

HB-2X2-O

~20° + 115° oval beam for aisle lighting

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	10.6 mm
Fastening	glue, pin, screw
ROHS compliant	yes ⓘ

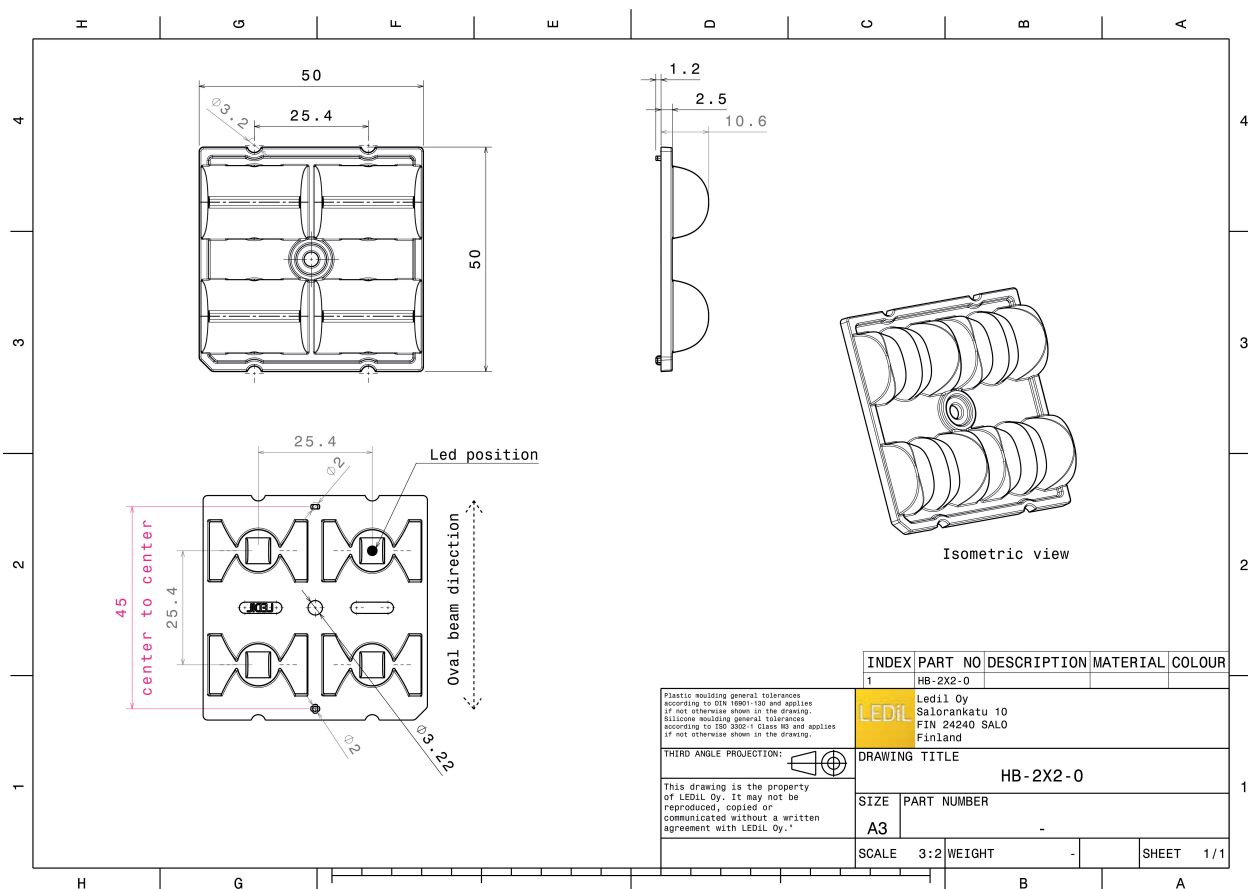
MATERIALS:

Component	Type	Material	Colour	Finish	Length
HB-2X2-O	Multi-lens	PMMA	clear		50.0



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13749_HB-2X2-O » Box size: 480 x 280 x 300 mm	800	160	160	10.4

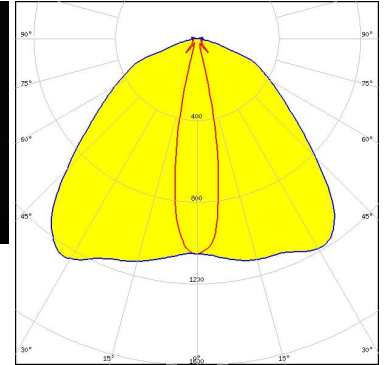
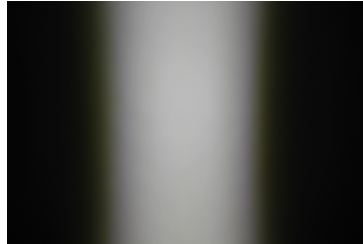


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



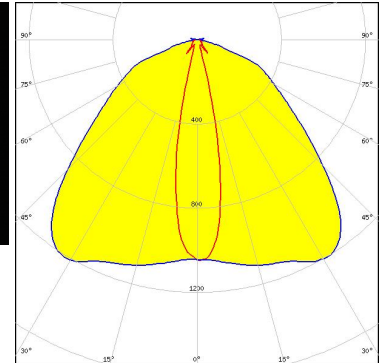
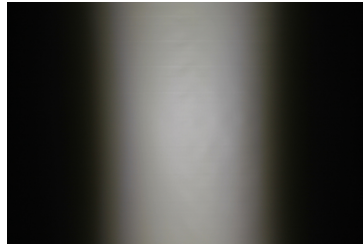
LED QUICK FLUX XTP 2x4 xxx LS G5
FWHM / FWTM 21.0 + 111.0° / 32.0 + 148.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



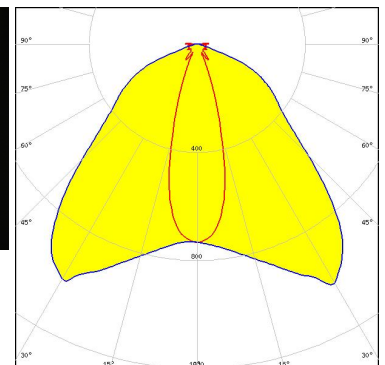
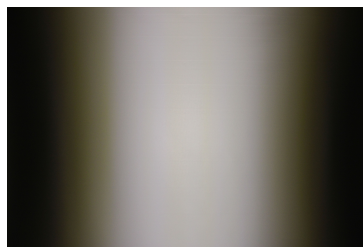
LED QUICK FLUX XTP 2x6 xxx LS G5
FWHM / FWTM 22.0 + 111.0° / 33.0 + 149.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED J Series 5050C 6V E Class
FWHM / FWTM 30.0 + 95.0° / 60.0 + 140.0°
Efficiency 96 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

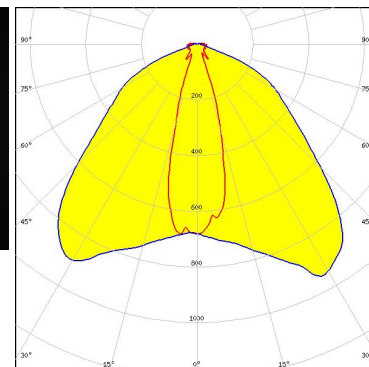
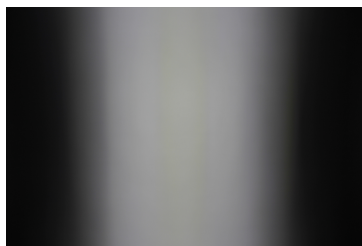


Light distribution files

OPTICAL RESULTS (MEASURED):



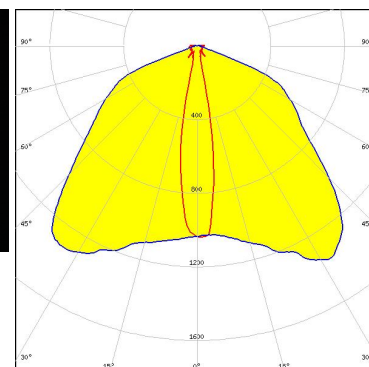
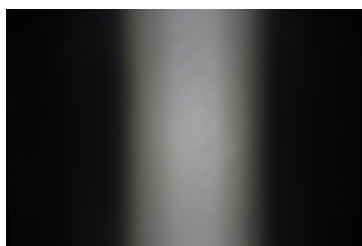
LED XD16
 FWHM / FWTM 29.0 + 116.0° / 44.0 + 141.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 4
 Light colour/type White
 Required components:



Light distribution files



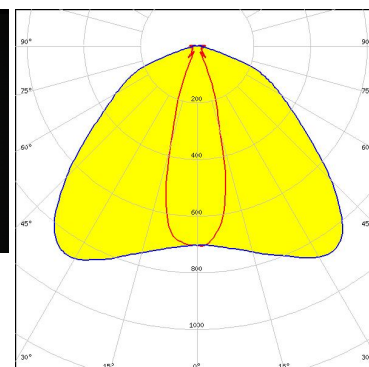
LED XD16
 FWHM / FWTM 19.0 + 127.0° / 28.0 + 141.0°
 Efficiency 93 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XHP35 HD
 FWHM / FWTM 29.0 + 117.0° / 48.0 + 148.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

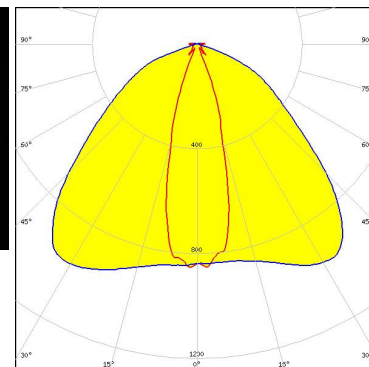
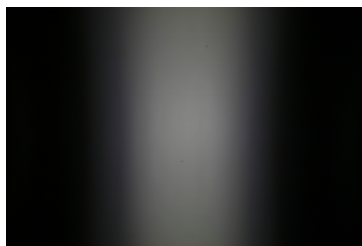


Light distribution files

OPTICAL RESULTS (MEASURED):



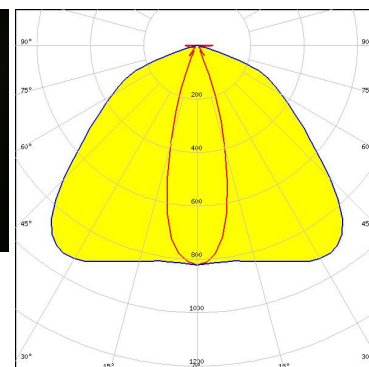
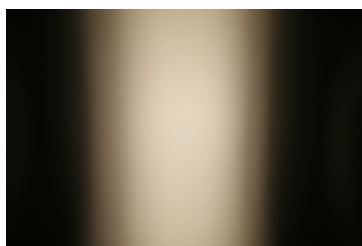
LED XM-L
 FWHM / FWTM 28.0 + 108.0° / 45.0 + 142.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



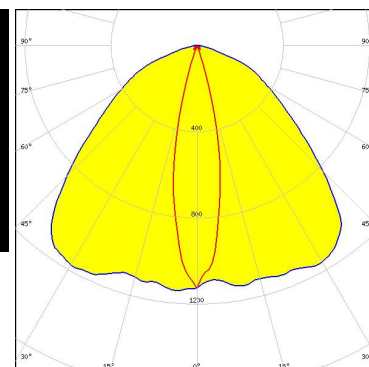
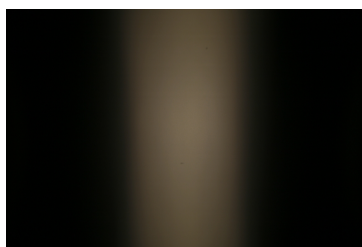
LED XM-L2
 FWHM / FWTM 30.0 + 106.0° / 48.0 + 143.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G
 FWHM / FWTM 26.0 + 115.0° / 44.0 + 158.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

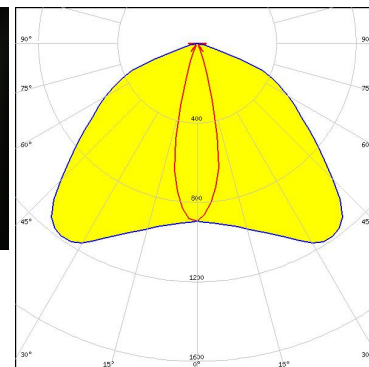
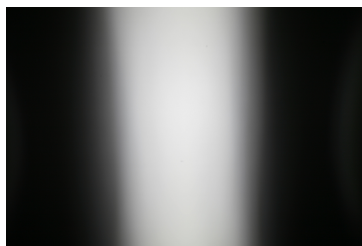


Light distribution files

OPTICAL RESULTS (MEASURED):



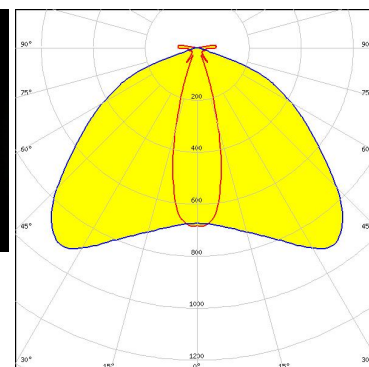
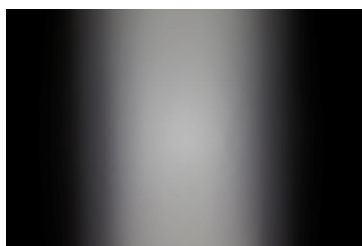
LED XP-G2
 FWHM / FWTM 27.0 + 112.0° / 42.0 + 146.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



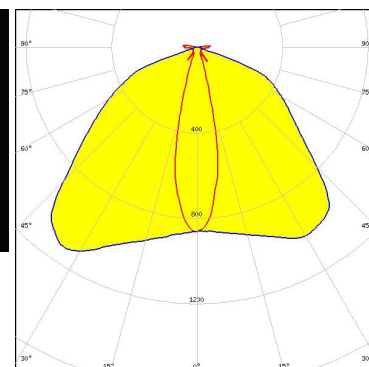
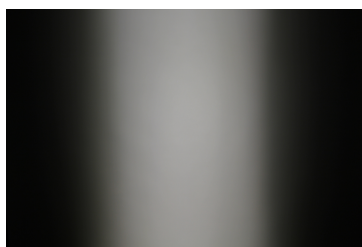
LED XP-L HD
 FWHM / FWTM 29.0 + 117.0° / 48.0 + 144.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-L HI
 FWHM / FWTM 25.0 + 123.0° / 41.0 + 143.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

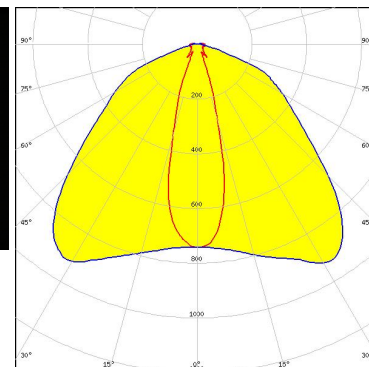


Light distribution files

OPTICAL RESULTS (MEASURED):



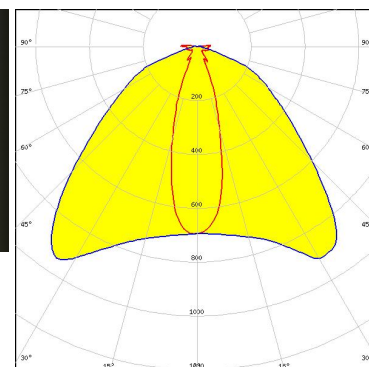
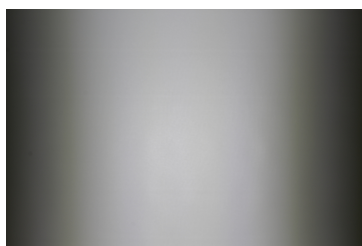
LED XP-L2
 FWHM / FWTM 28.0 + 117.0° / 47.0 + 150.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



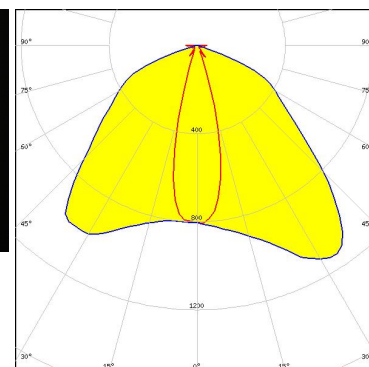
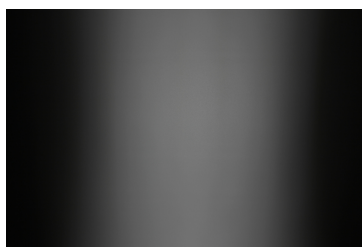
LED LUXEON 5050 Round LES
 FWHM / FWTM 29.0 + 114.0° / 51.0 + 147.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON MZ
 FWHM / FWTM 28.0 + 103.0° / 43.0 + 14.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

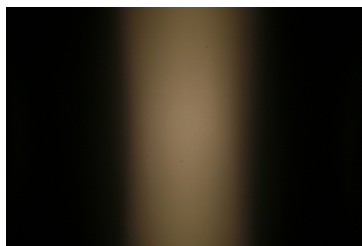


Light distribution files

OPTICAL RESULTS (MEASURED):



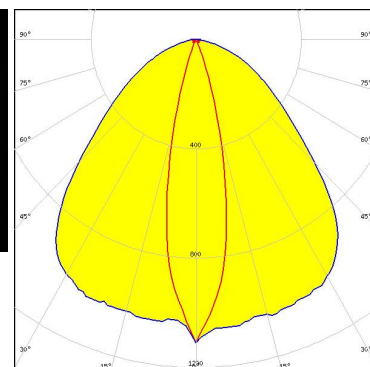
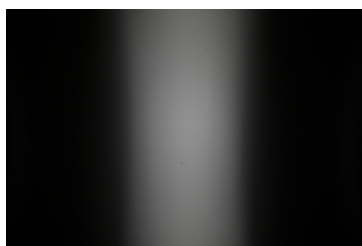
LED LUXEON R
FWHM / FWTM 25.0 + 105.0° / 44.0 + 148.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



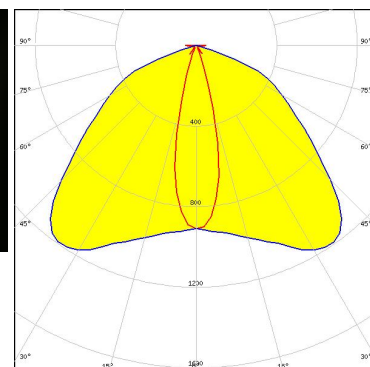
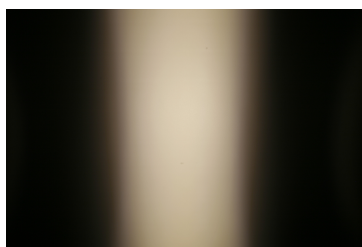
LED LUXEON Rebel ES
FWHM / FWTM 25.0 + 106.0° / 42.0 + 150.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON T
FWHM / FWTM 26.0 + 110.0° / 41.0 + 145.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

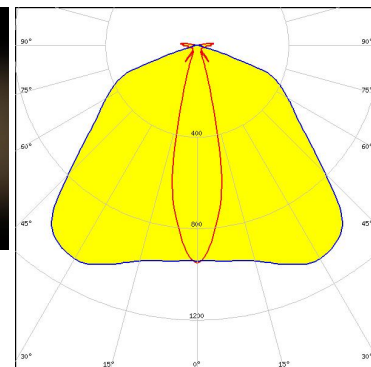
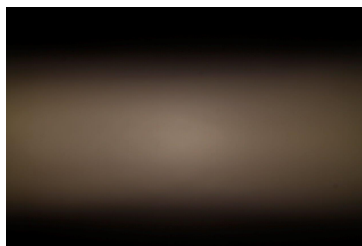


Light distribution files

OPTICAL RESULTS (MEASURED):



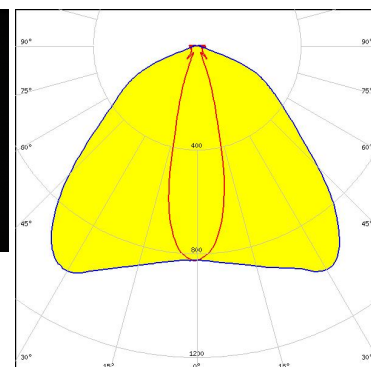
LED LUXEON TX
 FWHM / FWTM 24.0 + 118.0° / 42.0 + 146.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



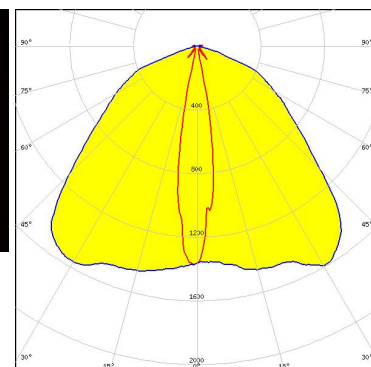
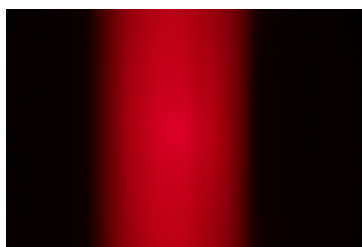
LED LUXEON V
 FWHM / FWTM 26.0 + 108.0° / 44.0 + 141.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-10-B130
 FWHM / FWTM 18.0 + 104.0° / 25.0 + 144.0°
 Efficiency 97 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type Deep Red
 Required components:

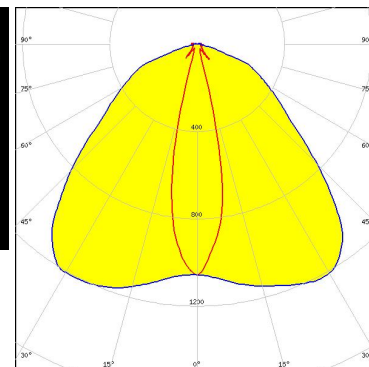
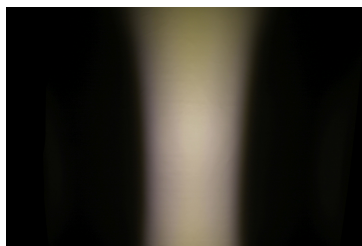


Light distribution files

OPTICAL RESULTS (MEASURED):

MST | Your solutions

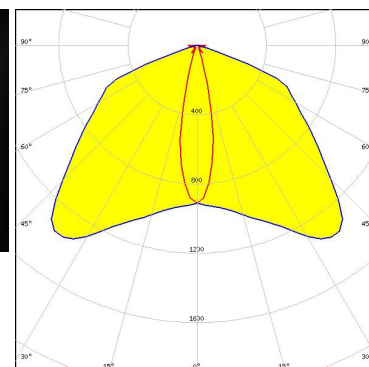
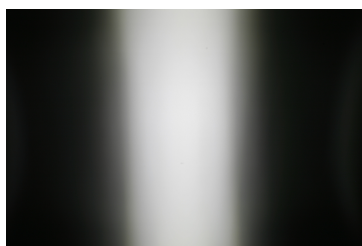
LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
 FWHM / FWTM 23.0 + 99.5° / 32.5 + 145.0°
 Efficiency 97 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

NICHIA

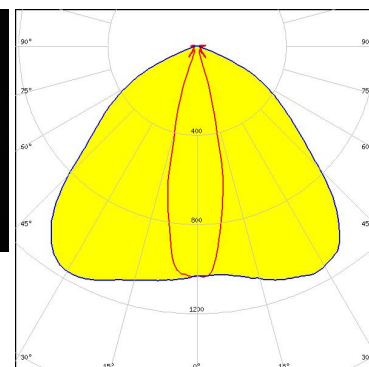
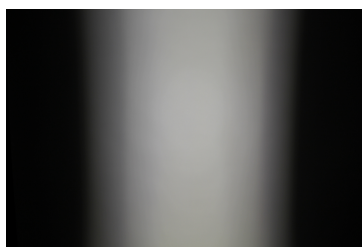
LED NCSxx19B
 FWHM / FWTM 23.0 + 113.0° / 39.0 + 146.0°
 Efficiency 94 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

NICHIA

LED NVSW219D
 FWHM / FWTM 25.0 + 107.0° / 37.0 + 137.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

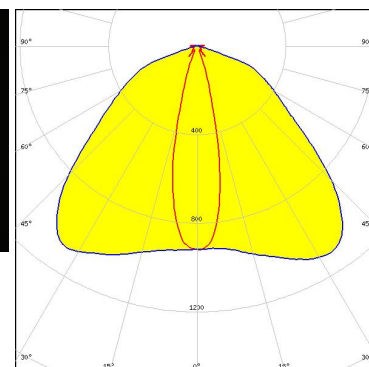
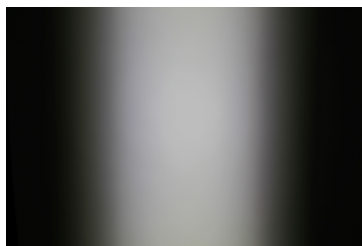


Light distribution files

OPTICAL RESULTS (MEASURED):



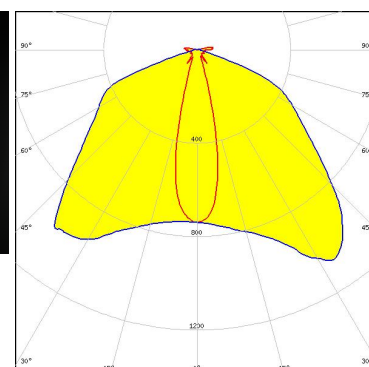
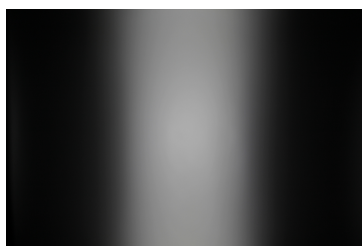
LED NVSW319B
 FWHM / FWTM 25.0 + 113.0° / 41.0 + 144.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



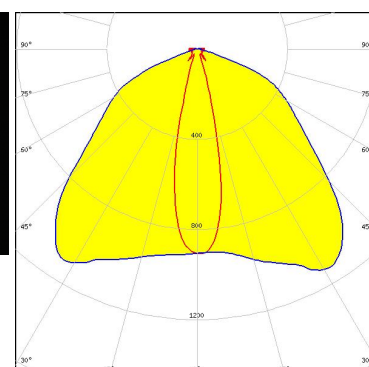
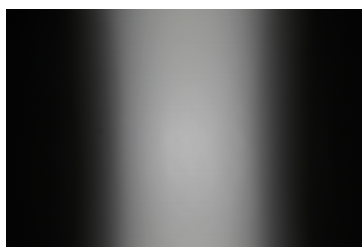
LED NVSW3x9A
 FWHM / FWTM 25.0 + 134.0° / 43.0 + 147.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW3x9A
 FWHM / FWTM 24.0 + 119.0° / 38.0 + 144.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

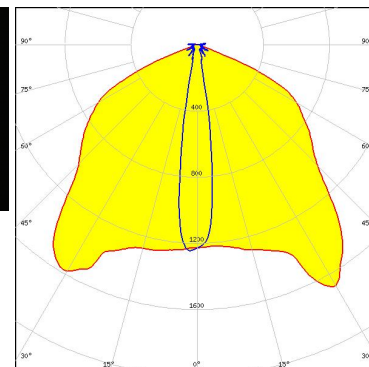
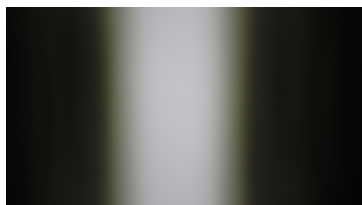


Light distribution files

OPTICAL RESULTS (MEASURED):



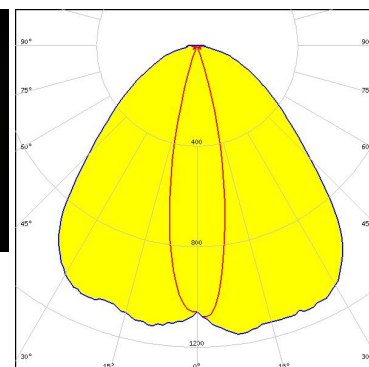
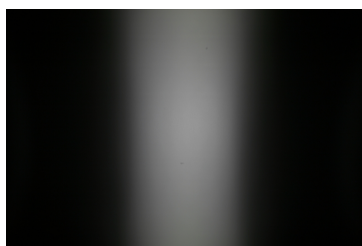
LED NVSxE21A
 FWHM / FWTM 17.0 + 125.0° / 27.0 + 139.0°
 Efficiency 94 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



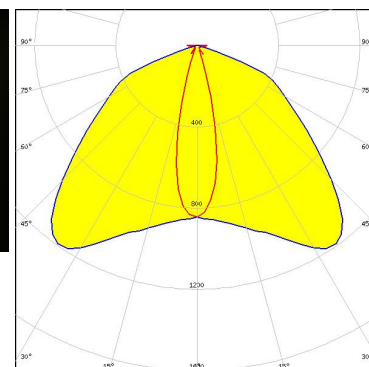
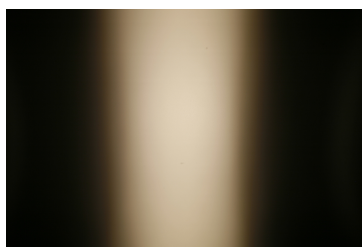
LED NVSxx19A
 FWHM / FWTM 24.0 + 105.0° / 44.0 + 148.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSxx19B/NVSxx19C
 FWHM / FWTM 26.0 + 108.0° / 41.0 + 145.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

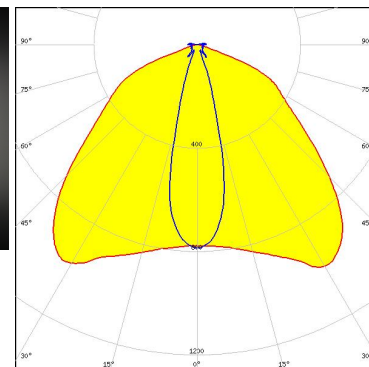
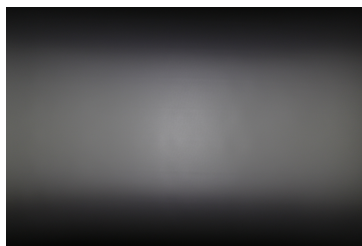


Light distribution files

OPTICAL RESULTS (MEASURED):



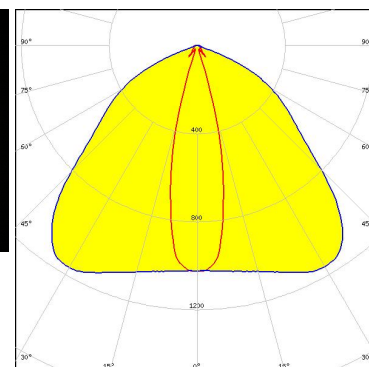
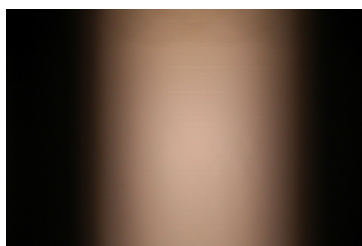
LED NWSx229A
 FWHM / FWTM 27.0 + 118.0° / 43.0 + 143.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM

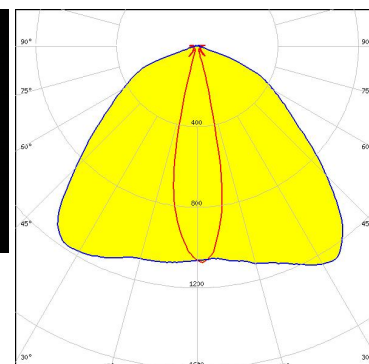
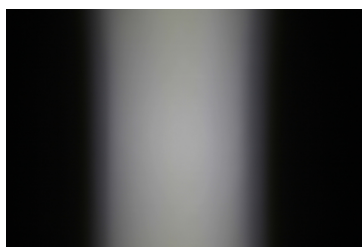
LED PL-BRICK HP 3800 2x8 SSG
 FWHM / FWTM 26.0 + 102.0° / 37.0 + 139.0°
 Efficiency 97 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM

LED PrevaLED Brick HP 2x8
 FWHM / FWTM 23.0 + 111.0° / 32.0 + 141.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

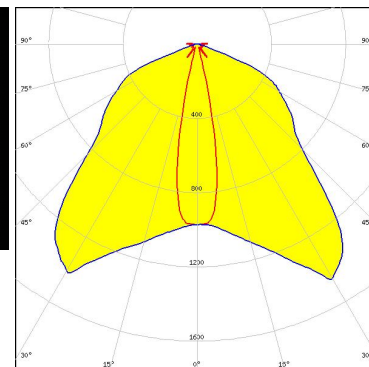
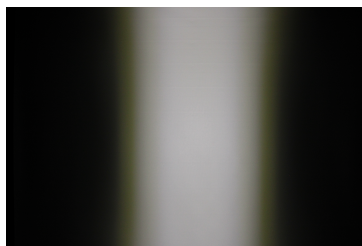


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

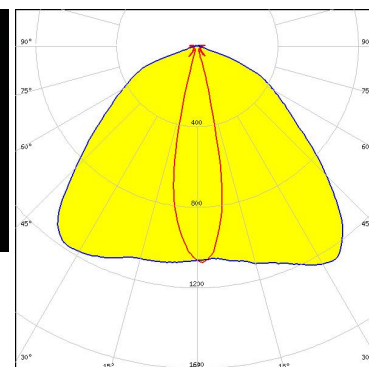
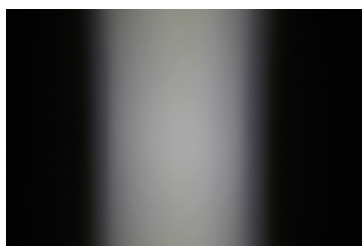
LED OSCONIQ C 3030
FWHM / FWTM 22.0 + 95.0° / 32.0 + 140.0°
Efficiency 96 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

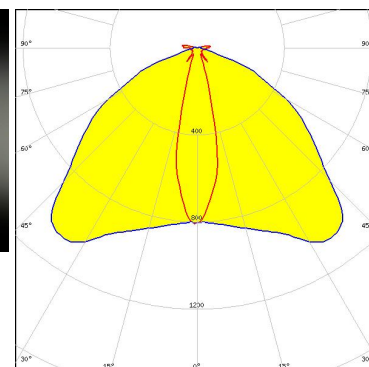
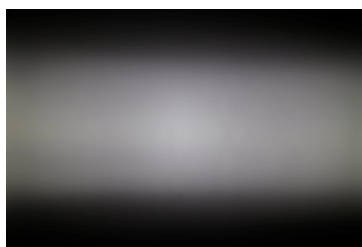
LED OSLOM Square CSSRM2/CSSRM3
FWHM / FWTM 23.0 + 111.0° / 32.0 + 141.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLOM Square PC
FWHM / FWTM 25.0 + 124.0° / 42.0 + 145.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

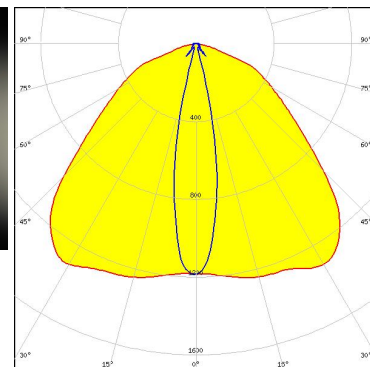
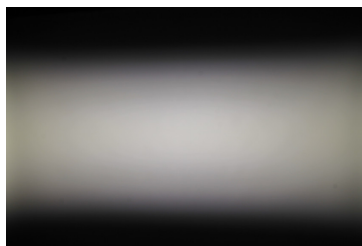


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

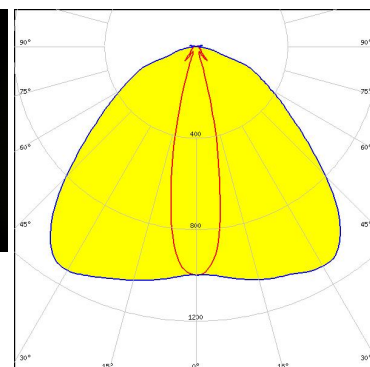
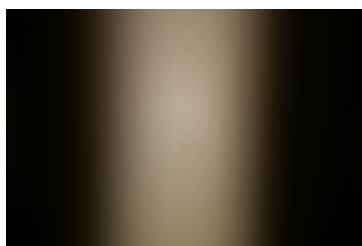
LED	Fortimo FastFlex LED 2x8 DA G4
FWHM / FWTM	21.0 + 108.0° / 31.0 + 147.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

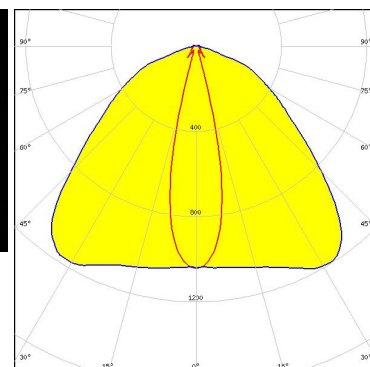
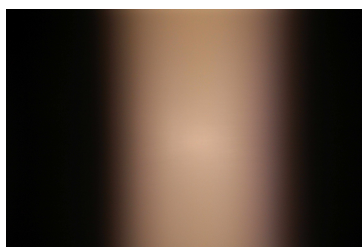
LED	Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM	24.0 + 104.0° / 37.0 + 145.0°
Efficiency	97 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G5
FWHM / FWTM	24.0 + 103.0° / 34.0 + 144.0°
Efficiency	97 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

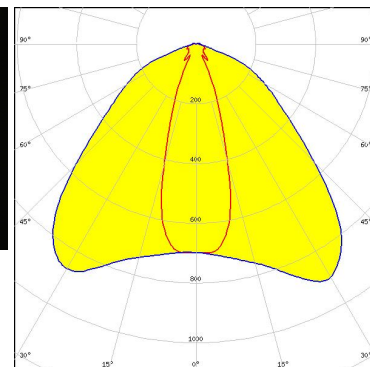
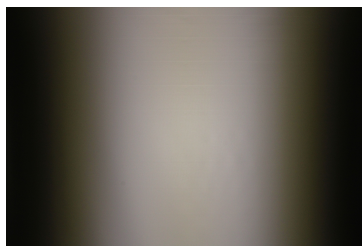


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

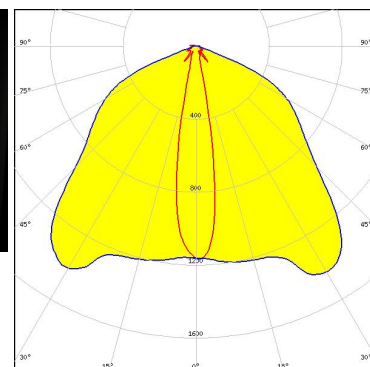
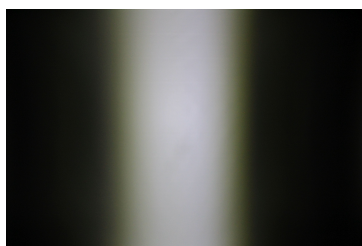
LED	Fortimo FastFlex LED 2x8 DA HE
FWHM / FWTM	32.0 + 98.0° / 51.0 + 142.0°
Efficiency	98 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

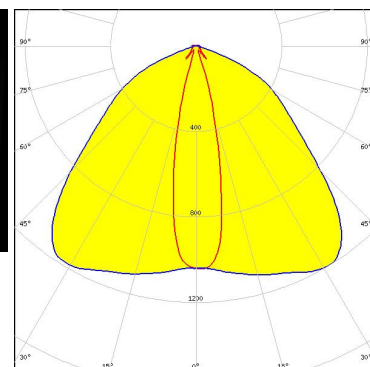
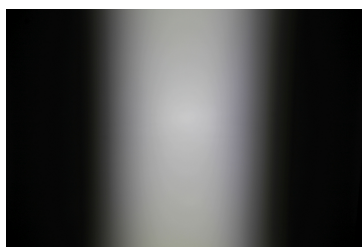
LED	HiLOM RC12 Z (LH181B)
FWHM / FWTM	19.0 + 106.0° / 31.0 + 140.0°
Efficiency	98 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	HiLOM RH12 Z (LH351C)
FWHM / FWTM	23.0 + 102.0° / 36.0 + 139.0°
Efficiency	97 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

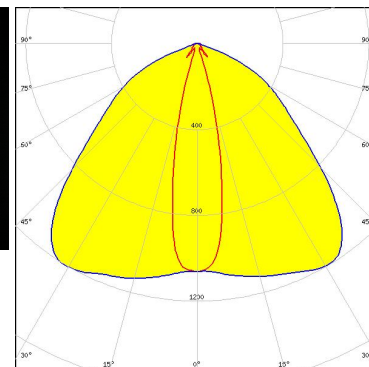
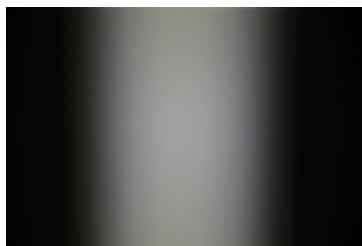


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

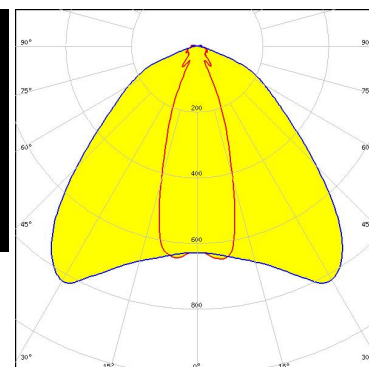
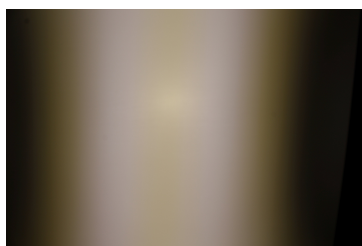
LED HiLOM RH16 (LH351C)
 FWHM / FWTM 23.0 + 106.0° / 36.0 + 140.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

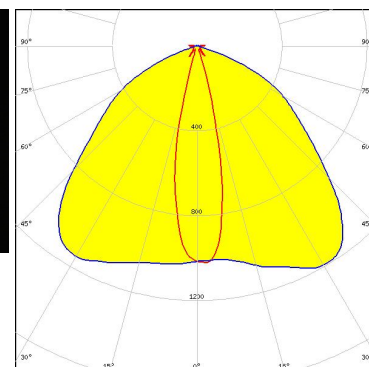
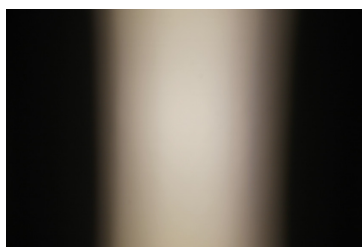
LED HiLOM RM12 Z (LH502C)
 FWHM / FWTM 35.0 + 98.0° / 76.0 + 141.0°
 Efficiency 96 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LH351B
 FWHM / FWTM 23.0 + 113.0° / 35.0 + 141.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

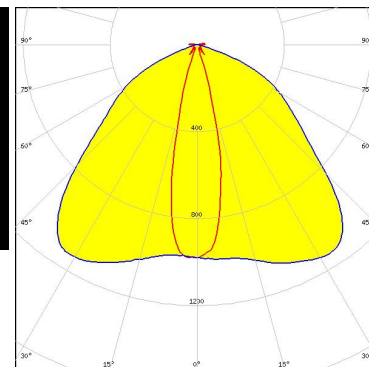
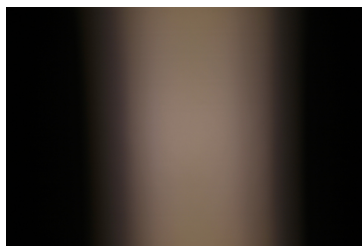


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

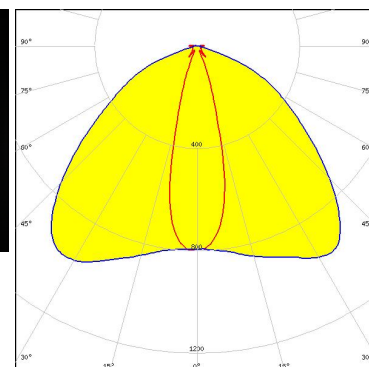
LED LH351C
FWHM / FWTM 24.0 + 111.0° / 37.0 + 141.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

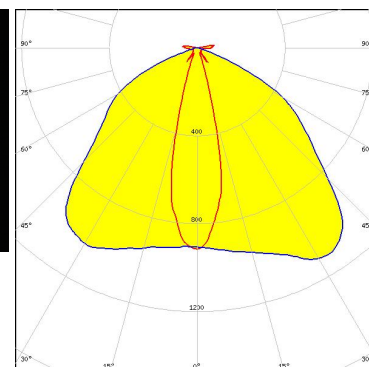
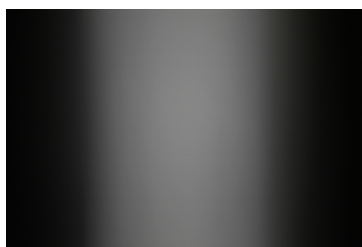
LED LH351D
FWHM / FWTM 27.0 + 116.0° / 44.0 + 144.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351Z
FWHM / FWTM 26.0 + 117.0° / 42.0 + 141.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

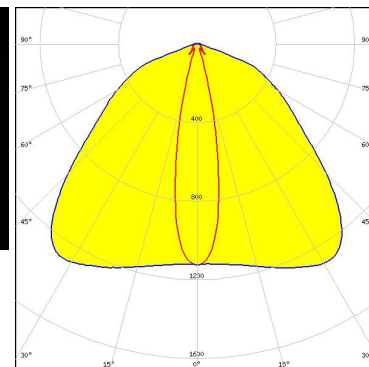
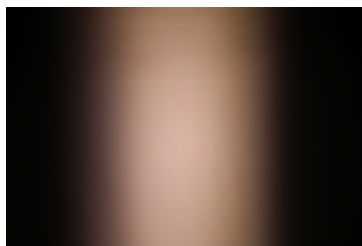


Light distribution files

OPTICAL RESULTS (MEASURED):



LED LED-Pa-L15c2W11c2-xxx-C050-01
 FWHM / FWTM 22.0 + 105.0° / 36.0 + 142.0°
 Efficiency 98 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

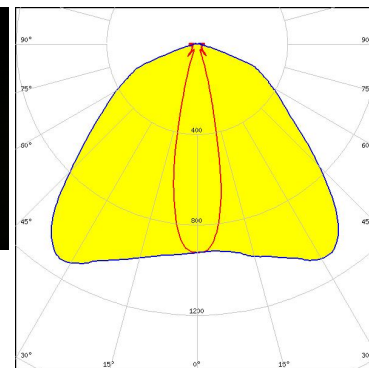
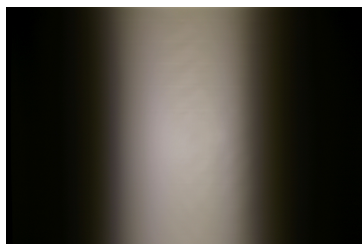


Light distribution files



SEOL SEMICONDUCTOR

LED Z5M3
 FWHM / FWTM 23.0 + 113.0° / 39.0 + 146.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

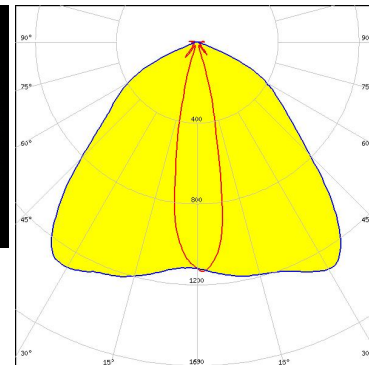
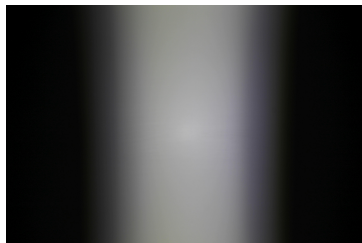


Light distribution files



SEOL SEMICONDUCTOR

LED Z5M4
 FWHM / FWTM 22.0 + 97.0° / 35.0 + 135.0°
 Efficiency 98 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

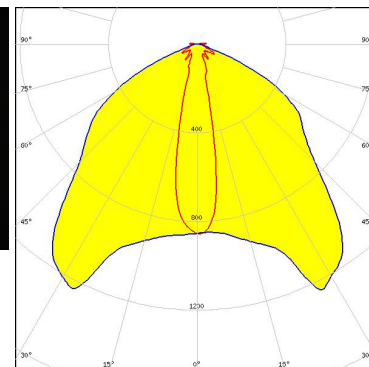
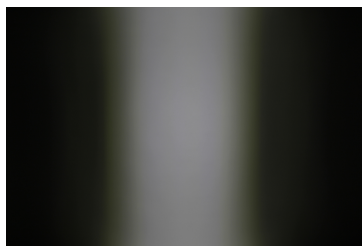


Light distribution files

OPTICAL RESULTS (MEASURED):



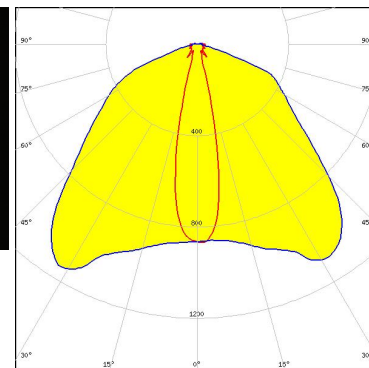
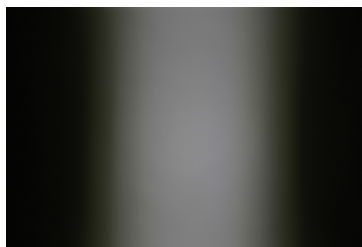
LED Z8Y22
 FWHM / FWTM 21.0 + 121.0° / 99.0 + 140.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



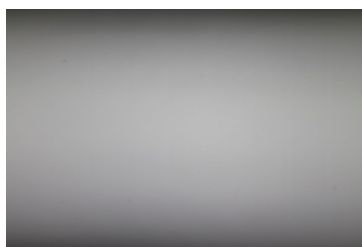
LED Z8Y22P
 FWHM / FWTM 23.0 + 121.0° / 34.0 + 150.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED TL1L4
 FWHM / FWTM 24.0 + 119.0° / 39.0 + 140.0°
 Efficiency 89 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):

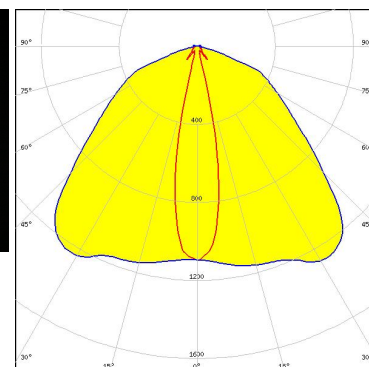
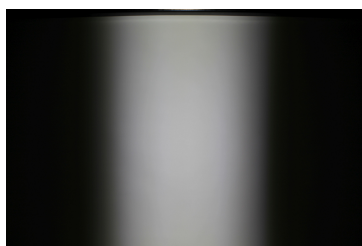
TRIDONIC

LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM	22.0 + 113.0° / 30.0 + 149.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

TRIDONIC

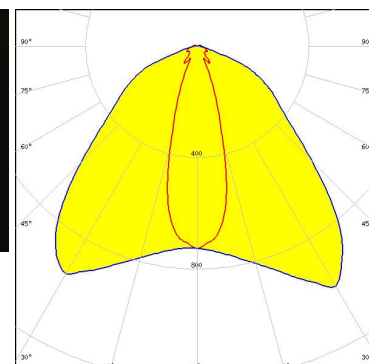
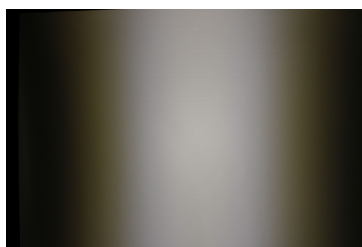
LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM	22.0 + 113.0° / 30.0 + 149.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

TRIDONIC

LED	RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM	30.0 + 96.0° / 76.0 + 141.0°
Efficiency	97 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

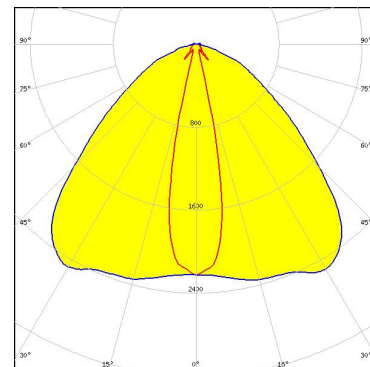


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

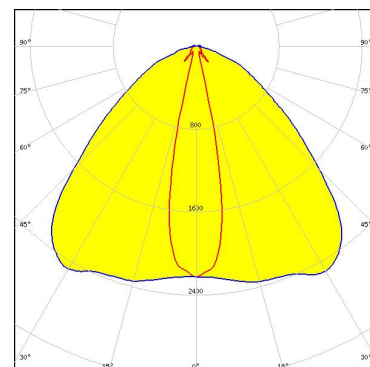
LED RLE G1 49x121mm 2000lm xxx EXC OTD
 FWHM / FWTM 23.0 + 104.0° / 31.0 + 144.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

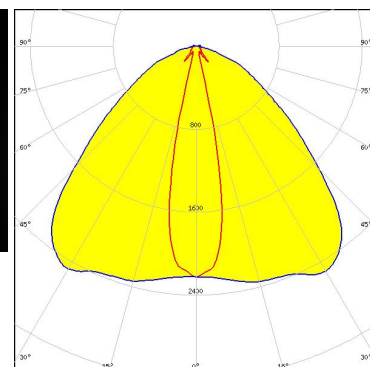
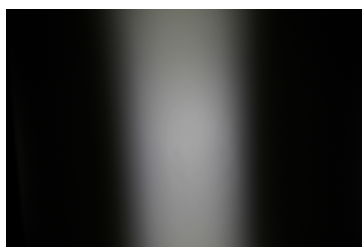
LED RLE G1 49x133mm 2000lm xxx EXC OTD
 FWHM / FWTM 23.0 + 104.0° / 31.0 + 144.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD
 FWHM / FWTM 23.0 + 104.0° / 31.0 + 144.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

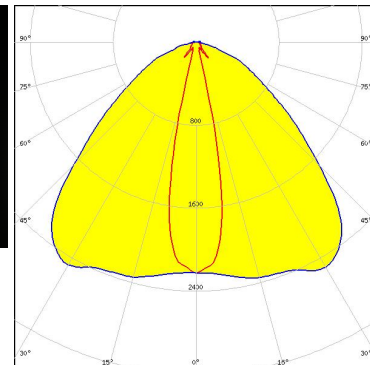
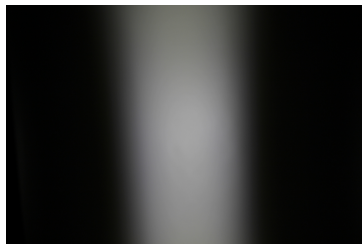


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM / FWTM	23.0 + 104.0° / 31.0 + 144.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

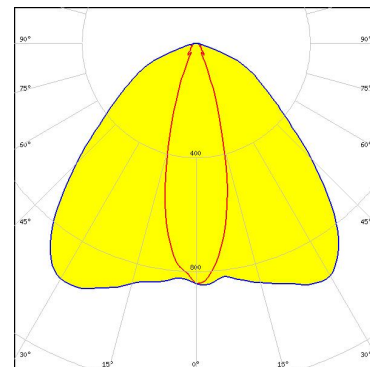


Light distribution files

OPTICAL RESULTS (SIMULATED):



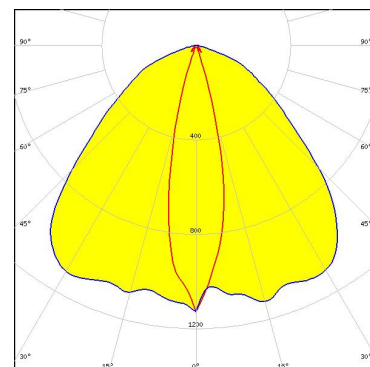
LED J Series 5050 Round LES
FWHM / FWTM 30.0 + 97.0° / 51.0 + 141.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



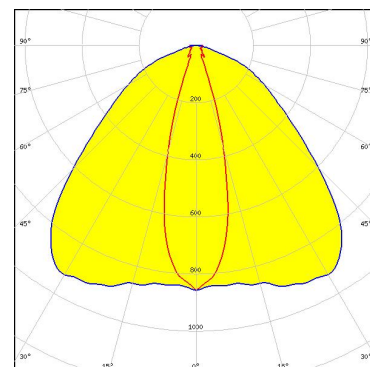
LED XHP35 HI
FWHM / FWTM 101.0 + 27.0° / 145.0 + 44.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XHP50.3 HI
FWHM / FWTM 28.0 + 100.0° / 44.0 + 144.0°
Efficiency 95 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

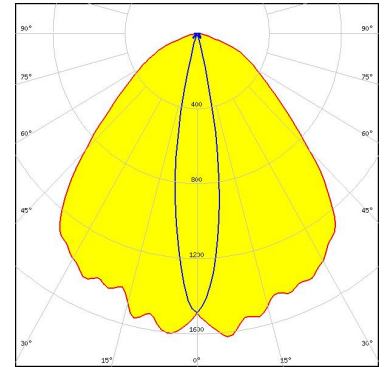


Light distribution files

OPTICAL RESULTS (SIMULATED):



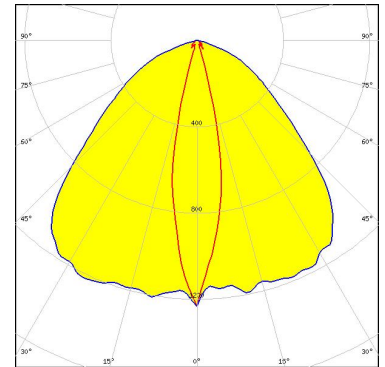
LED XP-E2
 FWHM / FWTM 93.0 + 18.0° / 141.0 + 30.0°
 Efficiency 94 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G2
 FWHM / FWTM 21.0 + 98.0° / 33.0 + 141.0°
 Efficiency 91 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

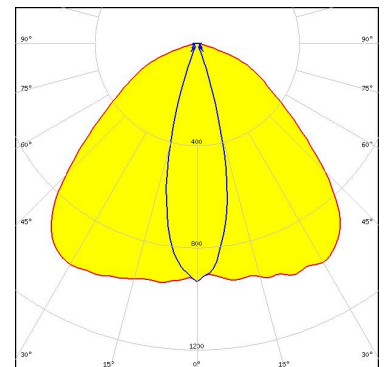


Light distribution files

Protective plate, glass



LED XP-G2 HE
 FWHM / FWTM 28.0 + 103.0° / 41.0 + 144.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

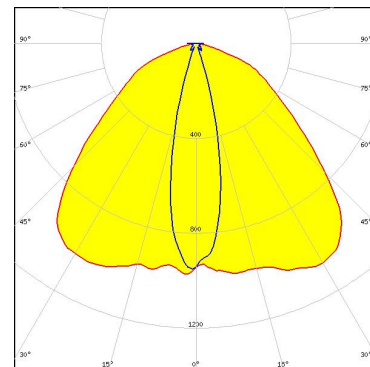


Light distribution files

OPTICAL RESULTS (SIMULATED):



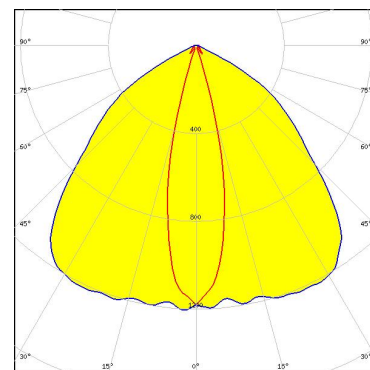
LED XP-G3
FWHM / FWTM 103.0 + 29.0° / 146.0 + 49.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



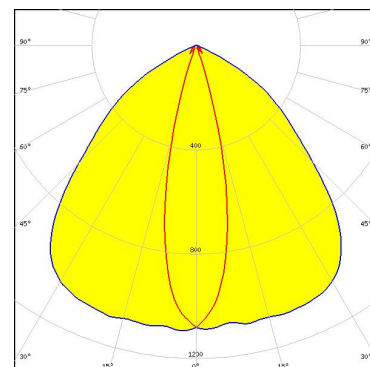
LED XP-G4
FWHM / FWTM 24.0 + 100.0° / 36.0 + 128.0°
Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G4
FWHM / FWTM 24.0 + 95.0° / 36.0 + 127.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Protective plate, glass

Light distribution files

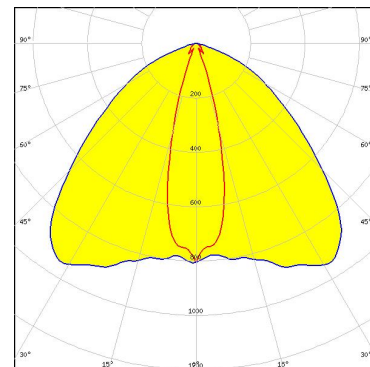
OPTICAL RESULTS (SIMULATED):



LED XP-L HD
 FWHM / FWTM 26.0 + 103.0° / 42.0 + 140.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

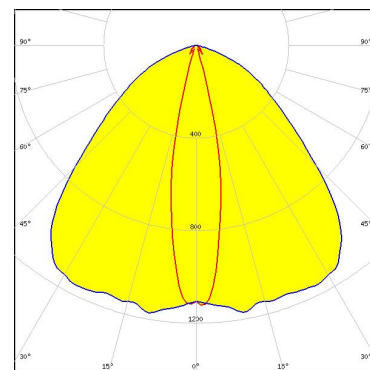
Light distribution files



LED XP-L HI
 FWHM / FWTM 22.0 + 98.0° / 34.0 + 140.0°
 Efficiency 88 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

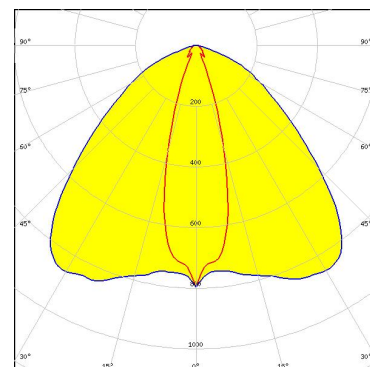
Light distribution files



LED XP-L2
 FWHM / FWTM 28.0 + 100.0° / 46.0 + 140.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

Light distribution files



OPTICAL RESULTS (SIMULATED):

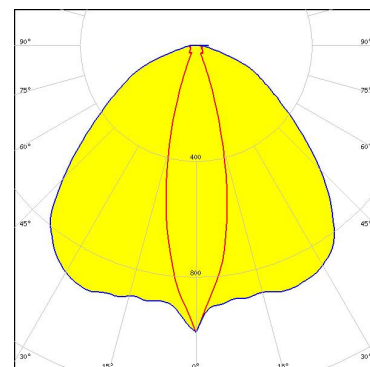


LED XQ-E HI
 FWHM / FWTM 96.0 + 14.0° / 144.0 + 25.0°
 Efficiency %
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



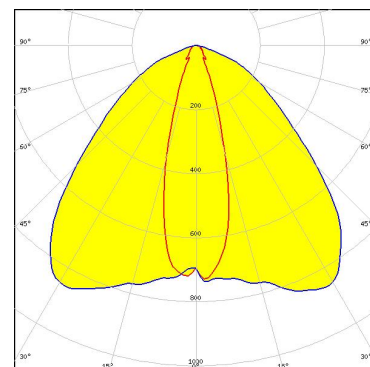
LED XT-E HE
 FWHM / FWTM 100.0 + 24.0°
 Efficiency 94 %
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 5050 HE
 FWHM / FWTM 30.0 + 98.0° / 52.0 + 140.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Protective plate, glass

Light distribution files

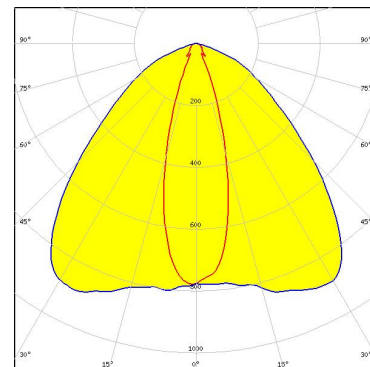
OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Round LES
 FWHM / FWTM 30.0 + 96.0° / 48.0 + 140.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

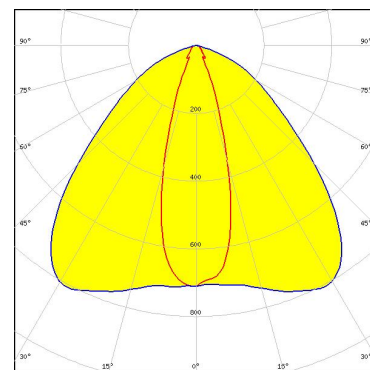
Light distribution files



LED LUXEON 5050 Square LES
 FWHM / FWTM 30.0 + 96.0° / 52.0 + 140.0°
 Efficiency 84 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

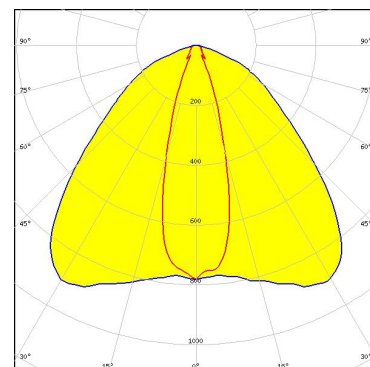
Protective plate, glass

Light distribution files



LED LUXEON 5050 Square LES
 FWHM / FWTM 30.0 + 98.0° / 50.0 + 142.0°
 Efficiency 95 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



OPTICAL RESULTS (SIMULATED):



LED LUXEON IR Domed 150 (L1I0-0xxx1500000000)

FWHM / FWTM 16.0 + 98.0° / 28.0 + 149.0°

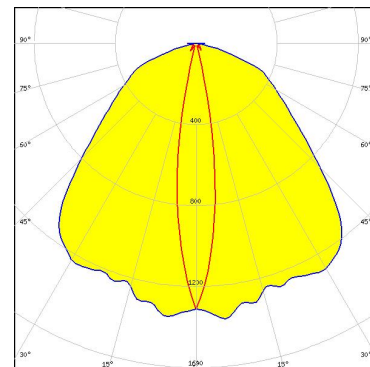
Efficiency 94 %

Peak intensity 1.4 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files



LED LUXEON IR Domed 90 (L1I0-0xxx0900000000)

FWHM / FWTM 20.0 + 86.0° / 29.0 + 128.0°

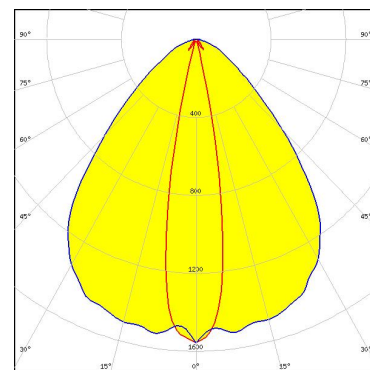
Efficiency 95 %

Peak intensity 1.6 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 28.0 + 100.0° / 42.0 + 138.0°

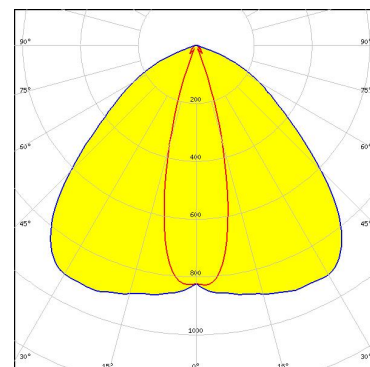
Efficiency 86 %

Peak intensity 0.9 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



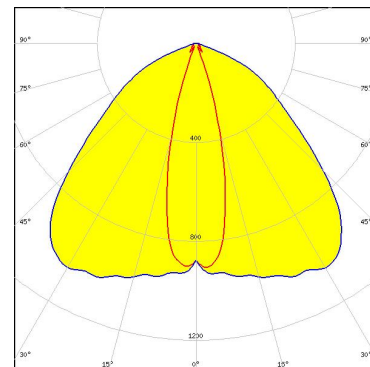
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



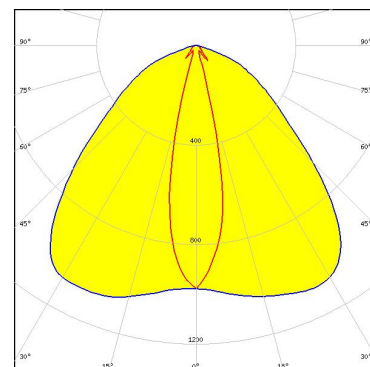
LED LUXEON XR-HL2X (L2H2-xxxxxxMLU010)
 FWHM / FWTM 28.0 + 102.0° / 42.0 + 140.0°
 Efficiency 96 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
 FWHM / FWTM 24.0 + 97.0° / 34.0 + 141.0°
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

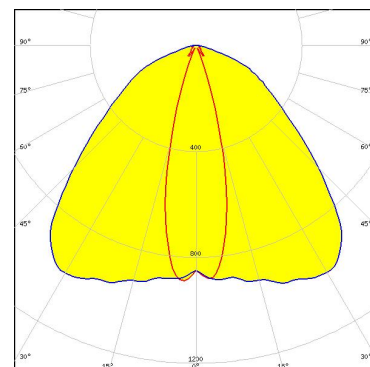


Protective plate, glass

Light distribution files



LED NV4WB35AM
 FWHM / FWTM 28.0 + 100.0° / 42.0 + 144.0°
 Efficiency 95 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

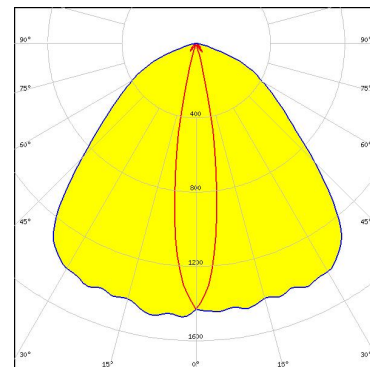


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

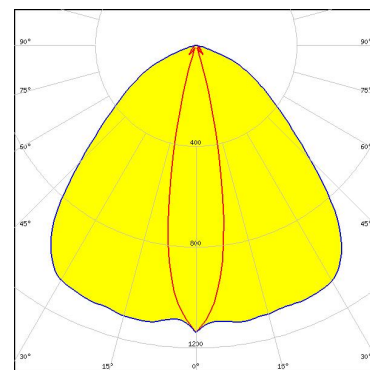
LED OSCONIQ C 2424
FWHM / FWTM 18.0 + 96.0° / 30.0 + 141.0°
Efficiency 96 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 21.0 + 94.0° / 34.0 + 138.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

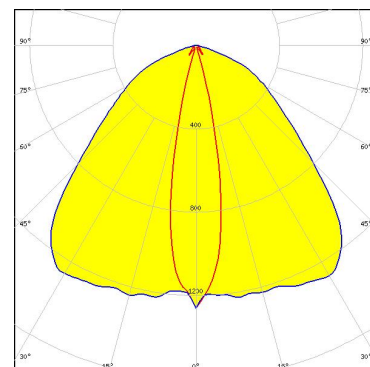


Light distribution files

Protective plate, glass

OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 20.0 + 98.0° / 32.0 + 142.0°
Efficiency 96 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

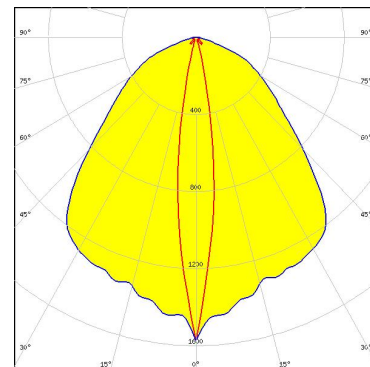


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

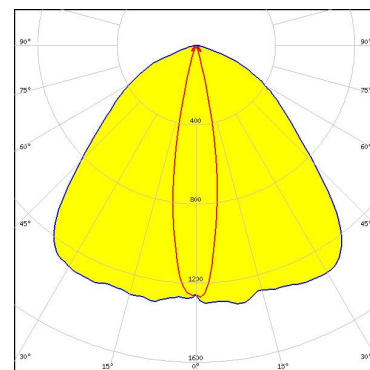
LED OSCONIQ P 3030
FWHM / FWTM 14.0 + 92.0° / 28.0 + 142.0°
Efficiency 95 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

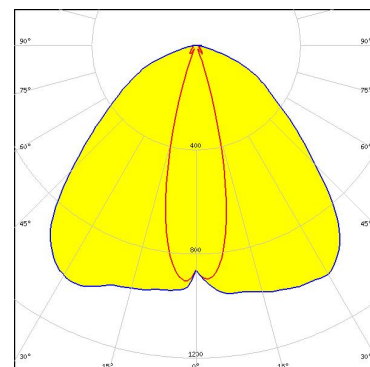
LED OSCONIQ P 3737 (2W version)
FWHM / FWTM 99.0 + 19.0° / 142.0 + 31.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 100.0 + 30.0° / 144.0 + 51.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

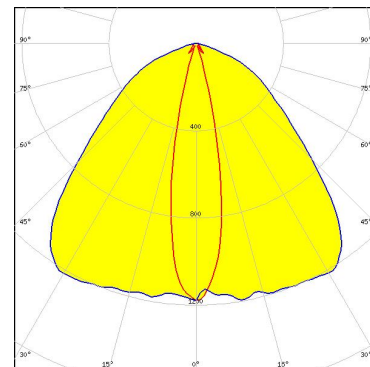


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

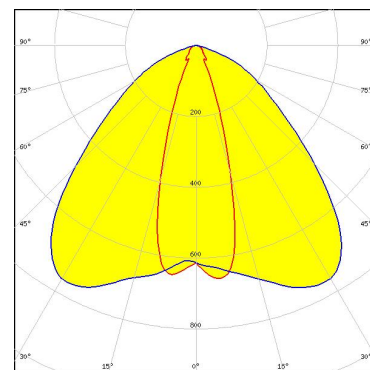
LED OSCONIQ P 3737 Flat
FWHM / FWTM 22.0 + 98.0° / 35.0 + 142.0°
Efficiency 96 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ S 5050
FWHM / FWTM 32.0 + 98.0° / 53.0 + 140.0°
Efficiency 85 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

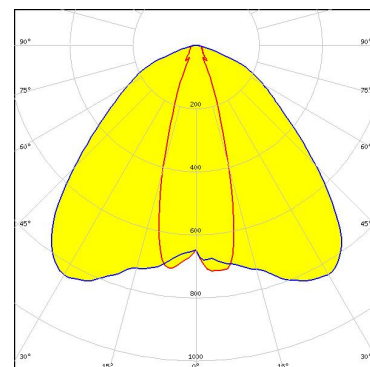


Light distribution files

Protective plate, glass

OSRAM
Opto Semiconductors

LED OSCONIQ S 5050
FWHM / FWTM 32.0 + 99.0° / 52.0 + 143.0°
Efficiency 96 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

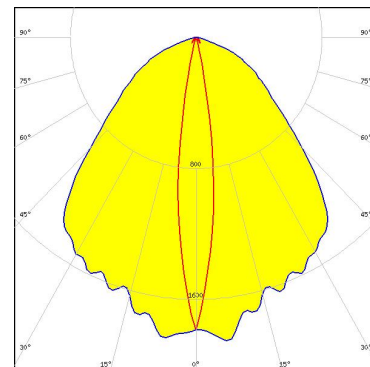


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

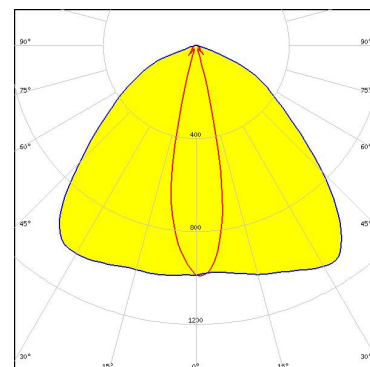
LED OSLON Pure 1414
FWHM / FWTM 14.0 + 90.0° / 26.0 + 140.0°
Efficiency 96 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 23.0 + 101.0° / 33.0 + 140.0°
Efficiency 85 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

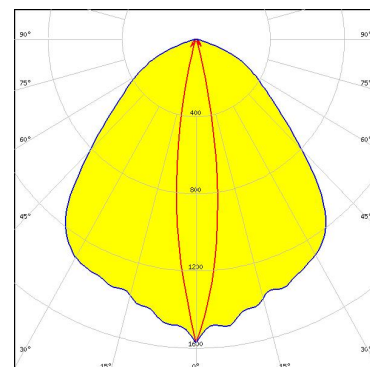


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square Flat
FWHM / FWTM 16.0 + 90.0° / 30.0 + 140.0°
Efficiency 96 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

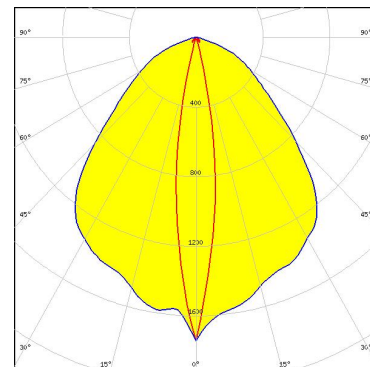


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

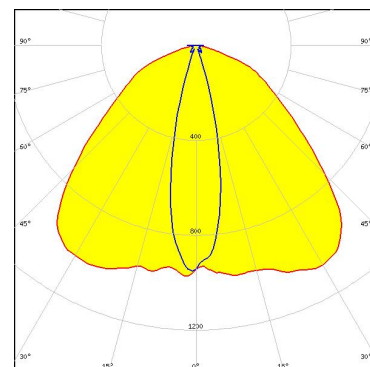
LED OSTAR Projection Compact (KW.CSLNM1.TG)
FWHM / FWTM 16.0 + 89.0° / 28.0 + 140.0°
Efficiency 96 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

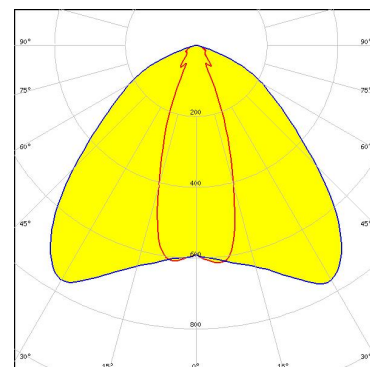
LED Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM 103.0 + 29.0° / 146.0 + 49.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED HiLOM RM12 Z (LH502C)
FWHM / FWTM 36.0 + 98.0° / 78.0 + 140.0°
Efficiency 89 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



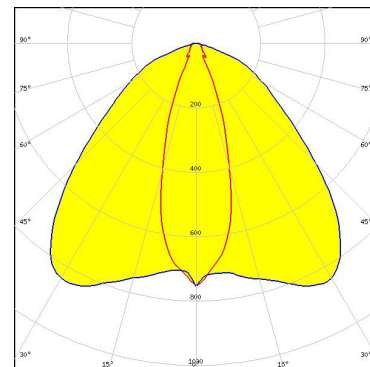
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



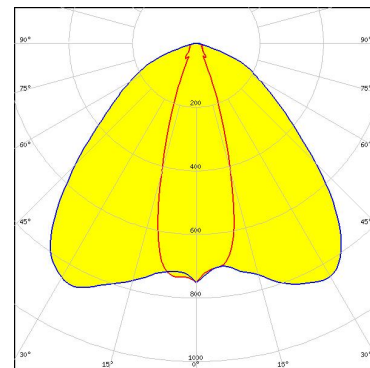
LED MJT 5050
 FWHM / FWTM 32.0 + 98.0° / 52.0 + 142.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



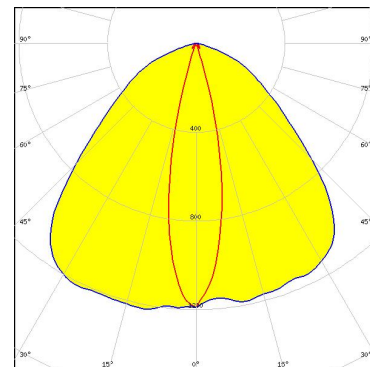
LED SEOUL DC 5050 6V
 FWHM / FWTM 33.0 + 98.0° / 58.0 + 143.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z5M1/Z5M2
 FWHM / FWTM 22.0 + 97.0° / 34.0 + 142.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

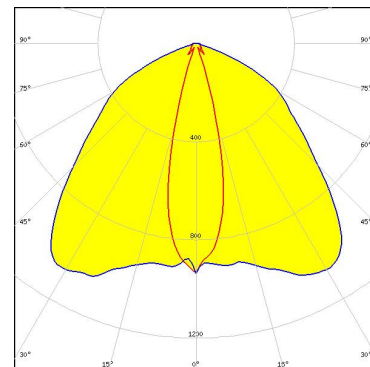


Light distribution files

OPTICAL RESULTS (SIMULATED):



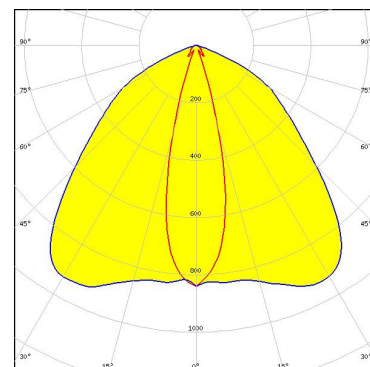
LED Z5M5
 FWHM / FWTM 26.0 + 103.0° / 38.0 + 140.0°
 Efficiency 96 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Z5M5
 FWHM / FWTM 26.0 + 100.0° / 40.0 + 138.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

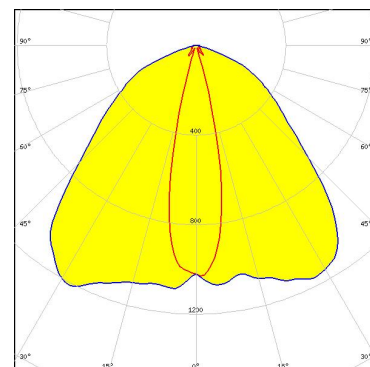


Protective plate, glass

Light distribution files



LED Z8Y22T
 FWHM / FWTM 21.0 + 96.0° / 33.0 + 141.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):

TRIDONIC

LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM	22.0 + 100.0° / 32.0 + 142.0°
Efficiency	84 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

Light distribution files

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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