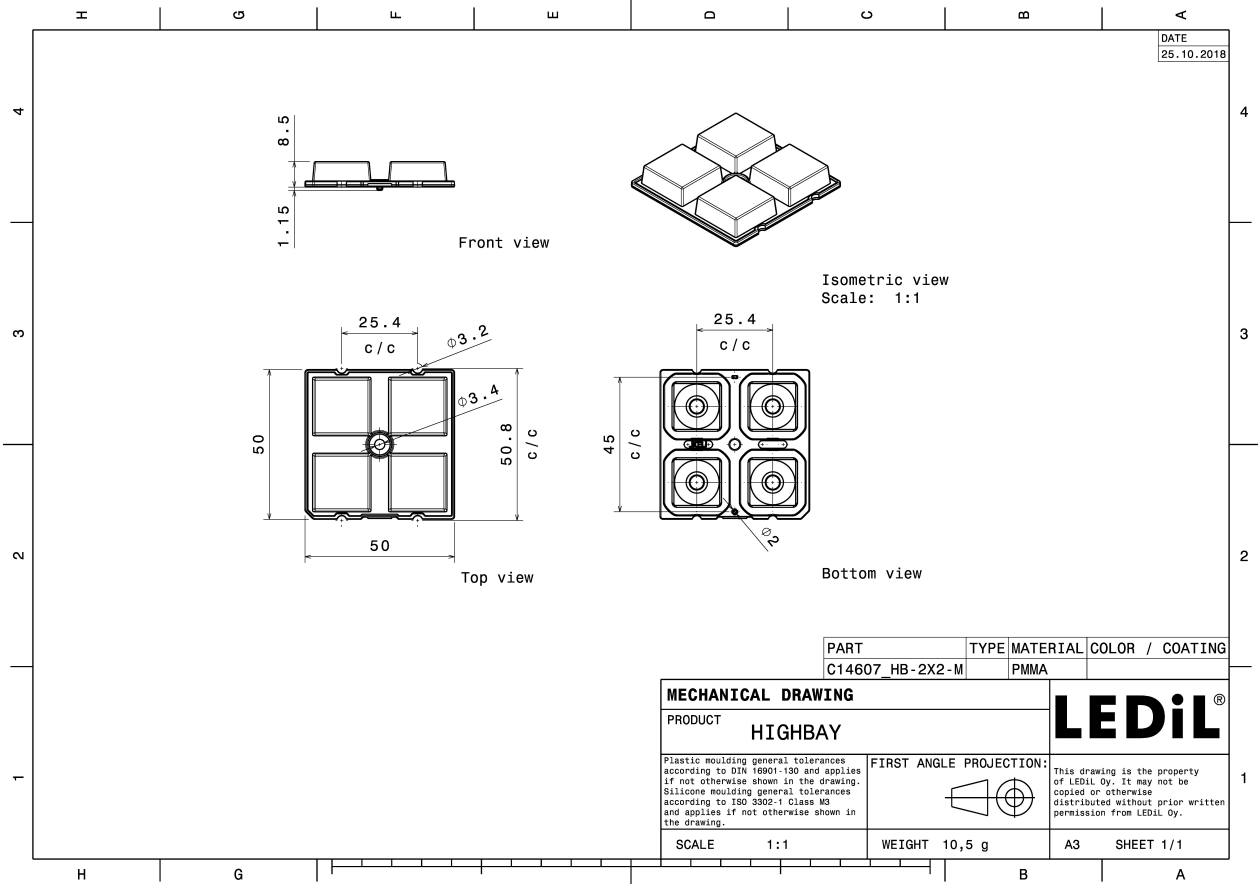


MATERIALS:

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

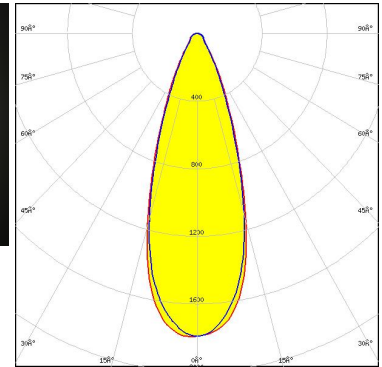
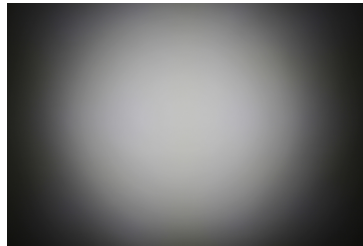


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



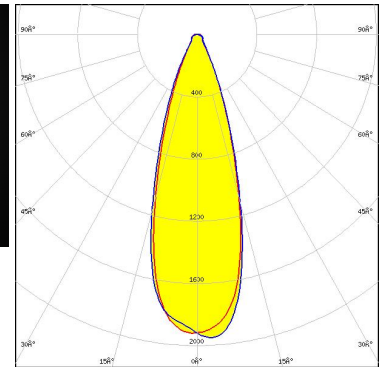
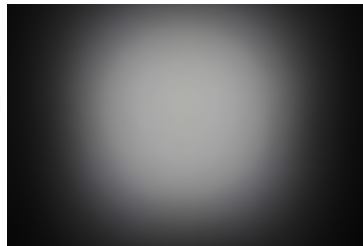
LED Bridgelux SMD 5050
FWHM / FWTM 36.0° / 66.0°
Efficiency 94 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



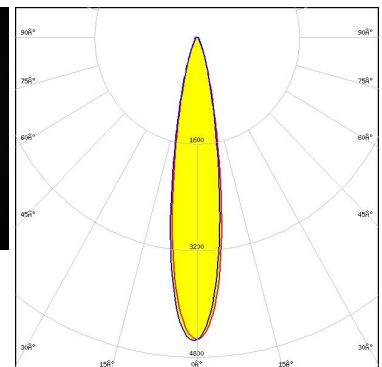
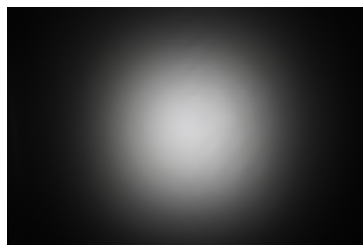
LED XD16
FWHM / FWTM 33.0° / 59.0°
Efficiency 94 %
Peak intensity 2 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:



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:

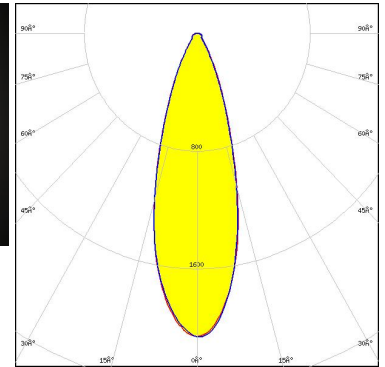
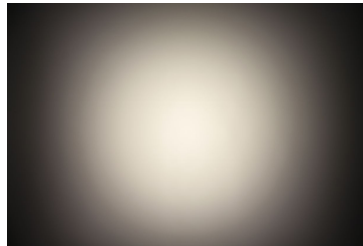


Light distribution files

OPTICAL RESULTS (MEASURED):



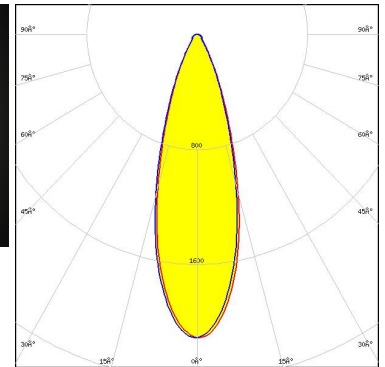
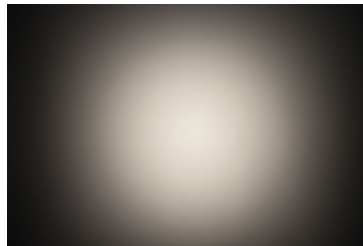
LED XM-L
 FWHM / FWTM 32.0° / 61.0°
 Efficiency 93 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



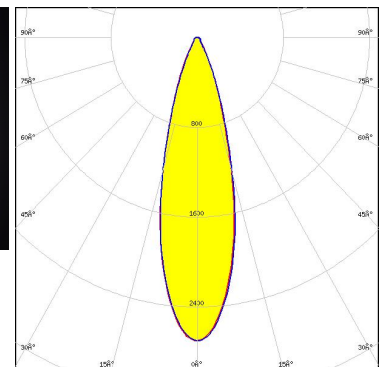
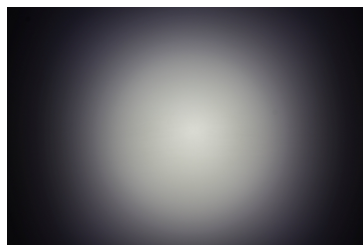
LED XM-L2
 FWHM / FWTM 32.0° / 61.0°
 Efficiency 92 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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:

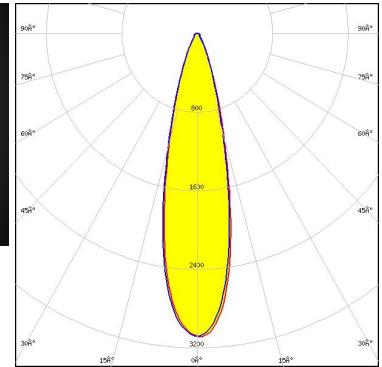
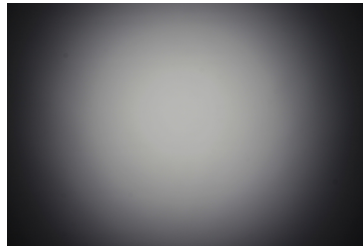


Light distribution files

OPTICAL RESULTS (MEASURED):



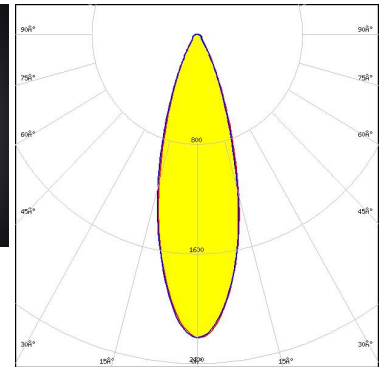
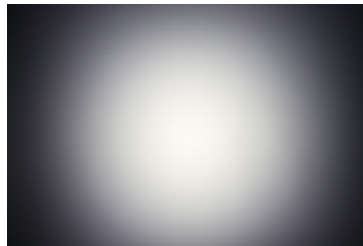
LED XP-G2
 FWHM / FWTM 25.0° / 49.0°
 Efficiency 0 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



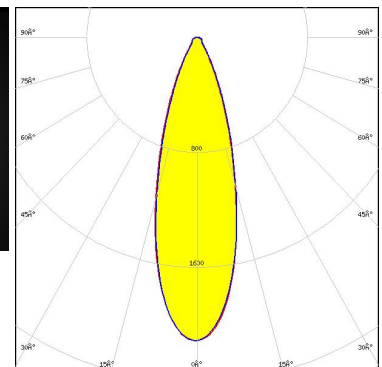
LED XP-L HD
 FWHM / FWTM 31.0° / 60.0°
 Efficiency 94 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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:

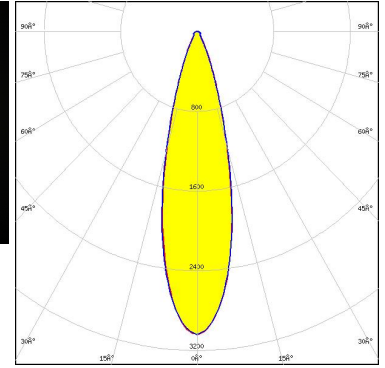


Light distribution files

OPTICAL RESULTS (MEASURED):

inventronics

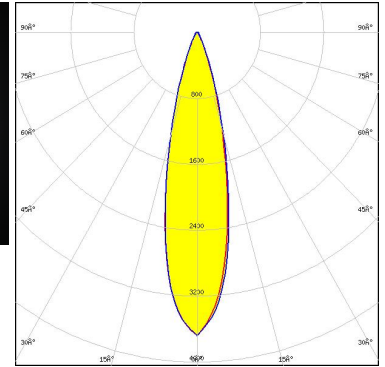
LED PL-BRICK HP 3800 2x8 SSG
 FWHM / FWTM 26.0° / 50.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

inventronics

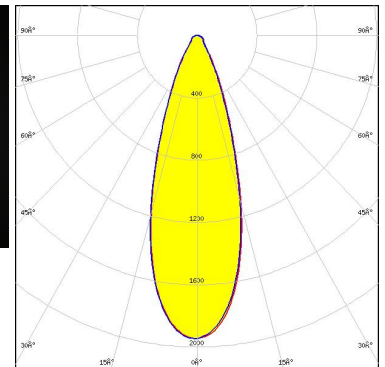
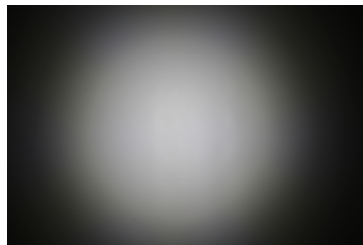
LED PrevaLED Brick HP 2x8
 FWHM / FWTM 23.0° / 44.0°
 Efficiency 91 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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:

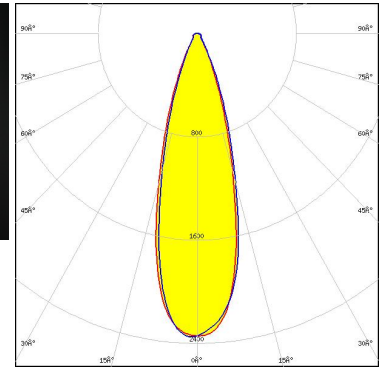


Light distribution files

OPTICAL RESULTS (MEASURED):



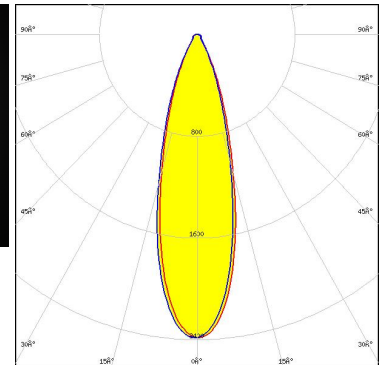
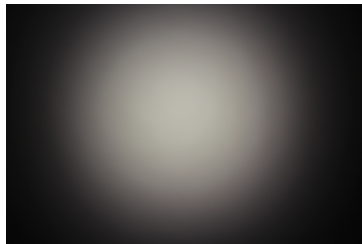
LED LUXEON MZ
FWHM / FWTM 30.0° / 55.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



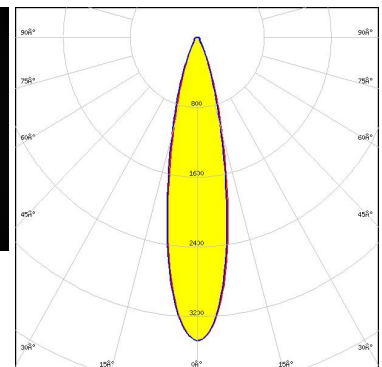
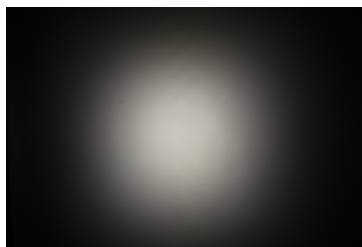
LED LUXEON V
FWHM / FWTM 29.0° / 58.0°
Efficiency 94 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



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:

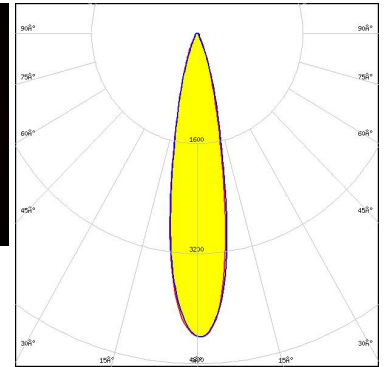


Light distribution files

OPTICAL RESULTS (MEASURED):



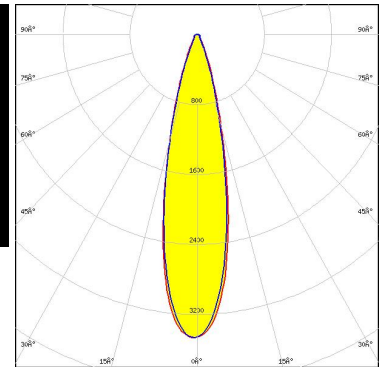
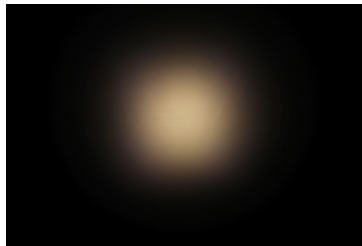
LED SST-10-B130
FWHM / FWTM 21.0° / 42.0°
Efficiency 95 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour/type Deep Red
Required components:



Light distribution files



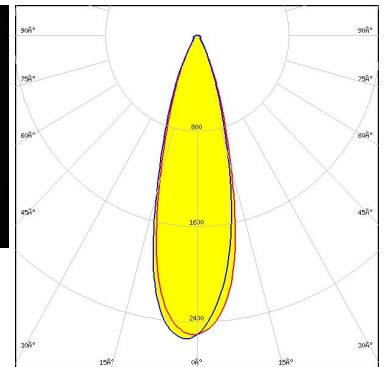
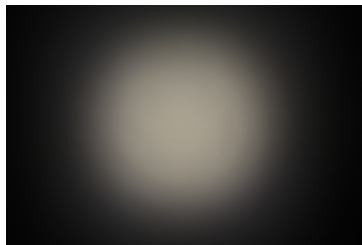
LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM 24.0° / 46.0°
Efficiency 95 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



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:

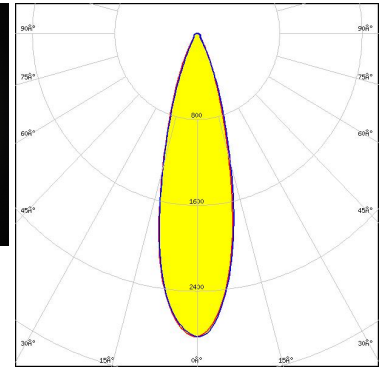
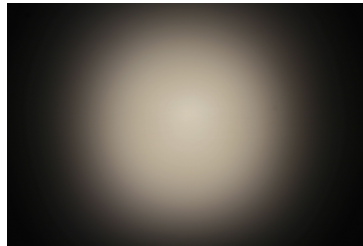


Light distribution files

OPTICAL RESULTS (MEASURED):



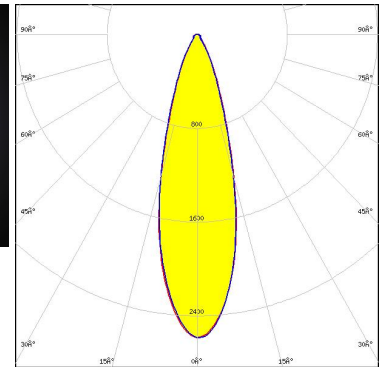
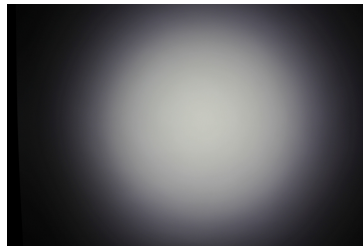
LED NVSW219F
FWHM / FWTM 28.0° / 53.0°
Efficiency 95 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



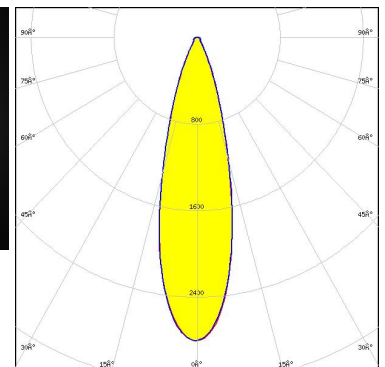
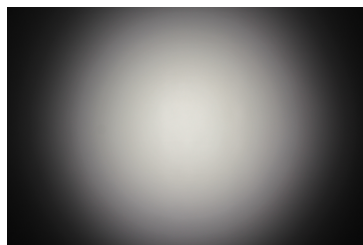
LED NVSW319B
FWHM / FWTM 29.0° / 57.0°
Efficiency 94 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



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:

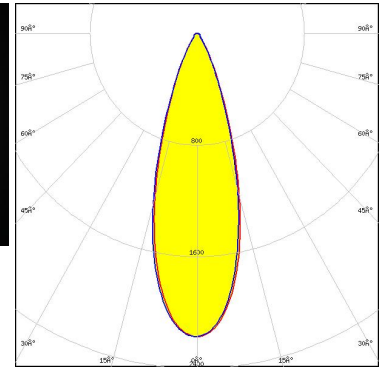
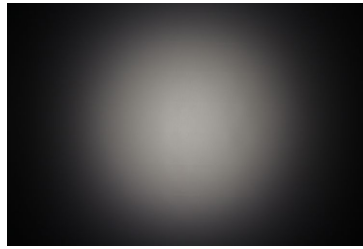


Light distribution files

OPTICAL RESULTS (MEASURED):



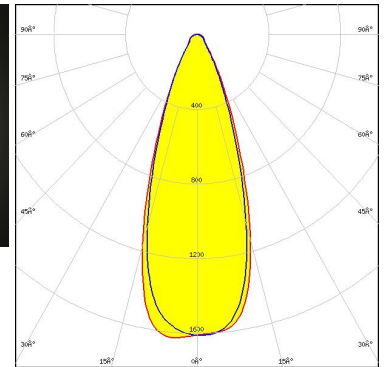
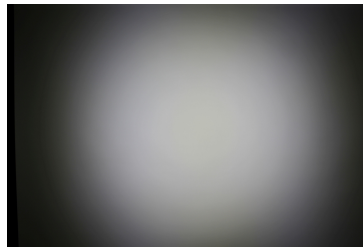
LED NWSx229A
 FWHM / FWTM 33.0° / 58.0°
 Efficiency 87 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



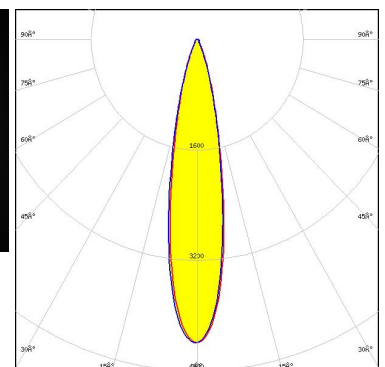
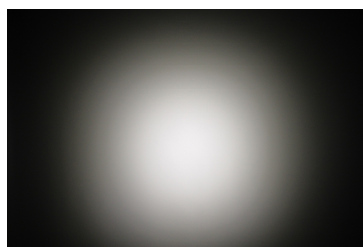
LED Duris S8
 FWHM / FWTM 38.0° / 68.0°
 Efficiency 94 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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:

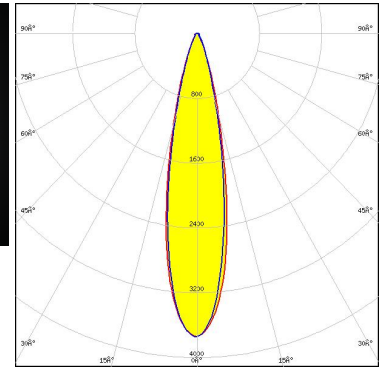
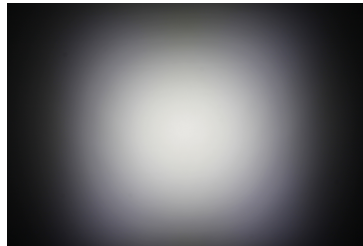


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

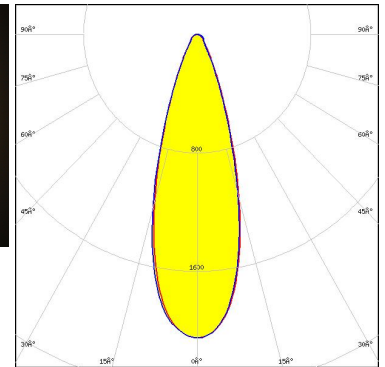
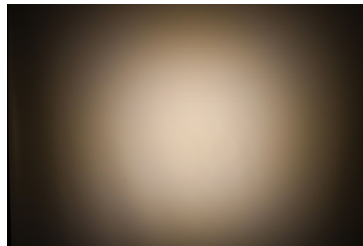
LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 23.0° / 44.0°
 Efficiency 91 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

PHILIPS

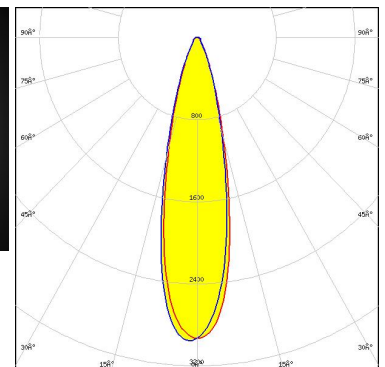
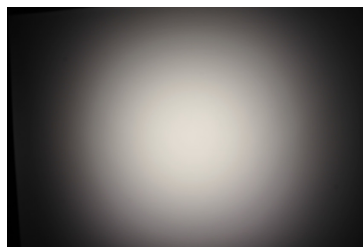
LED Fortimo FastFlex LED 2x8 DA (U)HE
 FWHM / FWTM 32.0° / 61.0°
 Efficiency 96 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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°

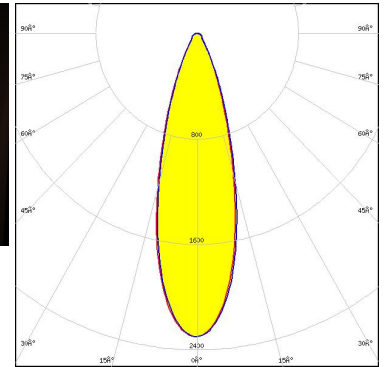
Efficiency 96 %

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°

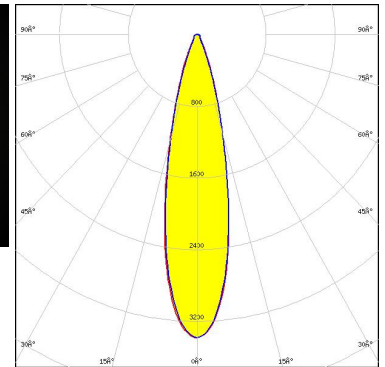
Efficiency 94 %

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°

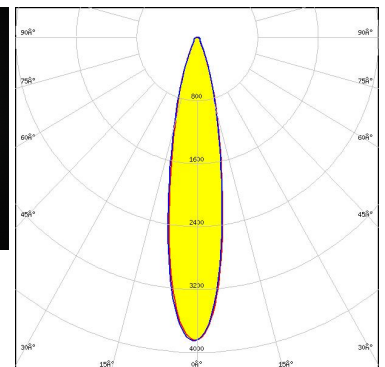
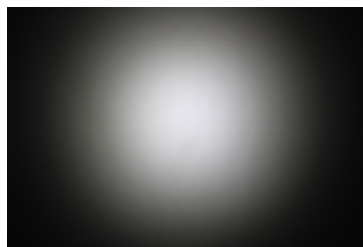
Efficiency 96 %

Peak intensity 3.9 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

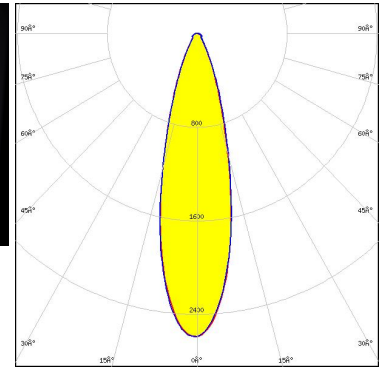


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

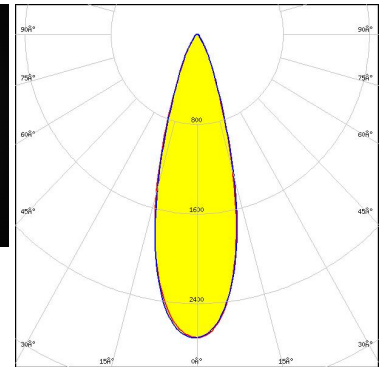
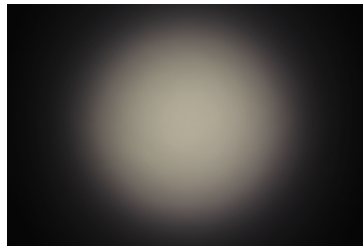
LED HiLOM RH12 Z (LH351C)
 FWHM / FWTM 27.0° / 55.0°
 Efficiency 95 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

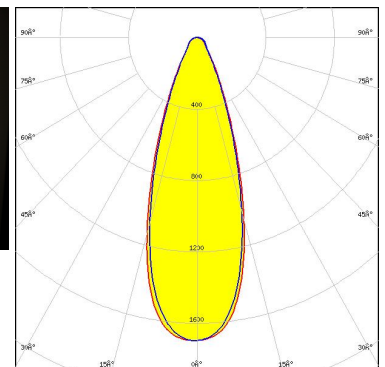
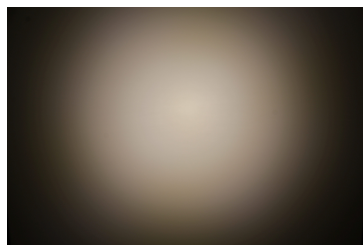
LED HiLOM RH16 (LH351C)
 FWHM / FWTM 30.0° / 55.0°
 Efficiency 94 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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:

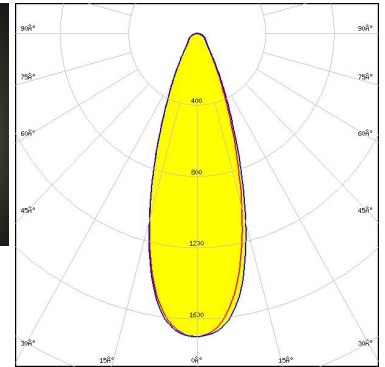
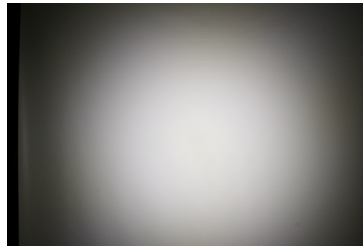


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

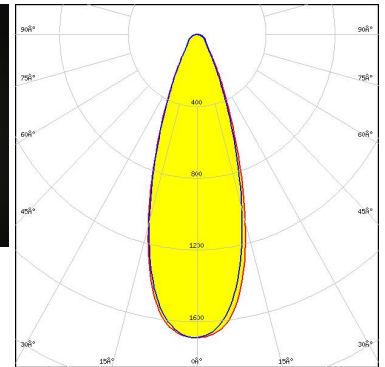
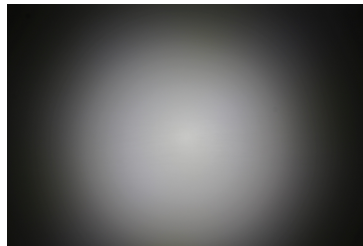
LED HiLOM RM16 Z (LH502C)
 FWHM / FWTM 36.0° / 68.0°
 Efficiency 96 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

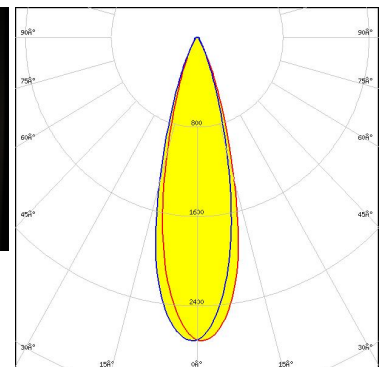
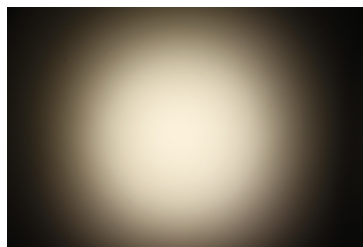
LED HiLOM RM8 Z (LH502C)
 FWHM / FWTM 36.0° / 68.0°
 Efficiency 96 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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:

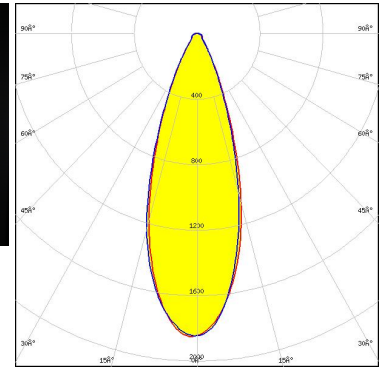
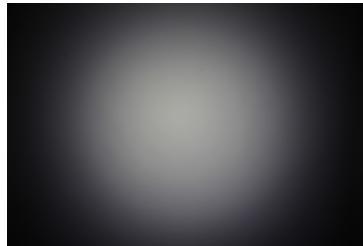


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

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

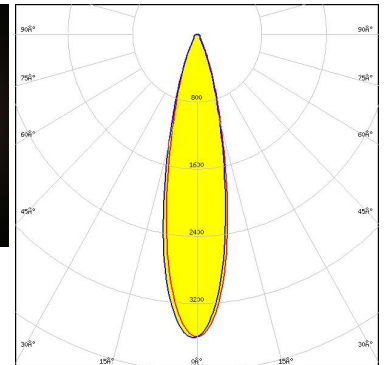
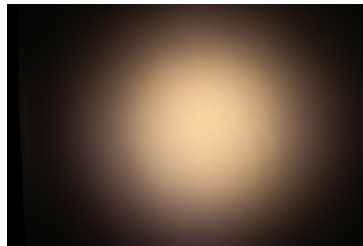


Light distribution files

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/m
 LEDs/each optic 1
 Light colour/type White
 Required components:

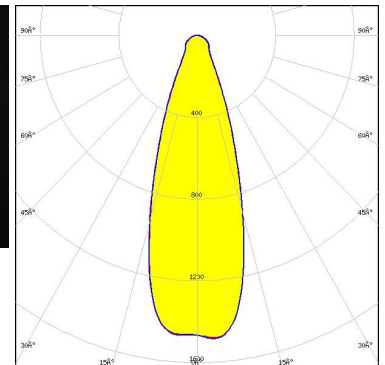
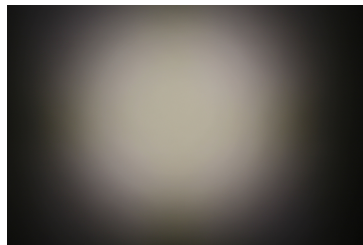


Light distribution files

SEUL

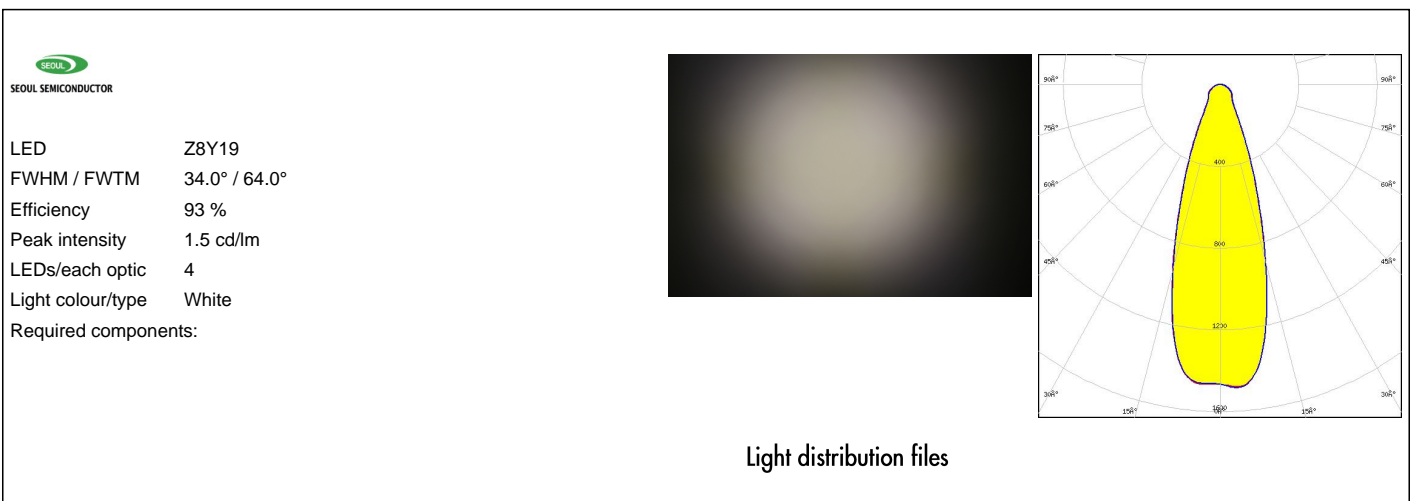
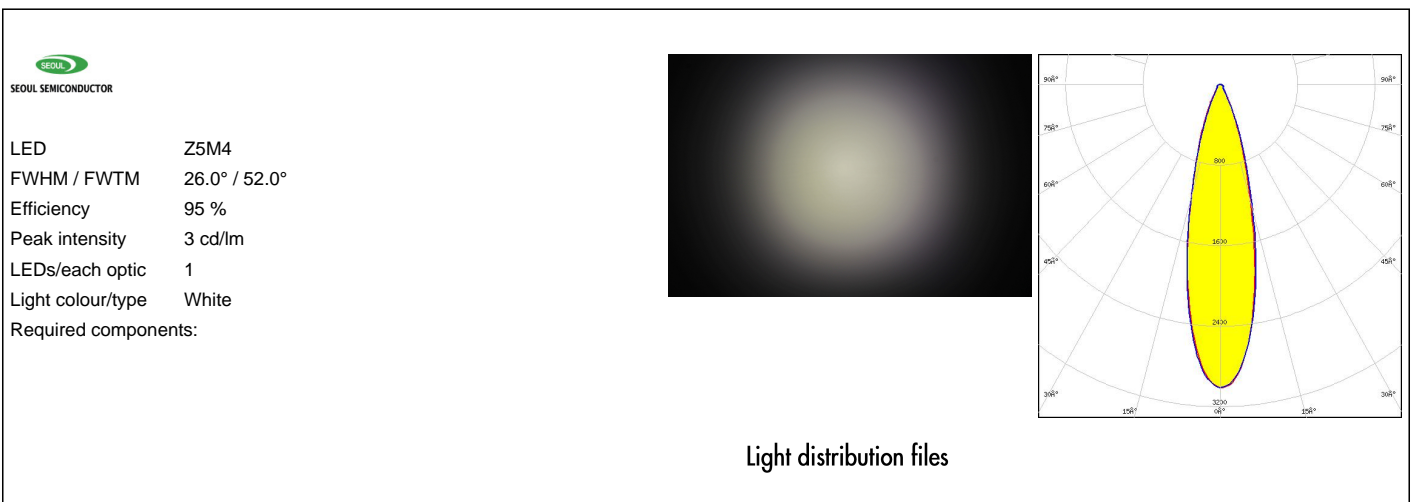
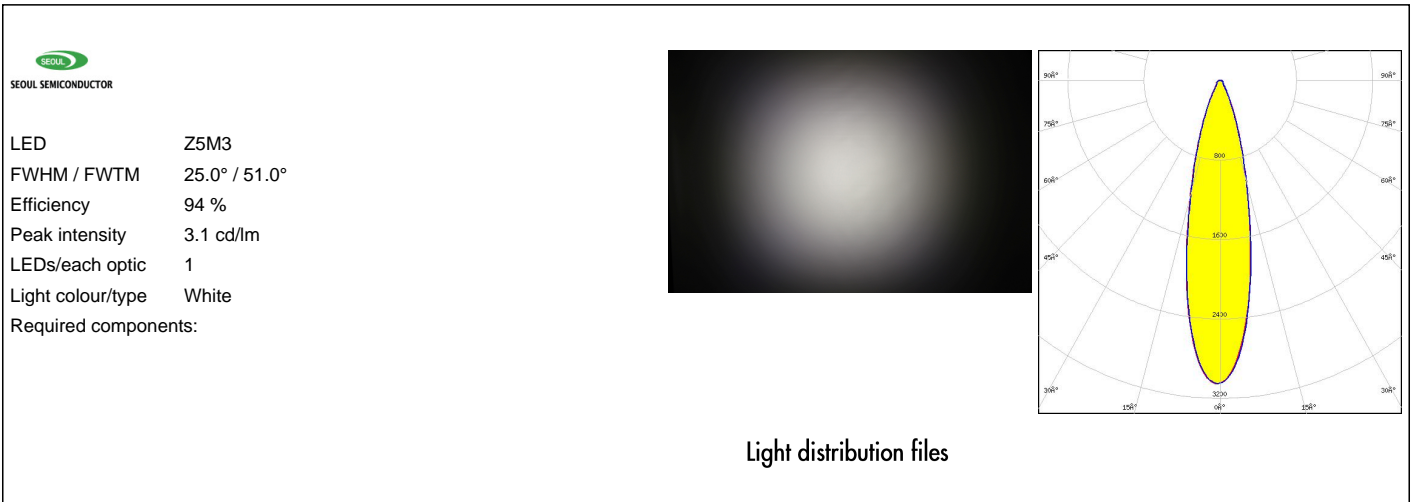
SEOUL SEMICONDUCTOR

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

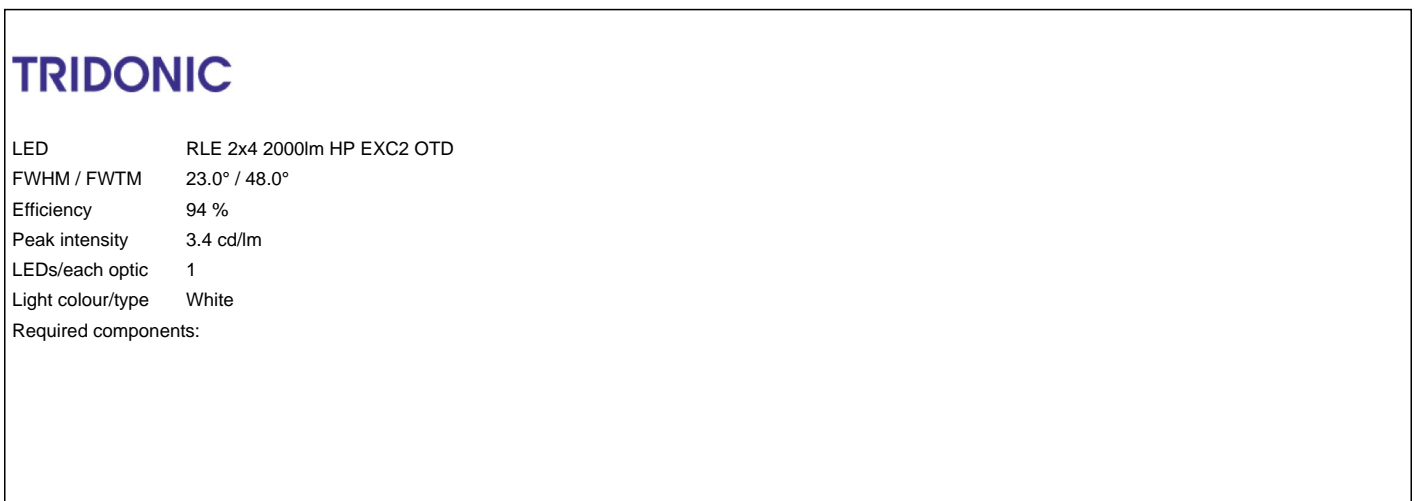
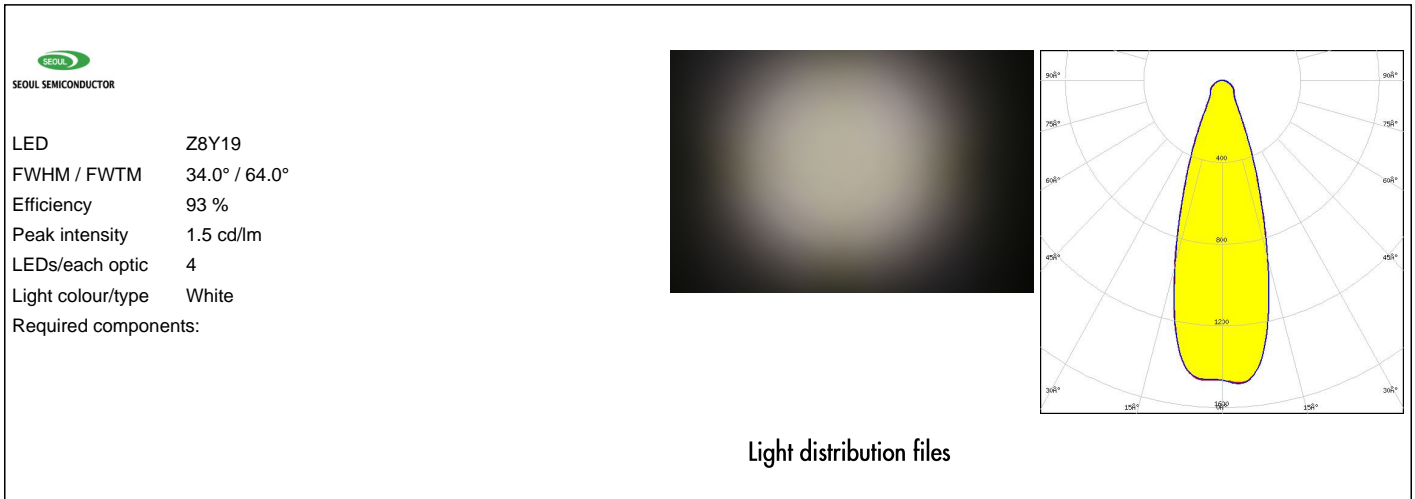


Light distribution files

OPTICAL RESULTS (MEASURED):



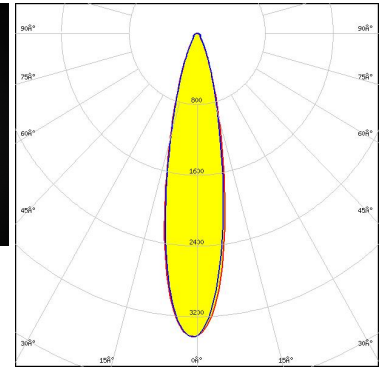
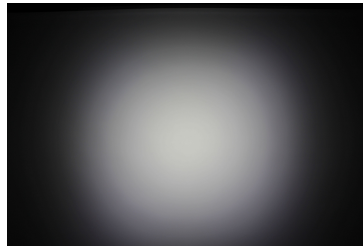
OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):

TRIDONIC

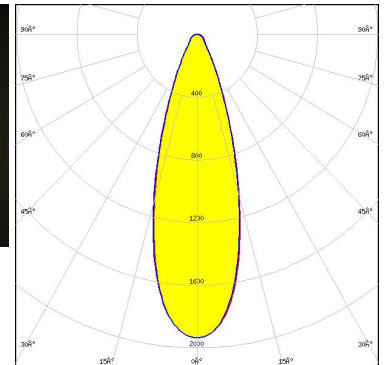
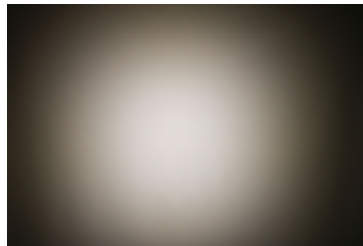
LED RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM 23.0° / 48.0°
Efficiency 94 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

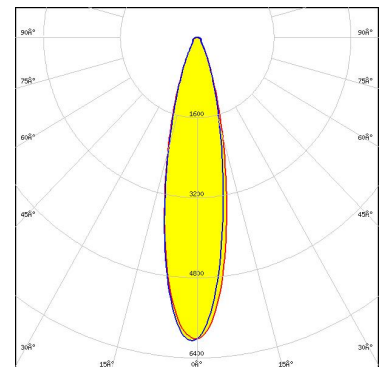
LED RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM 33.0° / 64.0°
Efficiency 95 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



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:

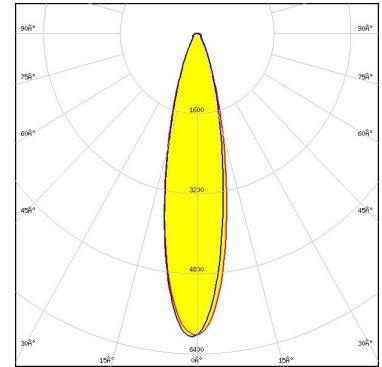


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

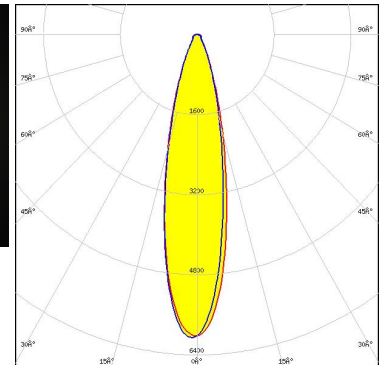
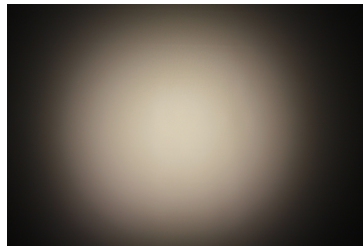
LED RLE G1 49x133mm 2000lm xxx EXC OTD
 FWHM / FWTM 24.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

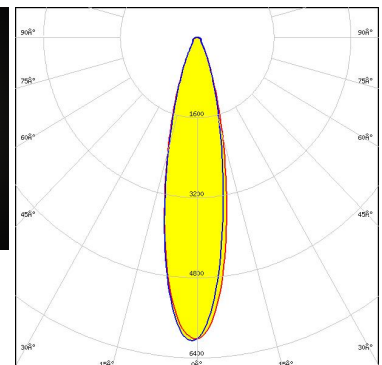
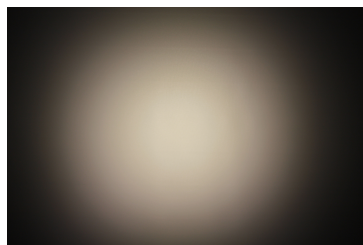
LED RLE G1 49x223mm 4000lm xxx EXC OTD
 FWHM / FWTM 24.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



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:

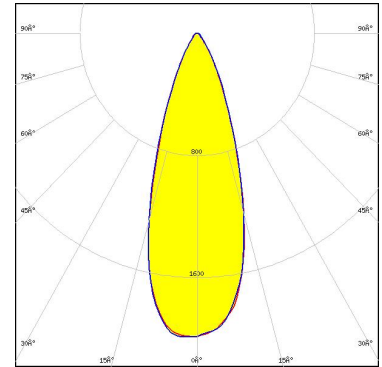


Light distribution files

OPTICAL RESULTS (SIMULATED):



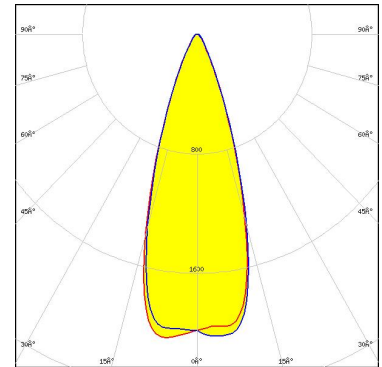
LED J Series 5050 Round LES
FWHM / FWTM 35.0° / 64.0°
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



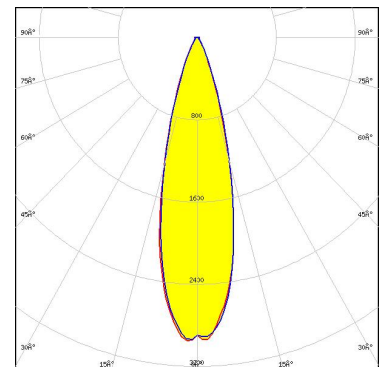
LED XP-G2 HE
FWHM / FWTM 35.0° / 58.0°
Efficiency 92 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



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



Light distribution files

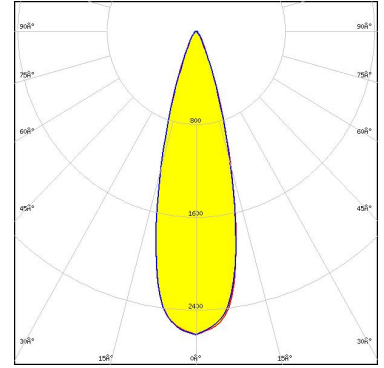
OPTICAL RESULTS (SIMULATED):



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

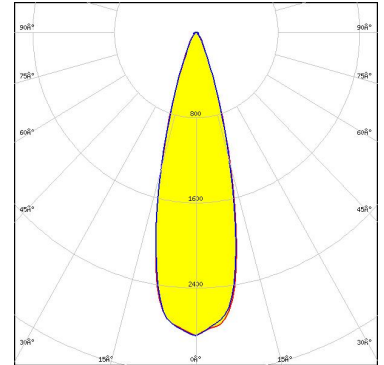
Protective plate, glass

Light distribution files



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

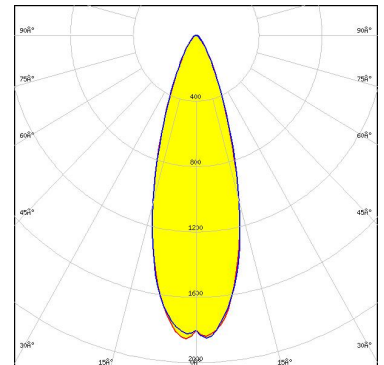
Light distribution files



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

Protective plate, glass

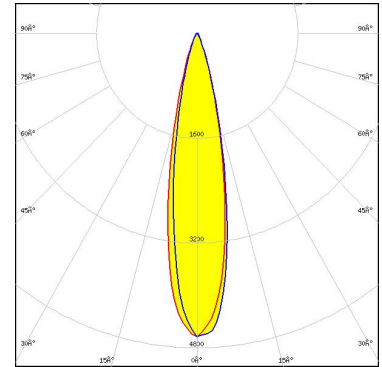
Light distribution files



OPTICAL RESULTS (SIMULATED):



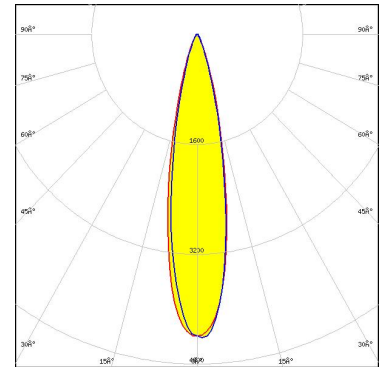
LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM 21.0° / 41.0°
 Efficiency 91 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



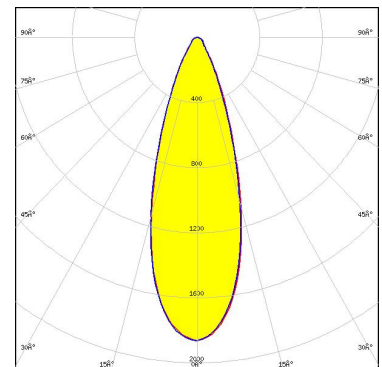
LED LUXEON 3535 2D
 FWHM / FWTM 22.0° / 42.0°
 Efficiency 92 %
 Peak intensity 4.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



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

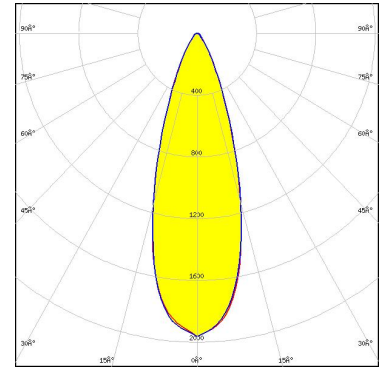
OPTICAL RESULTS (SIMULATED):



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:

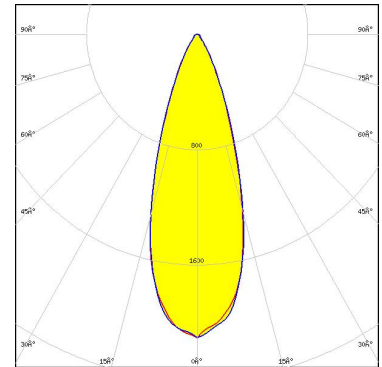
Protective plate, glass

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:

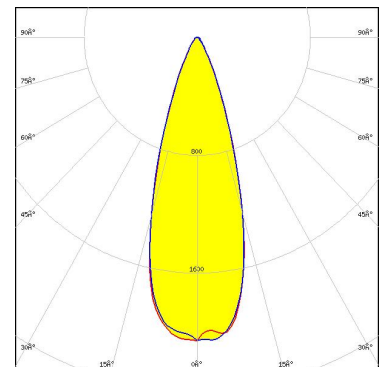
Light distribution files



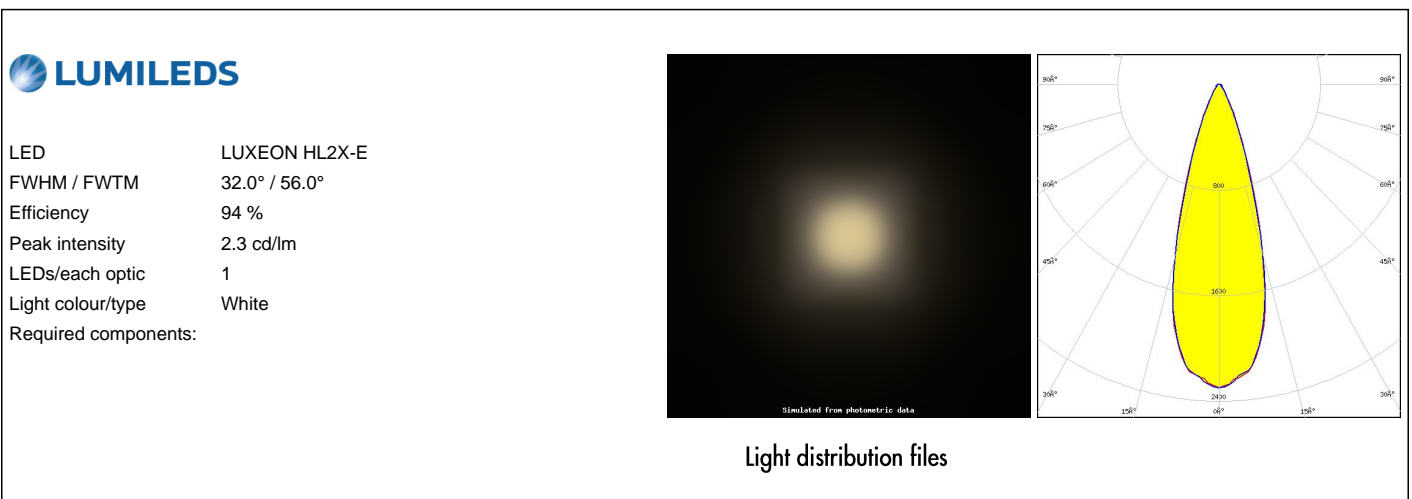
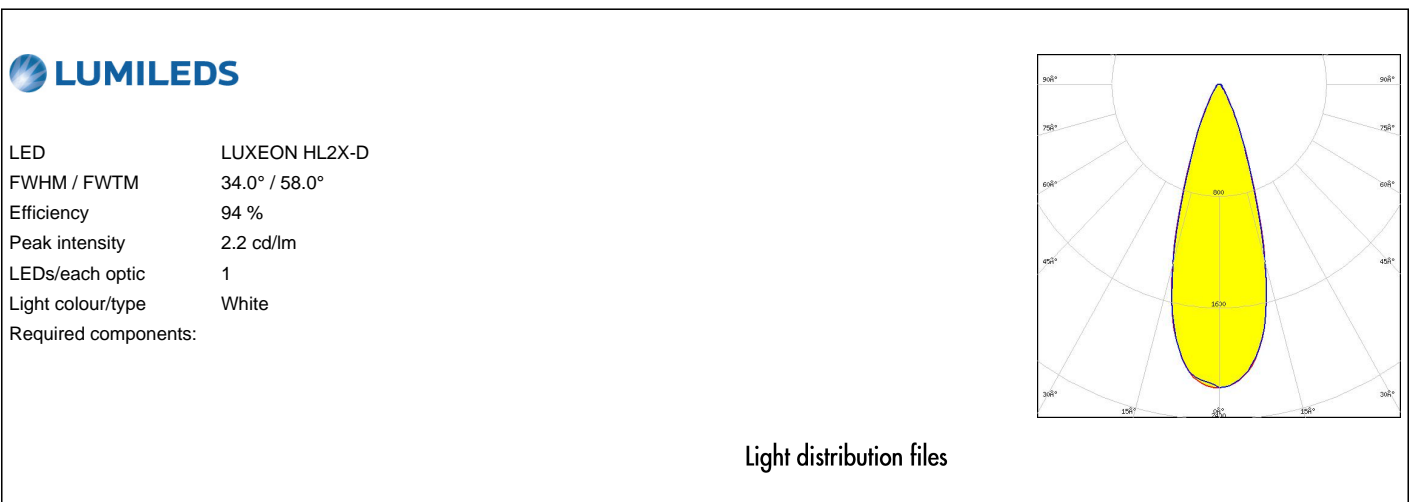
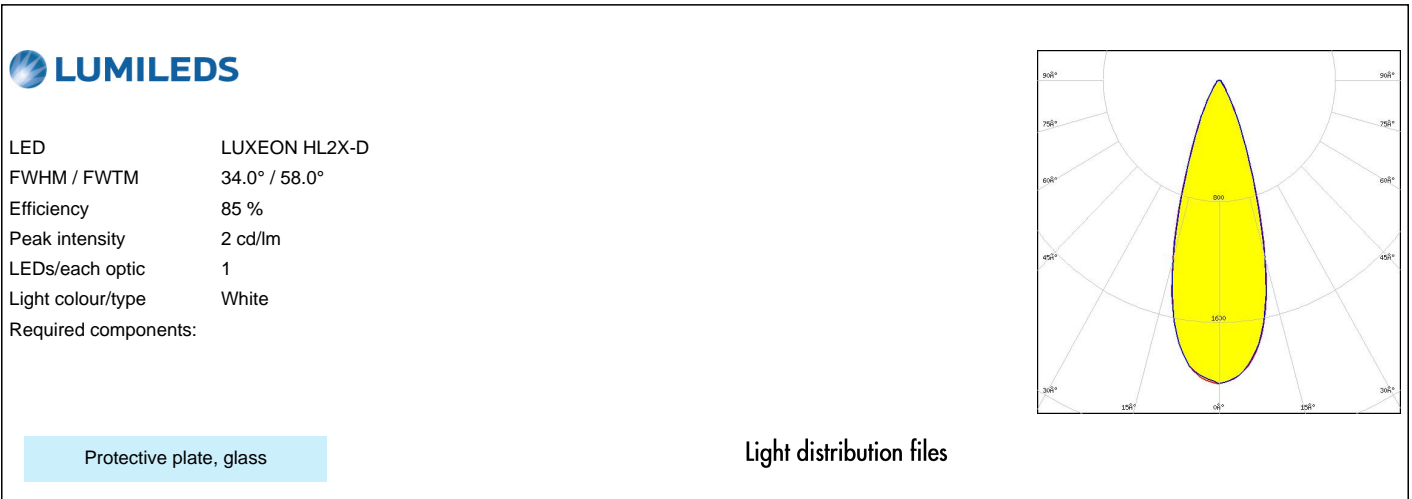
LED LUXEON HL2X
 FWHM / FWTM 34.0° / 58.0°
 Efficiency 87 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

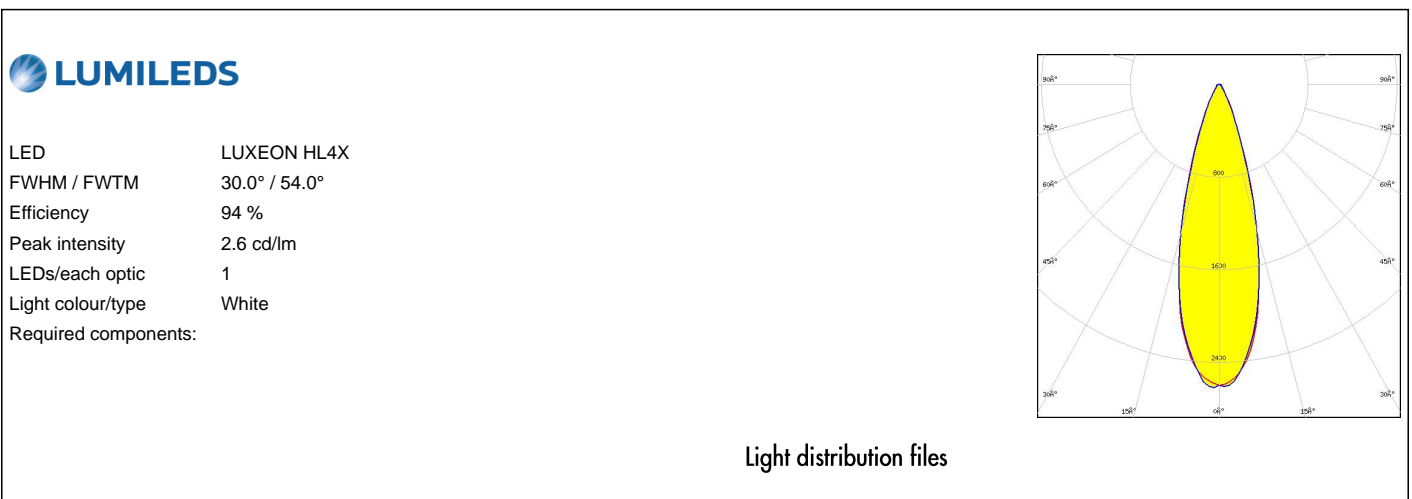
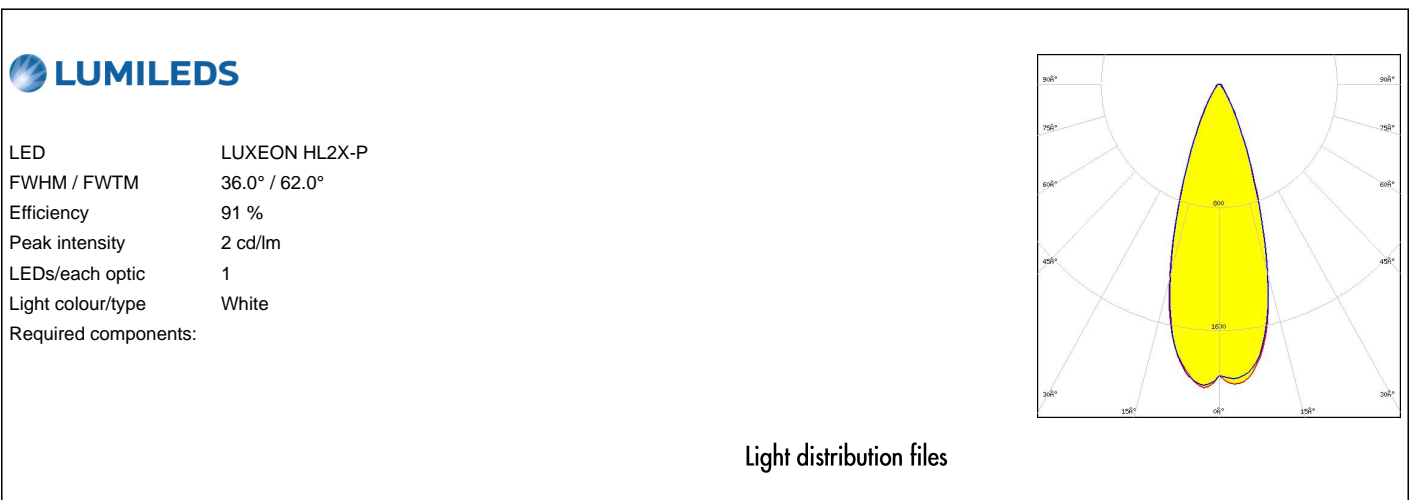
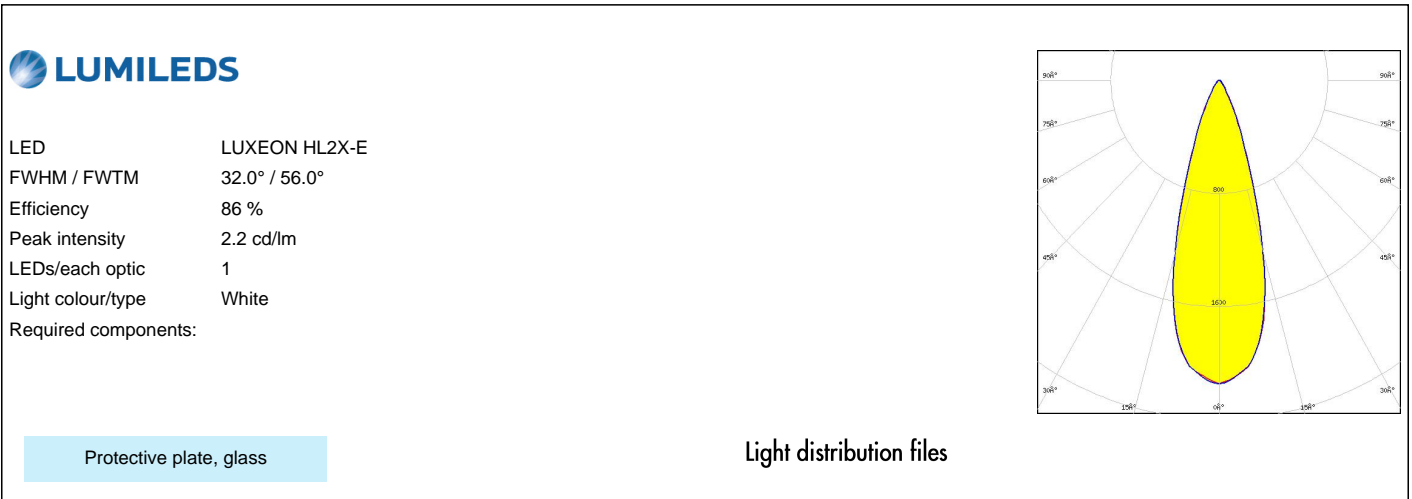
Light distribution files



OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):



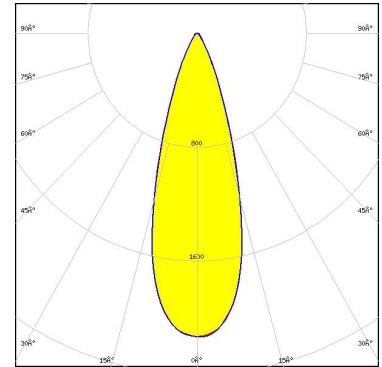
OPTICAL RESULTS (SIMULATED):



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:

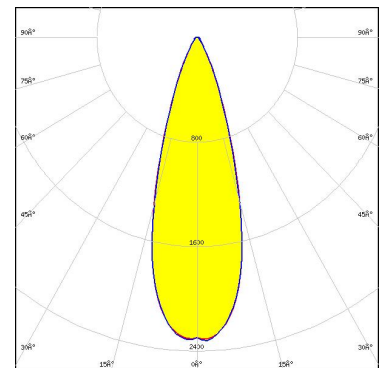
Protective plate, glass

Light distribution files

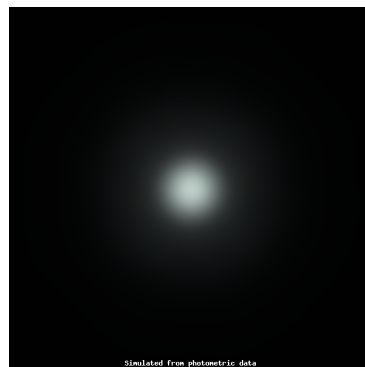


LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM 32.0° / 56.0°
Efficiency 94 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

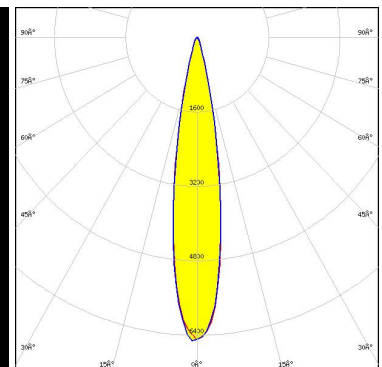
Light distribution files



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

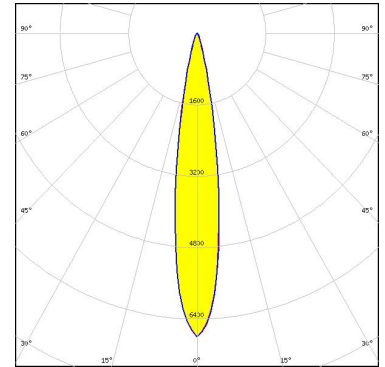


OPTICAL RESULTS (SIMULATED):



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:

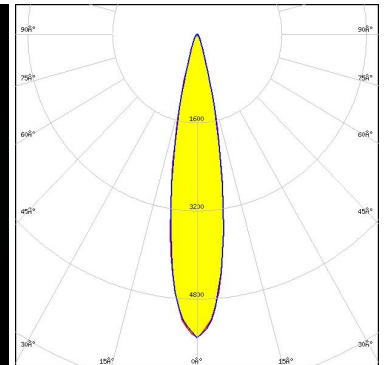
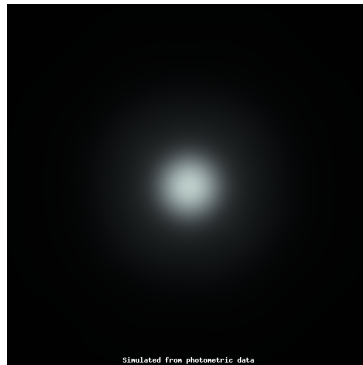
Protective plate, glass



Light distribution files



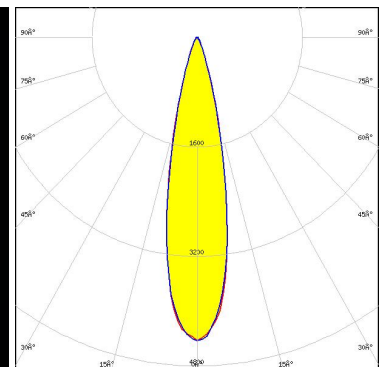
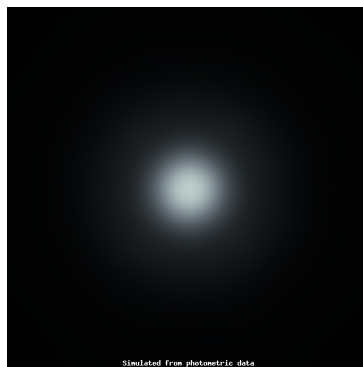
LED SFT-25R-W-A
FWHM / FWTM 20.0° / 36.0°
Efficiency 93 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



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:

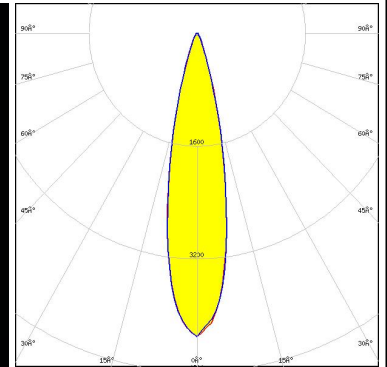
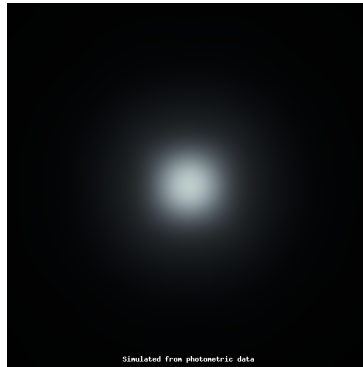


Light distribution files

OPTICAL RESULTS (SIMULATED):



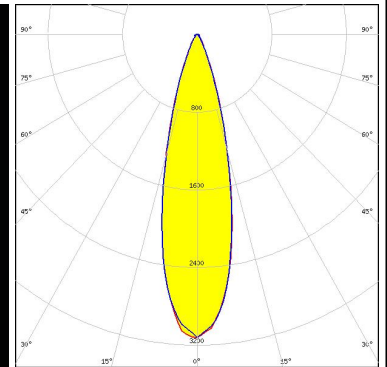
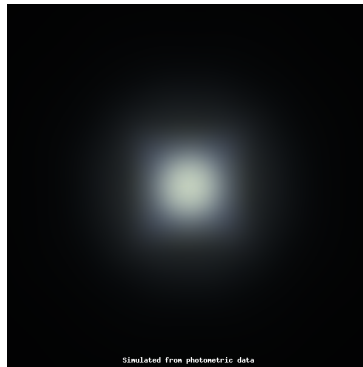
LED SST-20 Gen2
FWHM / FWTM 22.0° / 42.0°
Efficiency 93 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



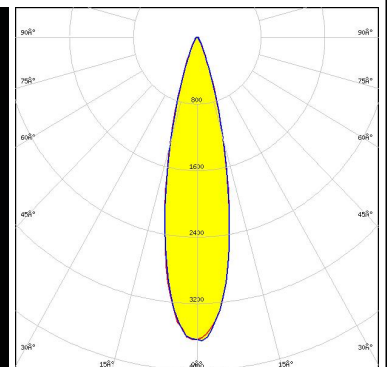
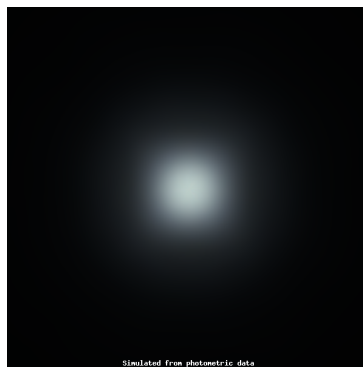
LED SST-20F-W
FWHM / FWTM 26.0° / 50.0°
Efficiency 93 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



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:

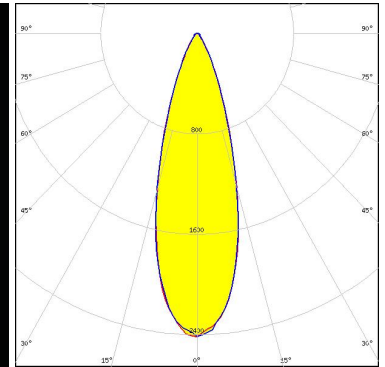


Light distribution files

OPTICAL RESULTS (SIMULATED):



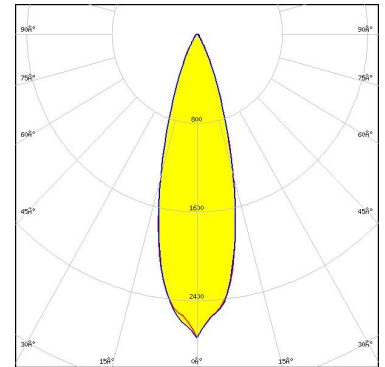
LED SST-36F-W
FWHM / FWTM 32.0° / 58.0°
Efficiency 93 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



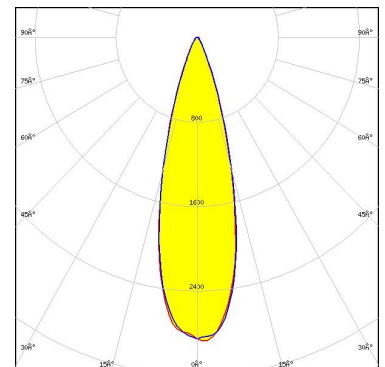
LED NV4WB35AM
FWHM / FWTM 30.0° / 54.0°
Efficiency 93 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



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:



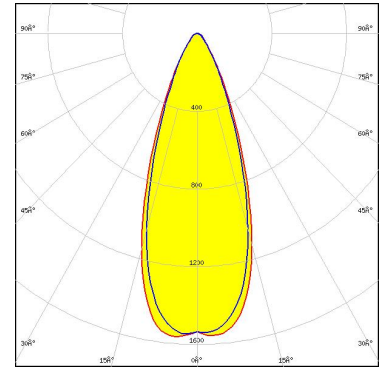
Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

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:

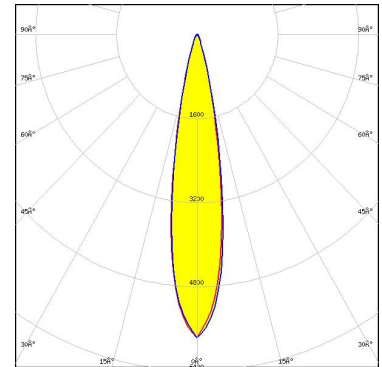
Protective plate, glass



Light distribution files

OSRAM
Opto Semiconductors

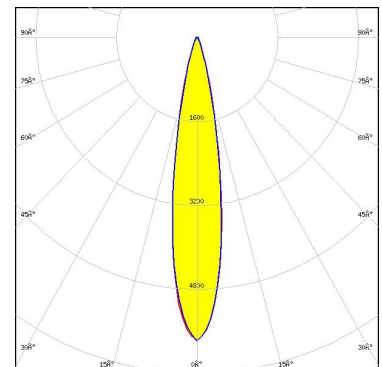
LED OSCONIQ C 2424
 FWHM / FWTM 19.0 + 20.0° / 36.0°
 Efficiency 93 %
 Peak intensity 5.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

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

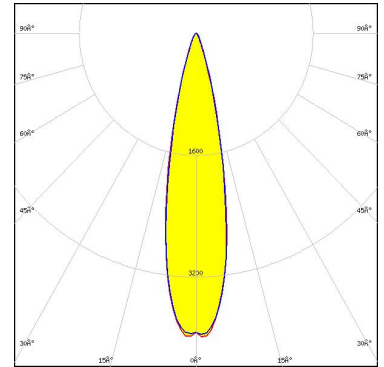
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

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

Protective plate, glass

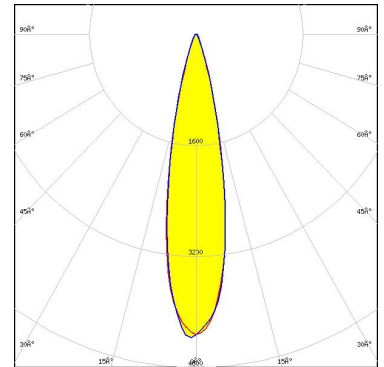
Light distribution files



OSRAM
Opto Semiconductors

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

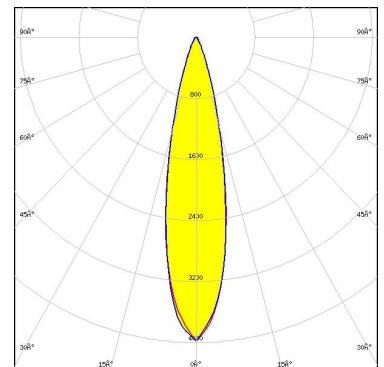
Light distribution files



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:

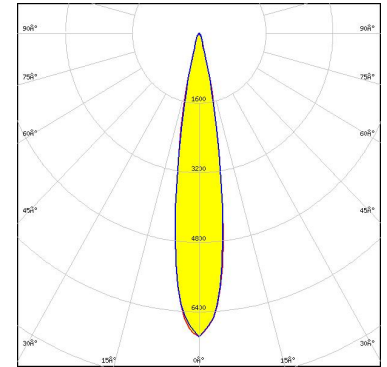
Light distribution files



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSLON 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:

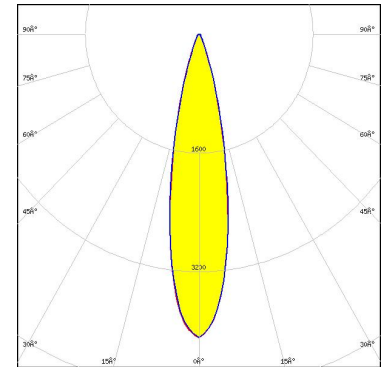


Light distribution files

OSRAM
Opto Semiconductors

LED OSLON 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:

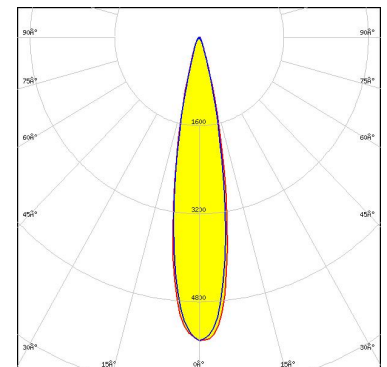
Protective plate, glass



Light distribution files

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:

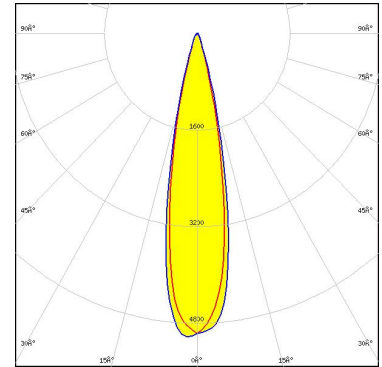


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

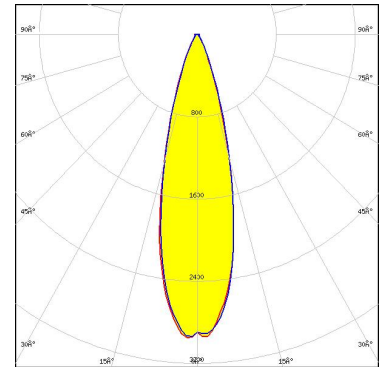
LED OSTAR Projection Compact (KW.CSLNM1.TG)
 FWHM / FWTM 21.0° / 38.0°
 Efficiency 94 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

PHILIPS

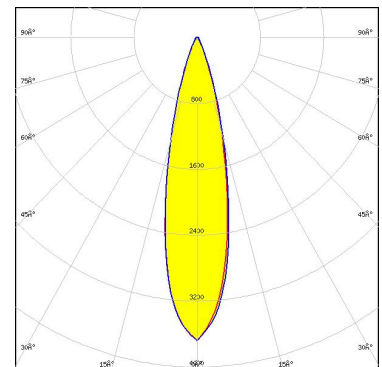
LED Fortimo FastFlex LED 2x8 DAX G4
 FWHM / FWTM 28.0° / 50.0°
 Efficiency 92 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

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:

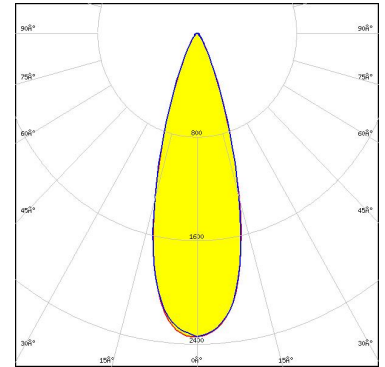


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

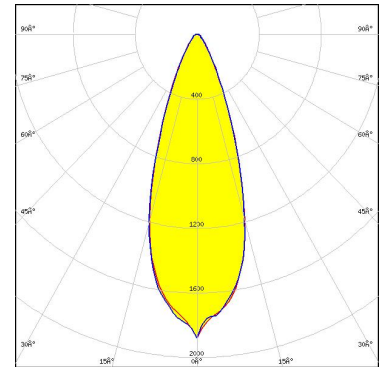
LED LH351C
 FWHM / FWTM 32.0° / 56.0°
 Efficiency 91 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

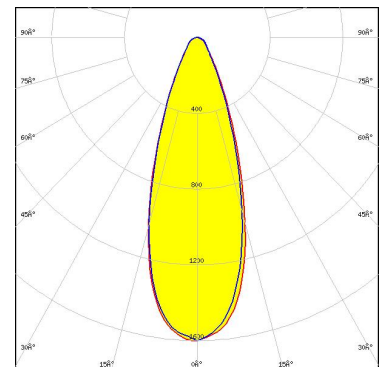
LED LH351D
 FWHM / FWTM 36.0° / 64.0°
 Efficiency 92 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

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

OPTICAL RESULTS (SIMULATED):

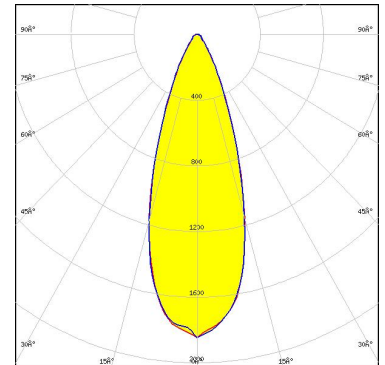
SAMSUNG

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



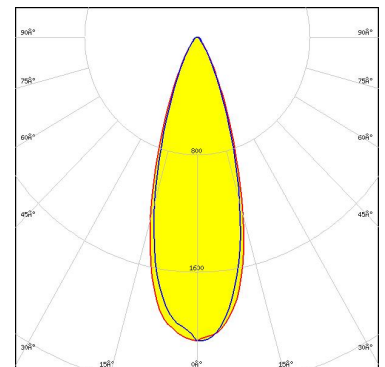
LED	MJT 5050
FWHM / FWTM	36.0° / 66.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

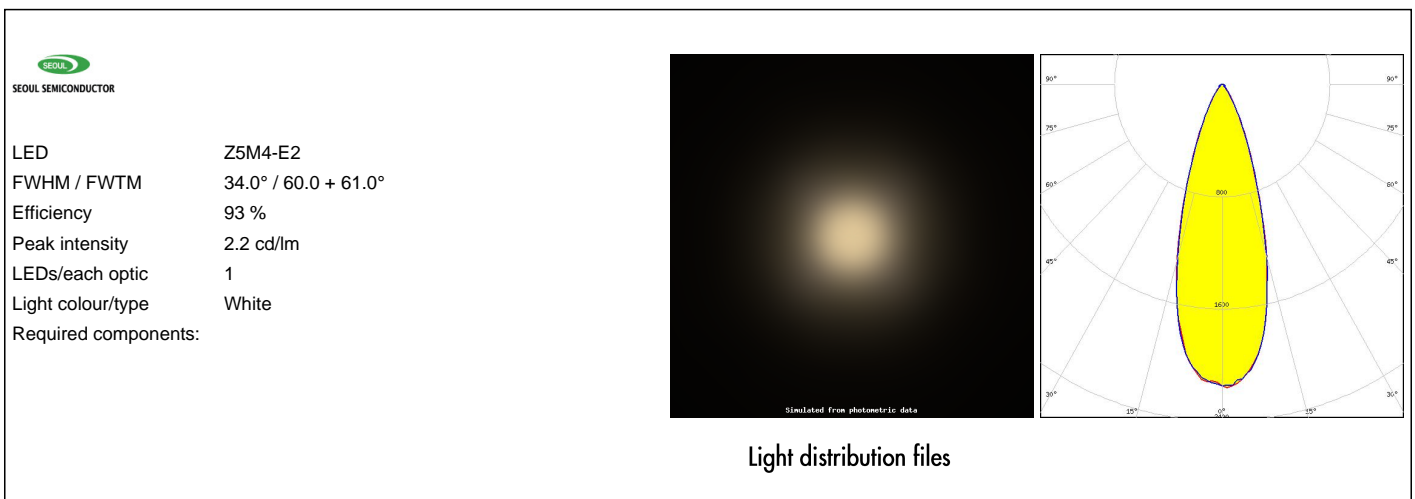
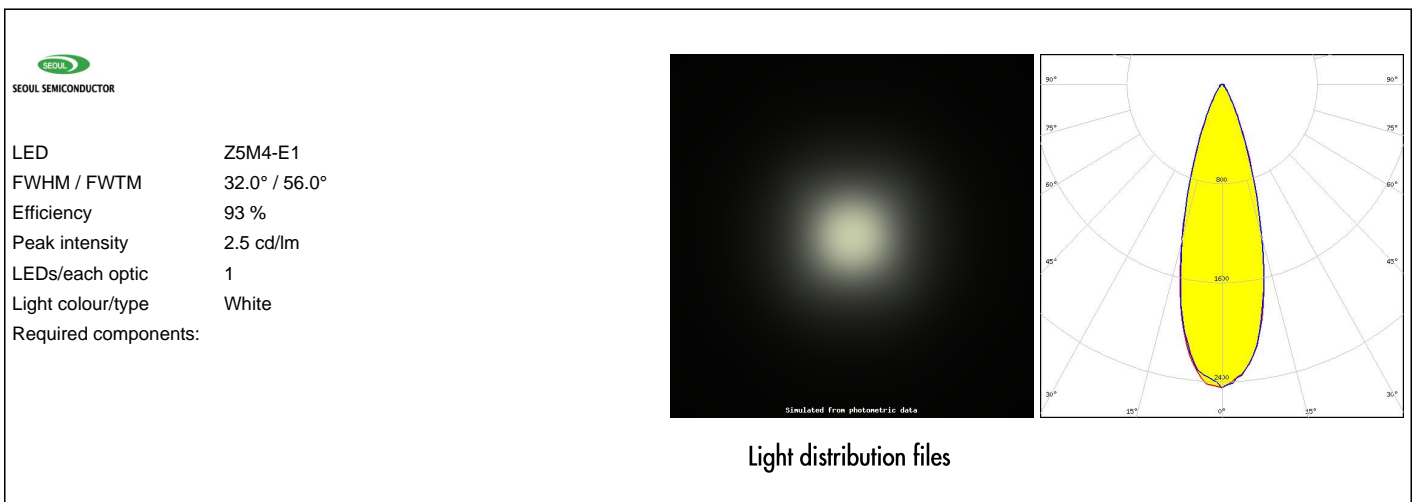
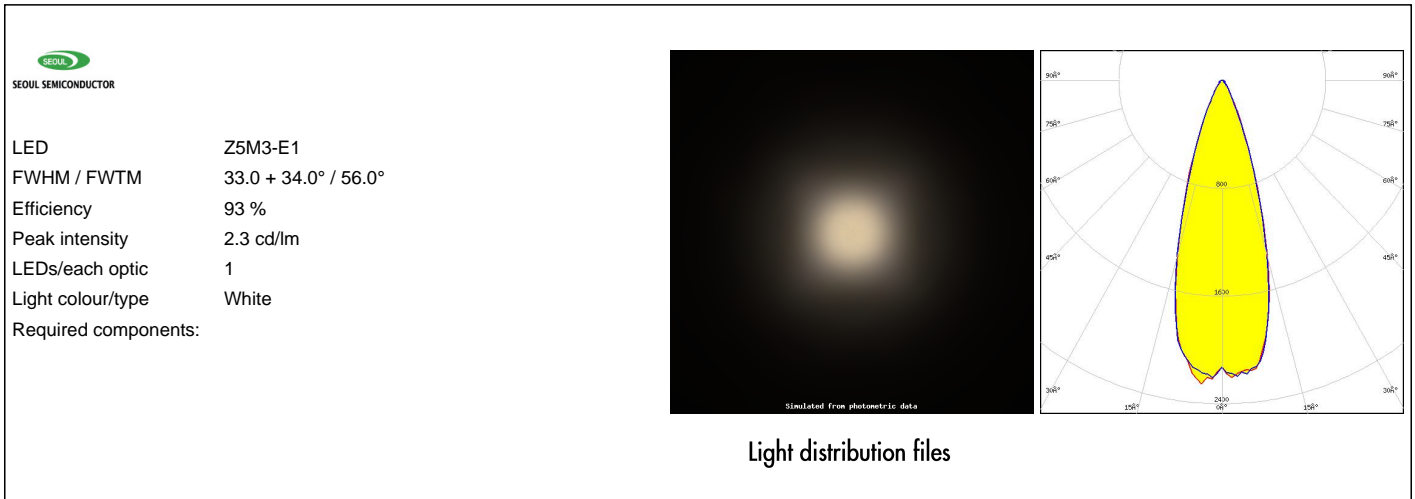


LED	SEOUL DC 5050 6V
FWHM / FWTM	34.0° / 62.0°
Efficiency	94 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

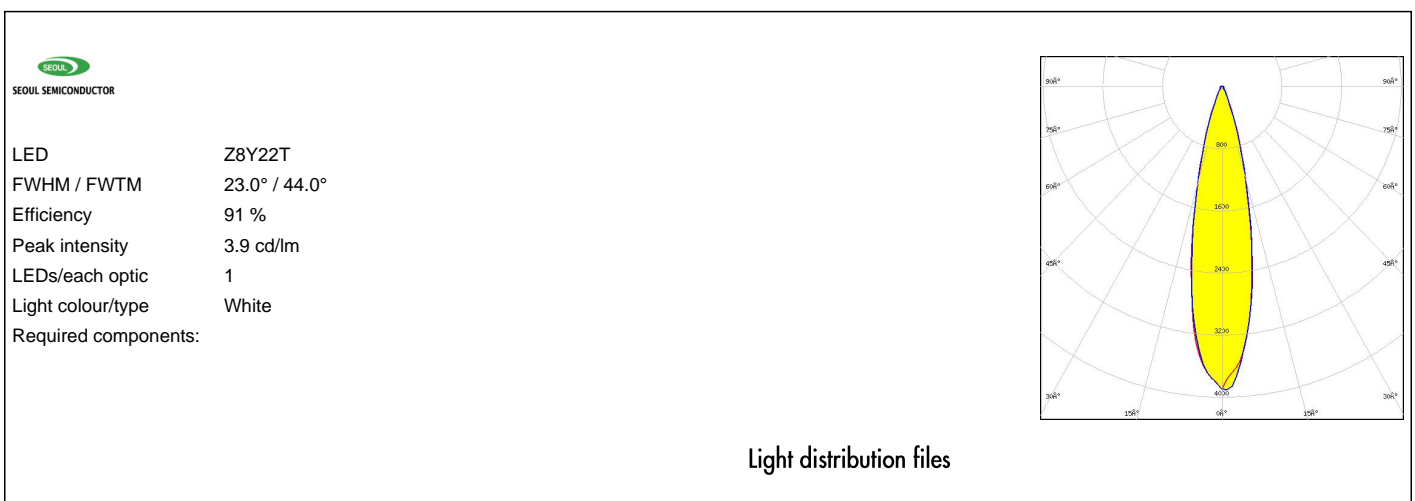
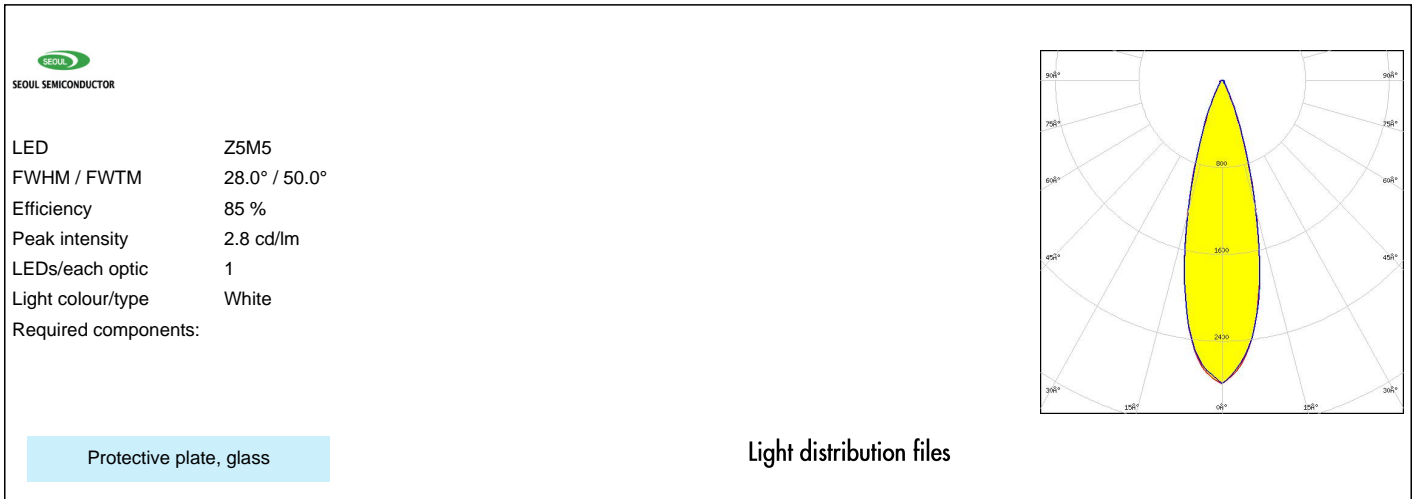


Light distribution files

OPTICAL RESULTS (SIMULATED):



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:

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