

## SPORT-2X2-S1

~10° spot beam.

### SPECIFICATION:

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

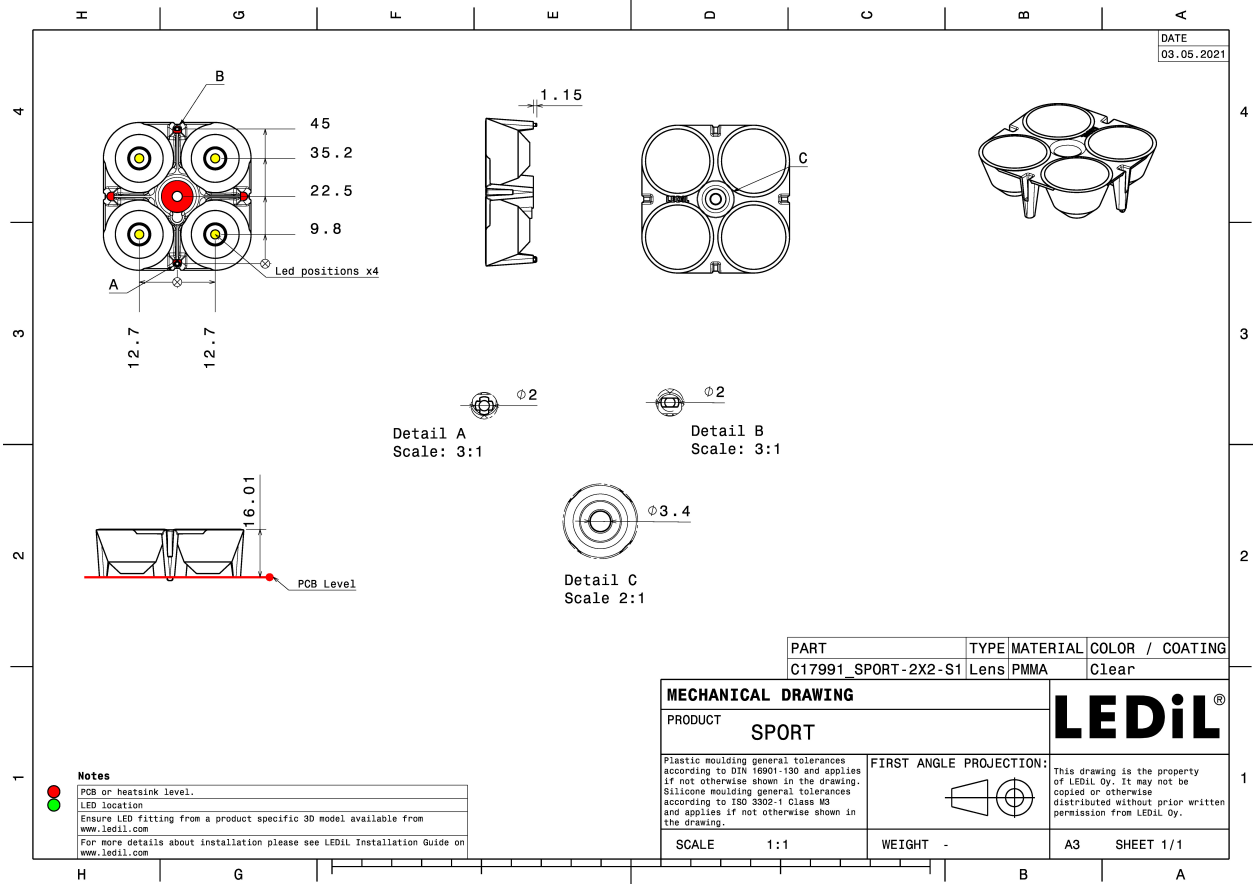


### MATERIALS:

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

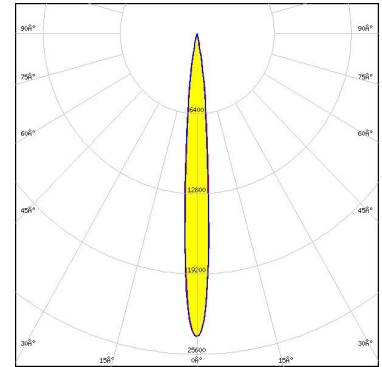


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



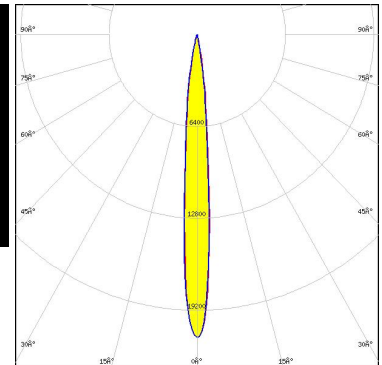
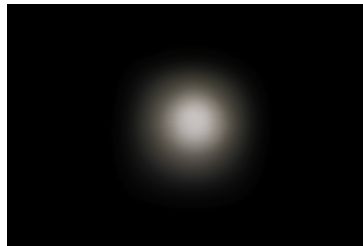
LED XP-G4  
FWHM / FWTM 9.0° / 20.0°  
Efficiency 96 %  
Peak intensity 24.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



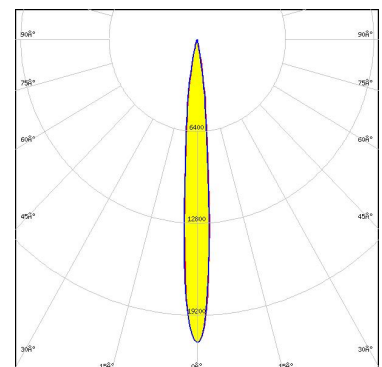
LED LUXEON HL2X  
FWHM / FWTM 10.0° / 21.0°  
Efficiency 97 %  
Peak intensity 21.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



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



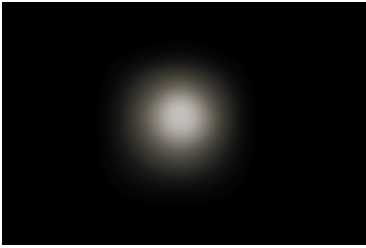
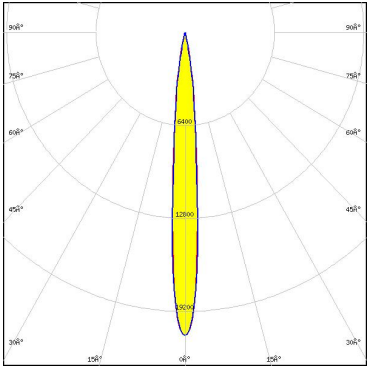
Light distribution files

#### OPTICAL RESULTS (MEASURED):

**LUMILEDS**

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:

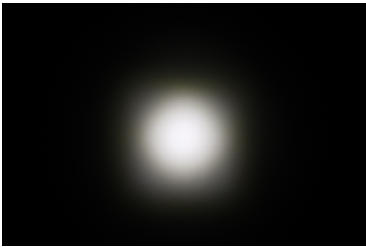
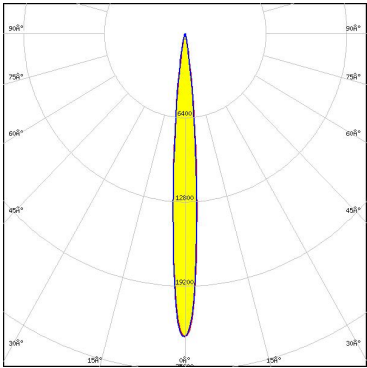
Protective plate, glass

Light distribution files

**OSRAM**  
Opto Semiconductors

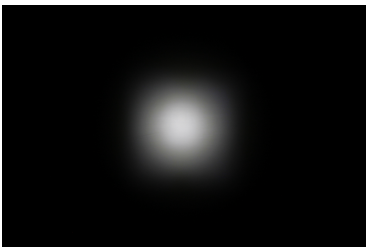
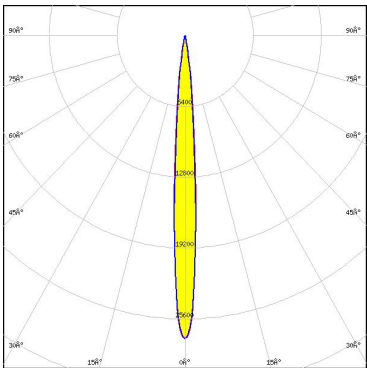
LED: OSCONIQ C 3030  
 FWHM / FWTM: 9.0° / 19.0°  
 Efficiency: 96 %  
 Peak intensity: 23.1 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:

Light distribution files

**OSRAM**  
Opto Semiconductors

LED: OSLOM 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:

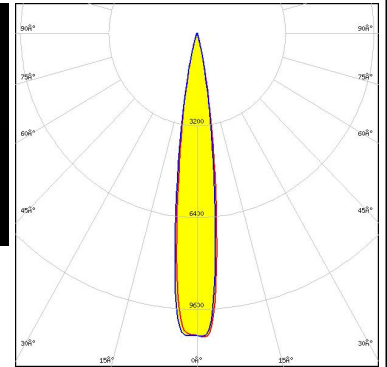
Light distribution files



#### OPTICAL RESULTS (MEASURED):



LED PassivePAQ-R-274x51-NI0-21K-857-5  
FWHM / FWTM 15.0° / 27.0°  
Efficiency 96 %  
Peak intensity 10.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

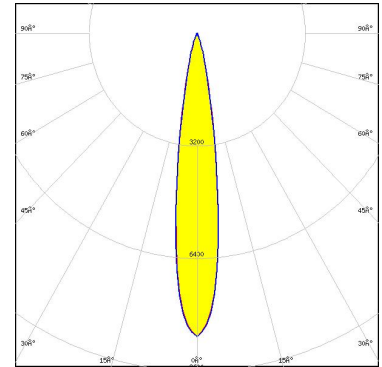


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



LED J Series 5050 Round LES  
FWHM / FWTM 16.0° / 32.0°  
Efficiency 95 %  
Peak intensity 8.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

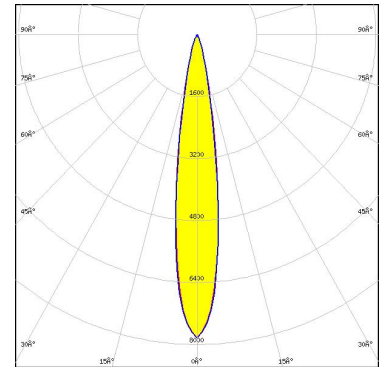


Light distribution files



LED J Series 5050 Round LES  
FWHM / FWTM 16.0° / 32.0°  
Efficiency 87 %  
Peak intensity 7.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

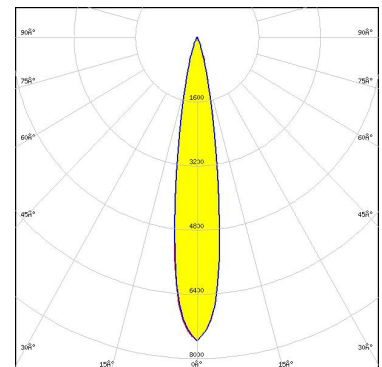
Protective plate, glass



Light distribution files



LED J Series 5050B 6V K Class  
FWHM / FWTM 16.0° / 34.0°  
Efficiency 95 %  
Peak intensity 7.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

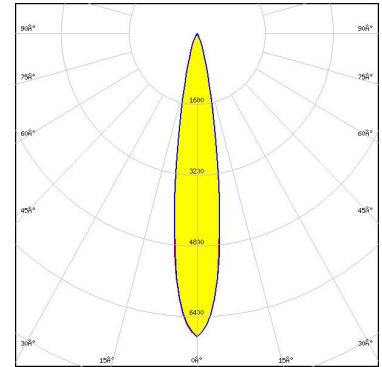
#### OPTICAL RESULTS (SIMULATED):



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:

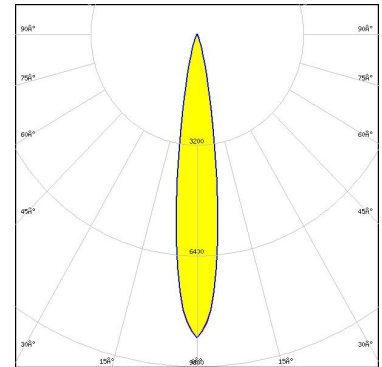
Protective plate, glass

Light distribution files



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

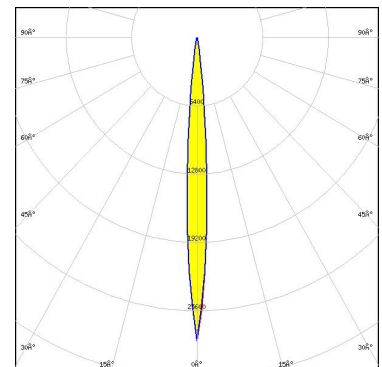
Light distribution files



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

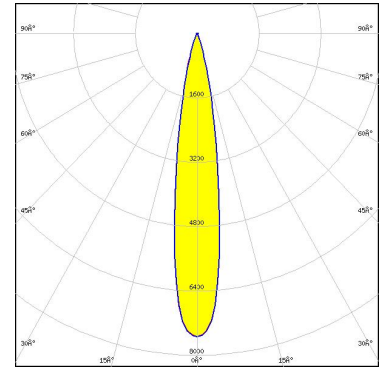
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



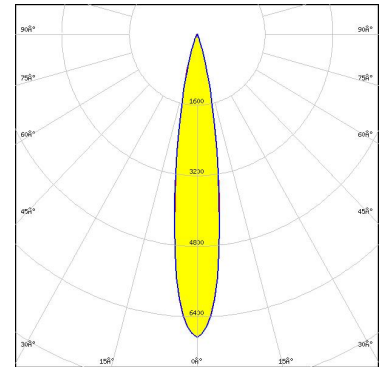
LED XHP35.2 HD  
 FWHM / FWTM 16.0° / 34.0°  
 Efficiency 95 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



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:

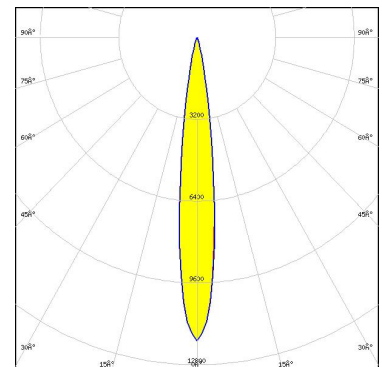


Protective plate, glass

Light distribution files



LED XHP35.2 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

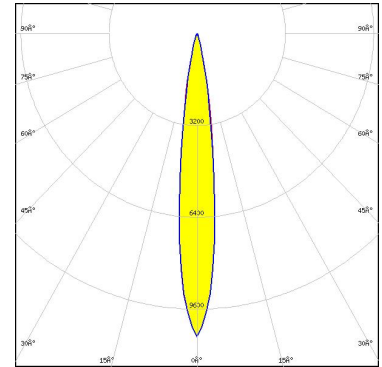
#### OPTICAL RESULTS (SIMULATED):



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

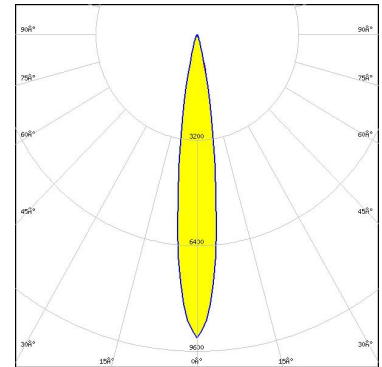
Light distribution files



LED 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:

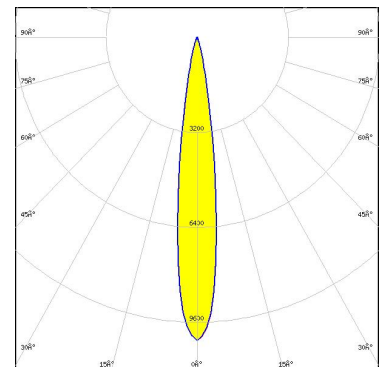
Protective plate, glass

Light distribution files



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:

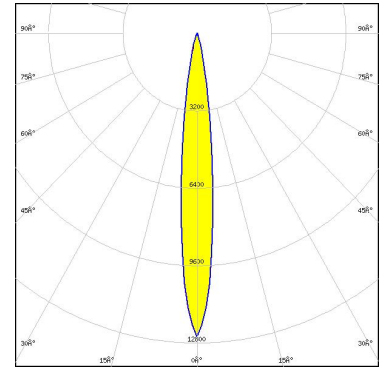
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



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:

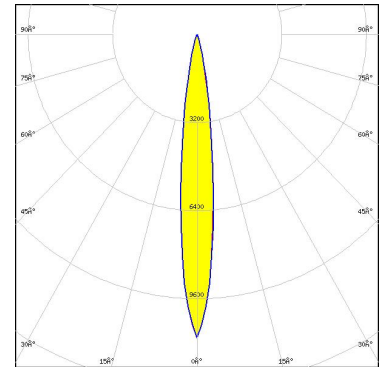


Light distribution files



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

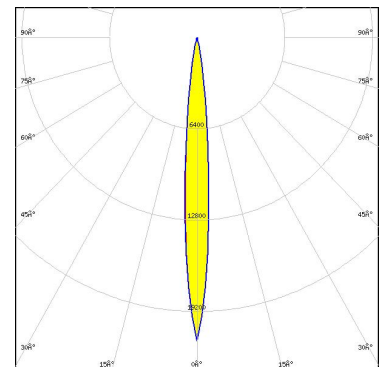


Light distribution files



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

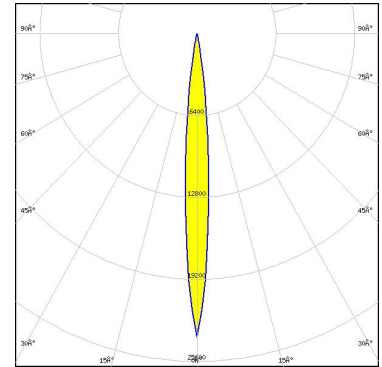
#### OPTICAL RESULTS (SIMULATED):



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:

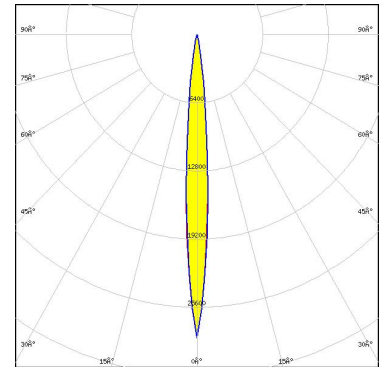
Protective plate, glass

Light distribution files



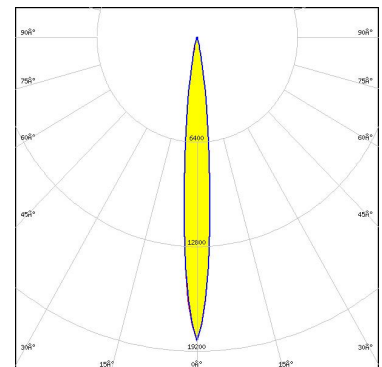
LED XP-G2 HE  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 95 %  
Peak intensity 28.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



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



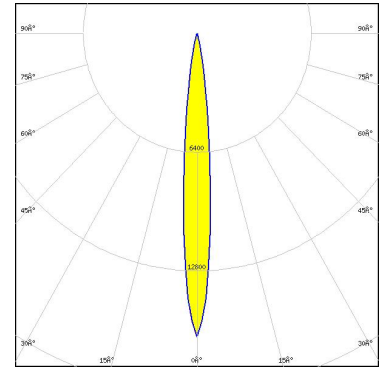
#### OPTICAL RESULTS (SIMULATED):



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

Protective plate, glass

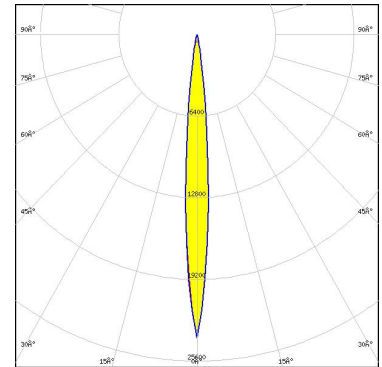
Light distribution files



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

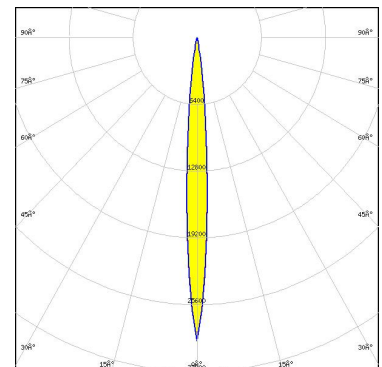
Protective plate, glass

Light distribution files



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

Light distribution files



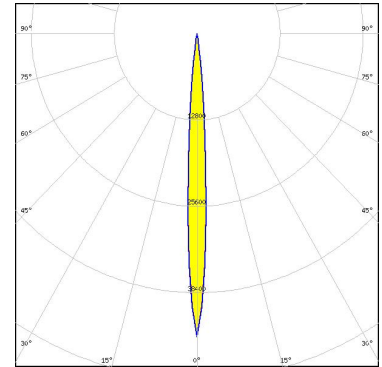


#### OPTICAL RESULTS (SIMULATED):



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:

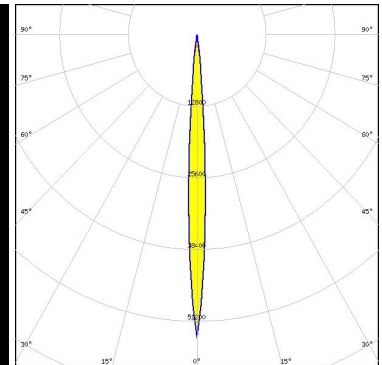
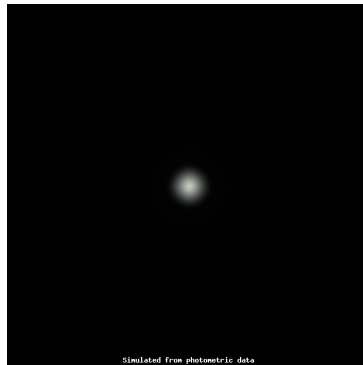
Protective plate, glass



Light distribution files



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:

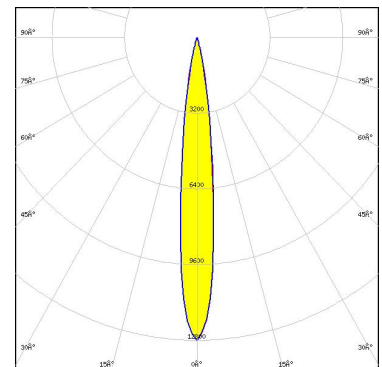


Light distribution files



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

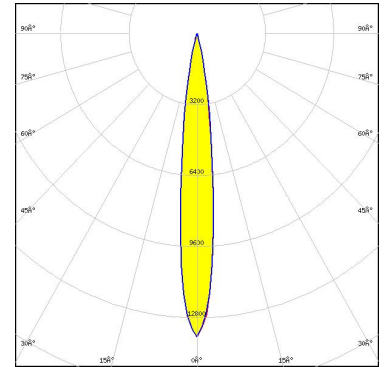


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



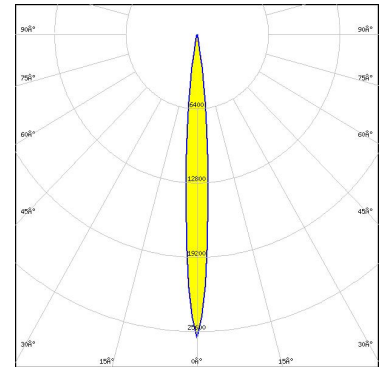
LED XP-L HD  
 FWHM / FWTM 12.0° / 26.0°  
 Efficiency 95 %  
 Peak intensity 13.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



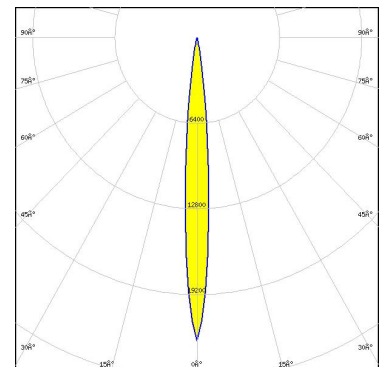
LED XP-L HI  
 FWHM / FWTM 8.0° / 18.0°  
 Efficiency 96 %  
 Peak intensity 26.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-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:



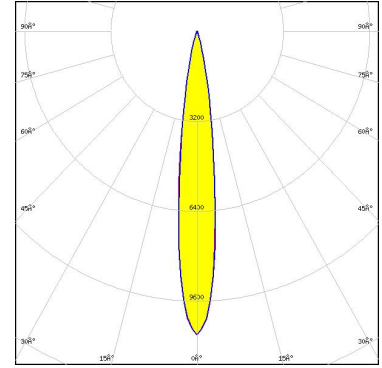
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



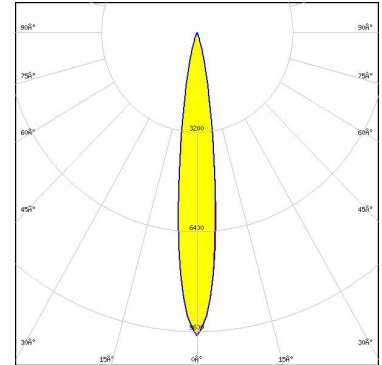
LED XP-L2  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 95 %  
 Peak intensity 10.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-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:

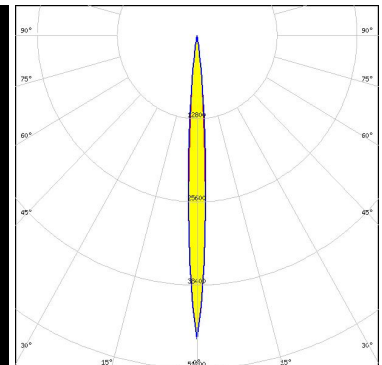
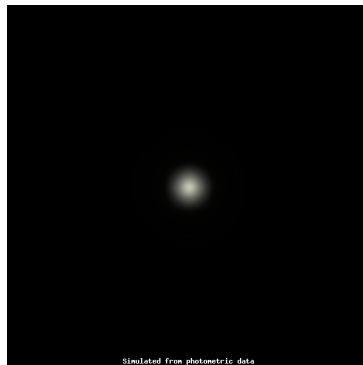


Protective plate, glass

Light distribution files



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

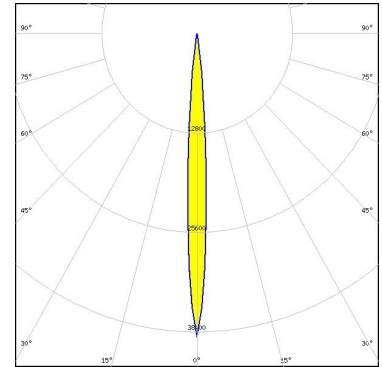
#### OPTICAL RESULTS (SIMULATED):



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

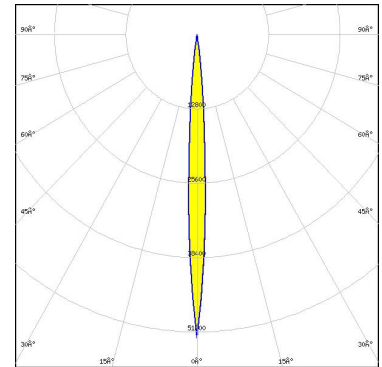
Protective plate, glass

Light distribution files



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

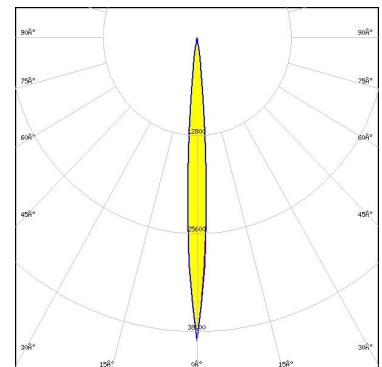
Light distribution files



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

Protective plate, glass

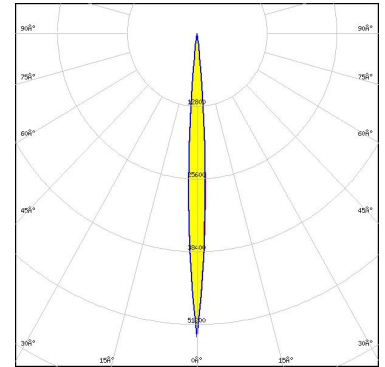
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



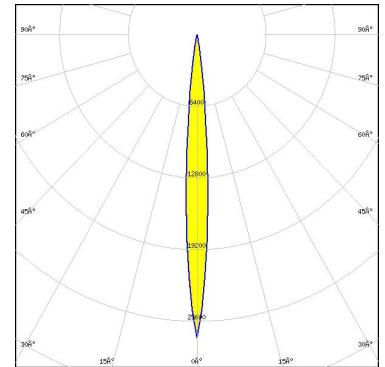
LED XQ-E HI  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 96 %  
Peak intensity 53.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



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:

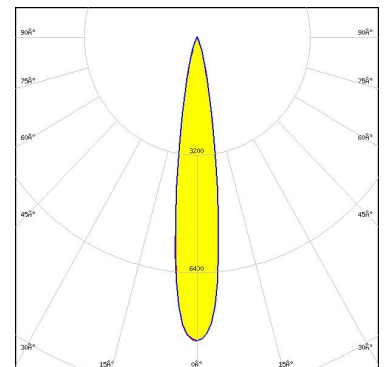


Protective plate, glass

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:

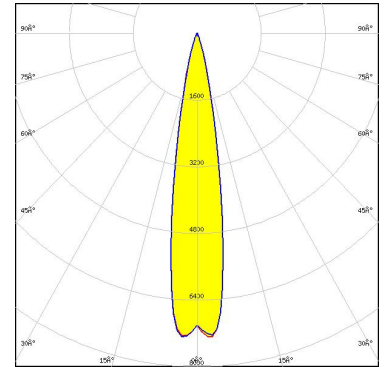


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



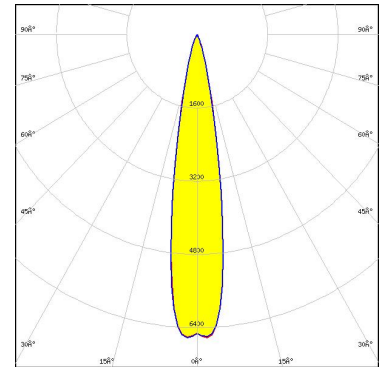
LED LUXEON 5050 Round LES  
 FWHM / FWTM 18.0° / 34.0°  
 Efficiency 95 %  
 Peak intensity 7.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:

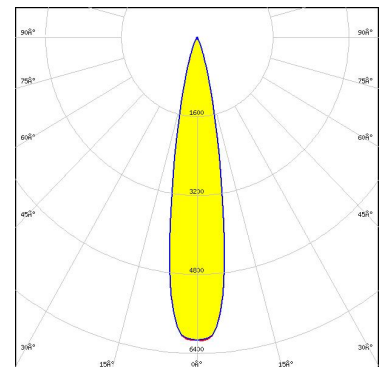


Protective plate, glass

Light distribution files

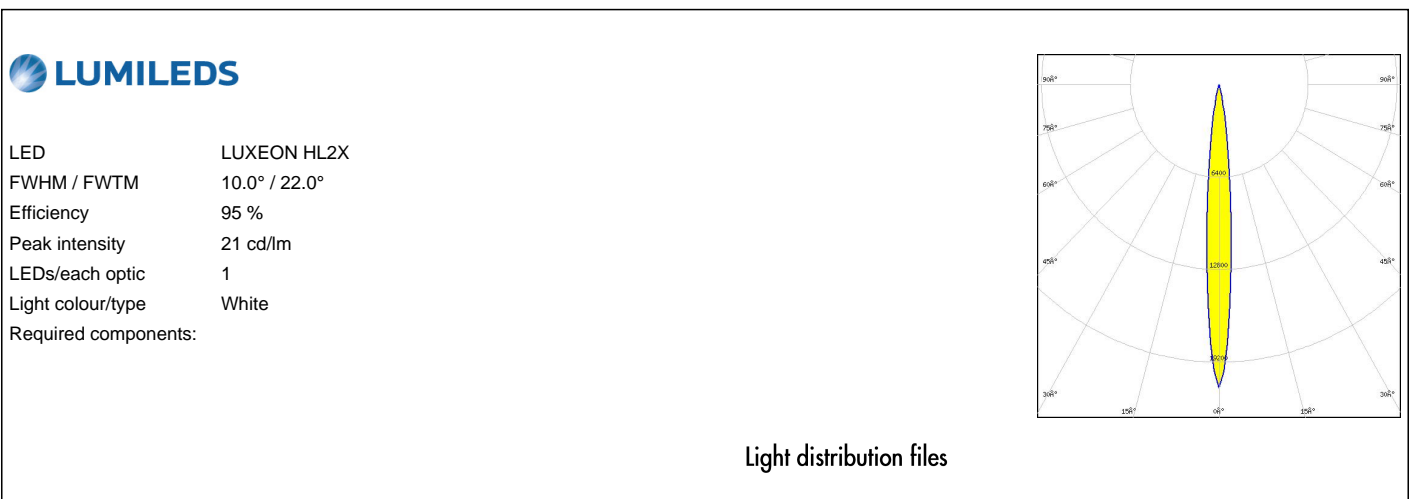
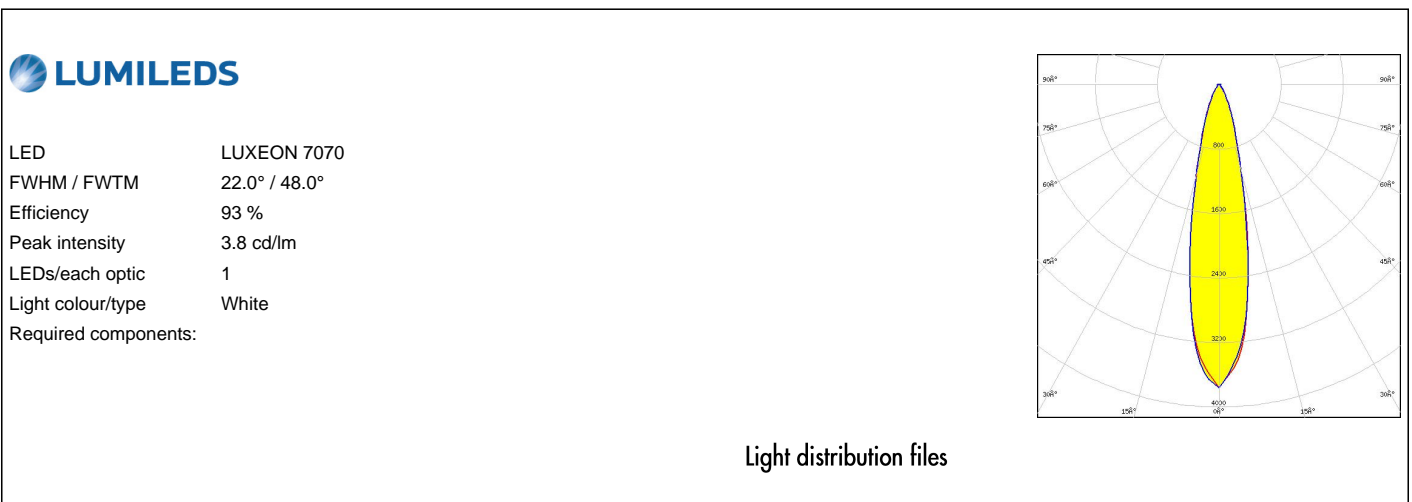
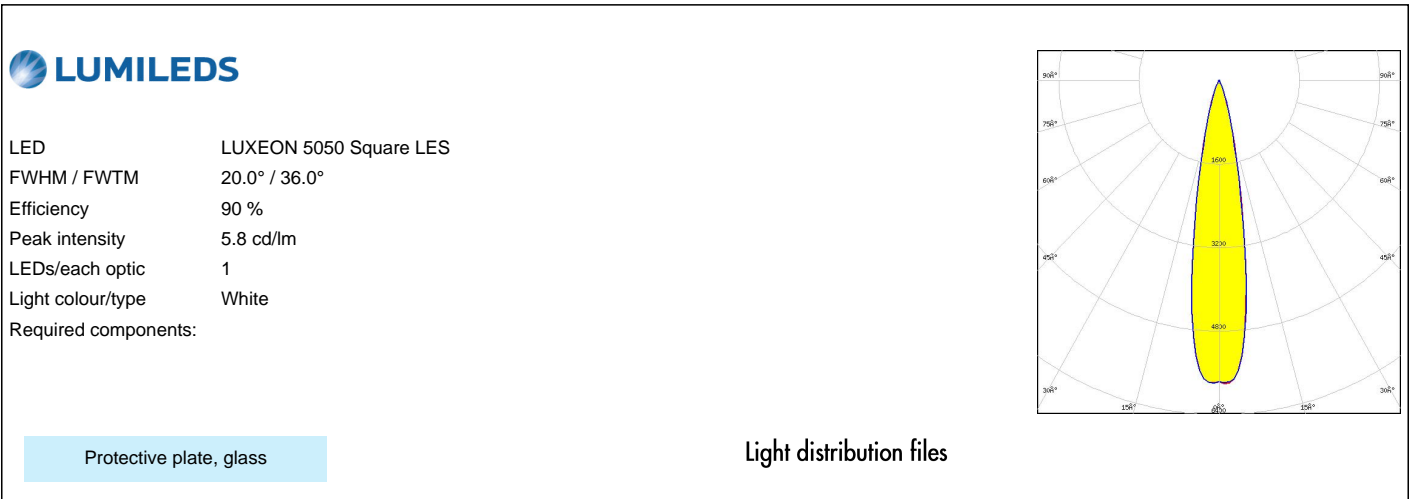


LED LUXEON 5050 Square LES  
 FWHM / FWTM 20.0° / 36.0°  
 Efficiency 95 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### OPTICAL RESULTS (SIMULATED):



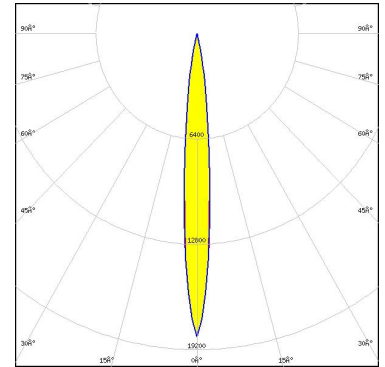
#### OPTICAL RESULTS (SIMULATED):



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

Protective plate, glass

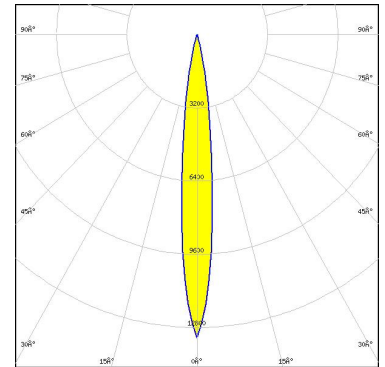
Light distribution files



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

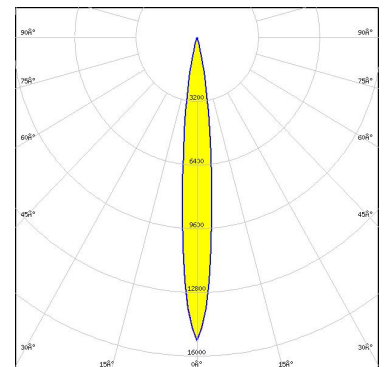
Protective plate, glass

Light distribution files



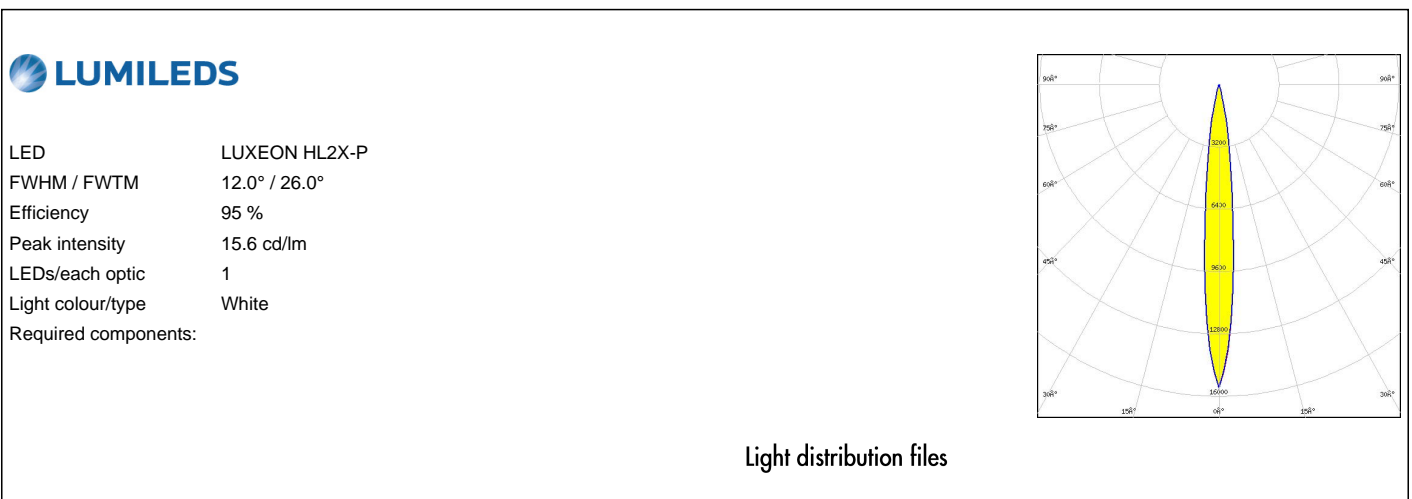
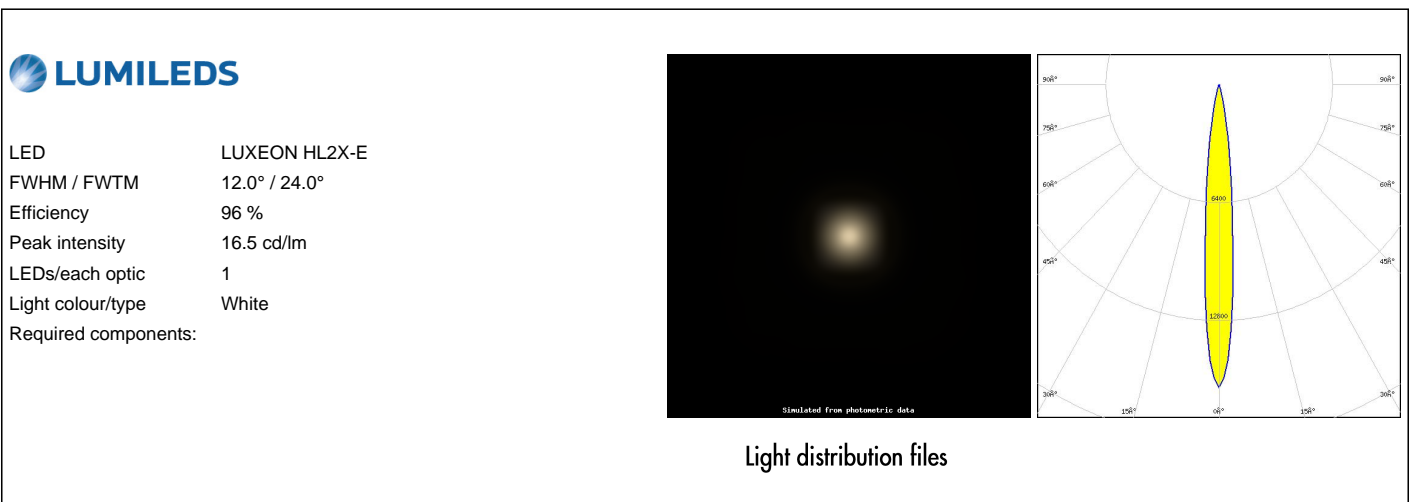
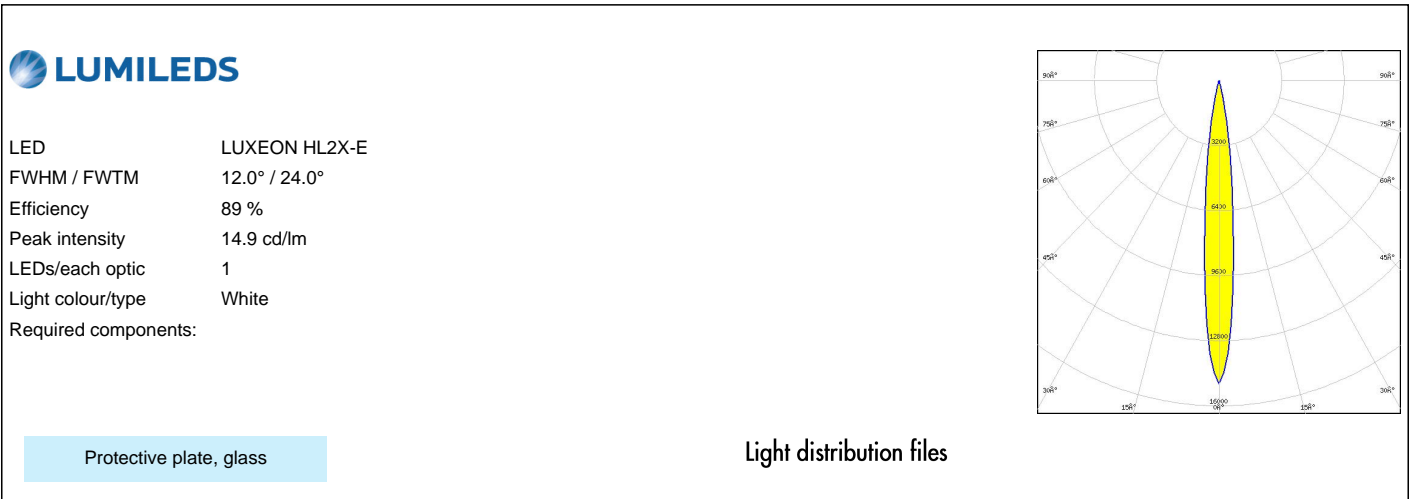
LED LUXEON HL2X-D  
FWHM / FWTM 12.0° / 26.0°  
Efficiency 96 %  
Peak intensity 15.2 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files





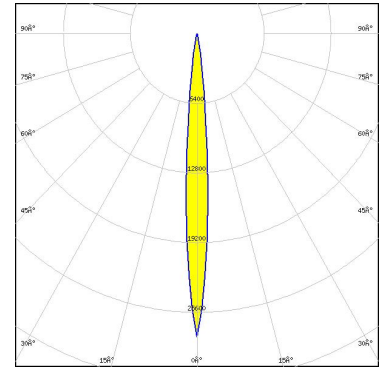
### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):



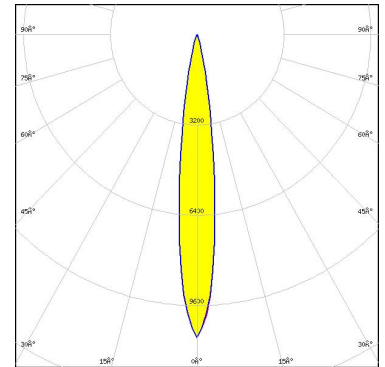
LED LUXEON HL2Z  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 95 %  
Peak intensity 27.9 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



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

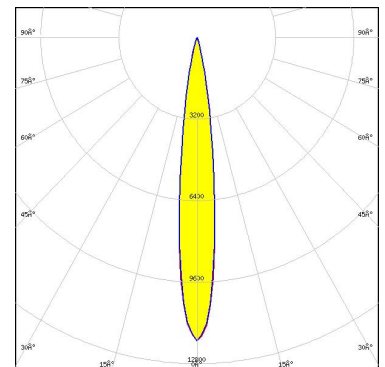


Protective plate, glass

Light distribution files



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

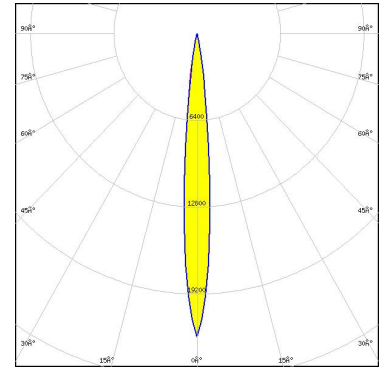


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



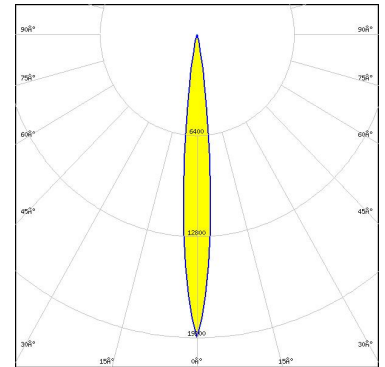
LED LUXEON HL4Z  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 96 %  
Peak intensity 22.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



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

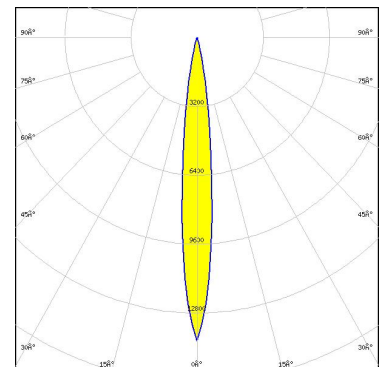


Light distribution files

Protective plate, glass



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



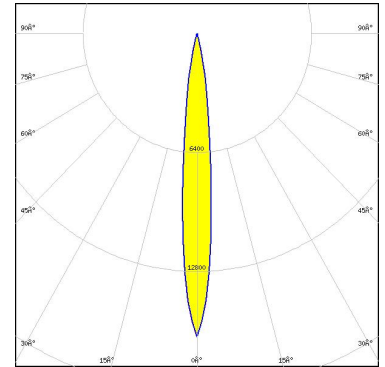
Light distribution files

Protective plate, glass

#### OPTICAL RESULTS (SIMULATED):



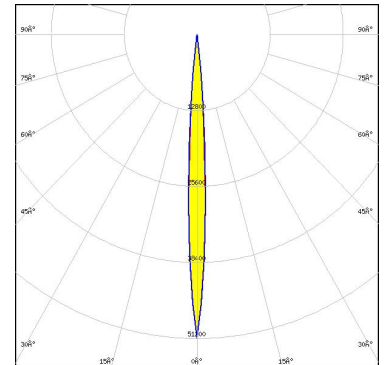
LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 96 %  
Peak intensity 16.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED SFT-12R-W-A  
FWHM / FWTM 6.0° / 14.0°  
Efficiency 87 %  
Peak intensity 51.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

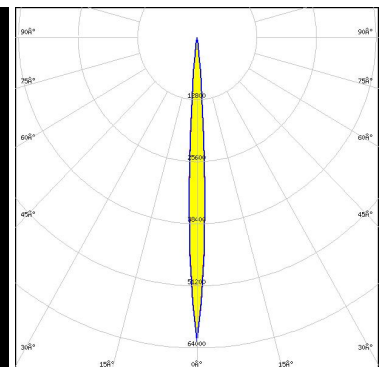
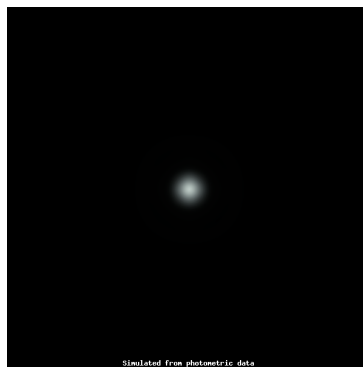


Protective plate, glass

Light distribution files



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:



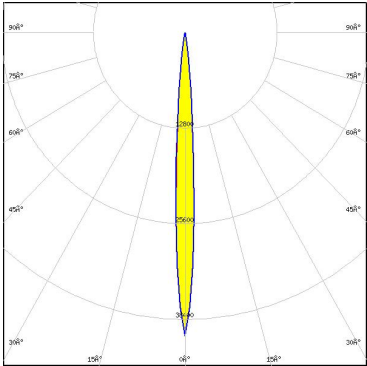
Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**LUMINUS**

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:	

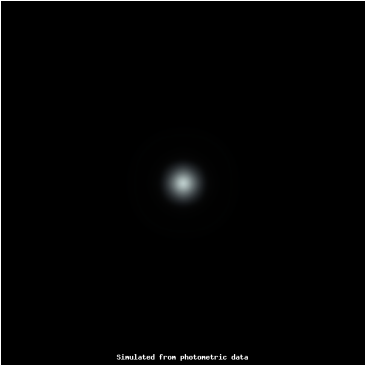
Protective plate, glass



Light distribution files

**LUMINUS**

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

**LUMINUS**

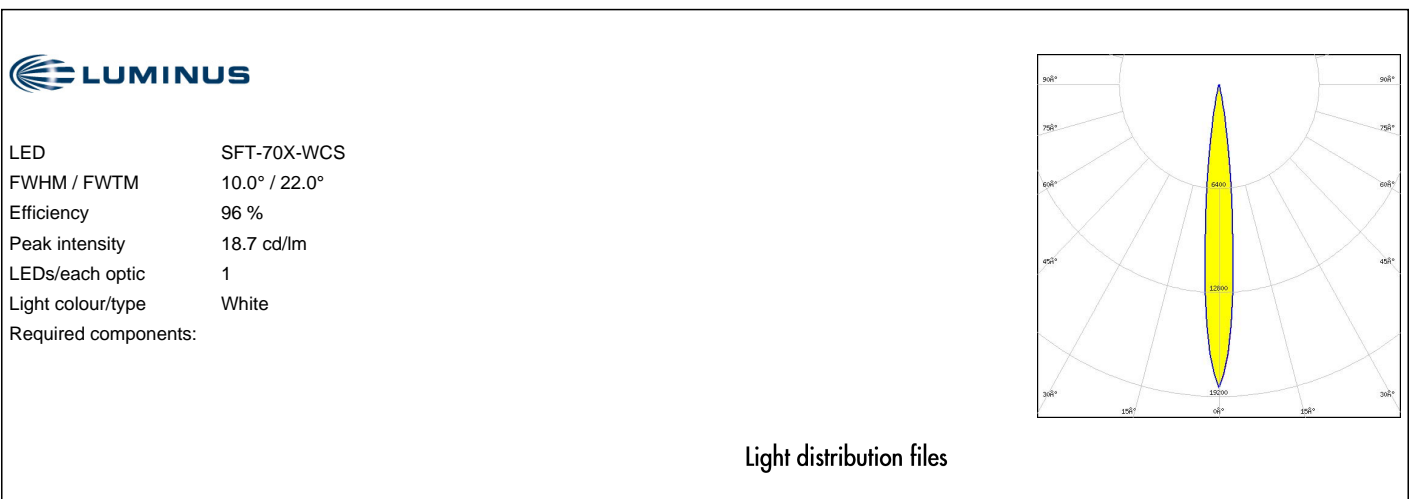
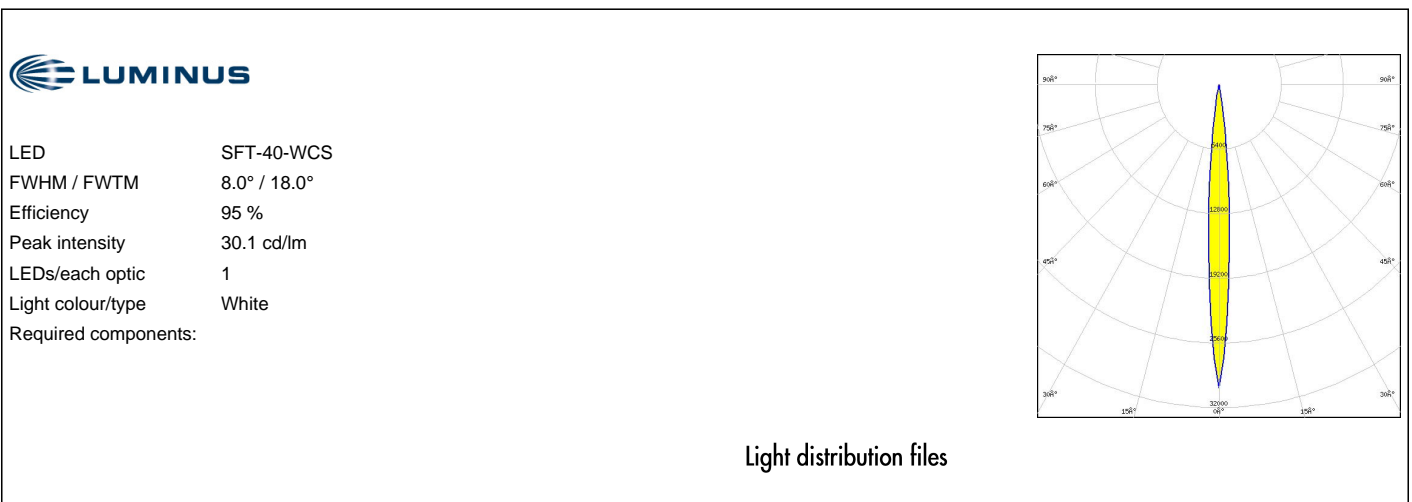
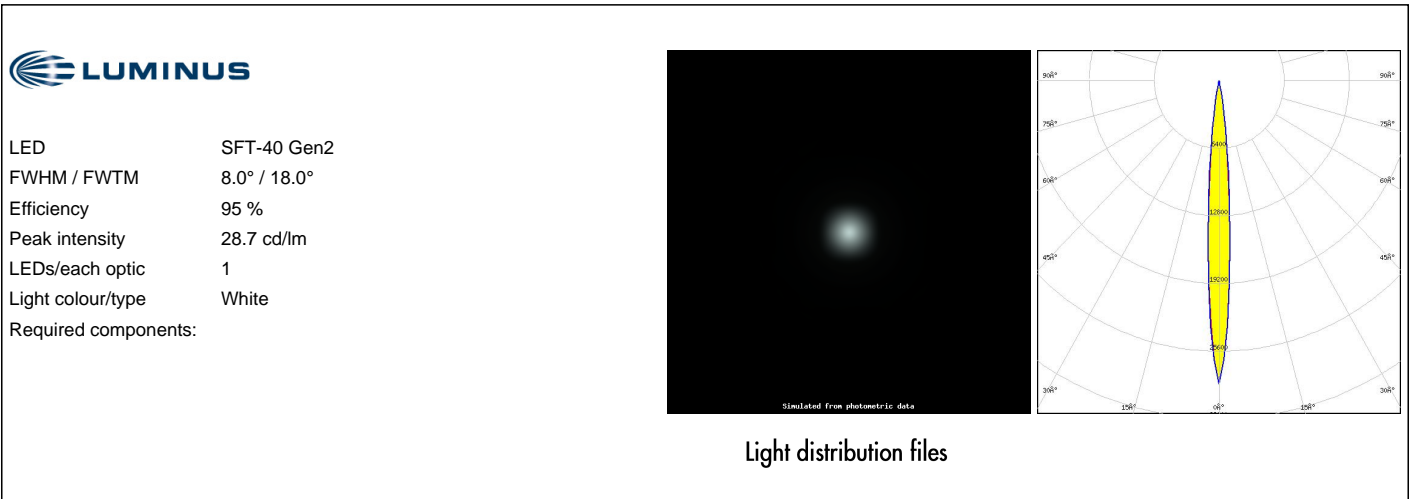
LED	SFT-40 Gen2
FWHM / FWTM	8.0° / 20.0°
Efficiency	88 %
Peak intensity	24.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



Light distribution files

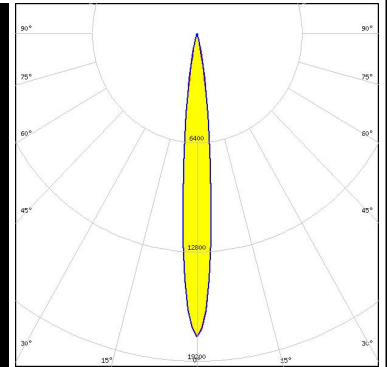
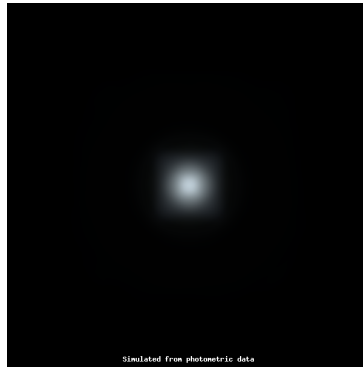
#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):



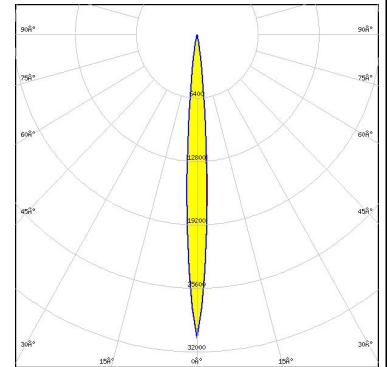
LED SFT-70X-WES-Gen2  
 FWHM / FWTM 10.0° / 22.0°  
 Efficiency 96 %  
 Peak intensity 17.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:

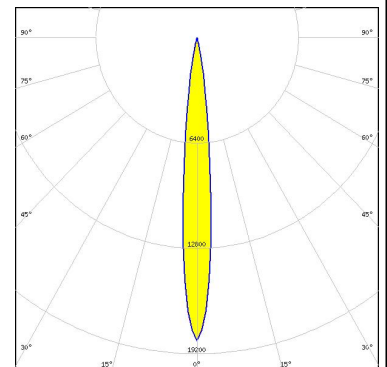


Protective plate, glass

Light distribution files



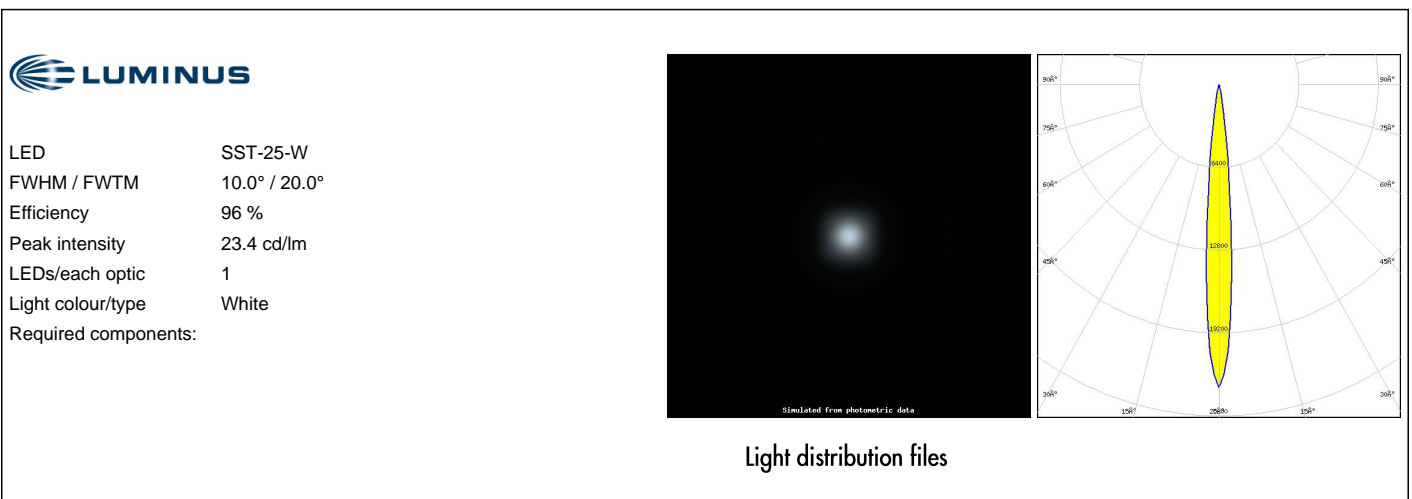
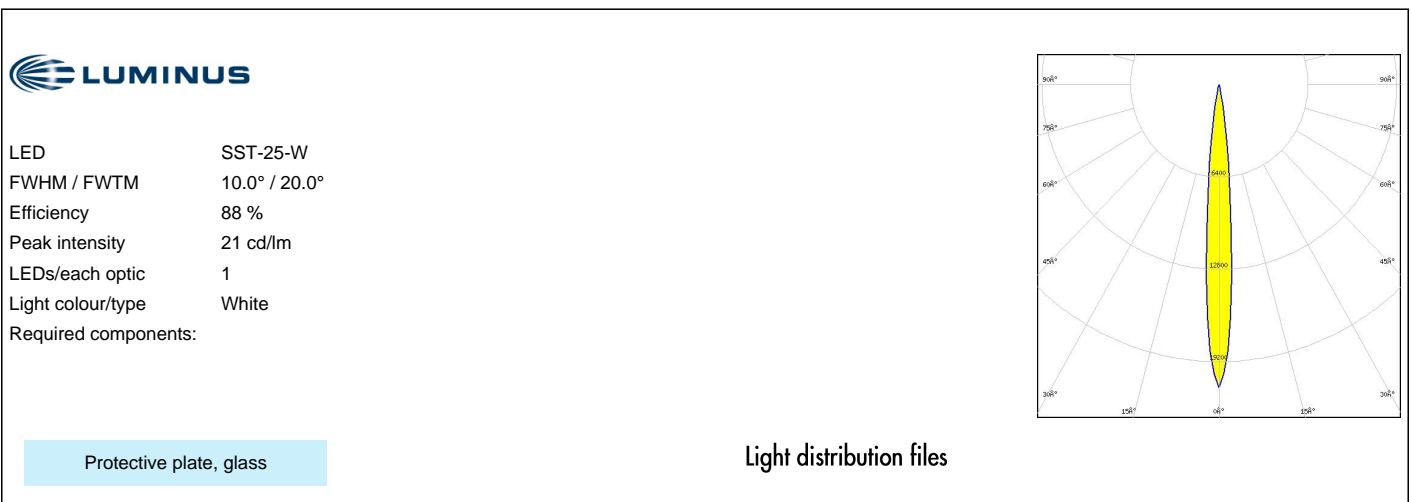
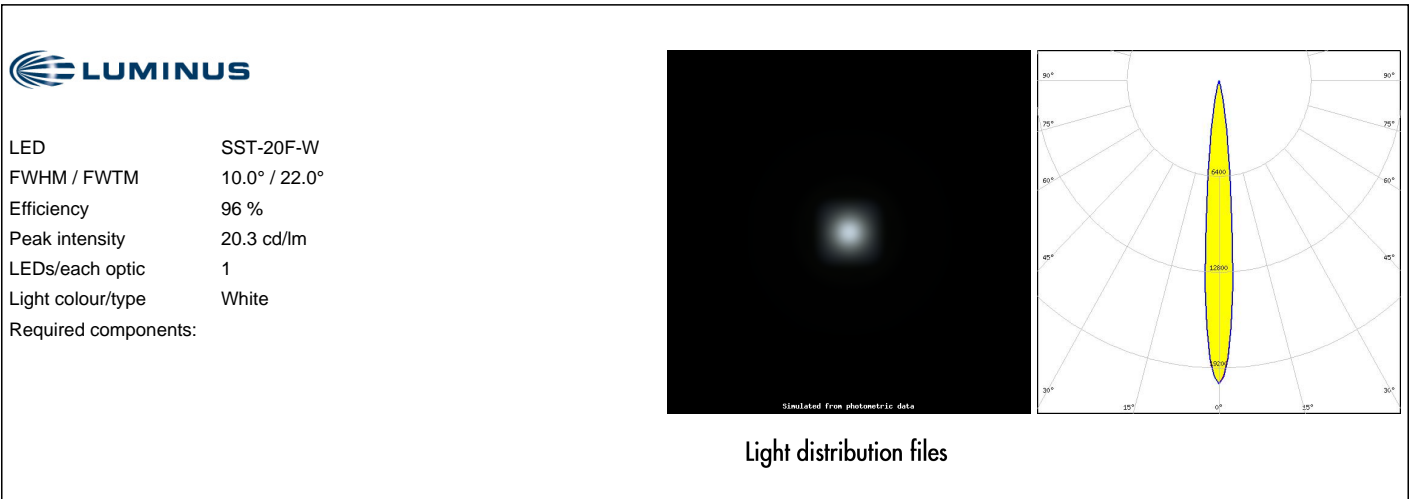
LED SST-20F-W  
 FWHM / FWTM 10.0° / 22.0°  
 Efficiency 89 %  
 Peak intensity 18.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Protective plate, glass

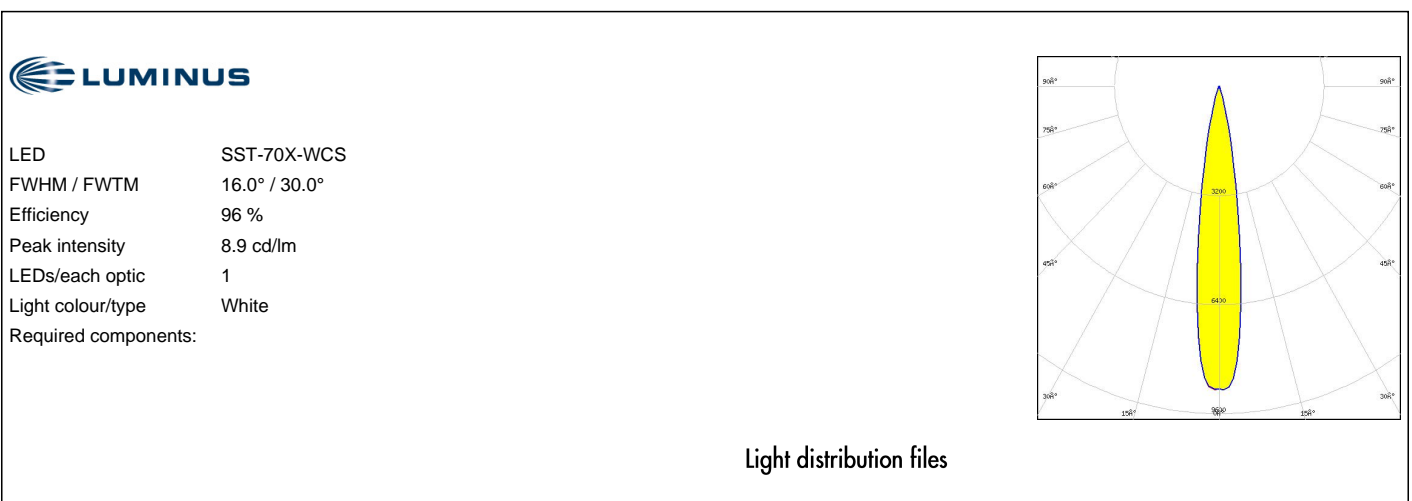
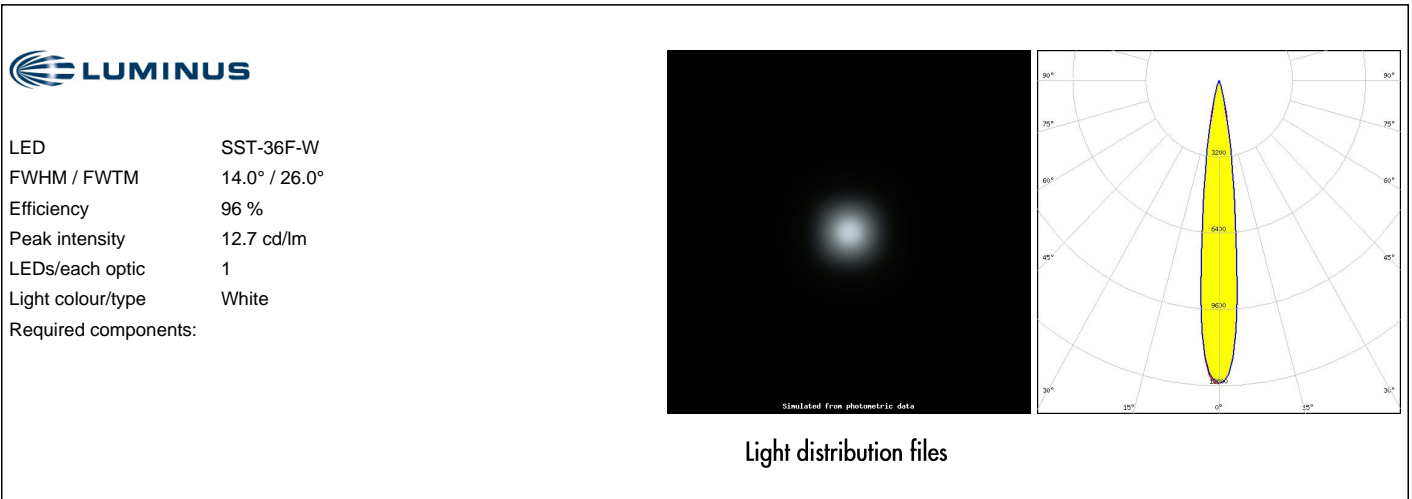
Light distribution files

#### OPTICAL RESULTS (SIMULATED):





#### OPTICAL RESULTS (SIMULATED):

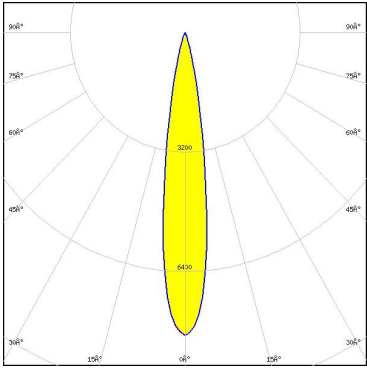


#### OPTICAL RESULTS (SIMULATED):

**LUMINUS**

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:	

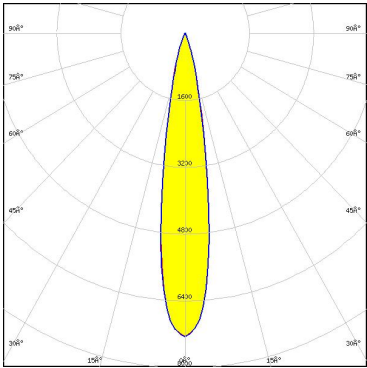
Protective plate, glass



Light distribution files

**NICHIA**

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

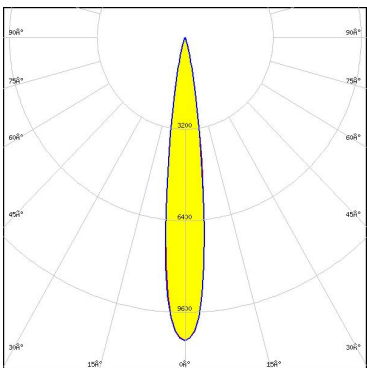


Light distribution files

**NICHIA**

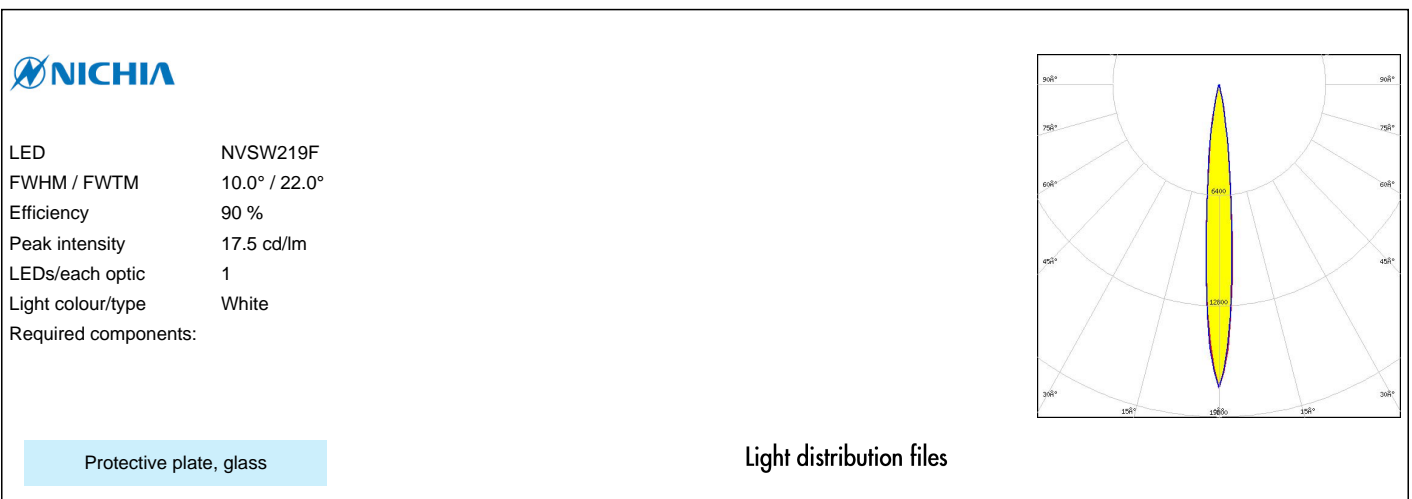
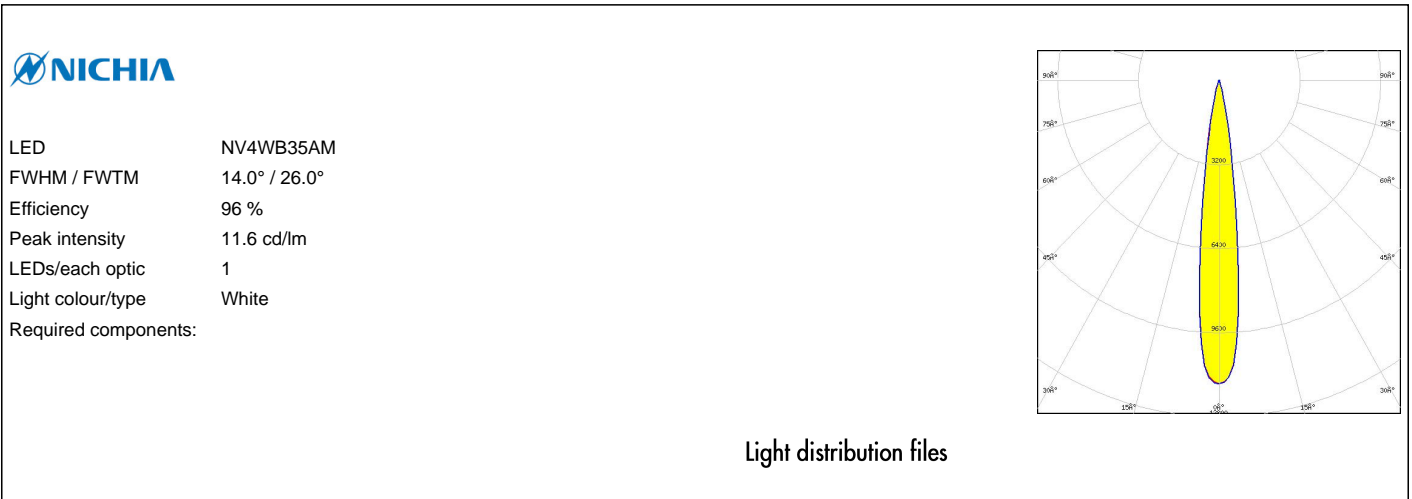
LED	NV4WB35AM
FWHM / FWTM	14.0° / 26.0°
Efficiency	87 %
Peak intensity	10.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

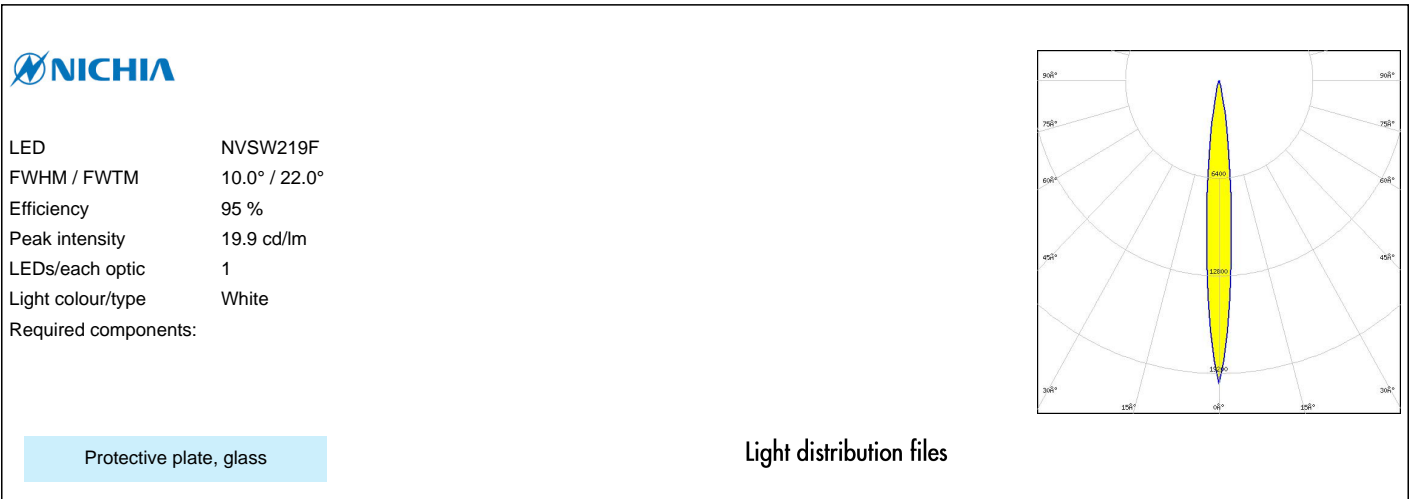


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):

**NICHIA**

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

**OSRAM**  
Opto Semiconductors

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

**OSRAM**  
Opto Semiconductors

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

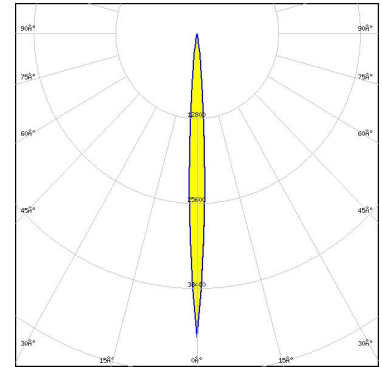
Required components:

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

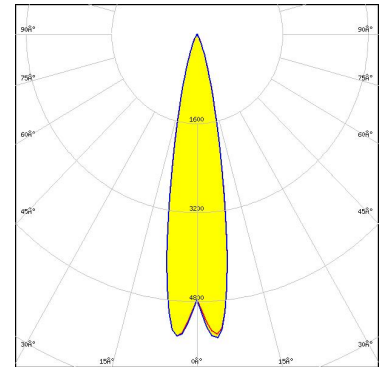
LED Duris S5 (Single chip)  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 95 %  
 Peak intensity 45.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

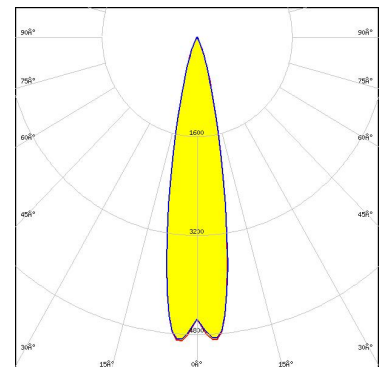
LED Duris S8  
 FWHM / FWTM 20.0° / 38.0°  
 Efficiency 95 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**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:



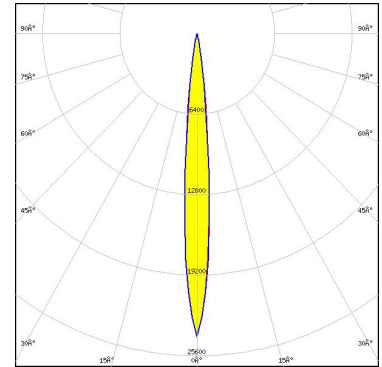
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

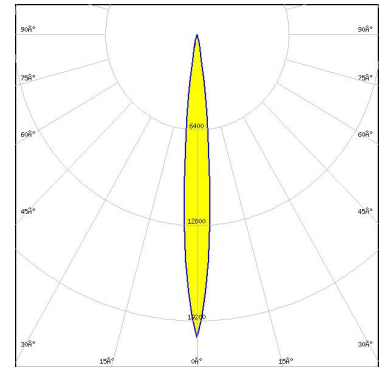
LED OSCONIQ C 3030  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 96 %  
 Peak intensity 24.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSCONIQ 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:

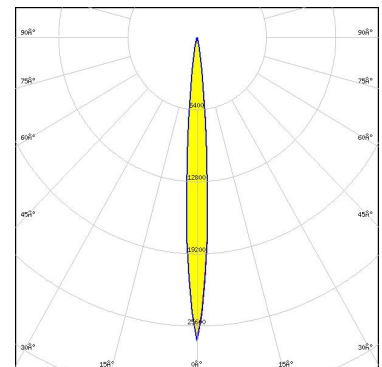


Protective plate, glass

Light distribution files

**OSRAM**  
Opto Semiconductors

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



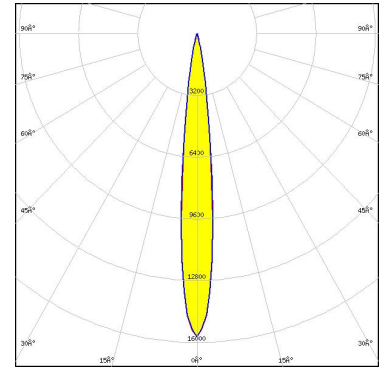
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

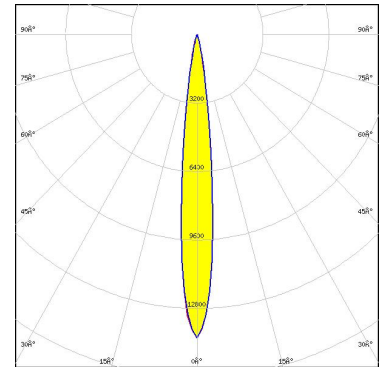
LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 96 %  
 Peak intensity 15.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

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

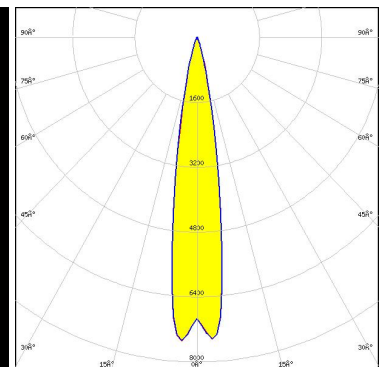
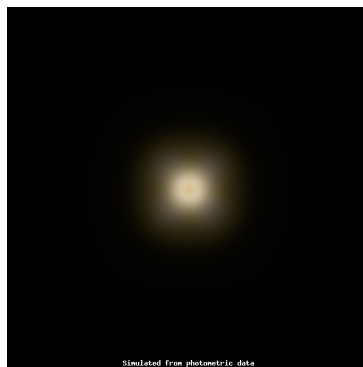


Protective plate, glass

Light distribution files

**OSRAM**  
Opto Semiconductors

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



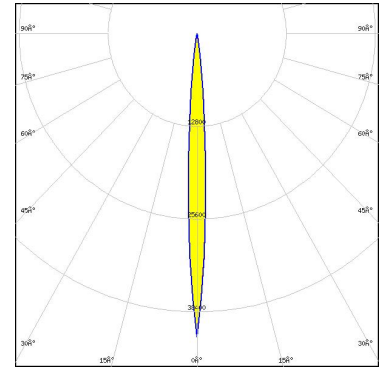
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

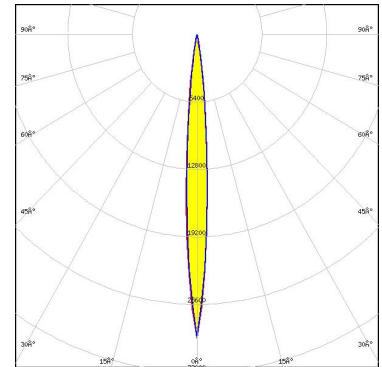
LED OSLON Optimal (GF CSSRML.24)  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 92 %  
 Peak intensity 41.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type Far Red  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

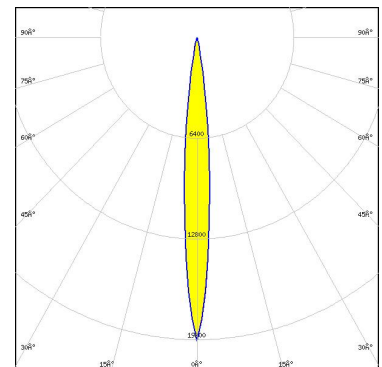
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 8.0° / 18.0°  
 Efficiency 95 %  
 Peak intensity 28.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:



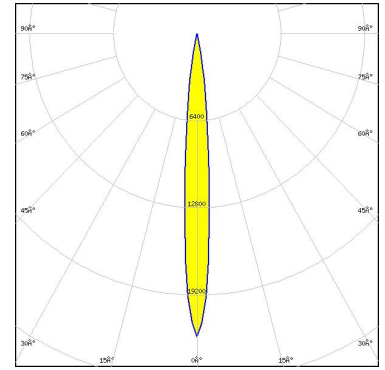
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

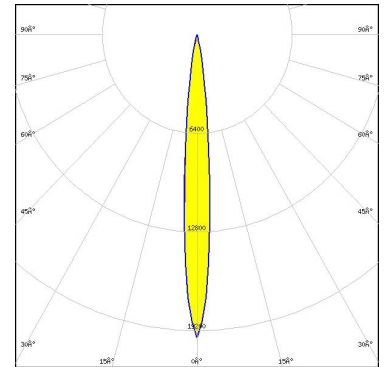
LED LH351B  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 96 %  
Peak intensity 22.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

LED 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:

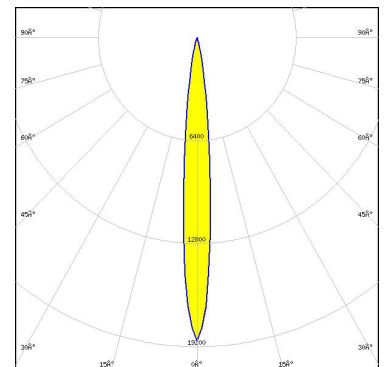


Protective plate, glass

Light distribution files

### SAMSUNG

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



Light distribution files

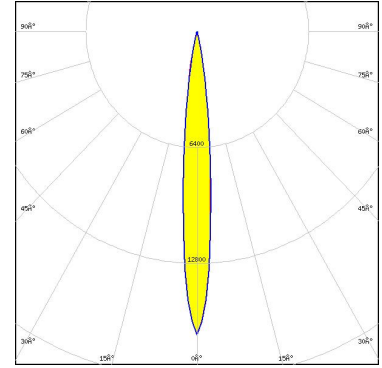
#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

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

Protective plate, glass

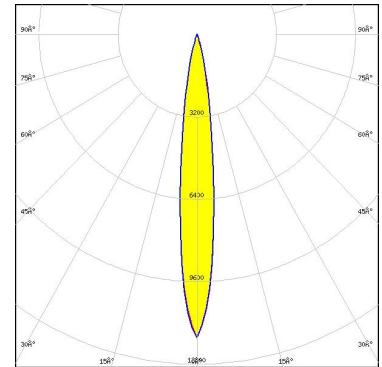
Light distribution files



### 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

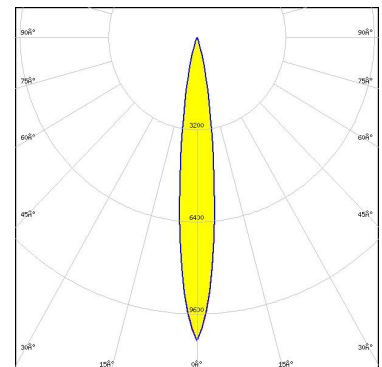


### SAMSUNG

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:

Protective plate, glass

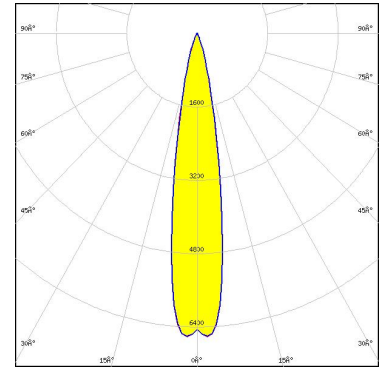
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

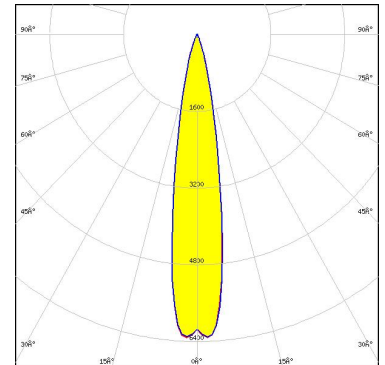
LED LH502C  
 FWHM / FWTM 18.0° / 36.0°  
 Efficiency 95 %  
 Peak intensity 6.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### 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:

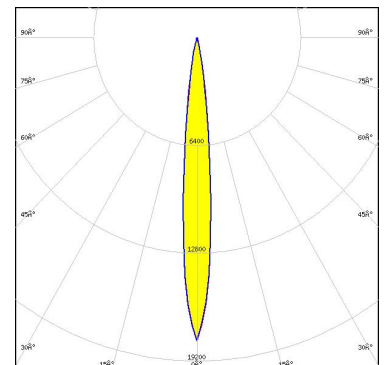


Protective plate, glass

Light distribution files



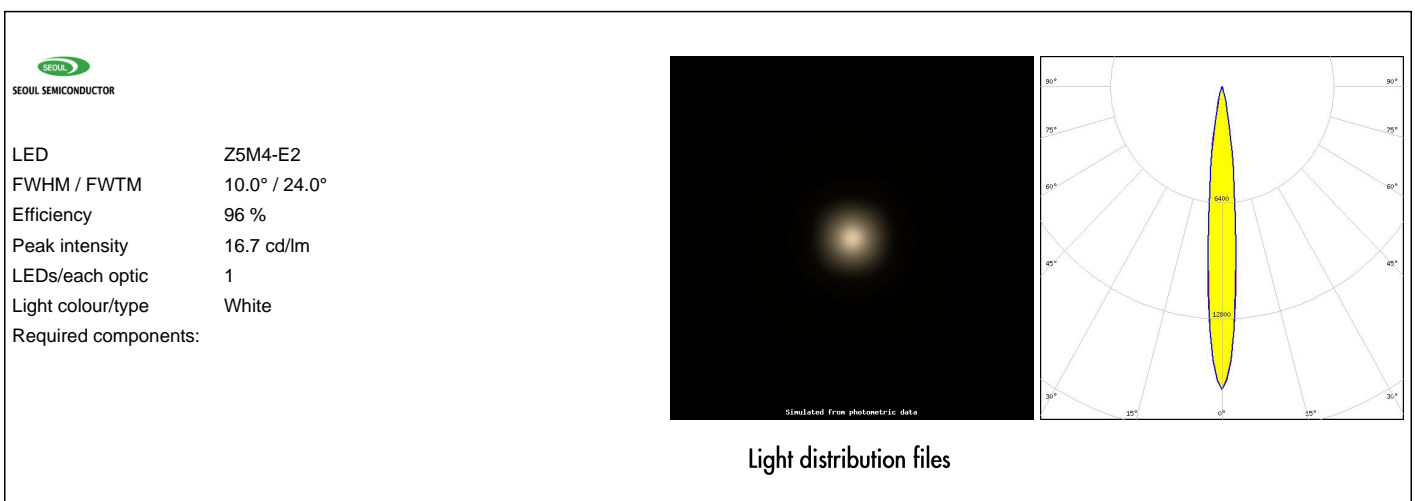
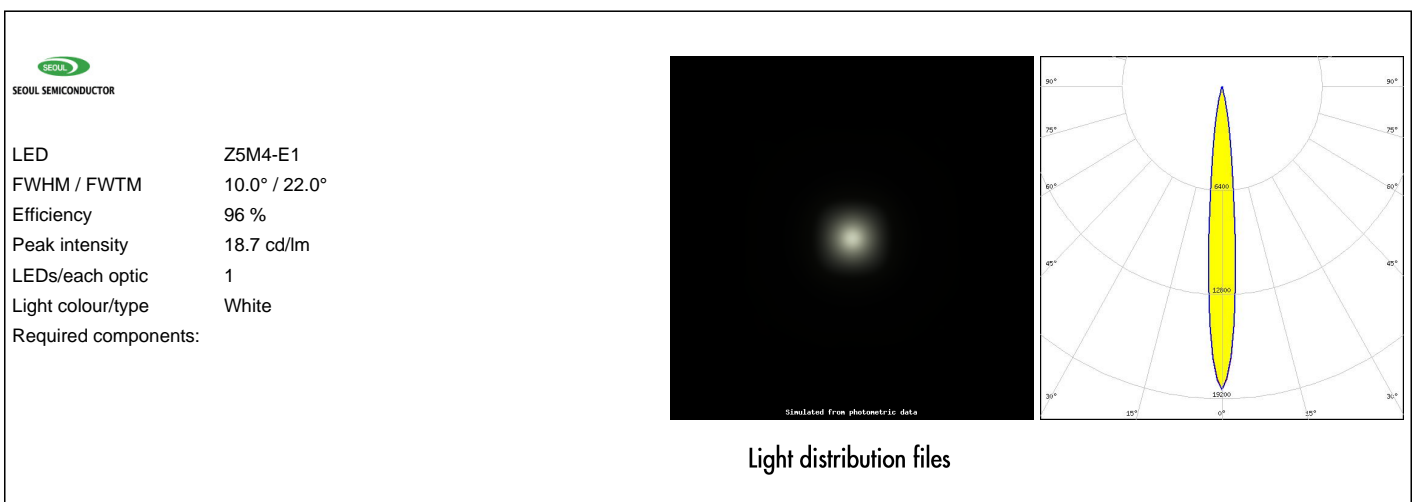
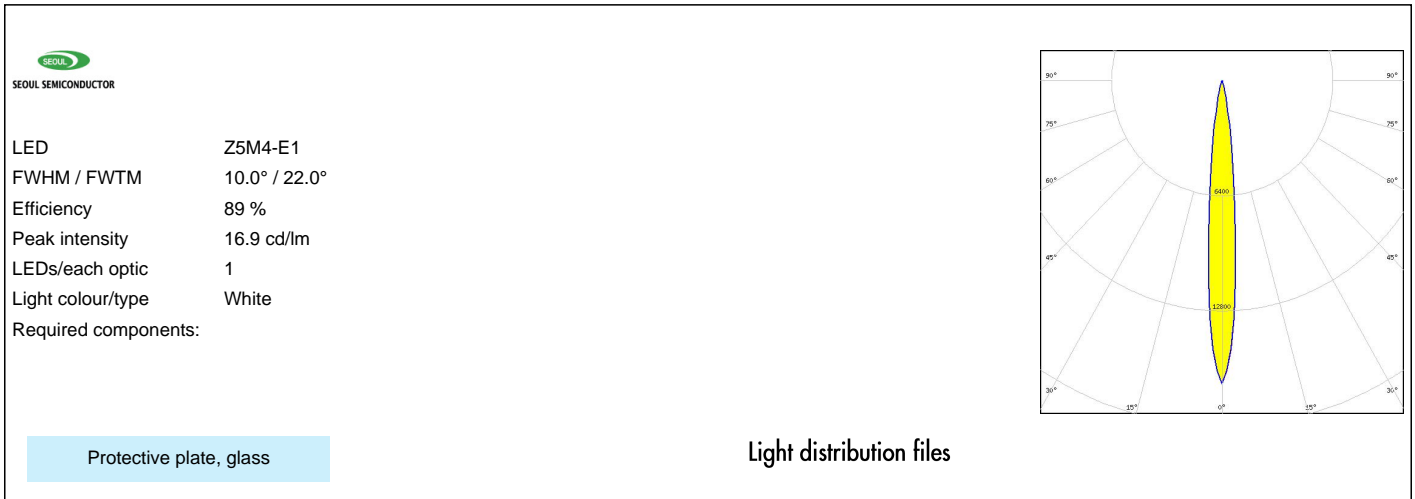
LED Z5M4  
 FWHM / FWTM 10.0° / 22.0°  
 Efficiency 90 %  
 Peak intensity 18 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

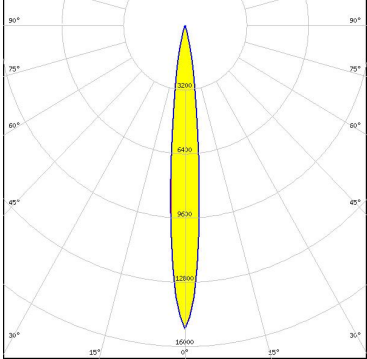


#### OPTICAL RESULTS (SIMULATED):


  
SEOUL SEMICONDUCTOR

LED	Z5M4-E2
FWHM / FWTM	12.0° / 24.0°
Efficiency	89 %
Peak intensity	15.1 cd/m
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

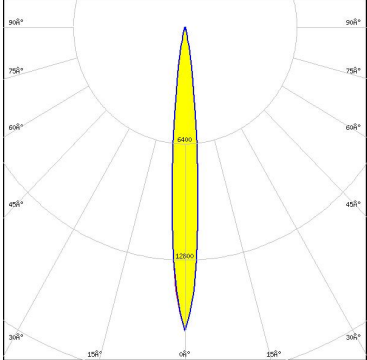


Light distribution files

  
SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	10.0° / 22.0°
Efficiency	86 %
Peak intensity	16.7 cd/m
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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