

STRADA-2X2-VSM

IESNA Type V (square) beam for wide areas lighting such as car parks

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	6.1 mm
Fastening	glue, pin, screw
ROHS compliant	yes ⓘ

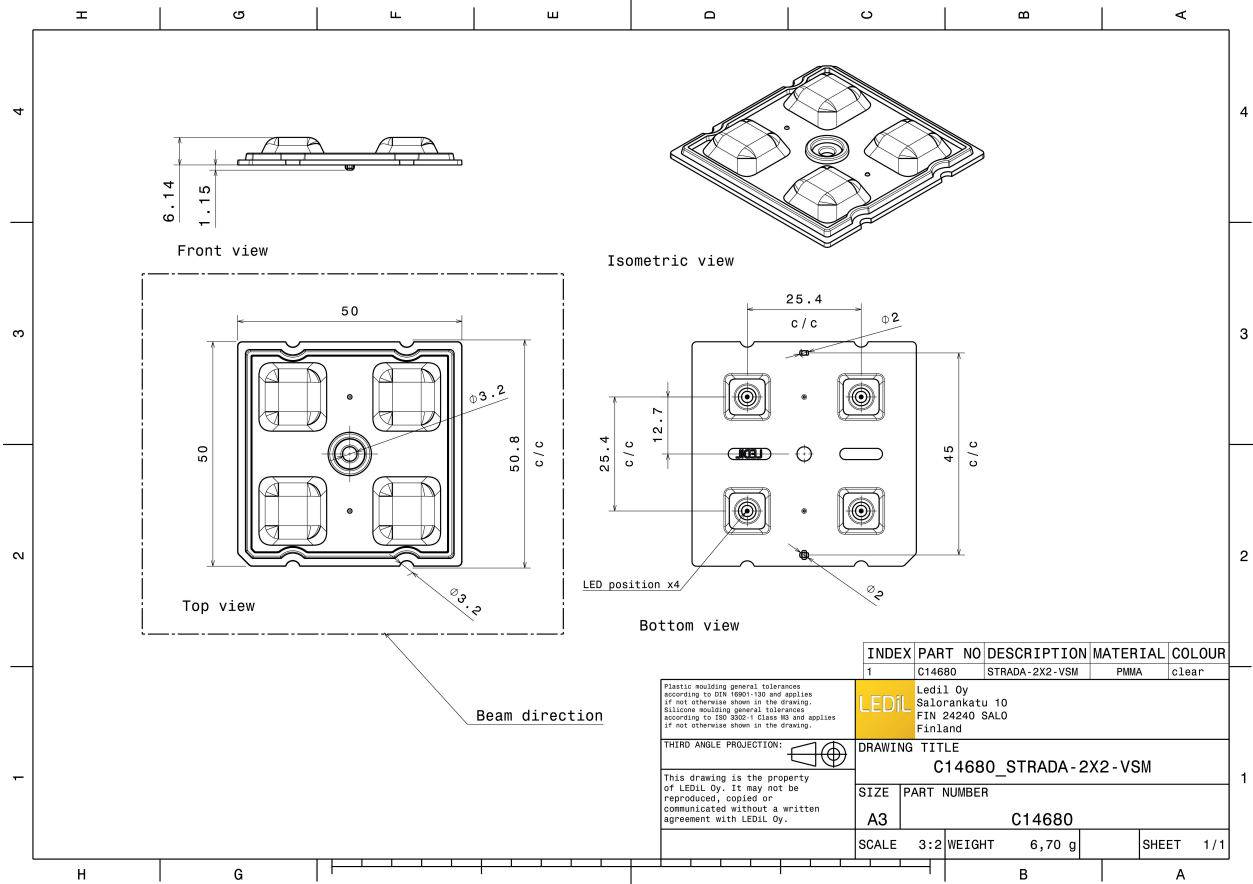


MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14680_STRADA-2X2-VSM » Box size: 480 x 280 x 300 mm	800	160	160	6.2

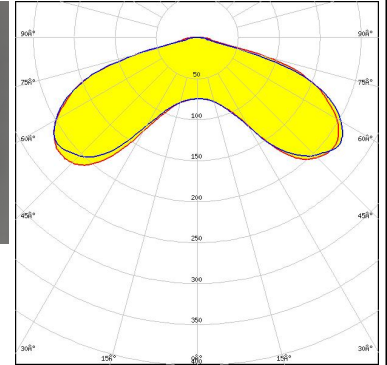


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



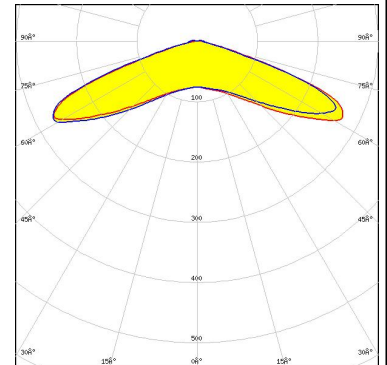
LED Bridgelux SMD 5050
FWHM / FWTM 149.0° / 158.0°
Efficiency 94 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



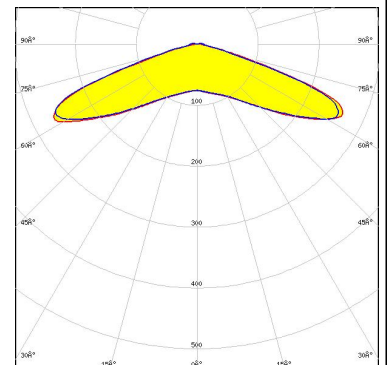
LED QUICK FLUX XTP 2x4 xxx LS G5
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED QUICK FLUX XTP 2x6 xxx LS G5
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

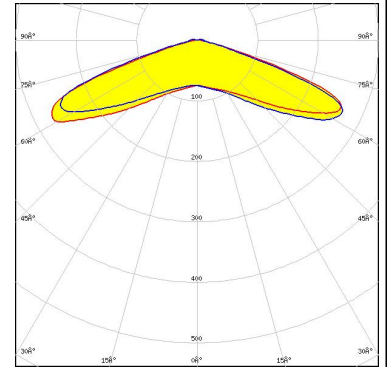


Light distribution files

OPTICAL RESULTS (MEASURED):



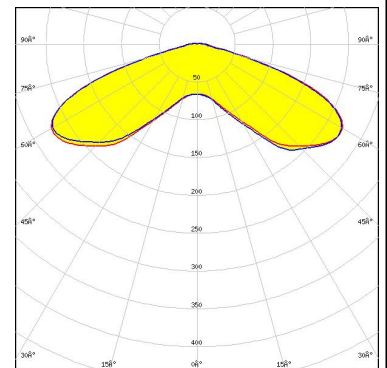
LED QUICK FLUX XTP 2x8 xxx LS G5
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



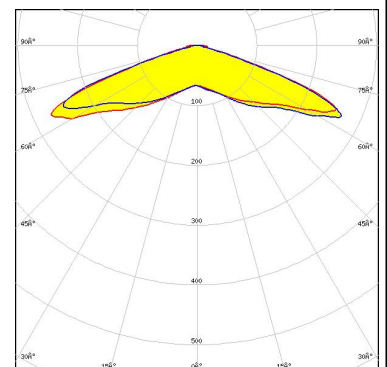
LED J Series 5050C 6V E Class
FWHM / FWTM Asymmetric
Efficiency 97 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XD16
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

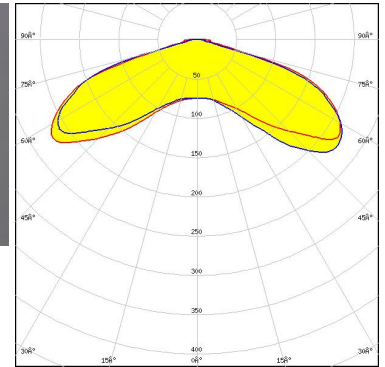


Light distribution files

OPTICAL RESULTS (MEASURED):



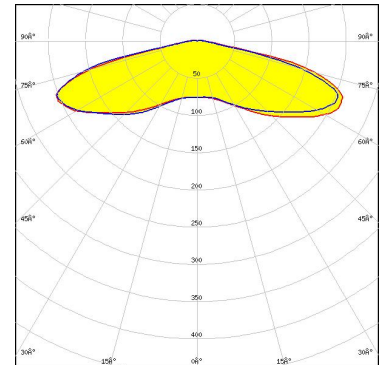
LED XD16
FWHM / FWTM 149.0° / 159.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:



Light distribution files



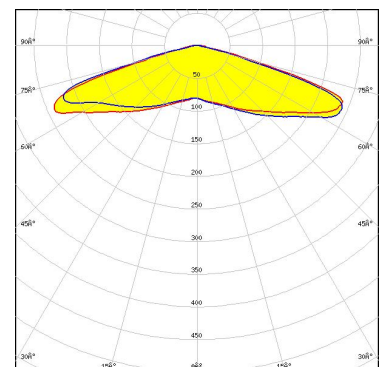
LED XHP35 HD
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G2
FWHM / FWTM 151.0° / 161.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):

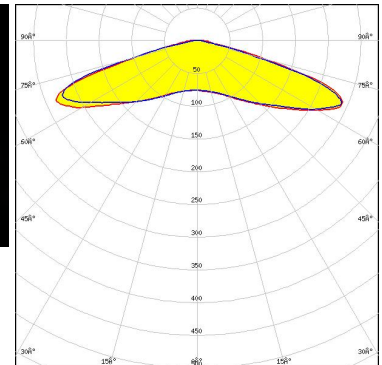


LED XP-G2 HE
FWHM / FWTM 152.0° / 160.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



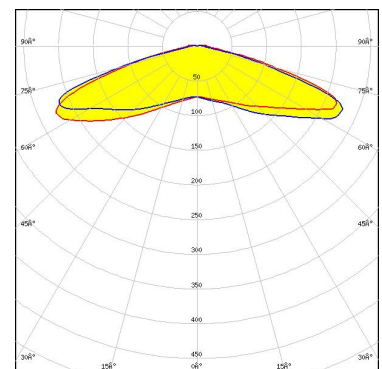
LED XP-G3
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XT-E
FWHM / FWTM 152.0° / 170.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

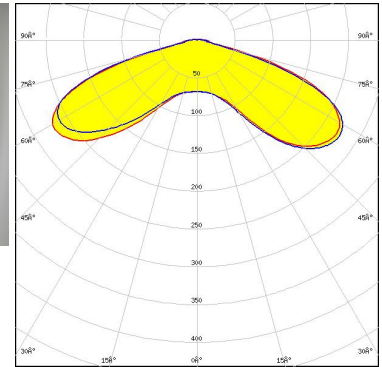


Light distribution files

OPTICAL RESULTS (MEASURED):



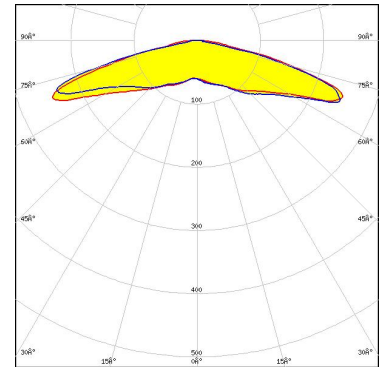
LED LUXEON 5050 Round LES
 FWHM / FWTM Asymmetric
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



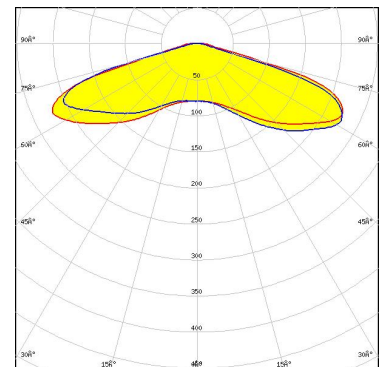
LED LUXEON C
 FWHM / FWTM Asymmetric
 Efficiency 94 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type PC Amber
 Required components:



Light distribution files



LED LUXEON V
 FWHM / FWTM 151.0° / 167.0°
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

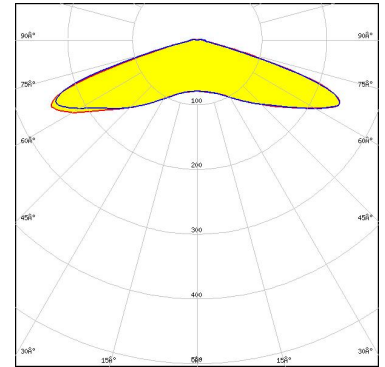


Light distribution files

OPTICAL RESULTS (MEASURED):



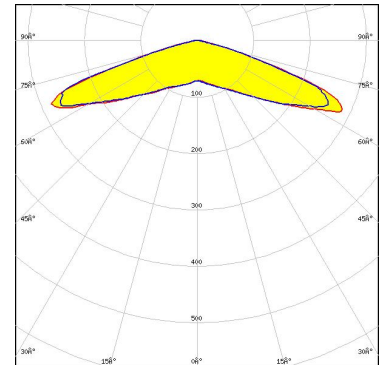
LED LUXEON V2
FWHM / FWTM 147.0° / 158.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



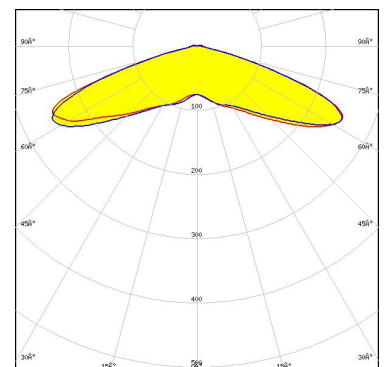
LED SST-10-B130
FWHM / FWTM 144.0° / 157.0°
Efficiency 97 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type Deep Red
Required components:



Light distribution files



LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM Asymmetric
Efficiency 98 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

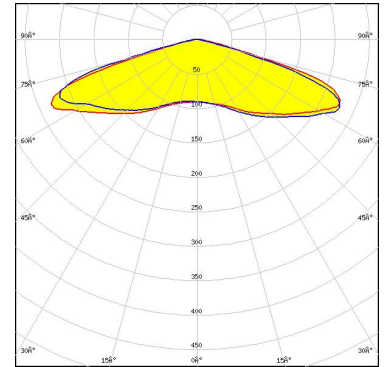


Light distribution files

OPTICAL RESULTS (MEASURED):



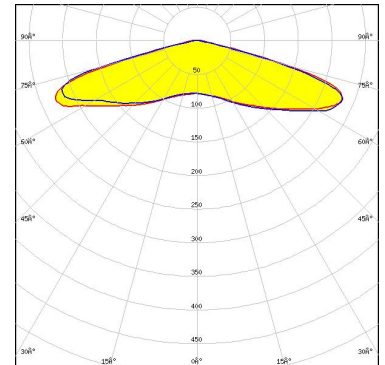
LED NVSW219D
FWHM / FWTM 152.0° / 163.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



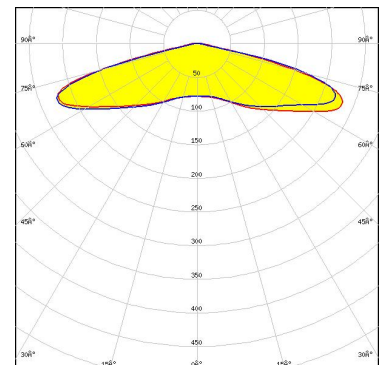
LED NVSW219F
FWHM / FWTM 151.0° / 160.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSW319B
FWHM / FWTM 156.0° / 164.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

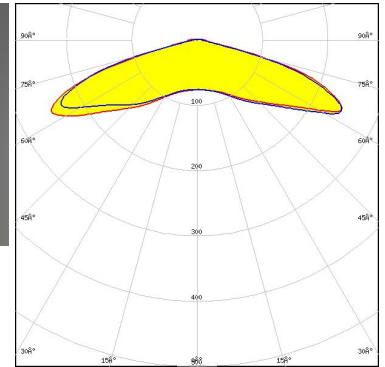


Light distribution files

OPTICAL RESULTS (MEASURED):



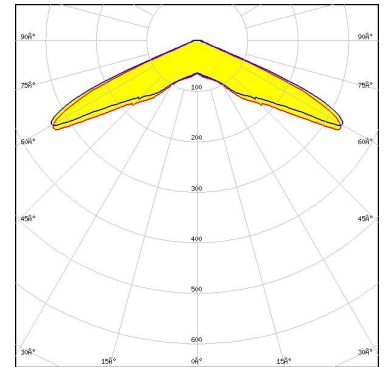
LED NVSW3x9A
 FWHM / FWTM 152.0° / 161.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



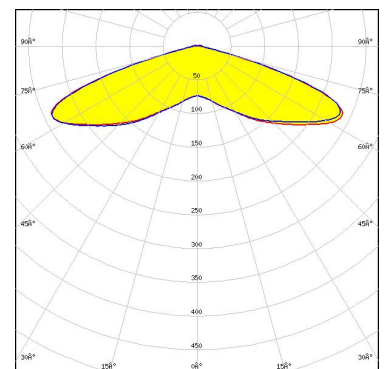
LED NVSxE21A
 FWHM / FWTM 134.0° / 144.0°
 Efficiency 94 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED PL-BRICK HP 3800 2x8 SSG
 FWHM / FWTM Asymmetric
 Efficiency 96 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

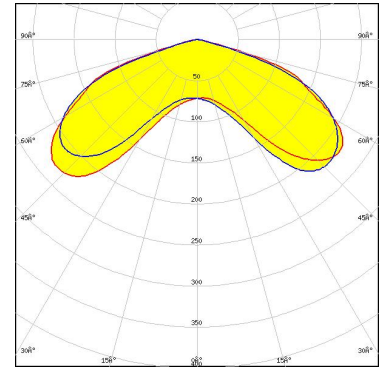
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED Duris S8
FWHM / FWTM 141.0° / 153.0°
Efficiency 88 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

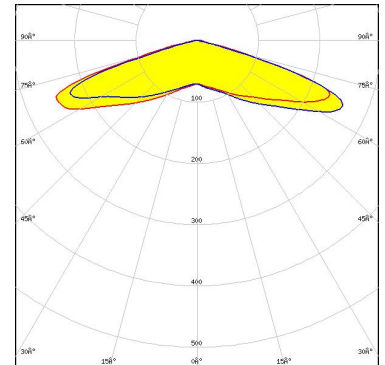
Light distribution files



OSRAM
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3
FWHM / FWTM 148.0° / 159.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

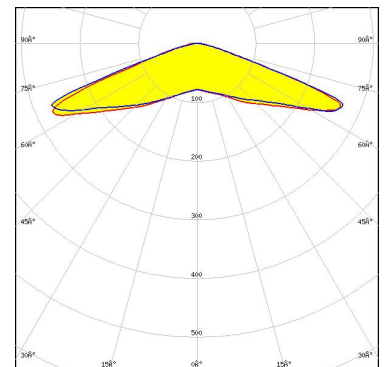
Light distribution files



OSRAM
Opto Semiconductors

LED OSLOM Square PC
FWHM / FWTM 143.0° / 160.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

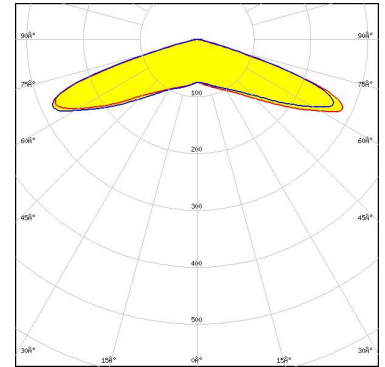
Light distribution files



OPTICAL RESULTS (MEASURED):

PHILIPS

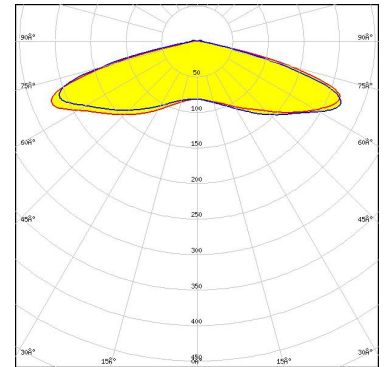
LED Fortimo FastFlex LED 2x8 DA G4
FWHM / FWTM 146.0° / 156.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

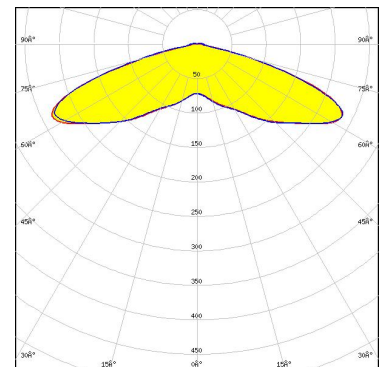
LED Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM 152.0° / 160.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5
FWHM / FWTM 146.0° / 156.0°
Efficiency 97 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

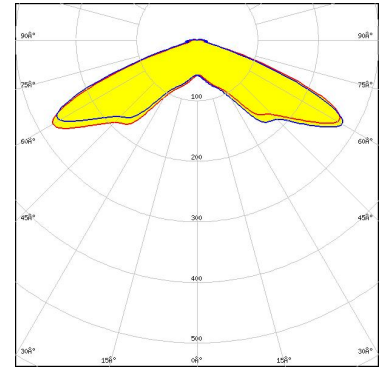


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

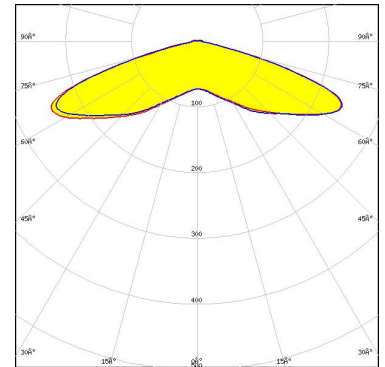
LED HiLOM RC12 Z (LH181B)
FWHM / FWTM 138.0° / 148.0°
Efficiency 99 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

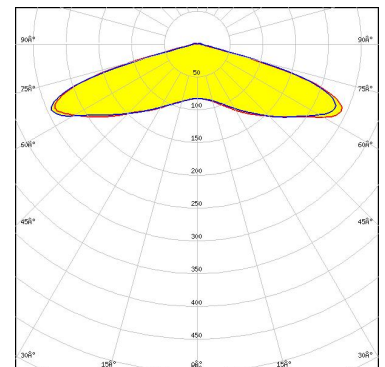
LED HiLOM RH12 Z (LH351C)
FWHM / FWTM 147.0° / 156.0°
Efficiency 97 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED HiLOM RH16 (LH351C)
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

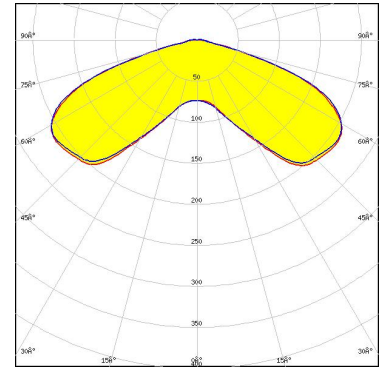


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

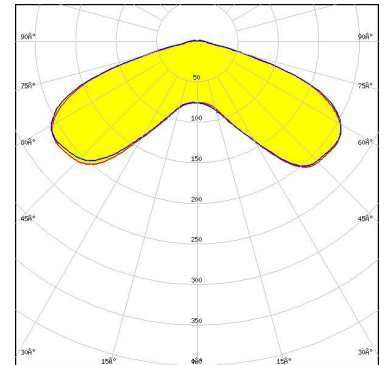
LED HiLOM RM12 Z (LH502C)
FWHM / FWTM 144.0° / 157.0°
Efficiency 97 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

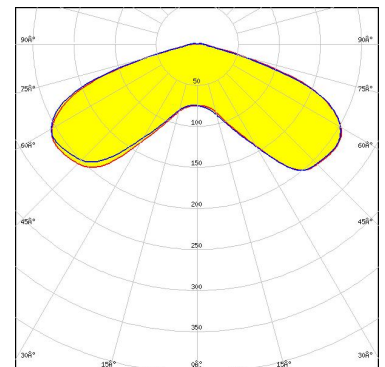
LED HiLOM RM16 Z (LH502C)
FWHM / FWTM 144.0° / 156.0°
Efficiency 98 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED HiLOM RM8 Z (LH502C)
FWHM / FWTM 144.0° / 157.0°
Efficiency 97 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

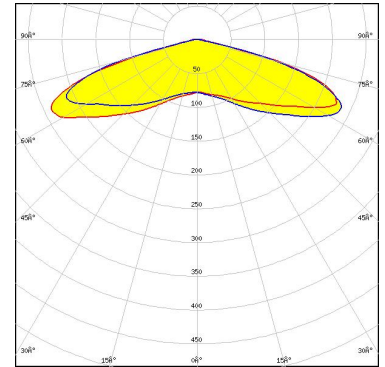


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

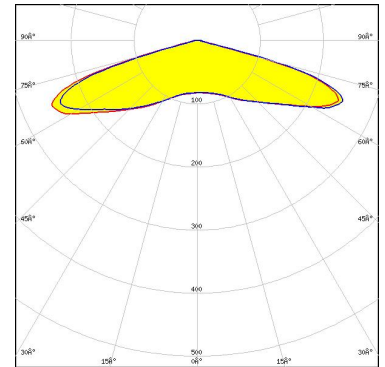
LED LH351B
FWHM / FWTM 153.0° / 161.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

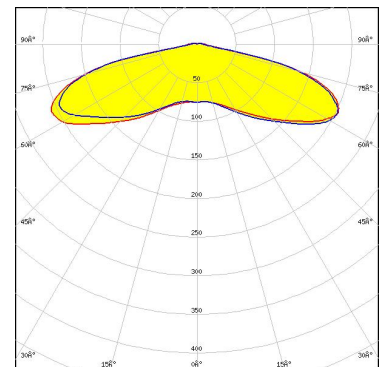
LED LH351C
FWHM / FWTM 149.0° / 157.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351D
FWHM / FWTM 156.0° / 162.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

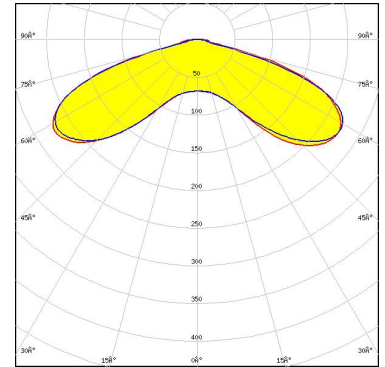


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LH508A
FWHM / FWTM 146.0° / 157.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

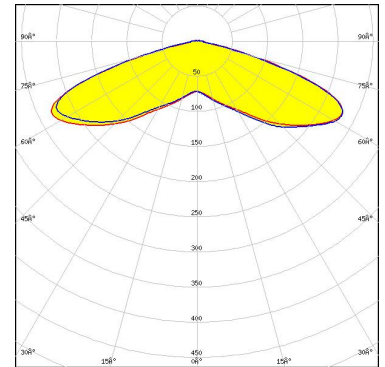


Light distribution files

SEITEC

Elektronik GmbH

LED LED-Pa-L15c2W11c2-xxx-C050-01
FWHM / FWTM 146.0° / 156.0°
Efficiency 98 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

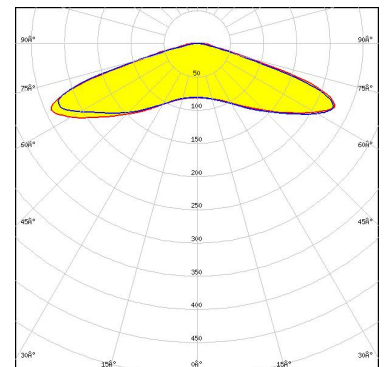


Light distribution files

SEUL


SEOUL SEMICONDUCTOR

LED Z5M3
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

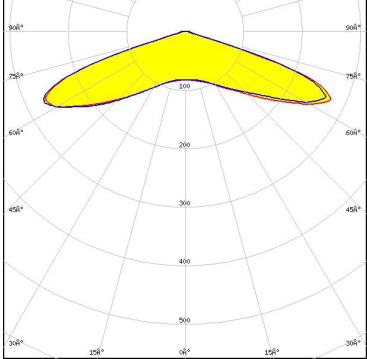


Light distribution files


OPTICAL RESULTS (MEASURED):


SEOL SEMICONDUCTOR


LED Z5M4
FWHM / FWTM 144.0° / 149.0°
Efficiency 98 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

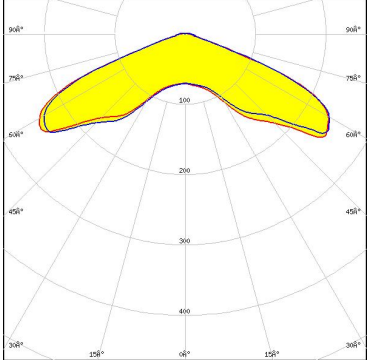


Light distribution files



SEOL SEMICONDUCTOR

LED Z8Y22
FWHM / FWTM 141.0° / 151.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

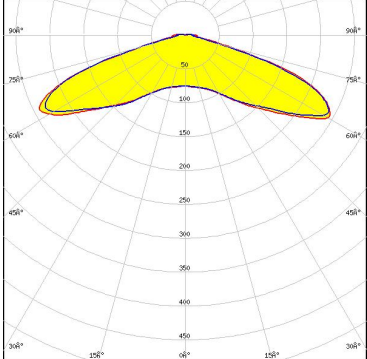




Light distribution files


SEOL SEMICONDUCTOR

LED Z8Y22P
FWHM / FWTM 146.0° / 161.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

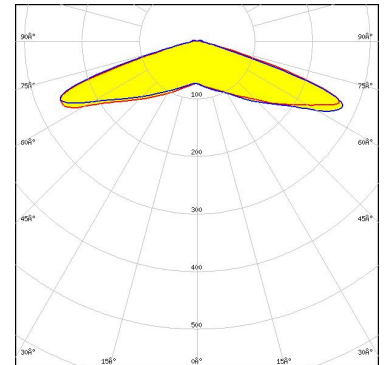
OPTICAL RESULTS (MEASURED):

TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

TRIDONIC

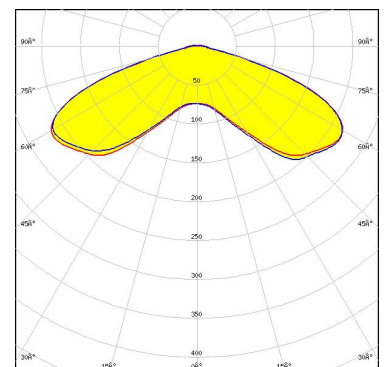
LED RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

LED RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM 144.0° / 156.0°
Efficiency 98 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

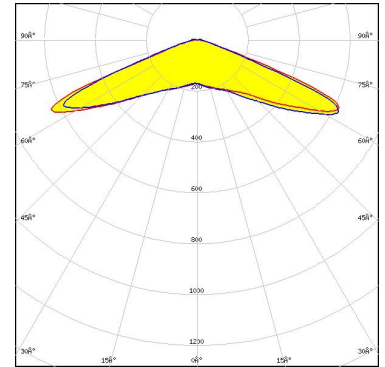


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

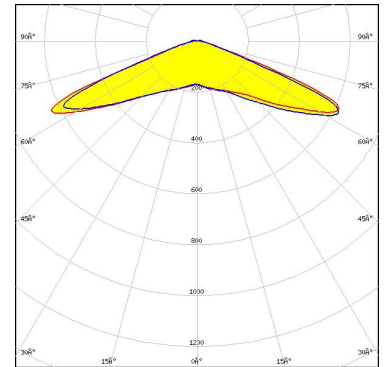
LED RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM / FWTM 139.0° / 155.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

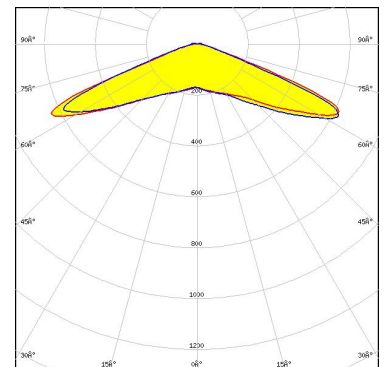
LED RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM / FWTM 139.0° / 155.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM / FWTM 139.0° / 155.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

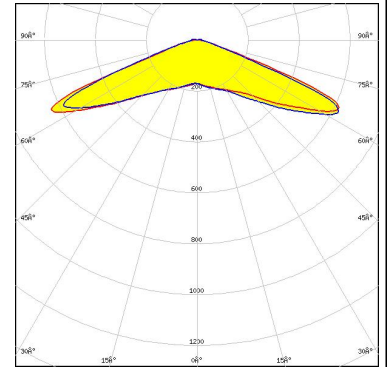


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM / FWTM 139.0° / 155.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



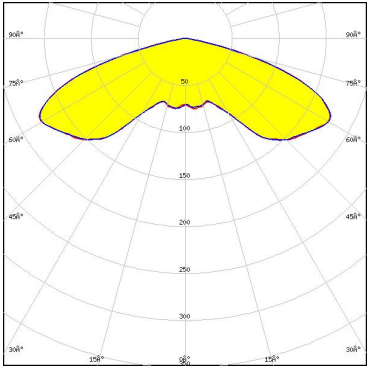
Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE
LEDs

LED: J Series 5050B 30V K Class
 FWHM / FWTM: 146.0° / 160.0°
 Efficiency: 74 %
 Peak intensity: 0.2 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:

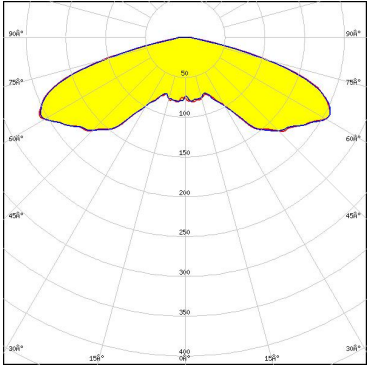
Protective plate, glass



Light distribution files

CREE
LEDs

LED: J Series 5050B 30V K Class
 FWHM / FWTM: 150.0° / 162.0°
 Efficiency: 91 %
 Peak intensity: 0.3 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:

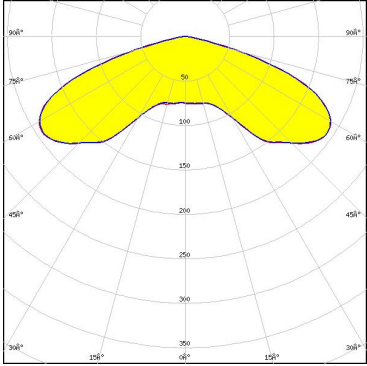


Light distribution files

CREE
LEDs

LED: J Series 5050B 6V K Class
 FWHM / FWTM: 144.0° / 158.0°
 Efficiency: 80 %
 Peak intensity: 0.3 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:

Protective plate, glass

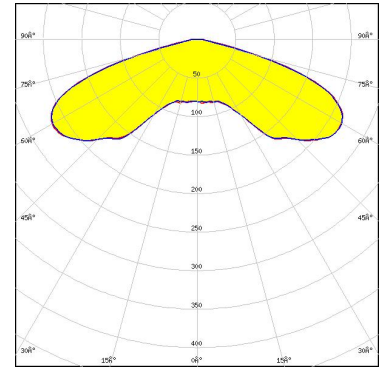


Light distribution files

OPTICAL RESULTS (SIMULATED):



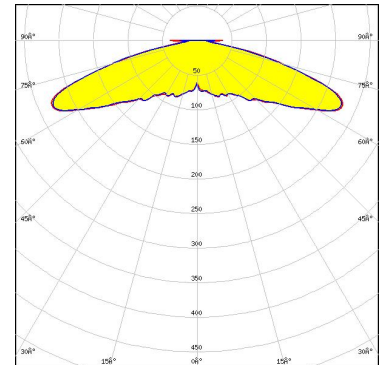
LED J Series 5050B 6V K Class
FWHM / FWTM 148.0° / 160.0°
Efficiency 97 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



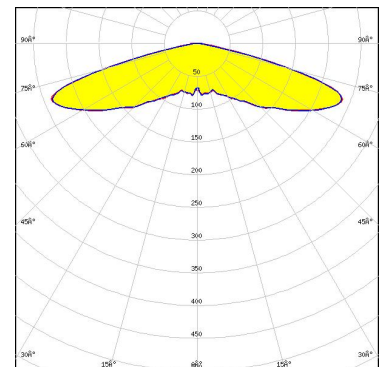
LED XB-D
FWHM / FWTM 151.0° / 180.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XM-L
FWHM / FWTM 152.0° / 161.0°
Efficiency 96 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

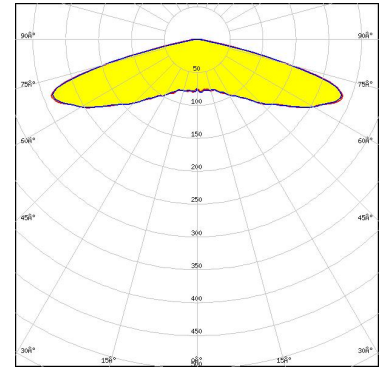


Light distribution files

OPTICAL RESULTS (SIMULATED):



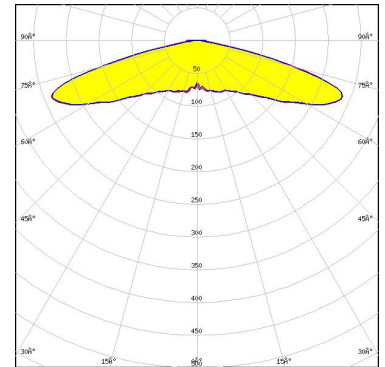
LED XM-L2
 FWHM / FWTM 152.0° / 160.0°
 Efficiency 96 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



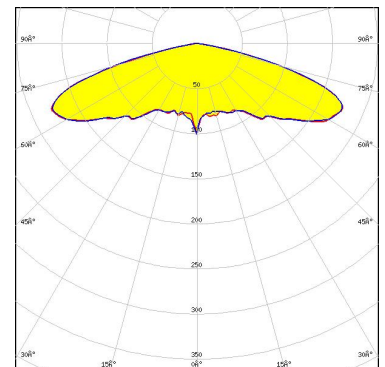
LED XP-G
 FWHM / FWTM 152.0° / 163.0°
 Efficiency 95 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G3
 FWHM / FWTM 150.0° / 161.0°
 Efficiency 74 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Protective plate, glass

Light distribution files

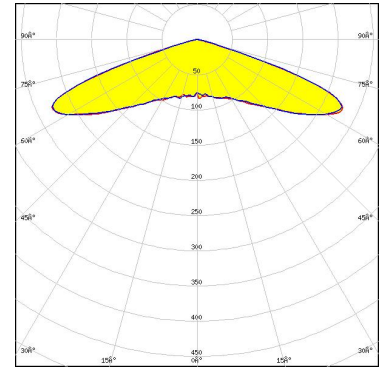
OPTICAL RESULTS (SIMULATED):



LED XP-G4
 FWHM / FWTM 142.0° / 150.0°
 Efficiency 80 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

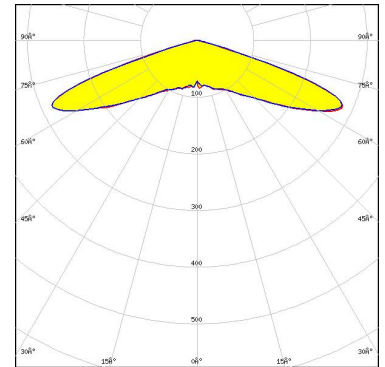
Protective plate, glass

Light distribution files



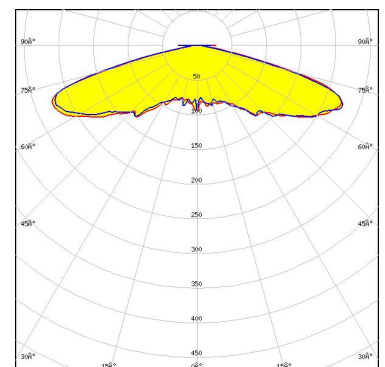
LED XP-G4
 FWHM / FWTM 144.0° / 150.0°
 Efficiency 95 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



LED XP-L2
 FWHM / FWTM 151.0° / 161.0°
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



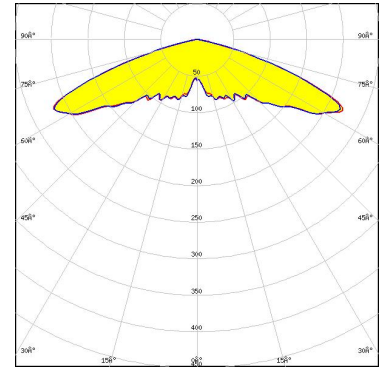
OPTICAL RESULTS (SIMULATED):



LED XP-P
 FWHM / FWTM 144.0° / 156.0°
 Efficiency 78 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

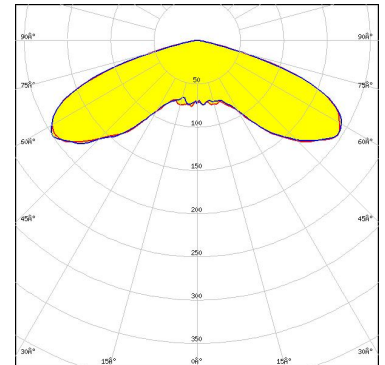
Light distribution files



LED LUXEON 5050 Round LES
 FWHM / FWTM Asymmetric
 Efficiency 81 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

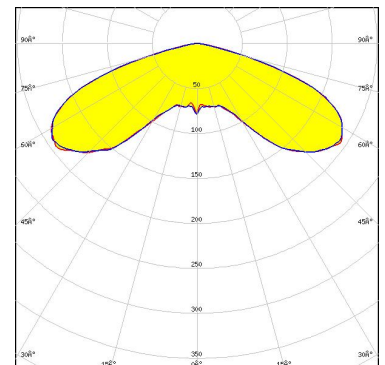
Light distribution files



LED LUXEON 5050 Square LES
 FWHM / FWTM Asymmetric
 Efficiency 80 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

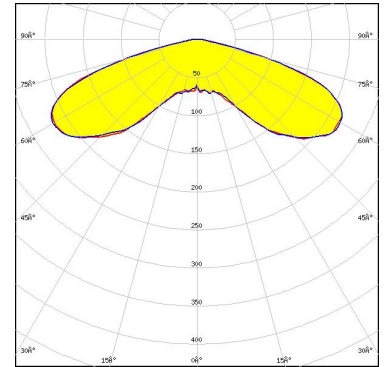
Light distribution files



OPTICAL RESULTS (SIMULATED):



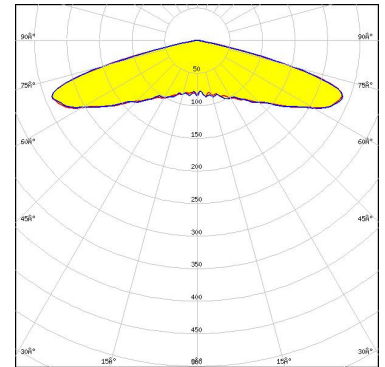
LED LUXEON 5050 Square LES
FWHM / FWTM 148.0° / 161.0°
Efficiency 96 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



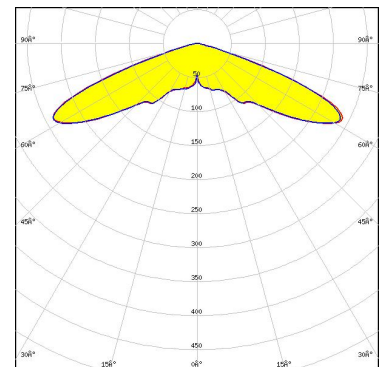
LED LUXEON HL2X
FWHM / FWTM 150.0° / 158.0°
Efficiency 95 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON HL2Z
FWHM / FWTM 140.0° / 152.0°
Efficiency 80 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



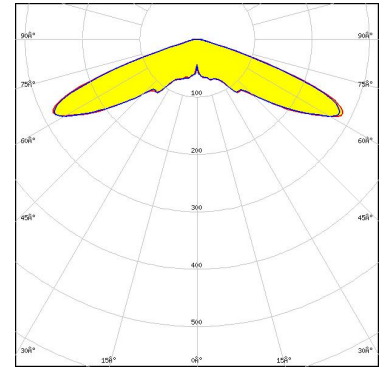
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



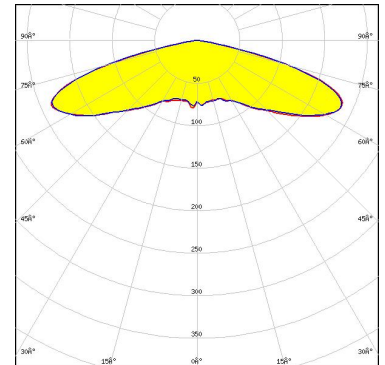
LED LUXEON HL2Z
FWHM / FWTM 142.0° / 152.0°
Efficiency 95 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON HL4X
FWHM / FWTM 152.0° / 162.0°
Efficiency 75 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

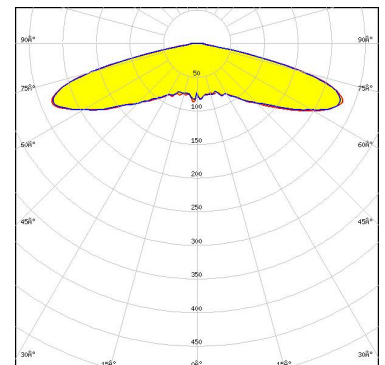


Protective plate, glass

Light distribution files



LED LUXEON HL4X
FWHM / FWTM 154.0° / 162.0°
Efficiency 96 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

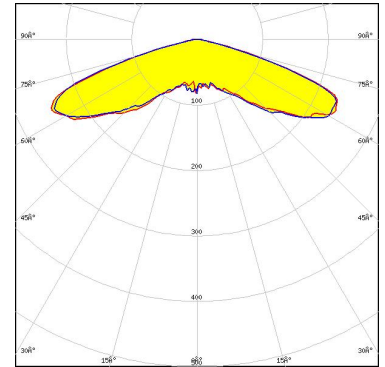


Light distribution files

OPTICAL RESULTS (SIMULATED):



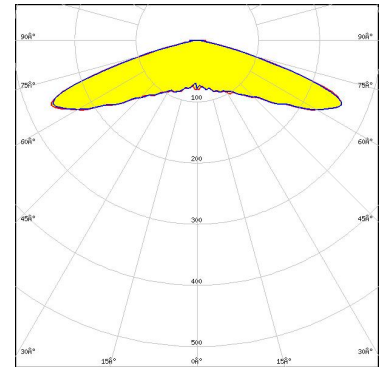
LED LUXEON MZ
FWHM / FWTM 146.0° / 157.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



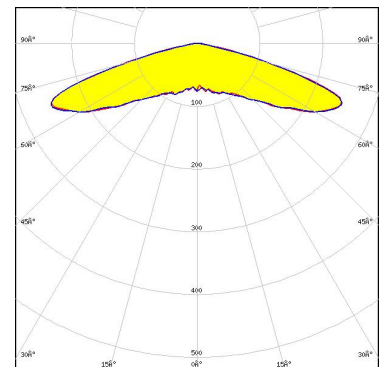
LED LUXEON Rebel ES
FWHM / FWTM 146.0° / 158.0°
Efficiency 95 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON T
FWHM / FWTM 150.0° / 160.0°
Efficiency 96 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

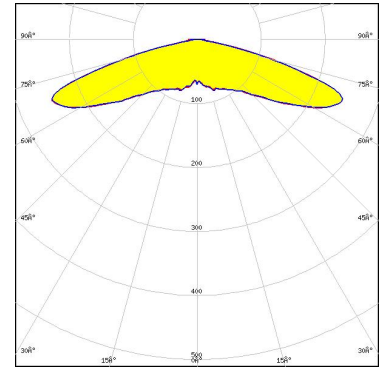


Light distribution files

OPTICAL RESULTS (SIMULATED):



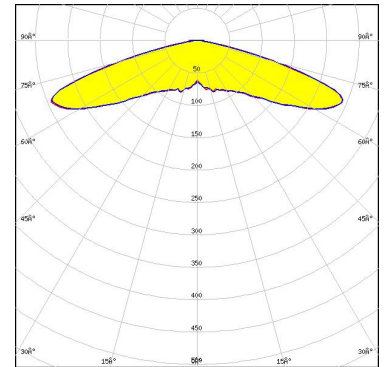
LED LUXEON TX
 FWHM / FWTM 150.0° / 161.0°
 Efficiency 95 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



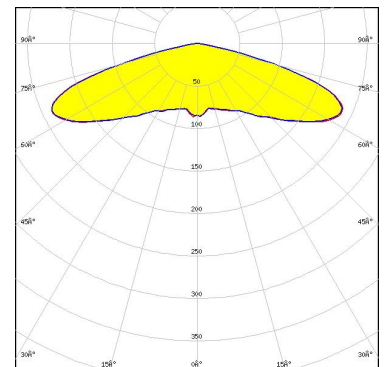
LED LUXEON TX
 FWHM / FWTM 150.0° / 160.0°
 Efficiency 95 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
 FWHM / FWTM 150.0° / 160.0°
 Efficiency 76 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



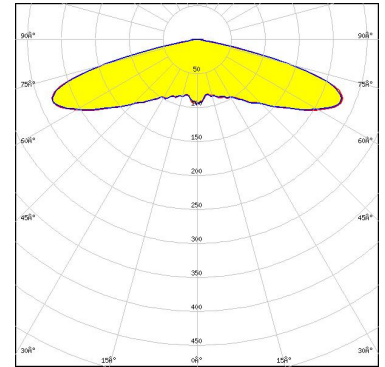
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



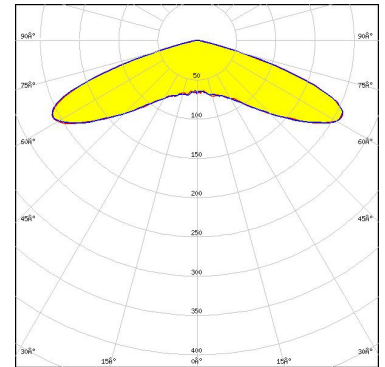
LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM 152.0° / 160.0°
Efficiency 96 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



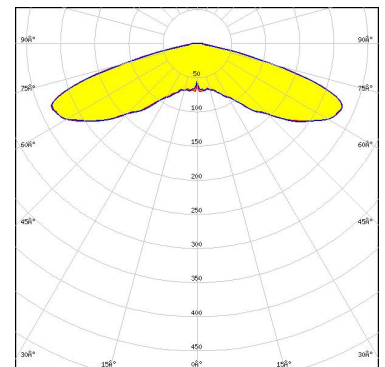
LED NF2x757G
FWHM / FWTM 144.0° / 155.0°
Efficiency 79 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

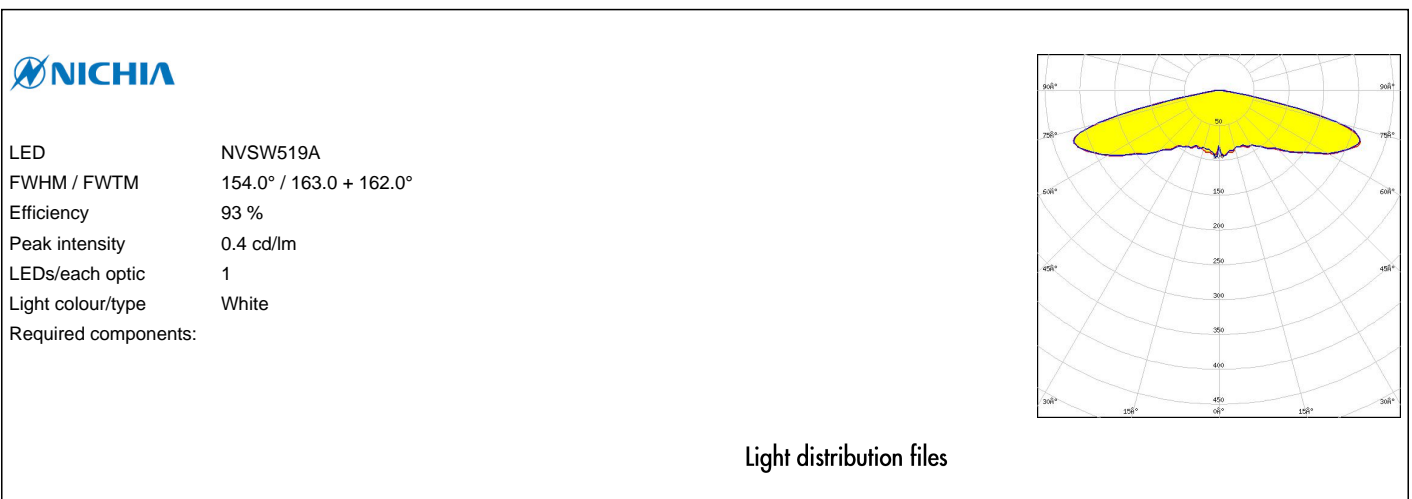
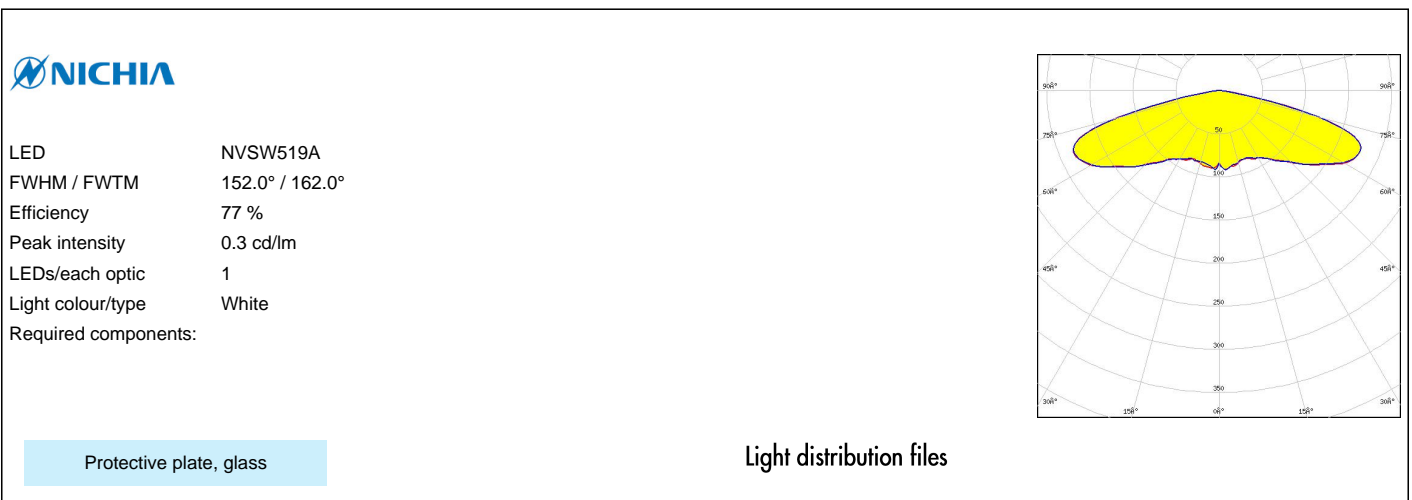
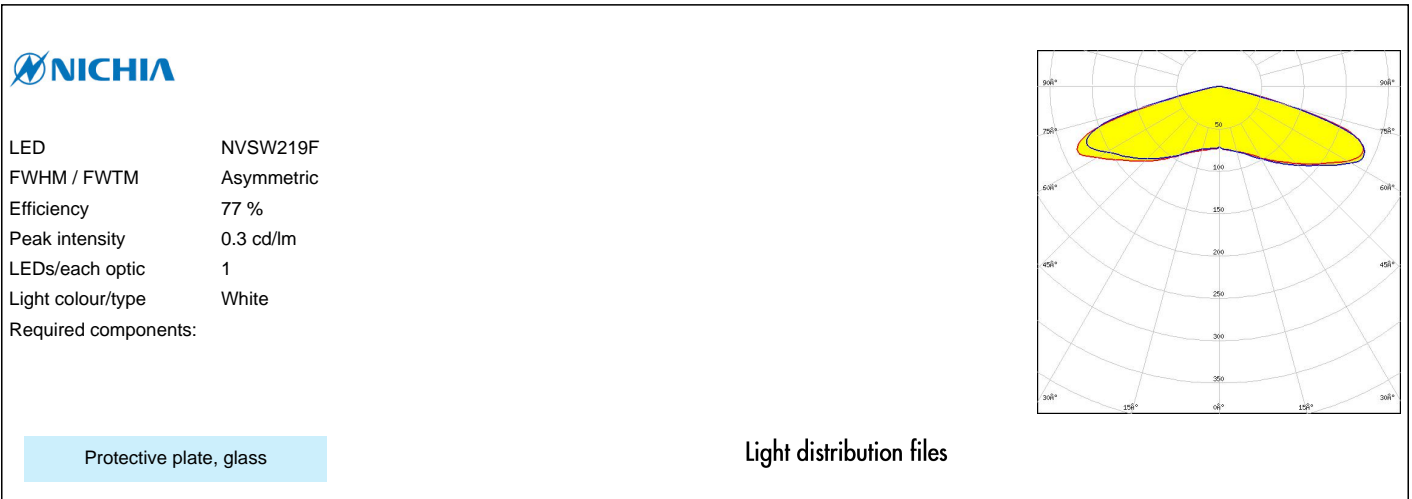


LED NV4WB35AM
FWHM / FWTM 150.0° / 160.0°
Efficiency 96 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

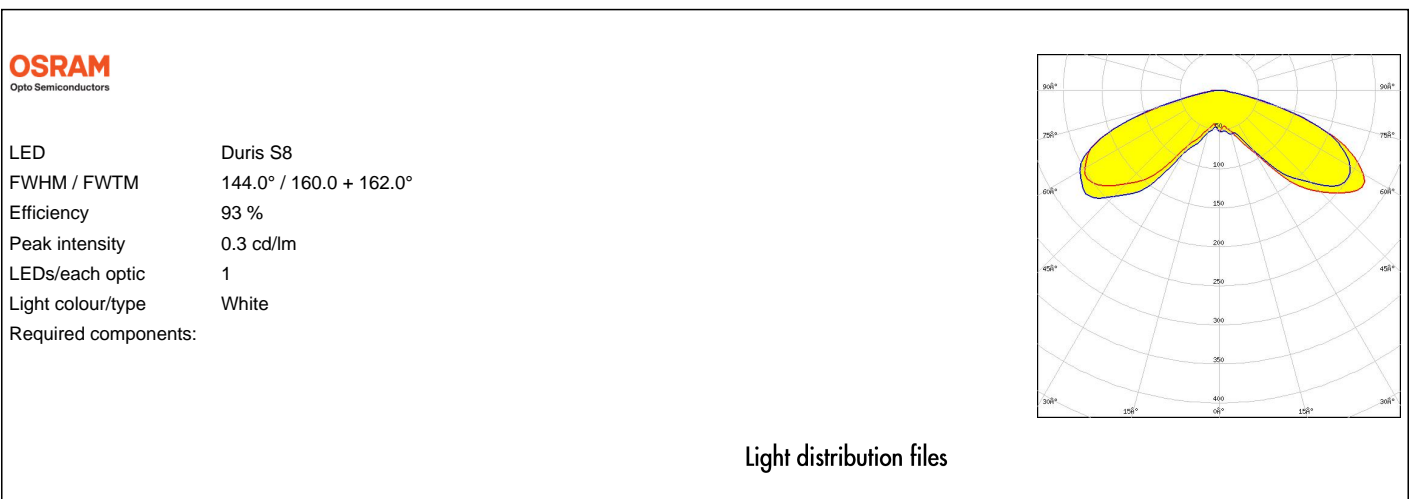
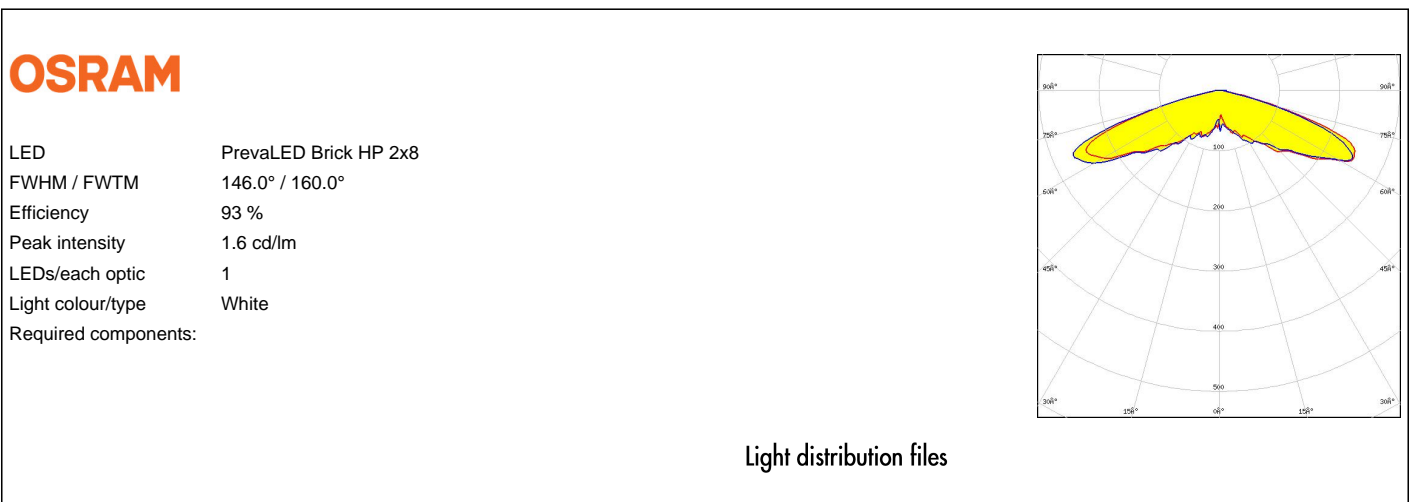
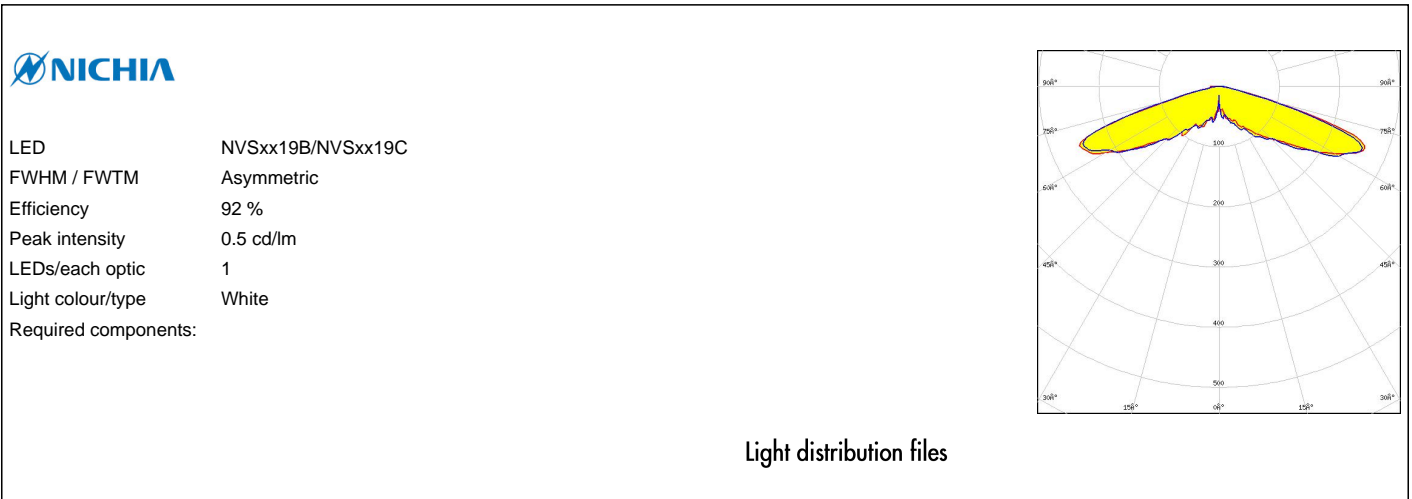


Light distribution files

OPTICAL RESULTS (SIMULATED):



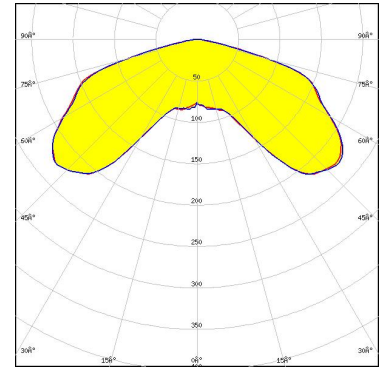
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

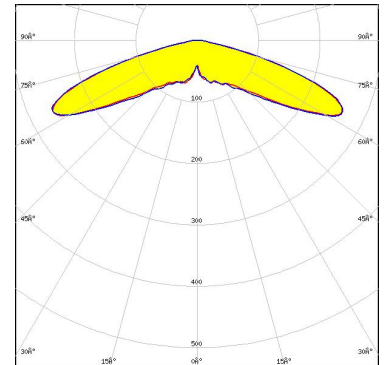
LED OSCONIQ C 2424
FWHM / FWTM 146.0° / 160.0°
Efficiency 95 %
Peak intensity 0.3 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

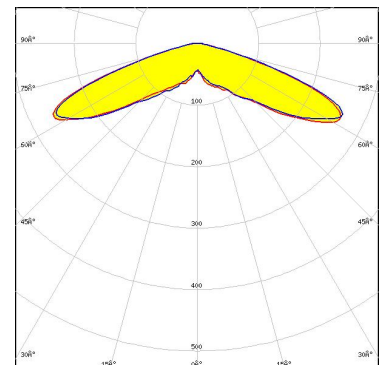
LED OSCONIQ P 3030
FWHM / FWTM 148.0° / 162.0°
Efficiency 95 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (2W version)
FWHM / FWTM 144.0° / 158.0°
Efficiency 93 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

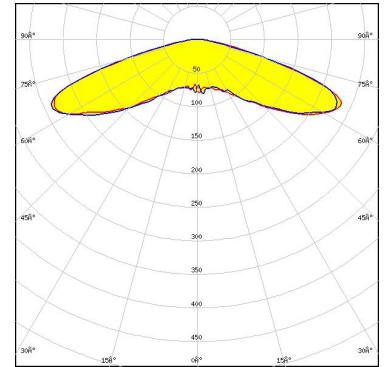


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 148.0° / 164.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

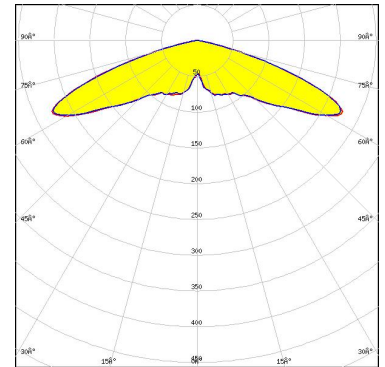


Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Pure 1414
FWHM / FWTM 144.0° / 156.0°
Efficiency 78 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

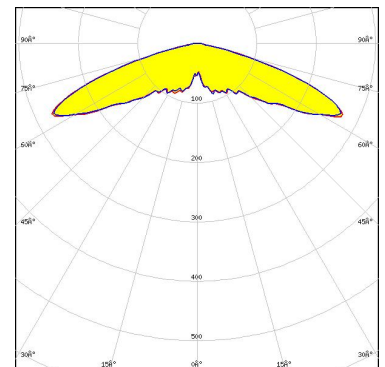
Protective plate, glass



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Pure 1414
FWHM / FWTM 146.0° / 158.0°
Efficiency 97 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

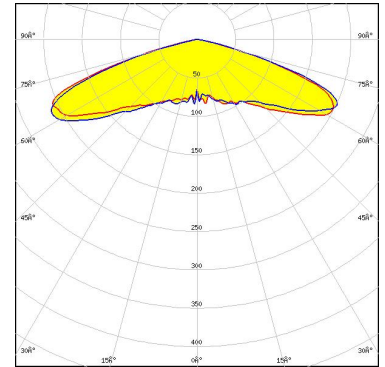
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3
 FWHM / FWTM 146.0° / 156.0°
 Efficiency 79 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

Light distribution files

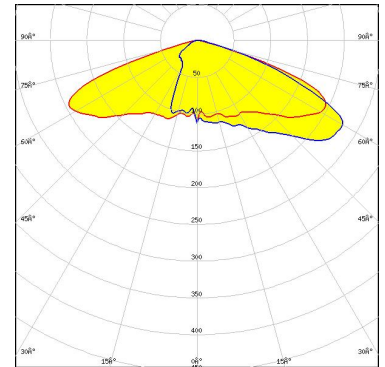


OSRAM
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3
 FWHM / FWTM Asymmetric
 Efficiency 57 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C17580_STRADA-2X2-SHD-WHT

Protective plate, glass

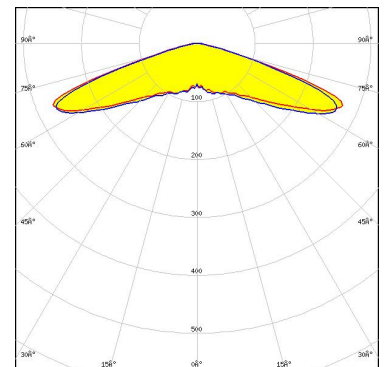
Light distribution files



OSRAM
Opto Semiconductors

LED OSLOM Square EC
 FWHM / FWTM 144.0° / 156.0°
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

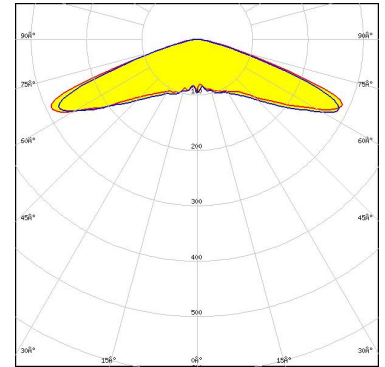
Light distribution files



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

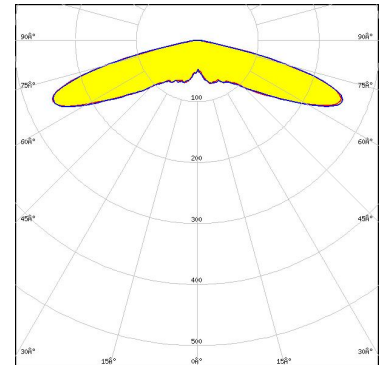
LED OSLON Square PC
FWHM / FWTM 144.0° / 162.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

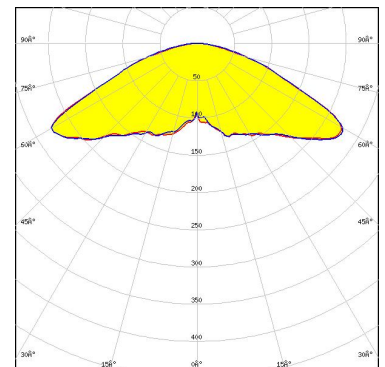
LED OSLON SSL 150
FWHM / FWTM 152.0° / 160.0°
Efficiency 96 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 138.0° / 164.0°
Efficiency 95 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

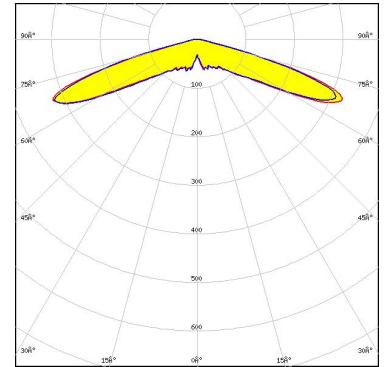


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

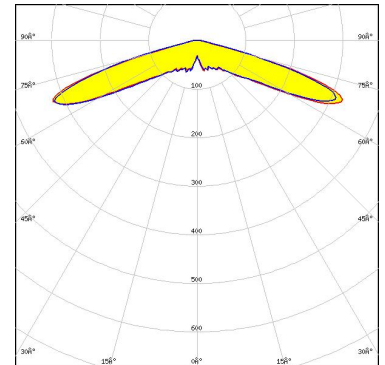
LED SFH 4714A
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

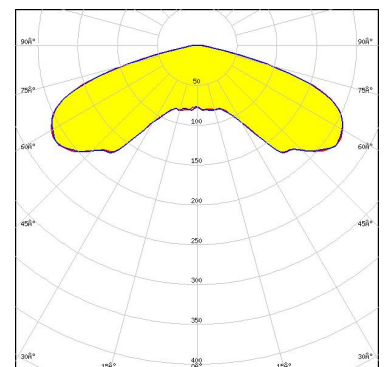
LED SFH 4714A
FWHM / FWTM 148.0° / 156.0°
Efficiency 96 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM 148.0° / 162.0 + 160.0°
Efficiency 97 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

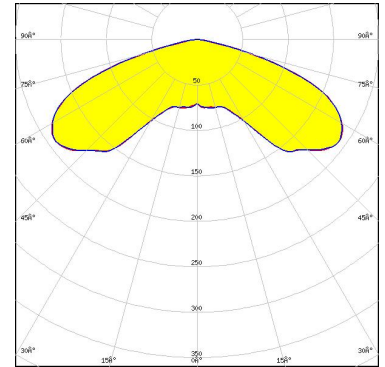
OPTICAL RESULTS (SIMULATED):

PHILIPS

LED Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM 144.0° / 158.0°
Efficiency 79 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

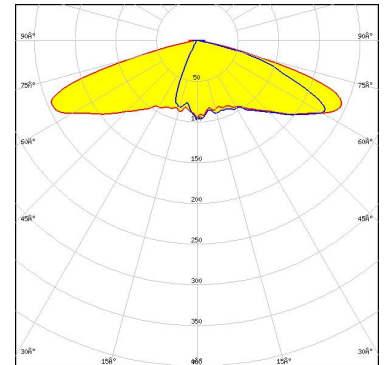
Light distribution files



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM Asymmetric
Efficiency 50 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C17677_STRADA-2X2-SHD-BLK

Light distribution files

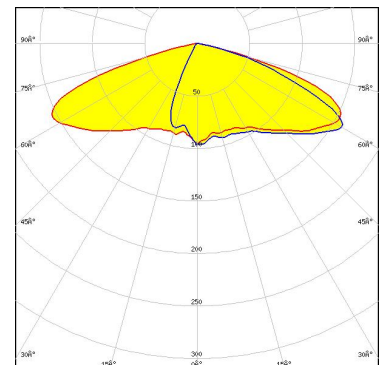


PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM Asymmetric
Efficiency 43 %
Peak intensity 0.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C17677_STRADA-2X2-SHD-BLK

Protective plate, glass

Light distribution files



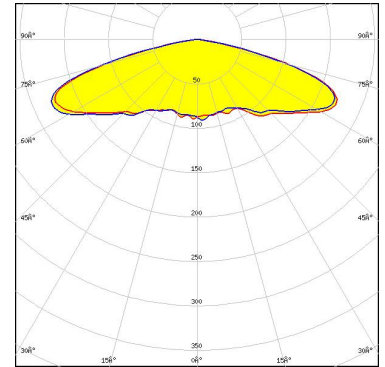
OPTICAL RESULTS (SIMULATED):

PHILIPS

LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM	152.0° / 164.0°
Efficiency	74 %
Peak intensity	0.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

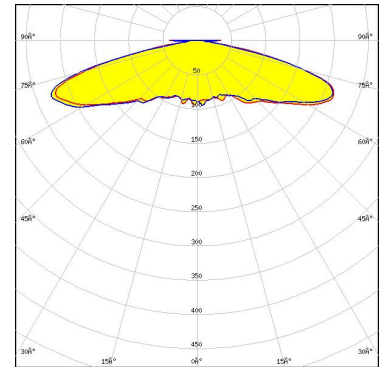
Light distribution files



PHILIPS

LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM	154.0° / 165.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

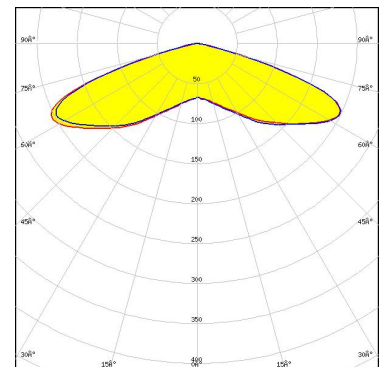


SAMSUNG

LED	HiLOM RH12 Z (LH351C)
FWHM / FWTM	Asymmetric
Efficiency	79 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

Light distribution files



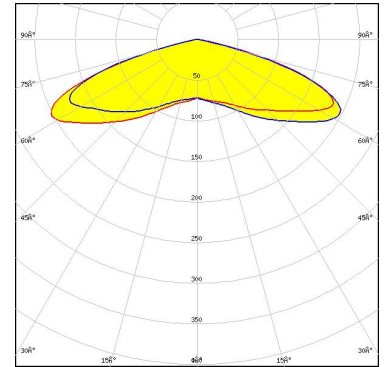
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LH351B
FWHM / FWTM Asymmetric
Efficiency 78 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

Light distribution files

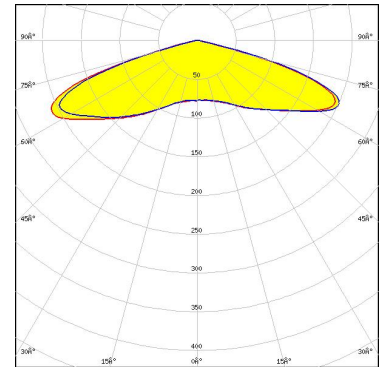


SAMSUNG

LED LH351C
FWHM / FWTM Asymmetric
Efficiency 79 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

Light distribution files

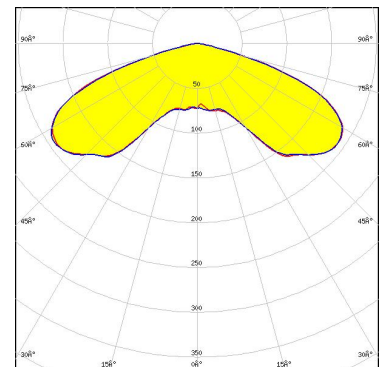


SAMSUNG

LED LH502C
FWHM / FWTM 144.0° / 156.0°
Efficiency 80 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

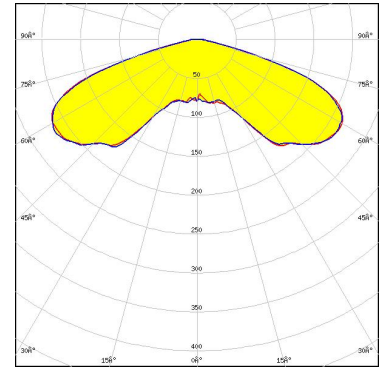
Light distribution files



OPTICAL RESULTS (SIMULATED):

SAMSUNG

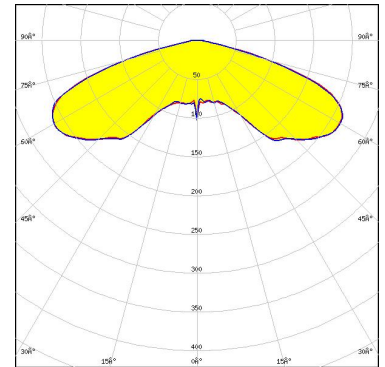
LED LH502C
FWHM / FWTM 146.0° / 160.0°
Efficiency 97 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

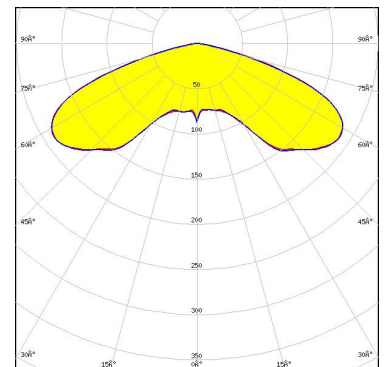
LED LH502D
FWHM / FWTM 148.0° / 162.0 + 160.0°
Efficiency 97 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

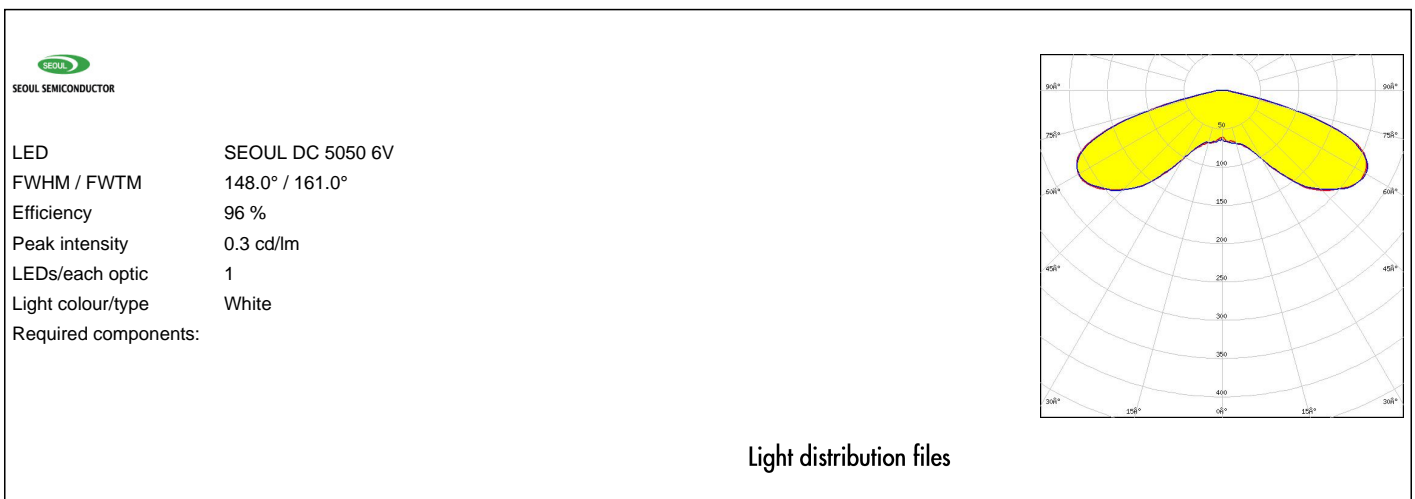
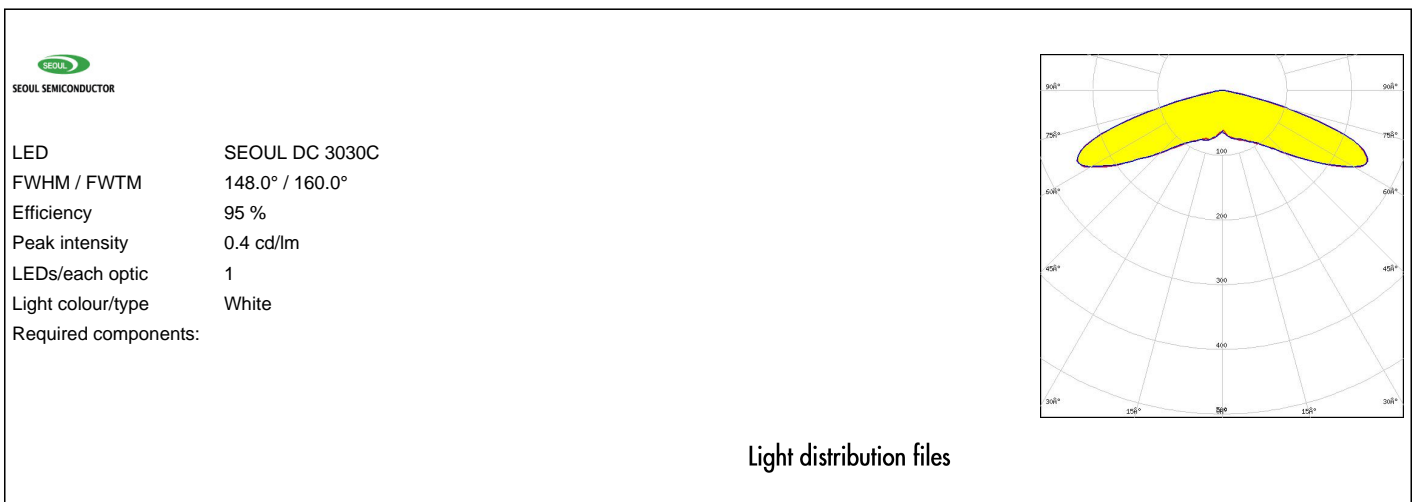
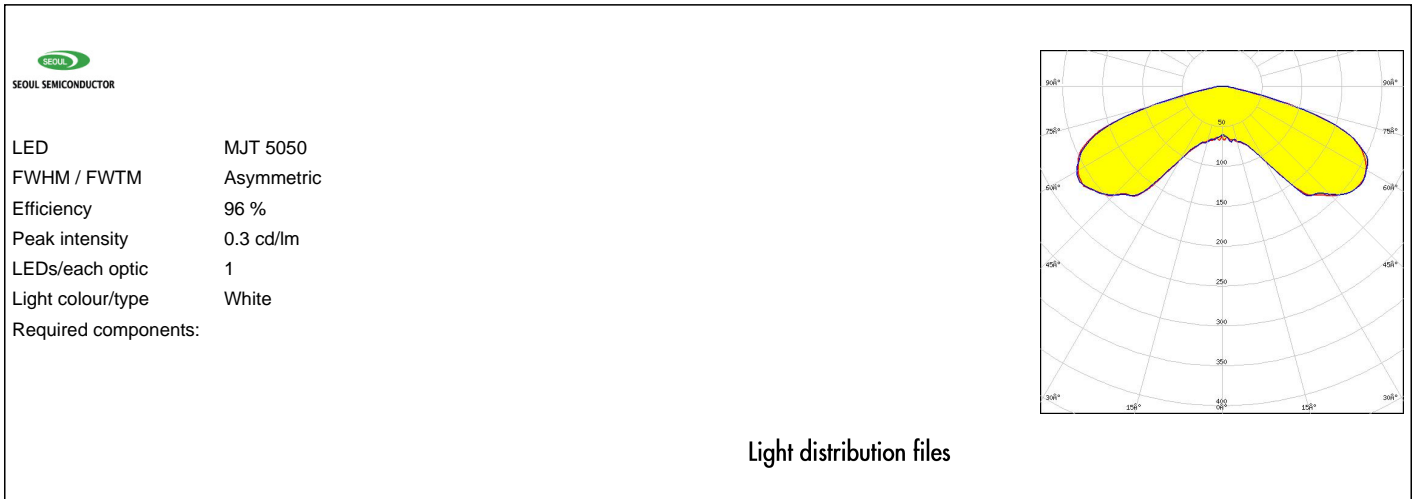
LED LH502D
FWHM / FWTM 145.0 + 144.0° / 158.0°
Efficiency 79 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



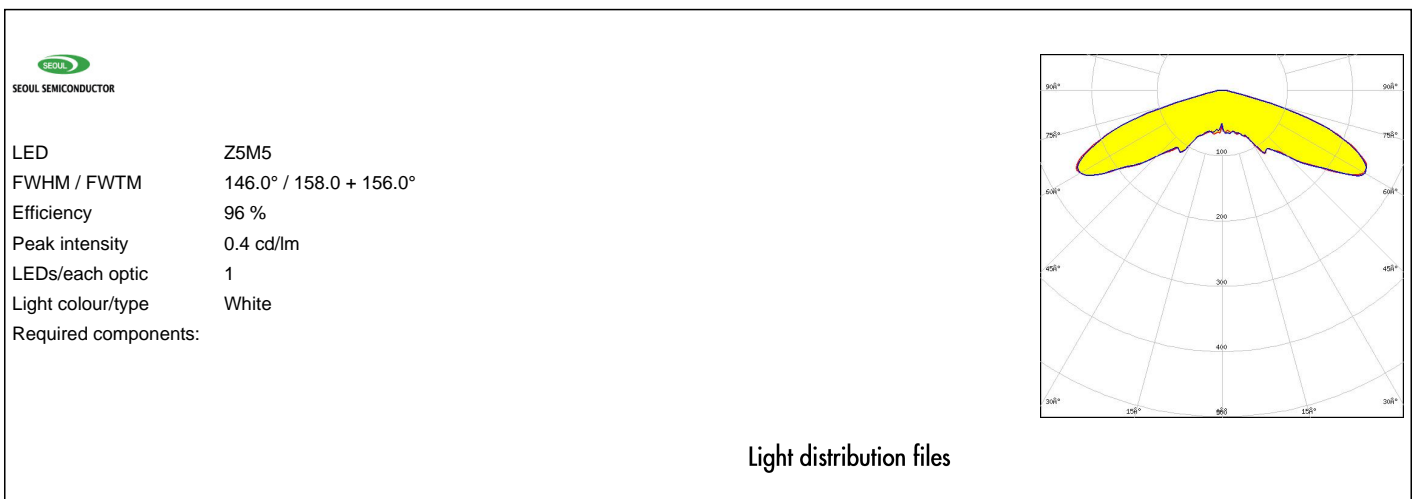
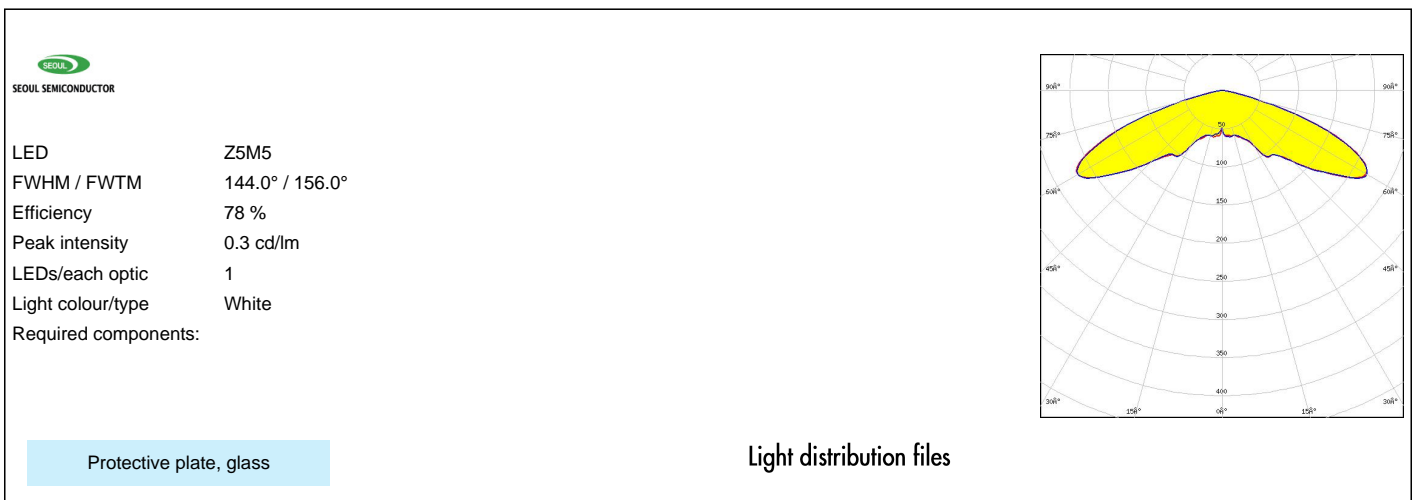
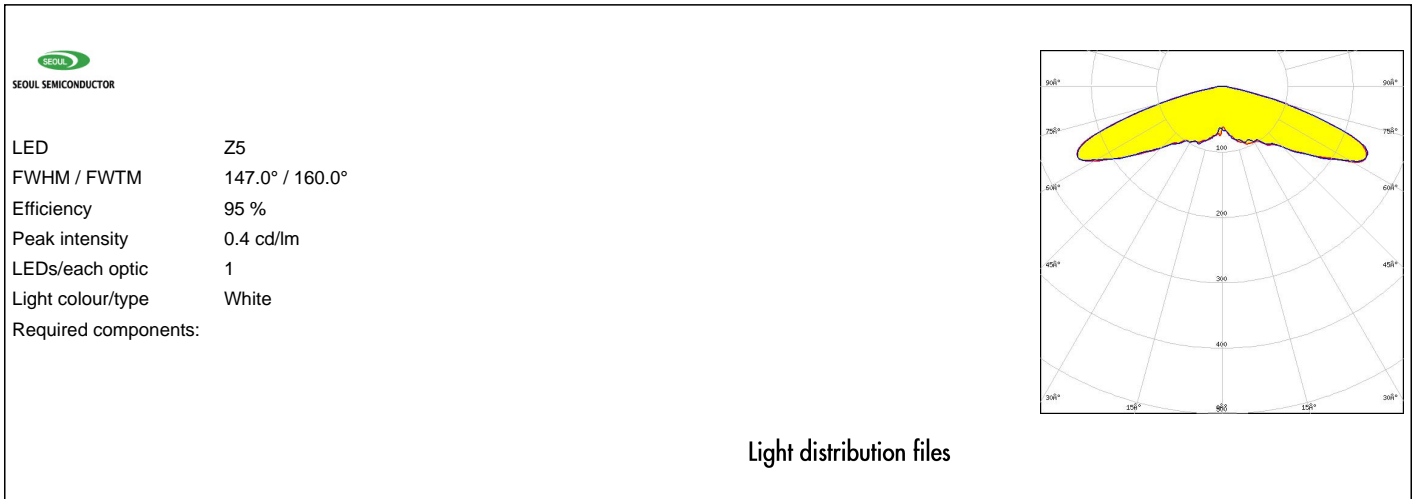
Protective plate, glass

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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