

SPORT-2X2-S1

~10° spot beam.

SPECIFICATION:

Dimensions	50.0 x 50.0
Height	16 mm
Fastening	screw
ROHS compliant	yes ⓘ

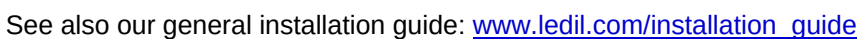
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
SPORT-2X2-S1	Multi-lens	PMMA	clear		



ORDERING INFORMATION:

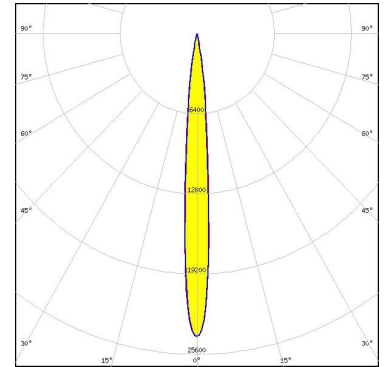
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17991_SPORT-2X2-S1 » Box size: 480 x 280 x 300 mm	512	128	32	10.8



OPTICAL RESULTS (MEASURED):



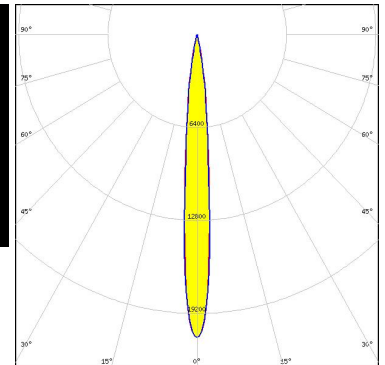
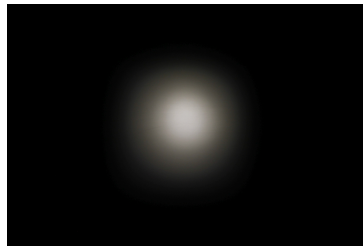
LED XP-G4
 FWHM / FWTM 9.0° / 20.0°
 Efficiency 96 %
 Peak intensity 24.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON HL2X
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 94 %
 Peak intensity 20.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

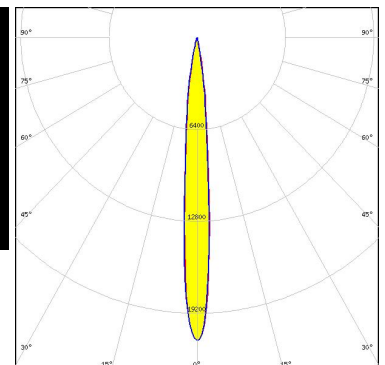
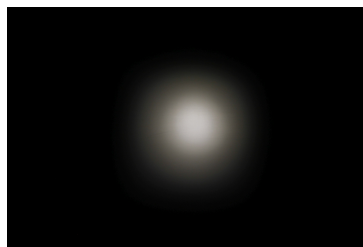


Protective plate, glass

Light distribution files



LED LUXEON HL2X
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 97 %
 Peak intensity 21.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

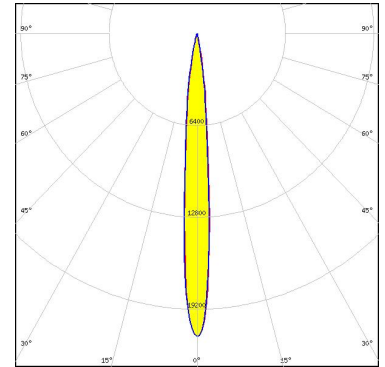


Light distribution files

OPTICAL RESULTS (MEASURED):



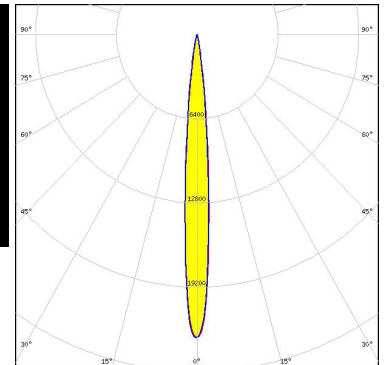
LED LUXEON HL2X
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 97 %
 Peak intensity 21.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



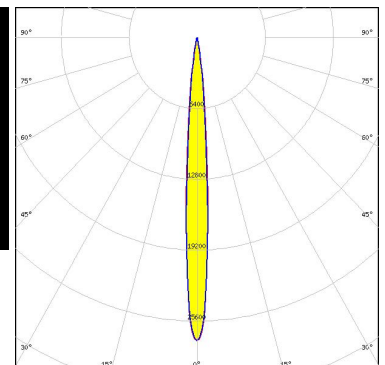
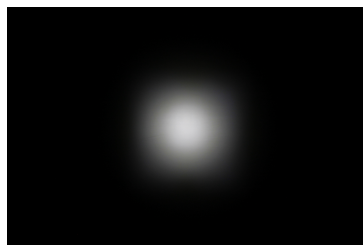
LED OSCONIQ C 3030
 FWHM / FWTM 9.0° / 19.0°
 Efficiency 96 %
 Peak intensity 23.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 9.0° / 18.0°
 Efficiency 97 %
 Peak intensity 27.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

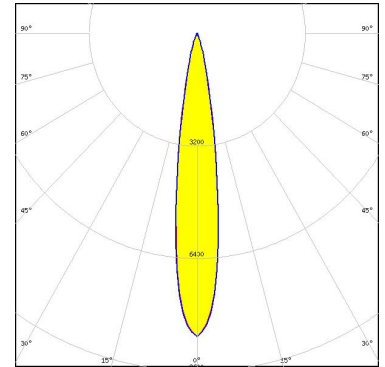


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED J Series 5050 6V P Class
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 95 %
 Peak intensity 8.6 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



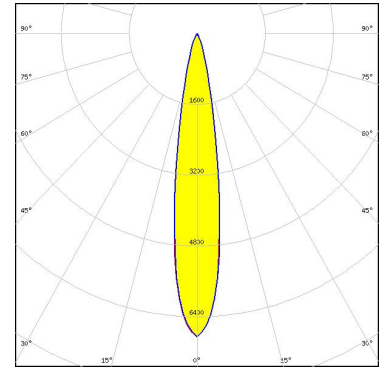
OPTICAL RESULTS (SIMULATED):



LED J Series 5050B 6V K Class
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 87 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

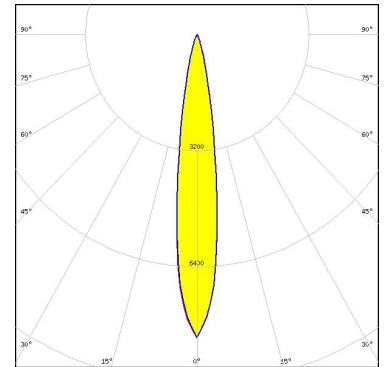
Light distribution files



LED J Series 5050C 6V E Class
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 90 %
 Peak intensity 8.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

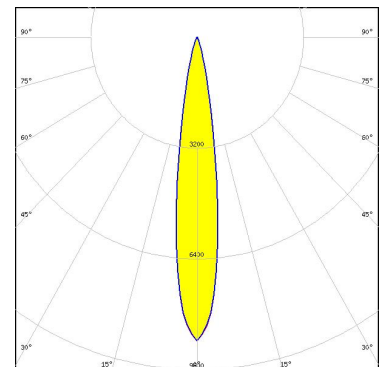
Protective plate, glass

Light distribution files



LED J Series 5050C 6V E Class
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 96 %
 Peak intensity 8.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



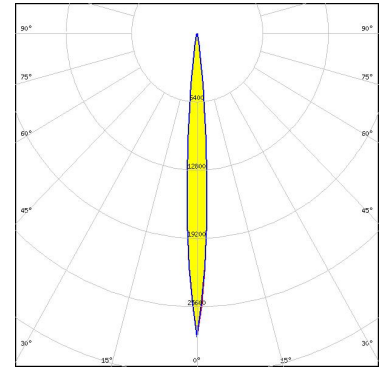
OPTICAL RESULTS (SIMULATED):



LED XD16
FWHM / FWTM 8.0° / 16.0°
Efficiency 87 %
Peak intensity 28.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

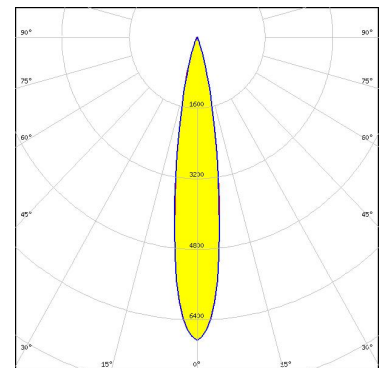
Light distribution files



LED XHP35.2 HD
FWHM / FWTM 18.0° / 34.0°
Efficiency 86 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

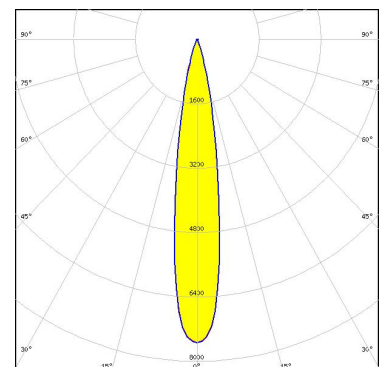
Protective plate, glass

Light distribution files



LED XHP35.2 HD
FWHM / FWTM 16.0° / 34.0°
Efficiency 95 %
Peak intensity 7.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



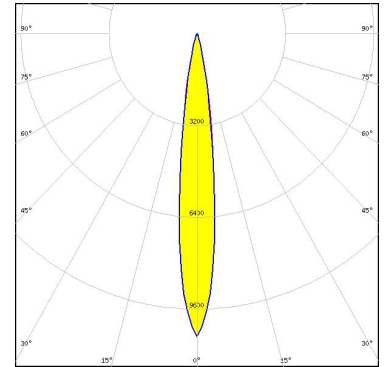
OPTICAL RESULTS (SIMULATED):



LED XHP35.2 HI
FWHM / FWTM 14.0° / 28.0°
Efficiency 87 %
Peak intensity 10.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

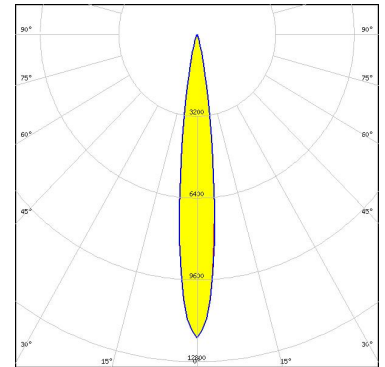
Protective plate, glass

Light distribution files



LED XHP35.2 HI
FWHM / FWTM 14.0° / 26.0°
Efficiency 95 %
Peak intensity 11.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

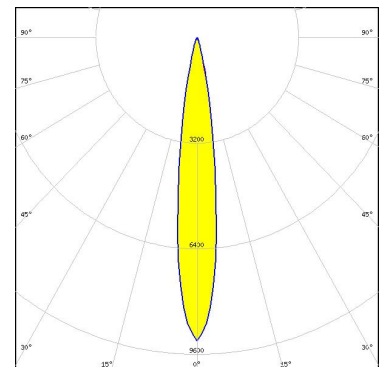
Light distribution files



LED XHP50.3 HI
FWHM / FWTM 14.0° / 28.0°
Efficiency 87 %
Peak intensity 9.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

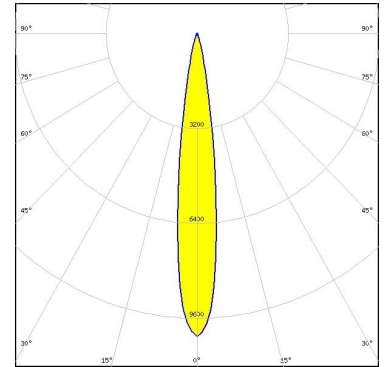
Light distribution files



OPTICAL RESULTS (SIMULATED):



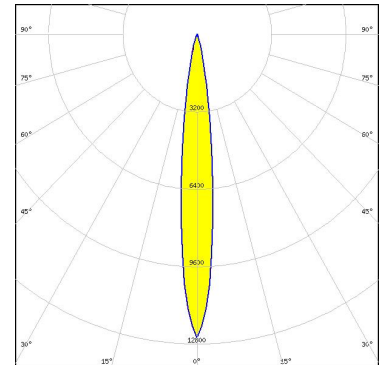
LED XHP50.3 HI
FWHM / FWTM 14.0° / 28.0°
Efficiency 95 %
Peak intensity 10.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



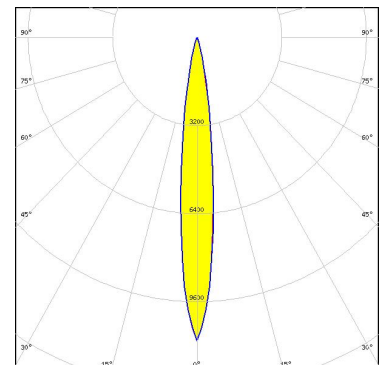
LED XM-L3
FWHM / FWTM 12.0° / 26.0°
Efficiency 95 %
Peak intensity 12.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XM-L3
FWHM / FWTM 12.0° / 28.0°
Efficiency 87 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Protective plate, glass

Light distribution files

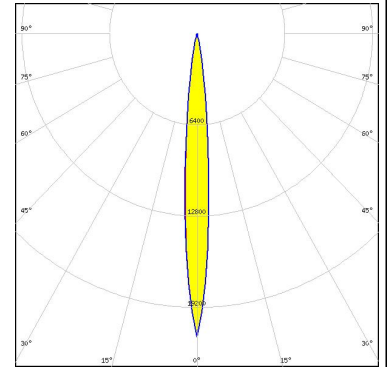
OPTICAL RESULTS (SIMULATED):



LED XP-G2
FWHM / FWTM 10.0° / 20.0°
Efficiency 90 %
Peak intensity 21.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

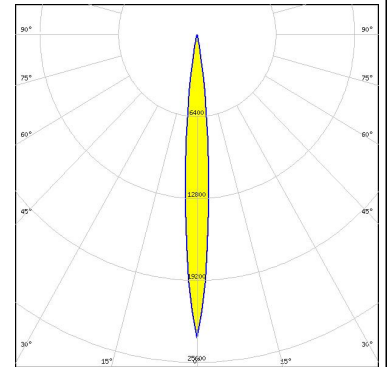
Light distribution files



LED XP-G2 HE
FWHM / FWTM 10.0° / 20.0°
Efficiency 91 %
Peak intensity 23.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

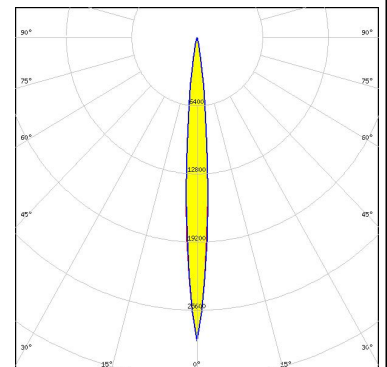
Protective plate, glass

Light distribution files



LED XP-G2 HE
FWHM / FWTM 8.0° / 18.0°
Efficiency 95 %
Peak intensity 28.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



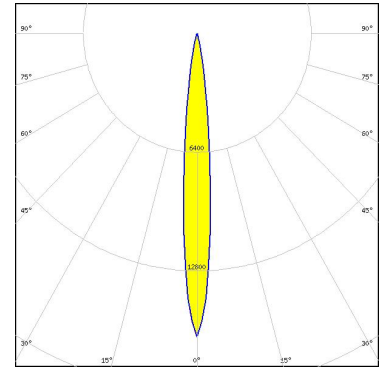
OPTICAL RESULTS (SIMULATED):



LED XP-G3
FWHM / FWTM 10.0° / 22.0°
Efficiency 86 %
Peak intensity 16.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

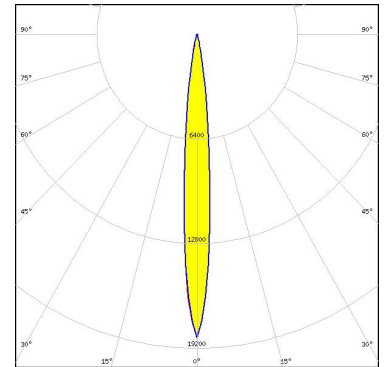
Protective plate, glass

Light distribution files



LED XP-G3
FWHM / FWTM 10.0° / 22.0°
Efficiency 95 %
Peak intensity 18.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

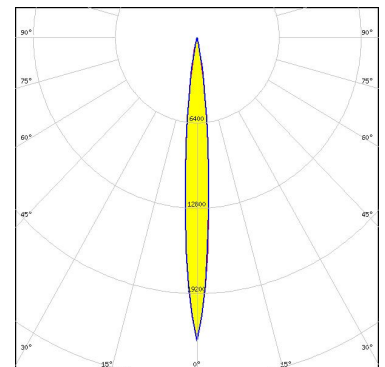
Light distribution files



LED XP-G4
FWHM / FWTM 10.0° / 20.0°
Efficiency 90 %
Peak intensity 22.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

Light distribution files



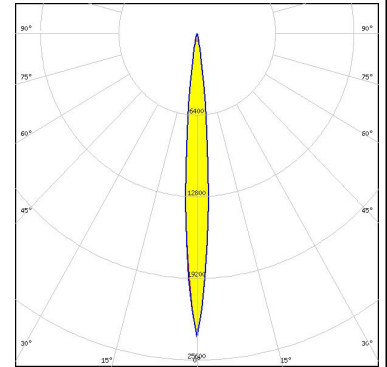
OPTICAL RESULTS (SIMULATED):



LED XP-G4 HI
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 87 %
 Peak intensity 23.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

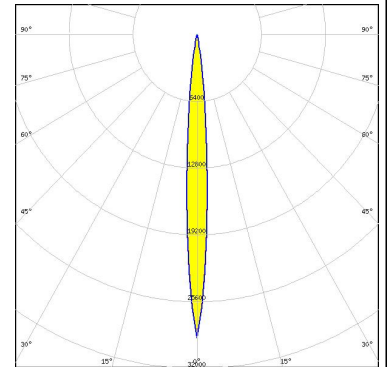
Protective plate, glass

Light distribution files



LED XP-G4 HI
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 95 %
 Peak intensity 29.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

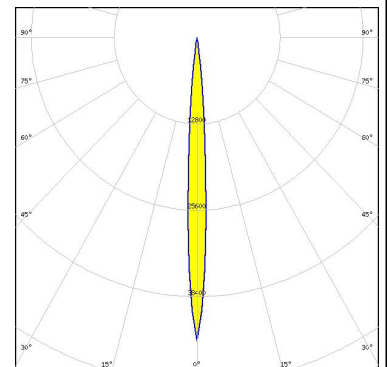
Light distribution files



LED XP-GR
 FWHM / FWTM 8.0° / 14.0°
 Efficiency 87 %
 Peak intensity 45 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

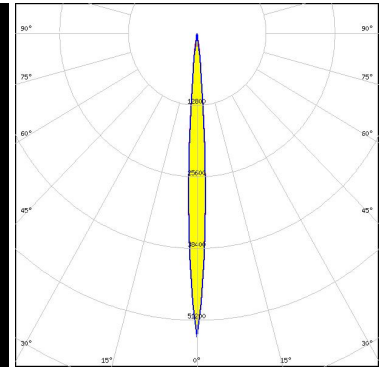
Light distribution files



OPTICAL RESULTS (SIMULATED):



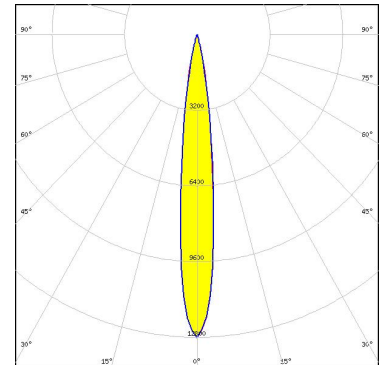
LED XP-GR
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 95 %
 Peak intensity 54.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-L HD
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 90 %
 Peak intensity 12.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

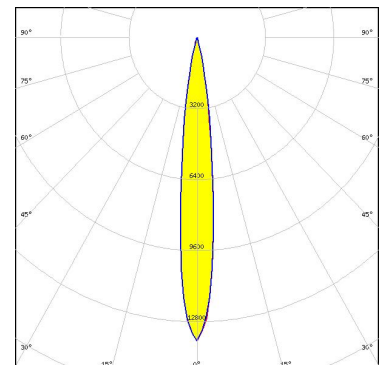


Protective plate, glass

Light distribution files



LED XP-L HD
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 95 %
 Peak intensity 13.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

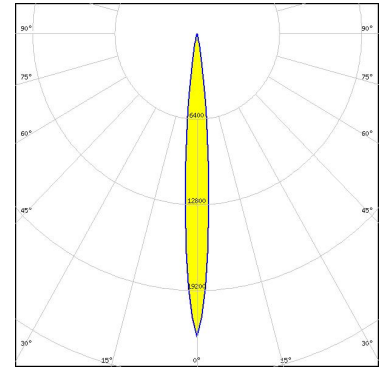
OPTICAL RESULTS (SIMULATED):



LED XP-L HI
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 87 %
 Peak intensity 22.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

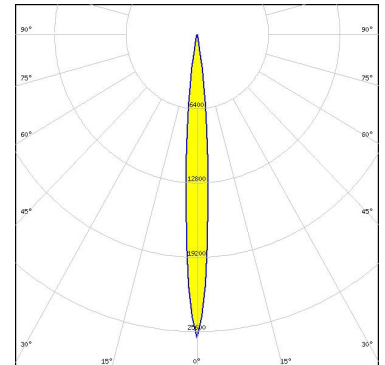
Protective plate, glass

Light distribution files



LED XP-L HI
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 96 %
 Peak intensity 26.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

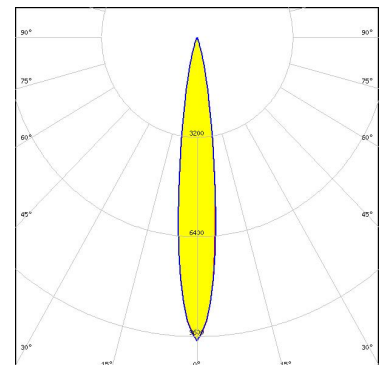
Light distribution files



LED XP-L2
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 86 %
 Peak intensity 9.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

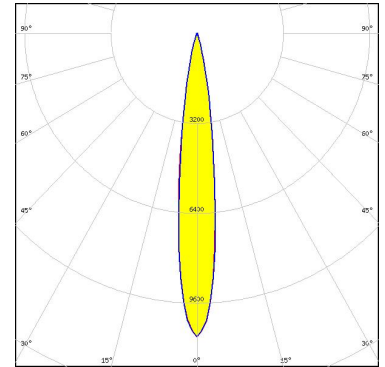
Light distribution files



OPTICAL RESULTS (SIMULATED):



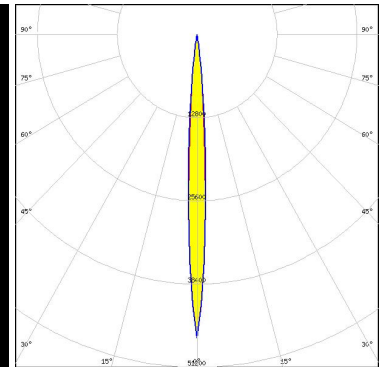
LED XP-L2
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 95 %
 Peak intensity 10.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



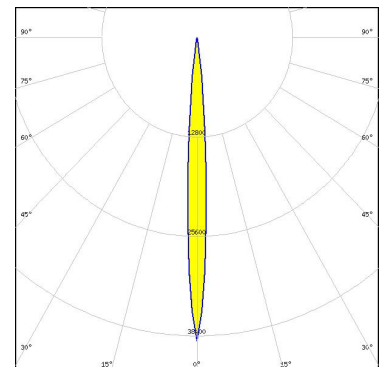
LED XP-LR
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 95 %
 Peak intensity 46.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-LR
 FWHM / FWTM 8.0° / 16.0°
 Efficiency 88 %
 Peak intensity 39.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Protective plate, glass

Light distribution files

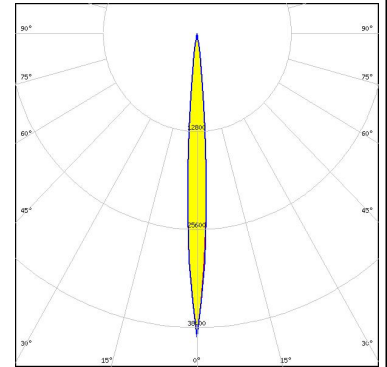
OPTICAL RESULTS (SIMULATED):



LED XP-P
 FWHM / FWTM 8.0° / 14.0°
 Efficiency 86 %
 Peak intensity 39.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

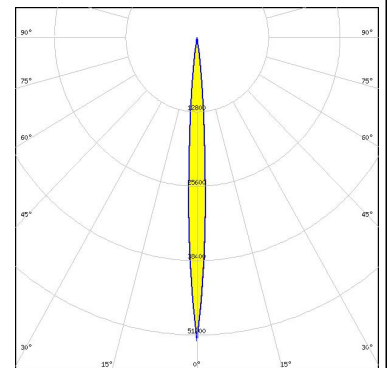
Protective plate, glass

Light distribution files



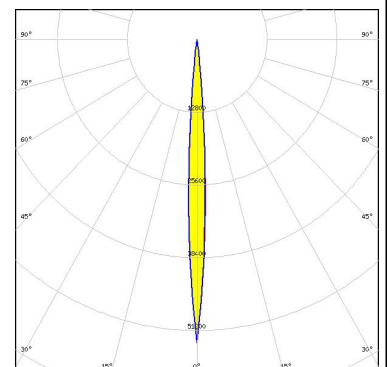
LED XP-P
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 95 %
 Peak intensity 52.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



LED XQ-E HI
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 96 %
 Peak intensity 53.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



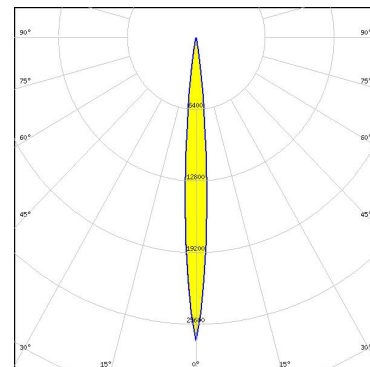
OPTICAL RESULTS (SIMULATED):



LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 90 %
 Peak intensity 27.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

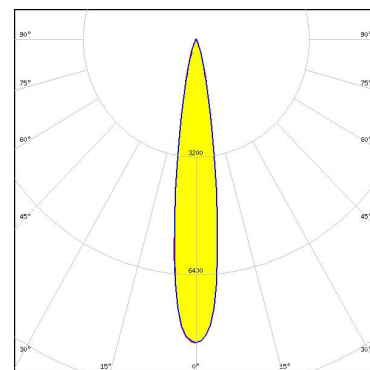
Protective plate, glass

Light distribution files



LED LUXEON 5050 HE
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 95 %
 Peak intensity 8.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

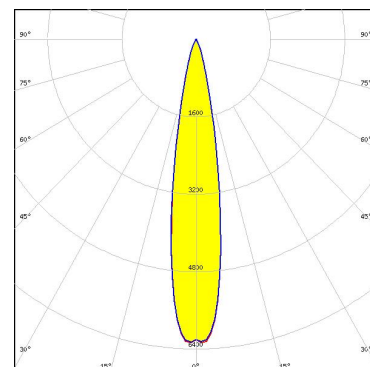
Light distribution files



LED LUXEON 5050 HE Plus
 FWHM / FWTM 18.0° / 36.0°
 Efficiency 90 %
 Peak intensity 6.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

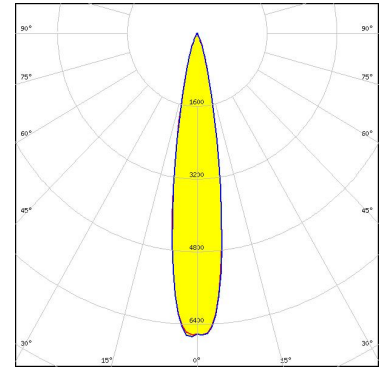
Light distribution files



OPTICAL RESULTS (SIMULATED):



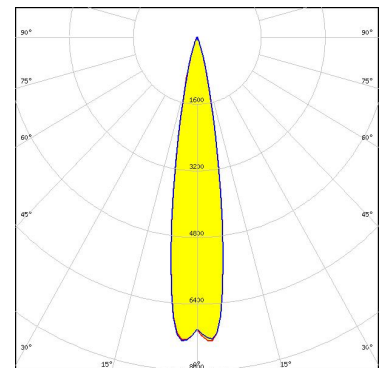
LED LUXEON 5050 HE Plus
 FWHM / FWTM 18.0° / 36.0°
 Efficiency 96 %
 Peak intensity 6.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



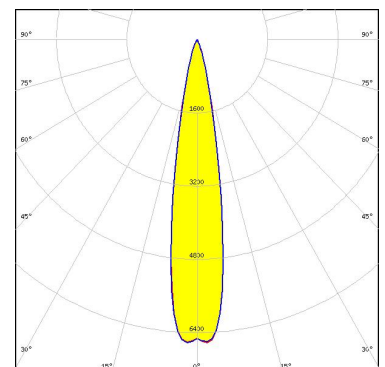
LED LUXEON 5050 Round LES
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 95 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 5050 Round LES
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 87 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



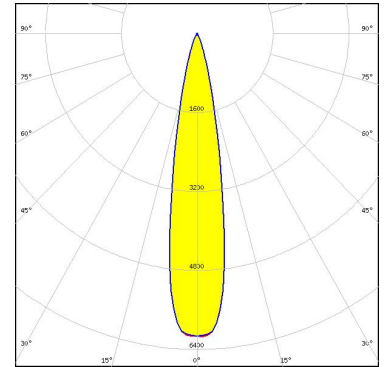
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



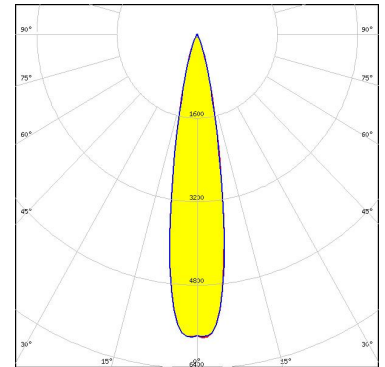
LED LUXEON 5050 Square LES
 FWHM / FWTM 20.0° / 36.0°
 Efficiency 95 %
 Peak intensity 6.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 5050 Square LES
 FWHM / FWTM 20.0° / 36.0°
 Efficiency 90 %
 Peak intensity 5.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

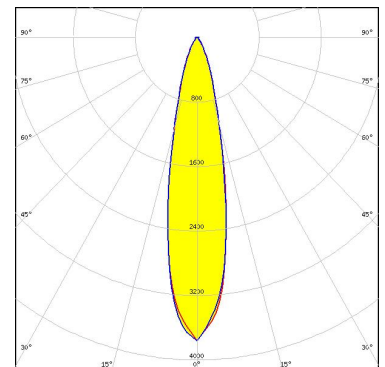


Light distribution files

Protective plate, glass



LED LUXEON 7070
 FWHM / FWTM 22.0° / 48.0°
 Efficiency 93 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

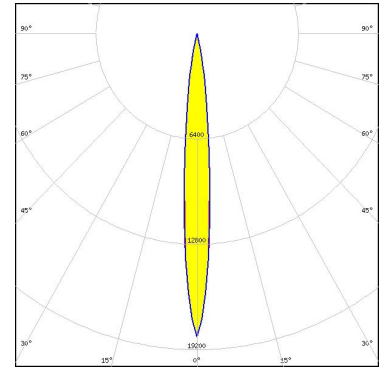
OPTICAL RESULTS (SIMULATED):



LED LUXEON HL2X
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 87 %
 Peak intensity 18.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

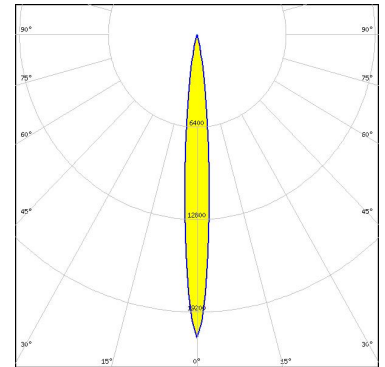
Protective plate, glass

Light distribution files



LED LUXEON HL2X
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 95 %
 Peak intensity 21 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

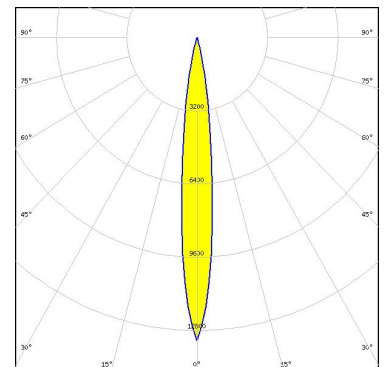
Light distribution files



LED LUXEON HL2X-D
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 88 %
 Peak intensity 13.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

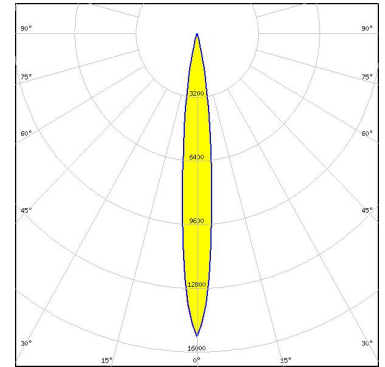
Light distribution files



OPTICAL RESULTS (SIMULATED):



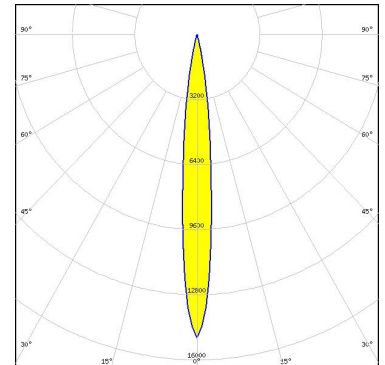
LED LUXEON HL2X-D
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 96 %
 Peak intensity 15.2 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON HL2X-E
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 89 %
 Peak intensity 14.9 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

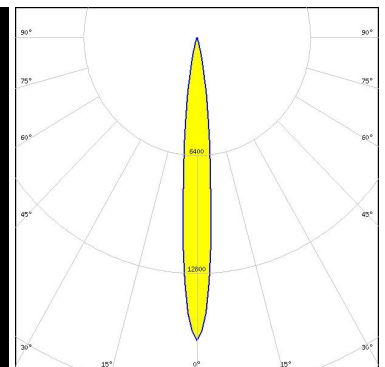


Protective plate, glass

Light distribution files



LED LUXEON HL2X-E
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 96 %
 Peak intensity 16.5 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:

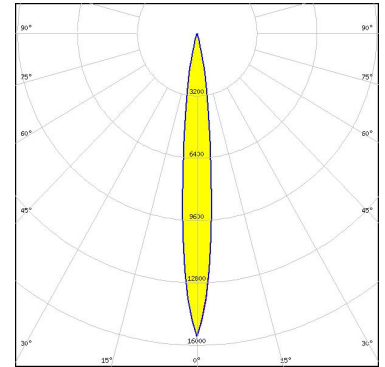


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED LUXEON HL2X-P
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 95 %
 Peak intensity 15.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



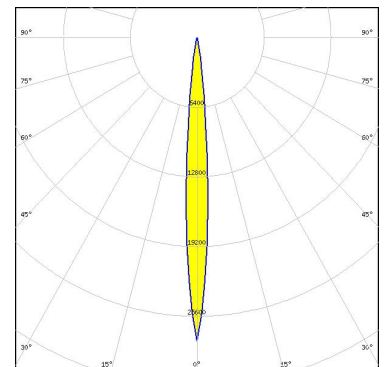
LED LUXEON HL2X-V
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 90 %
 Peak intensity 18.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

Light distribution files



LED LUXEON HL2Z
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 95 %
 Peak intensity 27.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

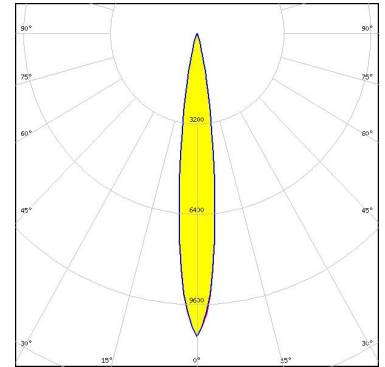
OPTICAL RESULTS (SIMULATED):



LED	LUXEON HL4X
FWHM / FWTM	14.0° / 28.0°
Efficiency	88 %
Peak intensity	10.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

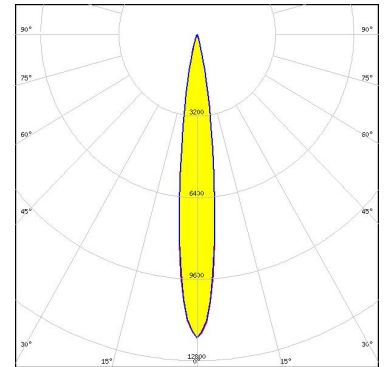
Protective plate, glass

Light distribution files



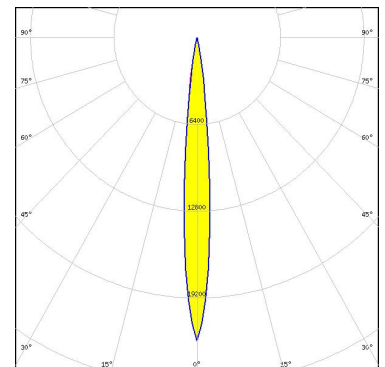
LED	LUXEON HL4X
FWHM / FWTM	14.0° / 28.0°
Efficiency	96 %
Peak intensity	11.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files



LED	LUXEON HL4Z
FWHM / FWTM	10.0° / 20.0°
Efficiency	96 %
Peak intensity	22.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files



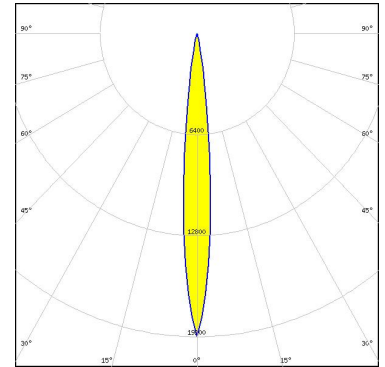
OPTICAL RESULTS (SIMULATED):



LED LUXEON HL4Z
FWHM / FWTM 10.0° / 20.0°
Efficiency 88 %
Peak intensity 19.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

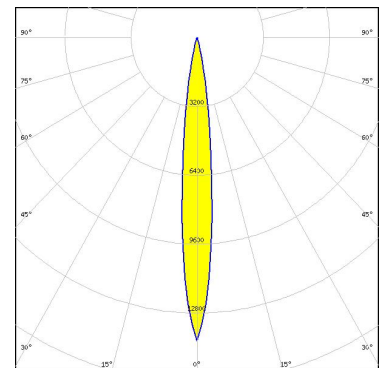
Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM 12.0° / 24.0°
Efficiency 88 %
Peak intensity 14.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

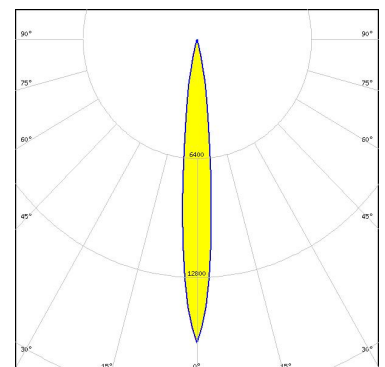
Protective plate, glass

Light distribution files

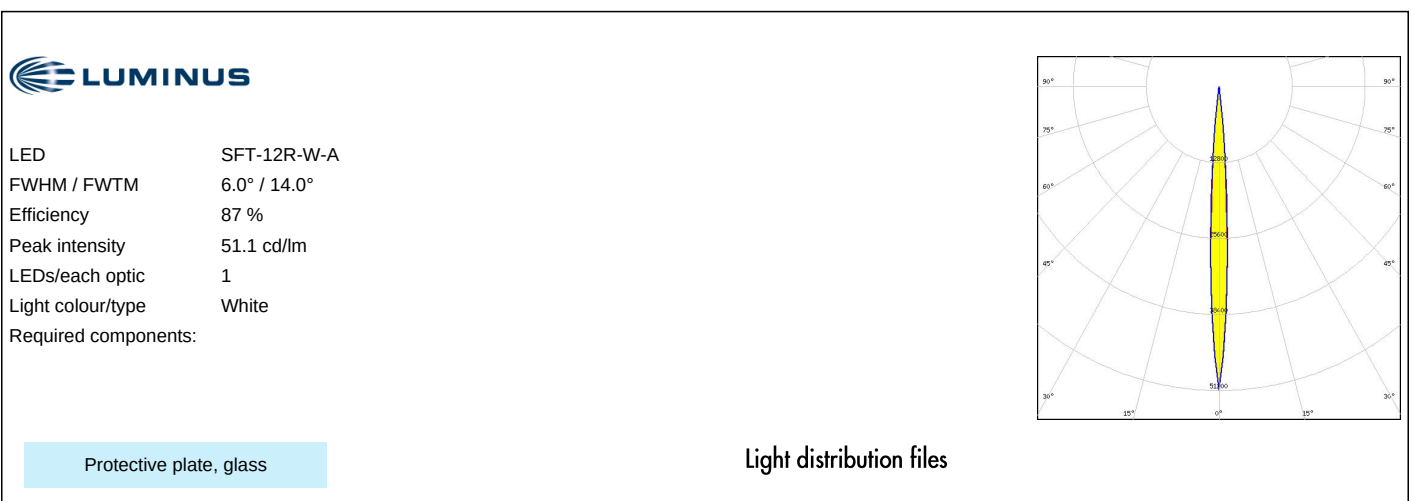
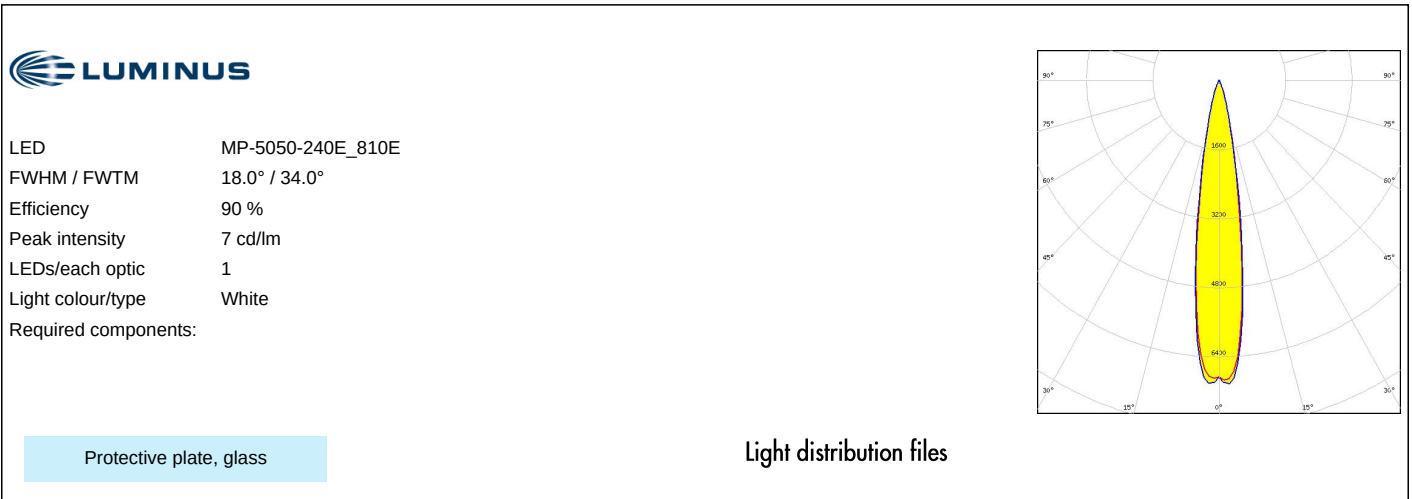


LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM 12.0° / 24.0°
Efficiency 96 %
Peak intensity 16.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



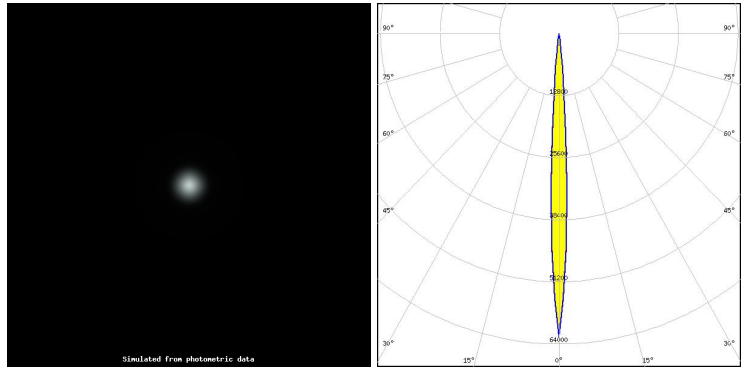
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):



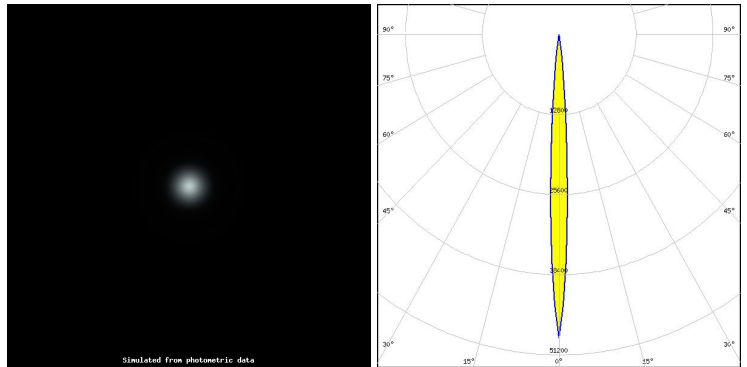
LED SFT-12R-W-A
 FWHM / FWTM 6.0° / 12.0°
 Efficiency 95 %
 Peak intensity 62.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



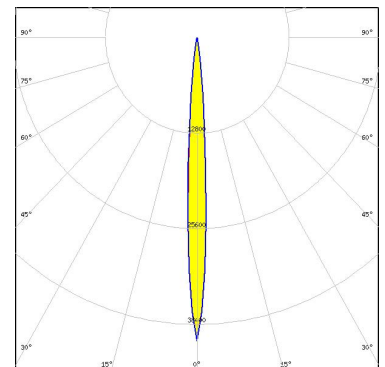
LED SFT-25R-W-A
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 95 %
 Peak intensity 48.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SFT-25R-W-A
 FWHM / FWTM 8.0° / 14.0°
 Efficiency 87 %
 Peak intensity 40.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Protective plate, glass

Light distribution files

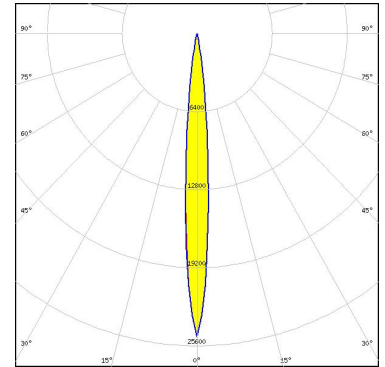
OPTICAL RESULTS (SIMULATED):



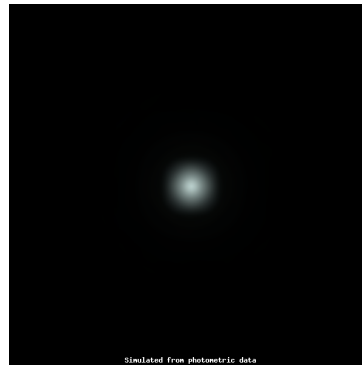
LED SFT-40 Gen2
 FWHM / FWTM 8.0° / 20.0°
 Efficiency 88 %
 Peak intensity 24.9 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

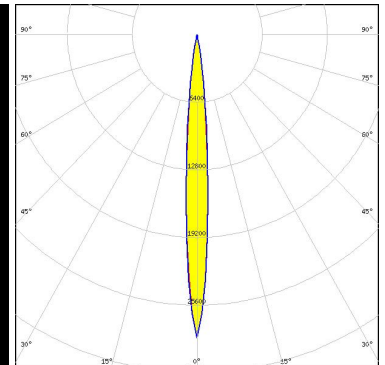
Light distribution files



LED SFT-40 Gen2
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 95 %
 Peak intensity 28.7 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:

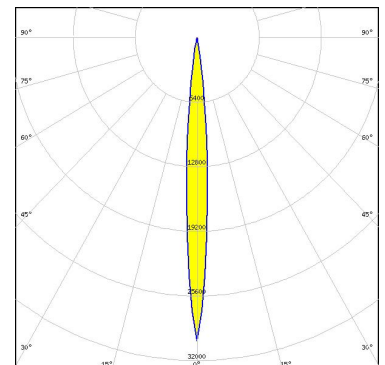


Light distribution files



LED SFT-40-WCS
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 95 %
 Peak intensity 30.1 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:

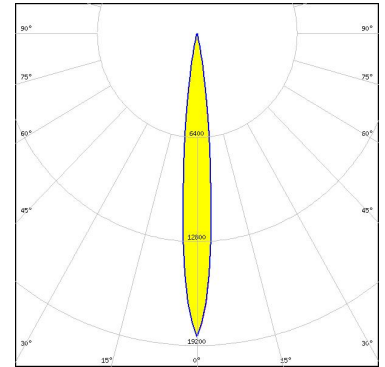
Light distribution files



OPTICAL RESULTS (SIMULATED):



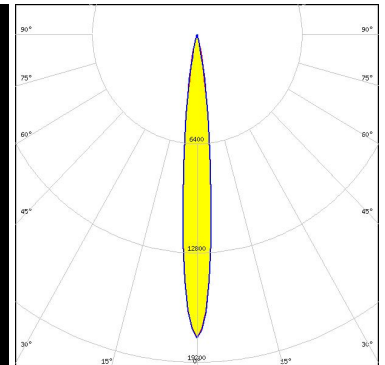
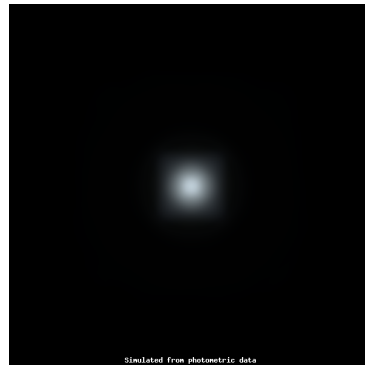
LED SFT-70X-WCS
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 96 %
 Peak intensity 18.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



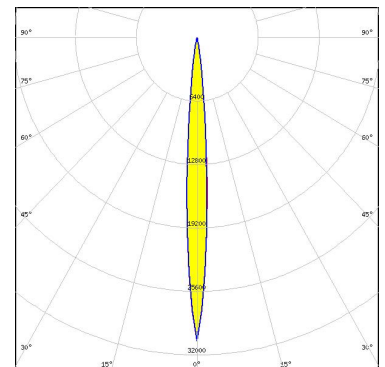
LED SFT-70X-WES-Gen2
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 96 %
 Peak intensity 17.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-20 Gen1
 FWHM / FWTM 8.0° / 16.0°
 Efficiency 89 %
 Peak intensity 30.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



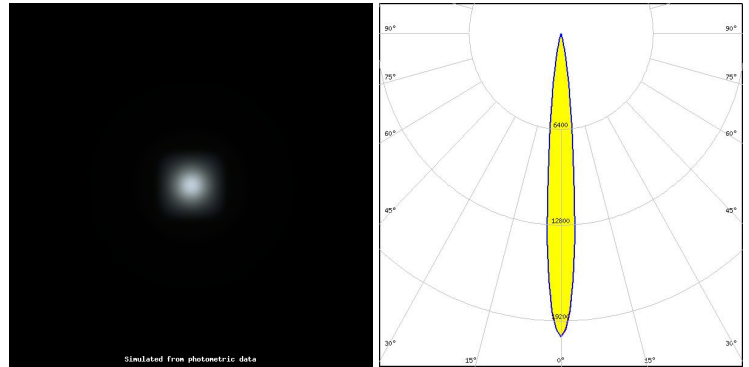
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



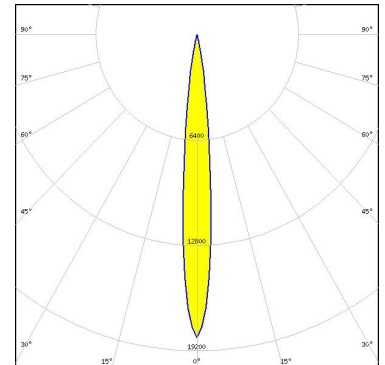
LED SST-20F-W
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 96 %
 Peak intensity 20.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-20F-W
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 89 %
 Peak intensity 18.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

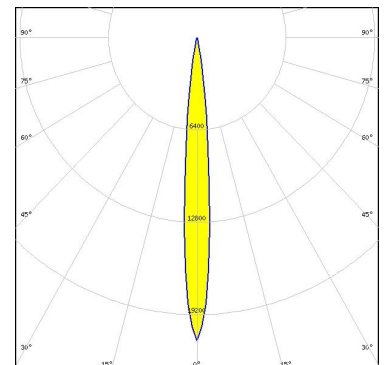


Protective plate, glass

Light distribution files



LED SST-25-W
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 88 %
 Peak intensity 21 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



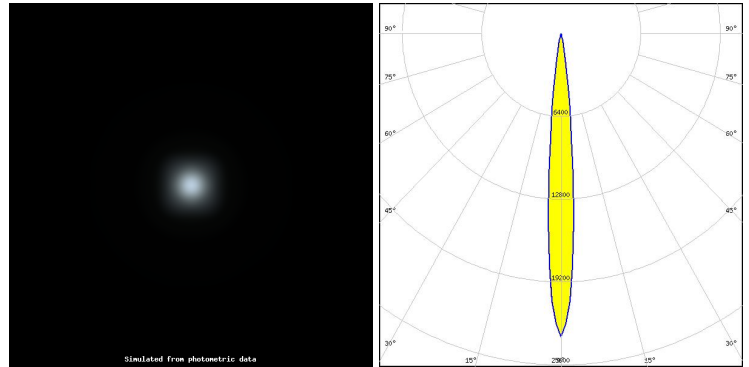
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



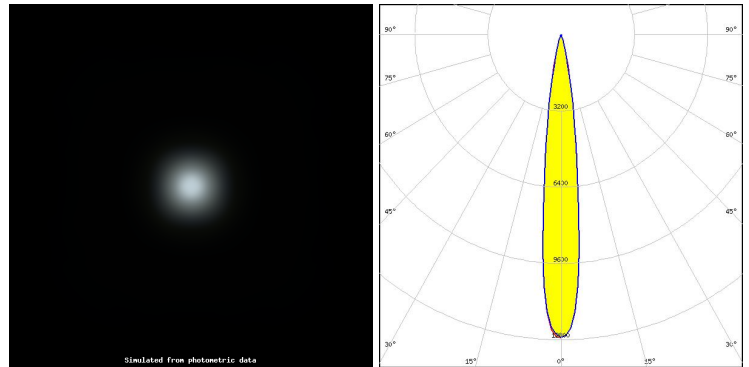
LED SST-25-W
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 96 %
 Peak intensity 23.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



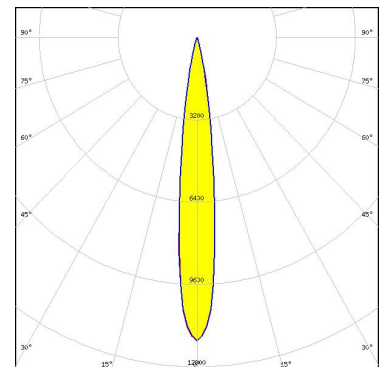
LED SST-36F-W
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 96 %
 Peak intensity 12.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-36F-W
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 89 %
 Peak intensity 11.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Protective plate, glass

Light distribution files

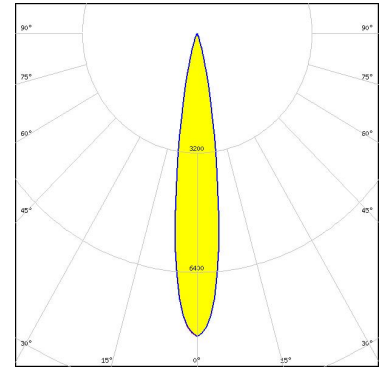
OPTICAL RESULTS (SIMULATED):



LED SST-70X-WCS
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 87 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

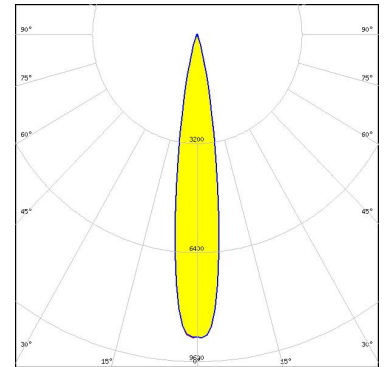
Protective plate, glass

Light distribution files



LED SST-70X-WCS
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 96 %
 Peak intensity 8.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

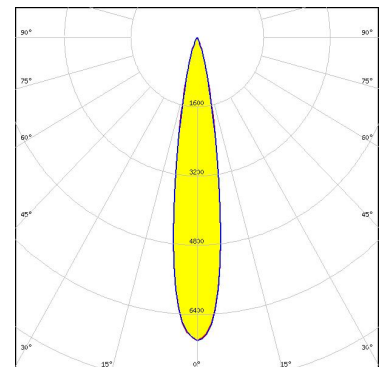
Light distribution files



LED NFMW486AM-V2
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 88 %
 Peak intensity 7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

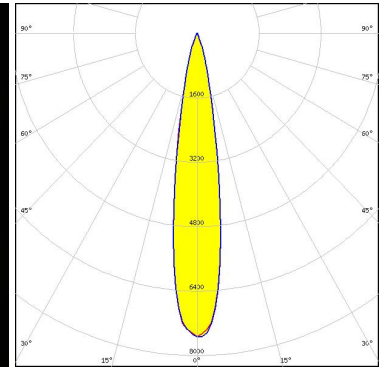
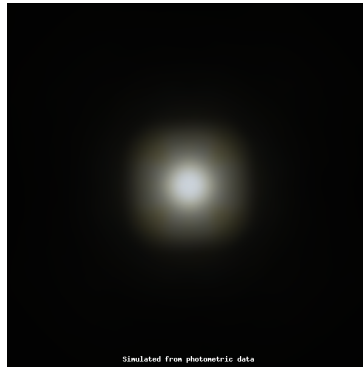
Light distribution files



OPTICAL RESULTS (SIMULATED):



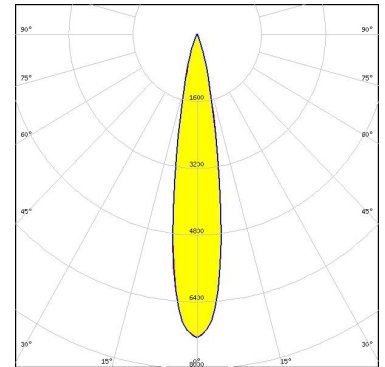
LED NFMW486AM-V2
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 96 %
 Peak intensity 7.6 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



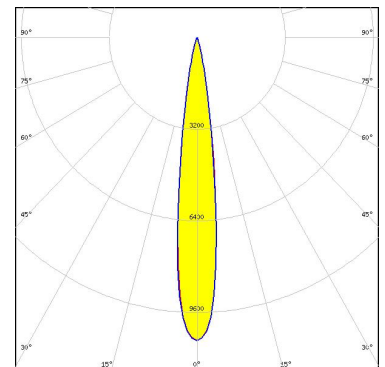
LED NFMW48xA
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 95 %
 Peak intensity 7.3 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NV4WB35AM
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 87 %
 Peak intensity 10.6 cd/Im
 LEDs/each optic 1
 Light colour/type White
 Required components:



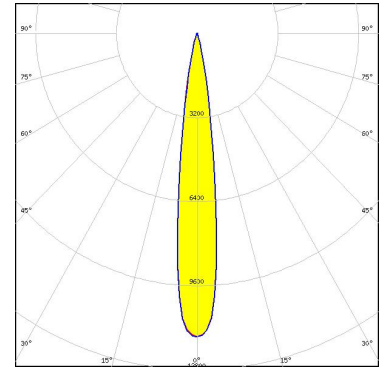
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



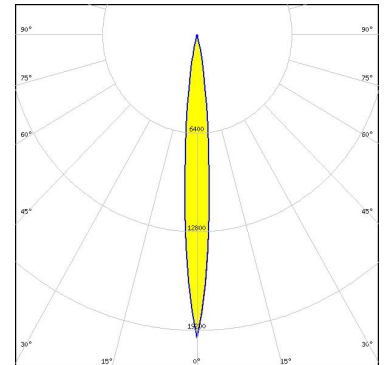
LED NV4WB35AM
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 96 %
 Peak intensity 11.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219D
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 90 %
 Peak intensity 19.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

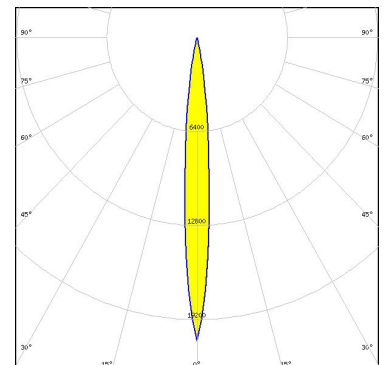


Protective plate, glass

Light distribution files



LED NVSW219F-V2
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 95 %
 Peak intensity 20.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

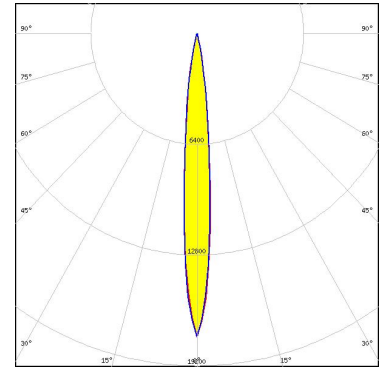
OPTICAL RESULTS (SIMULATED):



LED NVSW219F-V2
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 90 %
 Peak intensity 17.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

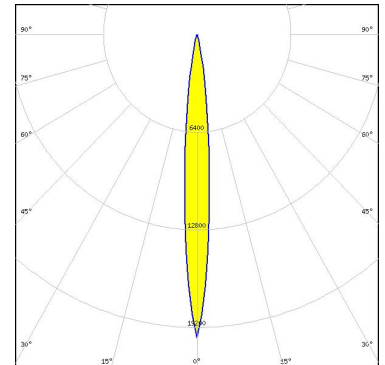
Light distribution files



LED NVSW219F-V2
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 95 %
 Peak intensity 19.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

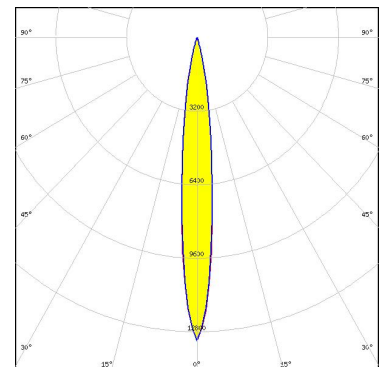
Protective plate, glass

Light distribution files



LED NVSW519A
 FWHM / FWTM 12.0° / 27.0°
 Efficiency 94 %
 Peak intensity 13.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



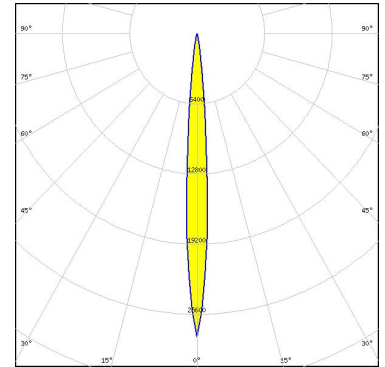
OPTICAL RESULTS (SIMULATED):



LED NVSxE21A
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 88 %
 Peak intensity 27.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

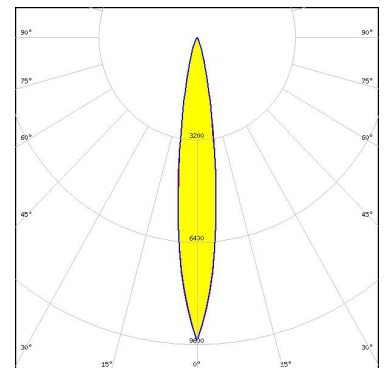
Protective plate, glass

Light distribution files



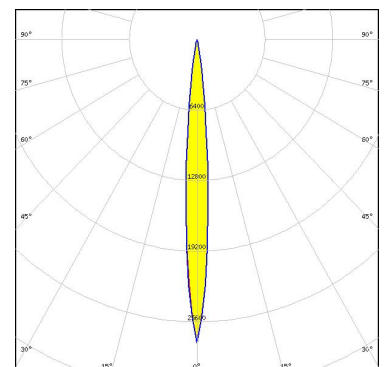
LED DURIS E 5050 (GW J9LHS1.4M)
 FWHM / FWTM 14.0° / 32.0°
 Efficiency 95 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:

Light distribution files



LED DURIS S5 (2 chip)
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 95 %
 Peak intensity 27.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

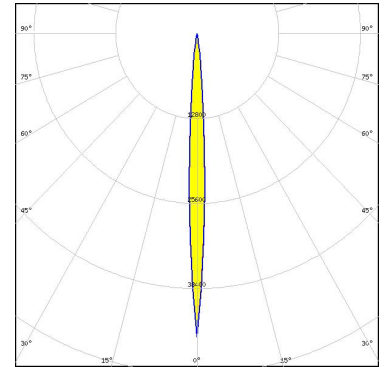
Light distribution files



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

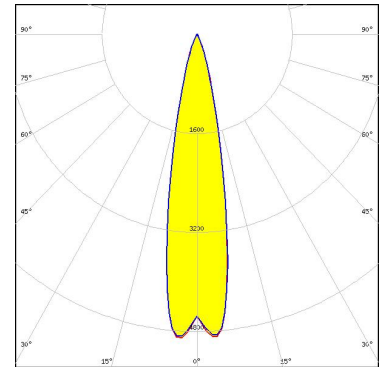
LED DURIS S5 (Single chip)
FWHM / FWTM 6.0° / 14.0°
Efficiency 95 %
Peak intensity 45.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED Duris S8
FWHM / FWTM 22.0° / 40.0°
Efficiency 87 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

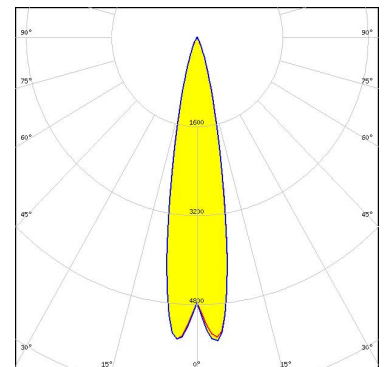


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED Duris S8
FWHM / FWTM 20.0° / 38.0°
Efficiency 95 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

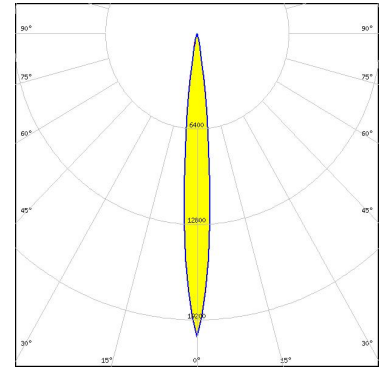
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 10.0° / 20.0°
Efficiency 87 %
Peak intensity 20.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

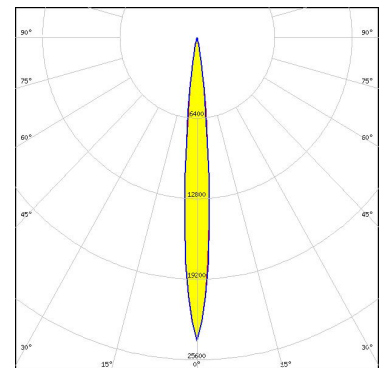
Light distribution files



OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 10.0° / 20.0°
Efficiency 96 %
Peak intensity 24.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

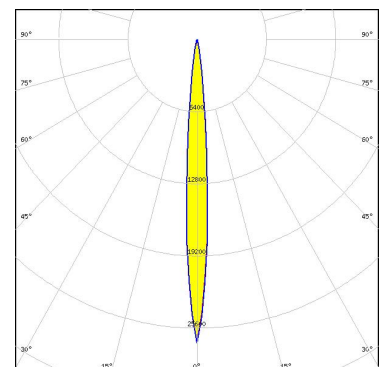


OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (2W) PUSRA1
FWHM / FWTM 8.0° / 18.0°
Efficiency 90 %
Peak intensity 26.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

Light distribution files



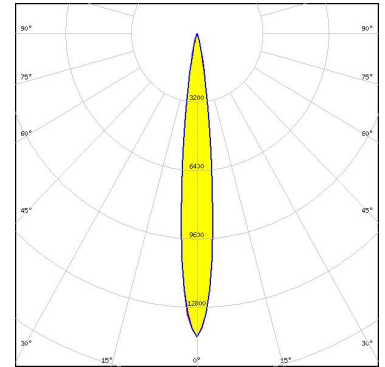
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (3W) PUSTA1
FWHM / FWTM 12.0° / 24.0°
Efficiency 87 %
Peak intensity 14.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

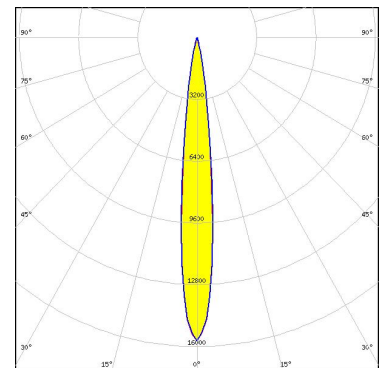
Light distribution files



OSRAM
Opto Semiconductors

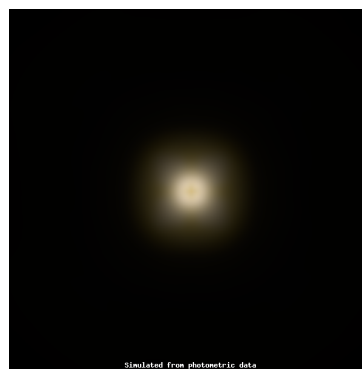
LED OSCONIQ P 3737 (3W) PUSTA1
FWHM / FWTM 12.0° / 24.0°
Efficiency 96 %
Peak intensity 15.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

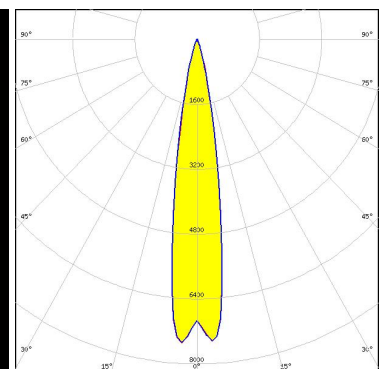


OSRAM
Opto Semiconductors

LED OSCONIQ S 5050 (Q9LR35)
FWHM / FWTM 18.0° / 32.0°
Efficiency 96 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



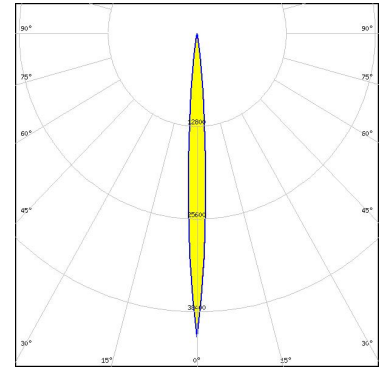
Light distribution files



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

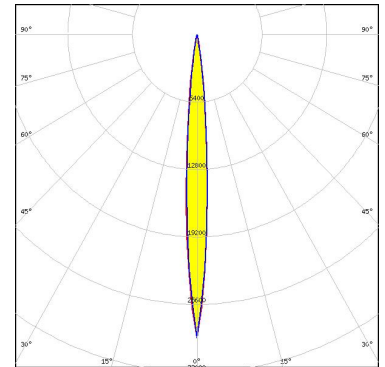
LED OSLON Optimal (GF CSSRML.24)
FWHM / FWTM 6.0° / 14.0°
Efficiency 92 %
Peak intensity 41.9 cd/lm
LEDs/each optic 1
Light colour/type Far Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

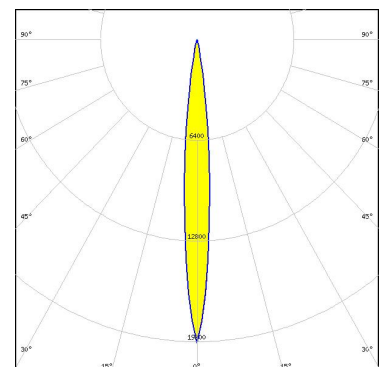
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 8.0° / 18.0°
Efficiency 95 %
Peak intensity 28.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 10.0° / 20.0°
Efficiency 86 %
Peak intensity 19.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Protective plate, glass

Light distribution files

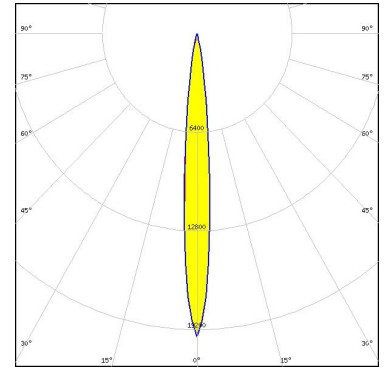
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LH351B
FWHM / FWTM 10.0° / 22.0°
Efficiency 87 %
Peak intensity 19.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

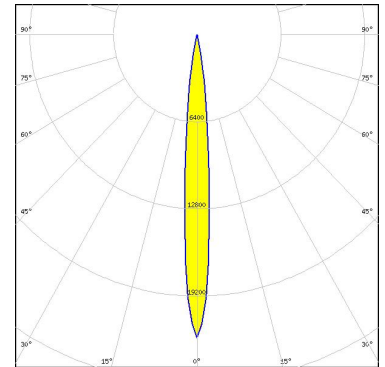
Light distribution files



SAMSUNG

LED LH351B
FWHM / FWTM 10.0° / 20.0°
Efficiency 96 %
Peak intensity 22.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

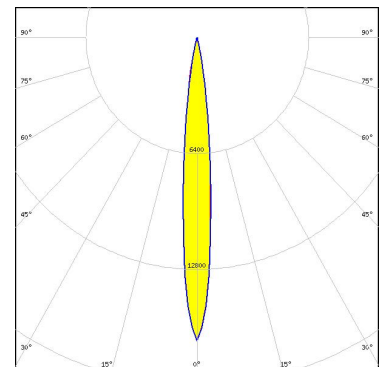


SAMSUNG

LED LH351C
FWHM / FWTM 10.0° / 22.0°
Efficiency 88 %
Peak intensity 16.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

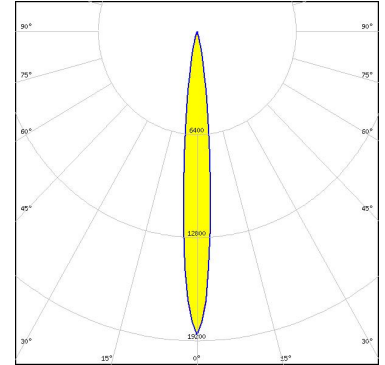
Light distribution files



OPTICAL RESULTS (SIMULATED):

SAMSUNG

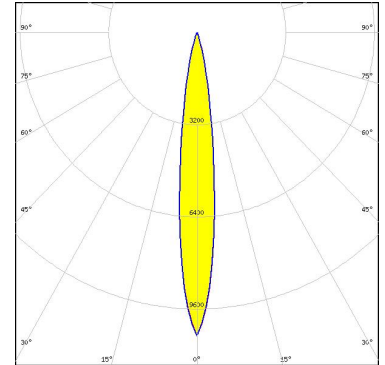
LED LH351C
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 96 %
 Peak intensity 18.8 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LH351D
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 90 %
 Peak intensity 10.5 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:

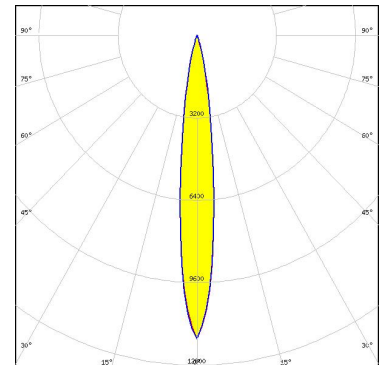


Light distribution files

Protective plate, glass

SAMSUNG

LED LH351D
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 95 %
 Peak intensity 11.8 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

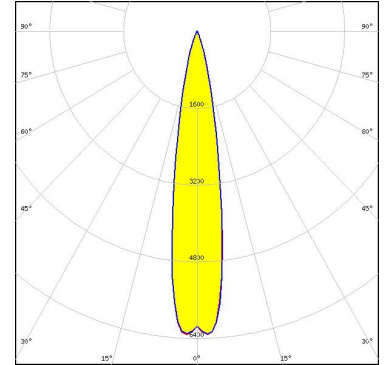
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LH502C
 FWHM / FWTM 18.0° / 35.0°
 Efficiency 90 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

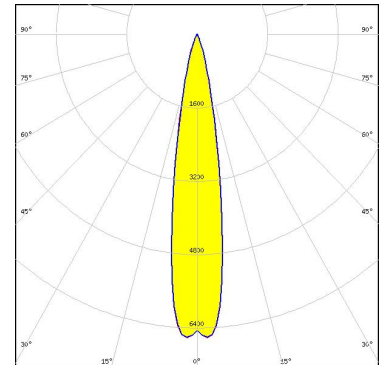
Light distribution files



SAMSUNG

LED LH502C
 FWHM / FWTM 18.0° / 36.0°
 Efficiency 95 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

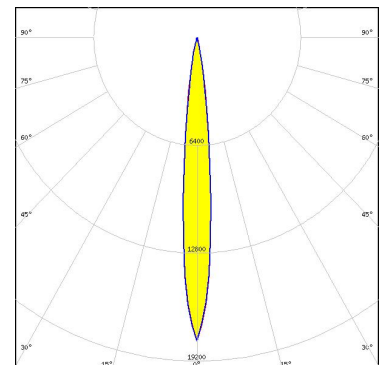
Light distribution files



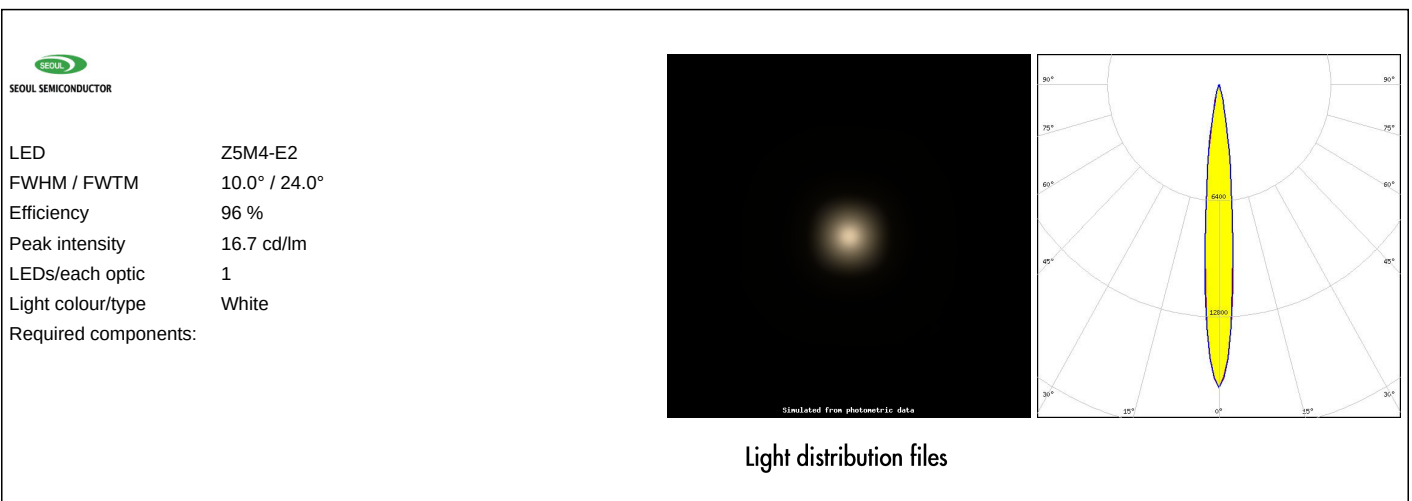
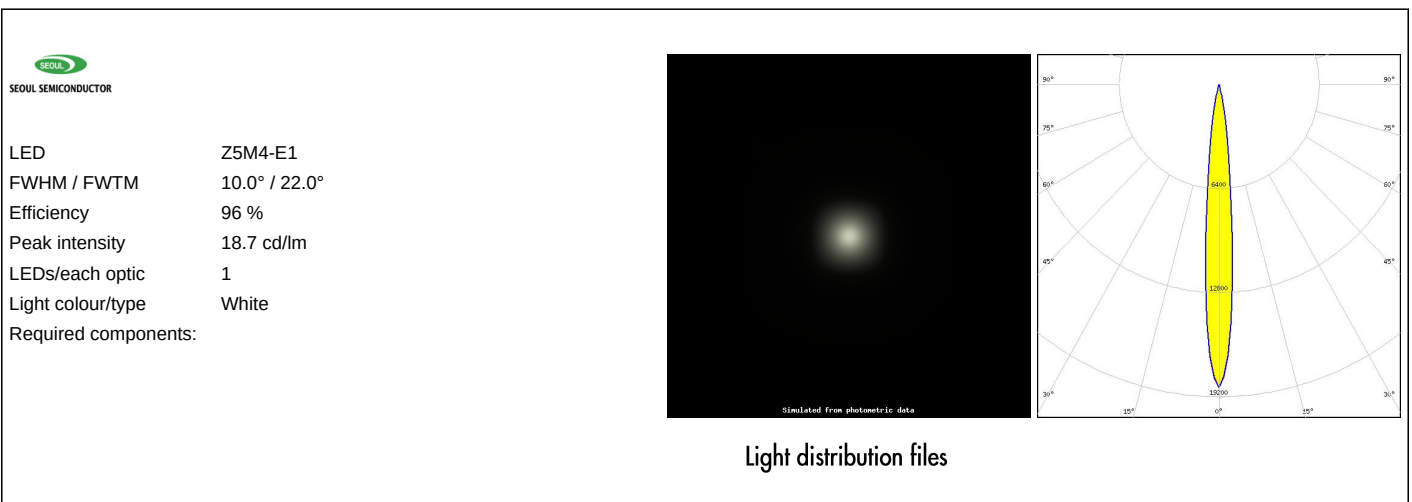
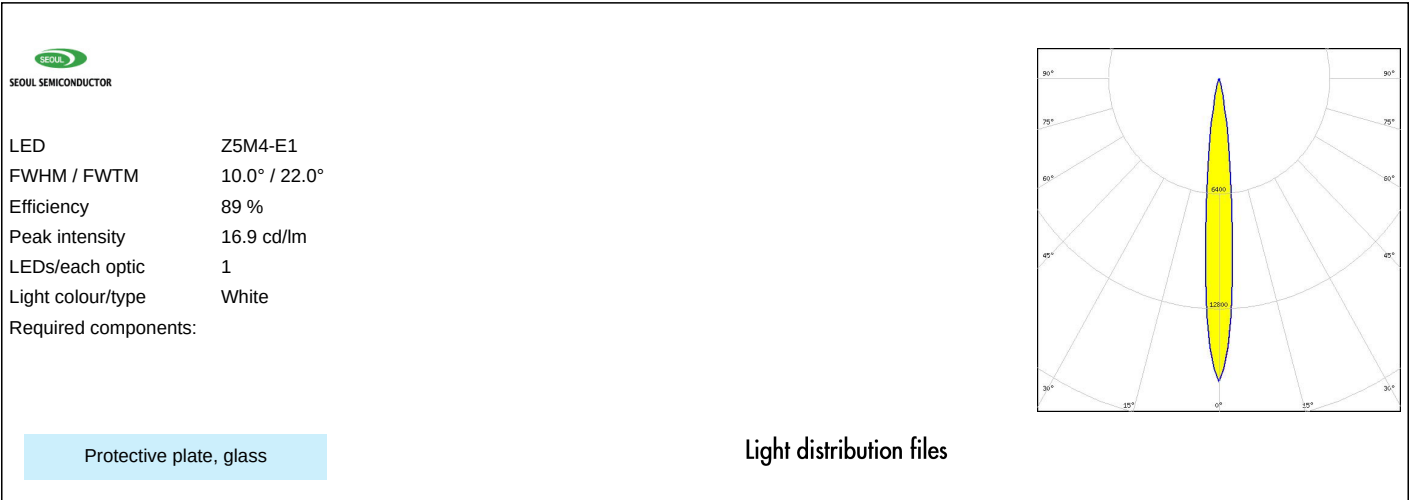
LED Z5M4
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 90 %
 Peak intensity 18 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

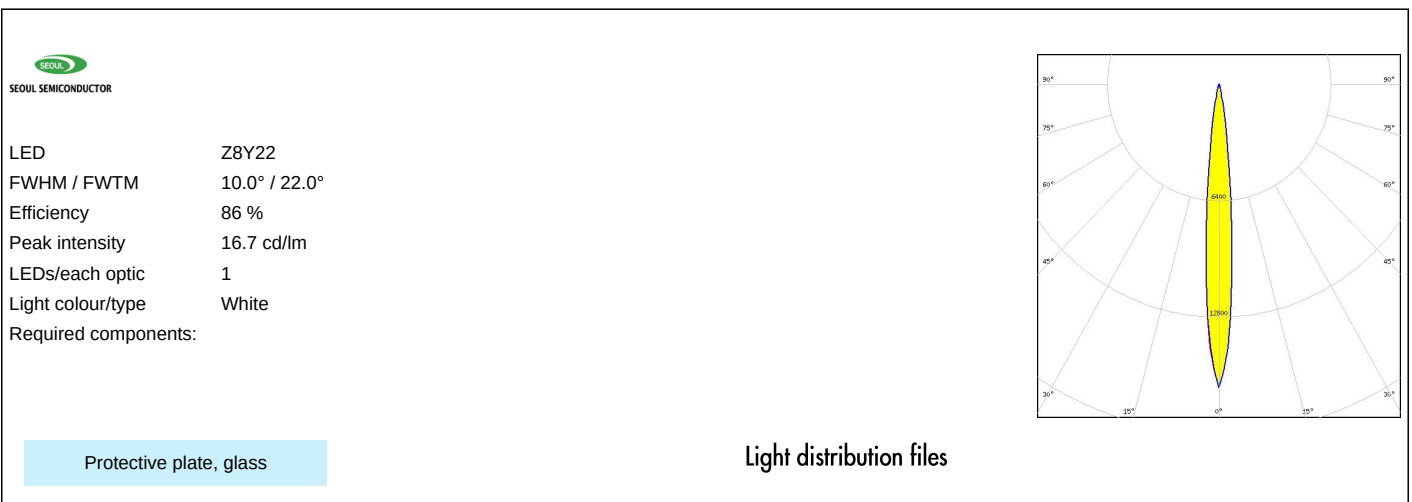
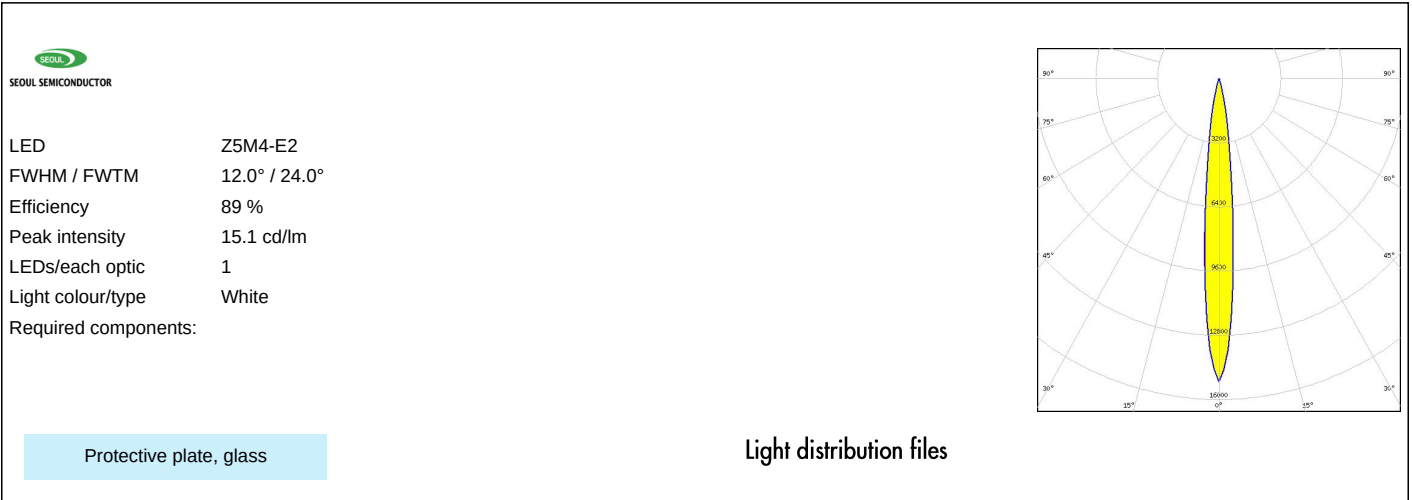
Light distribution files



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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