

## SPORT-2X2-S2

Slightly asymmetric ~20° spot beam with minimum spill light

### SPECIFICATION:

|                |             |
|----------------|-------------|
| Dimensions     | 50.0 x 50.0 |
| Height         | 14.2 mm     |
| Fastening      | screw       |
| ROHS compliant | yes ⓘ       |

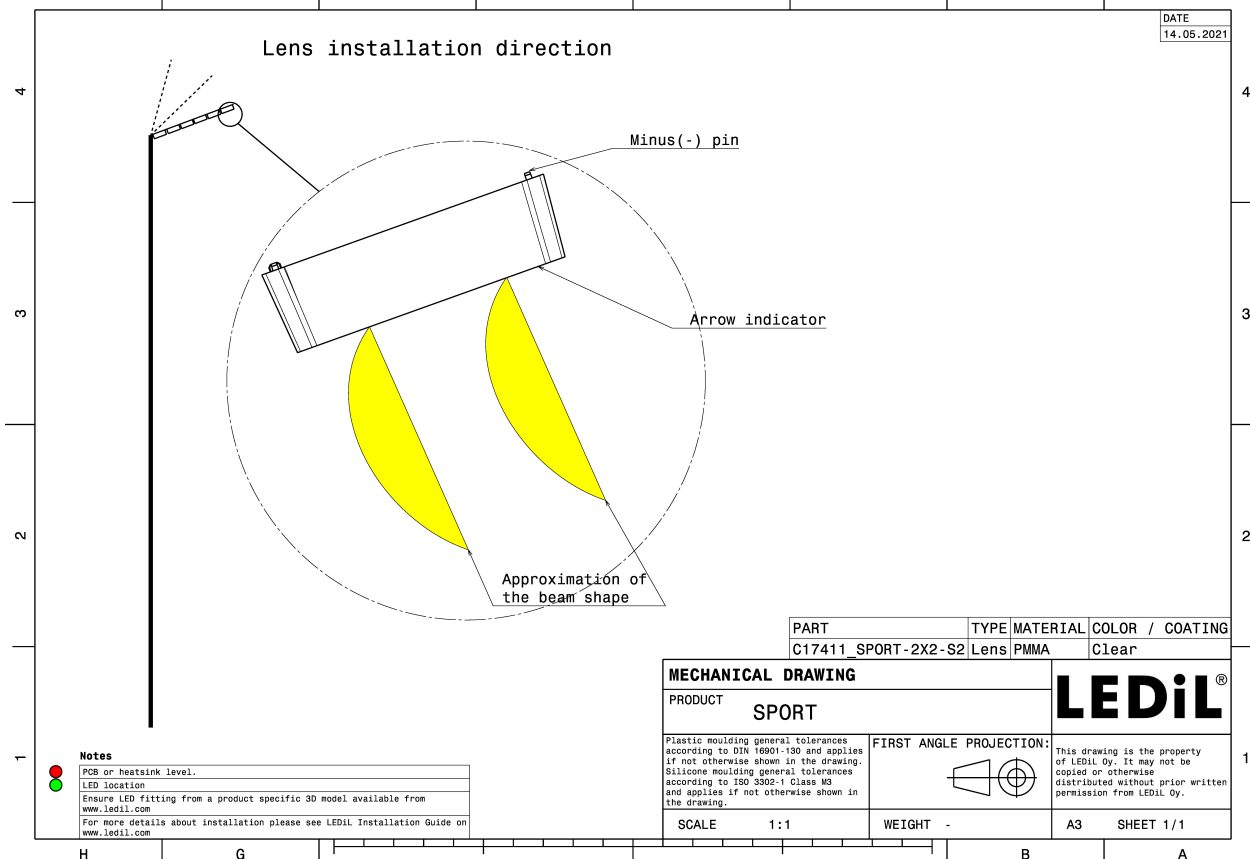
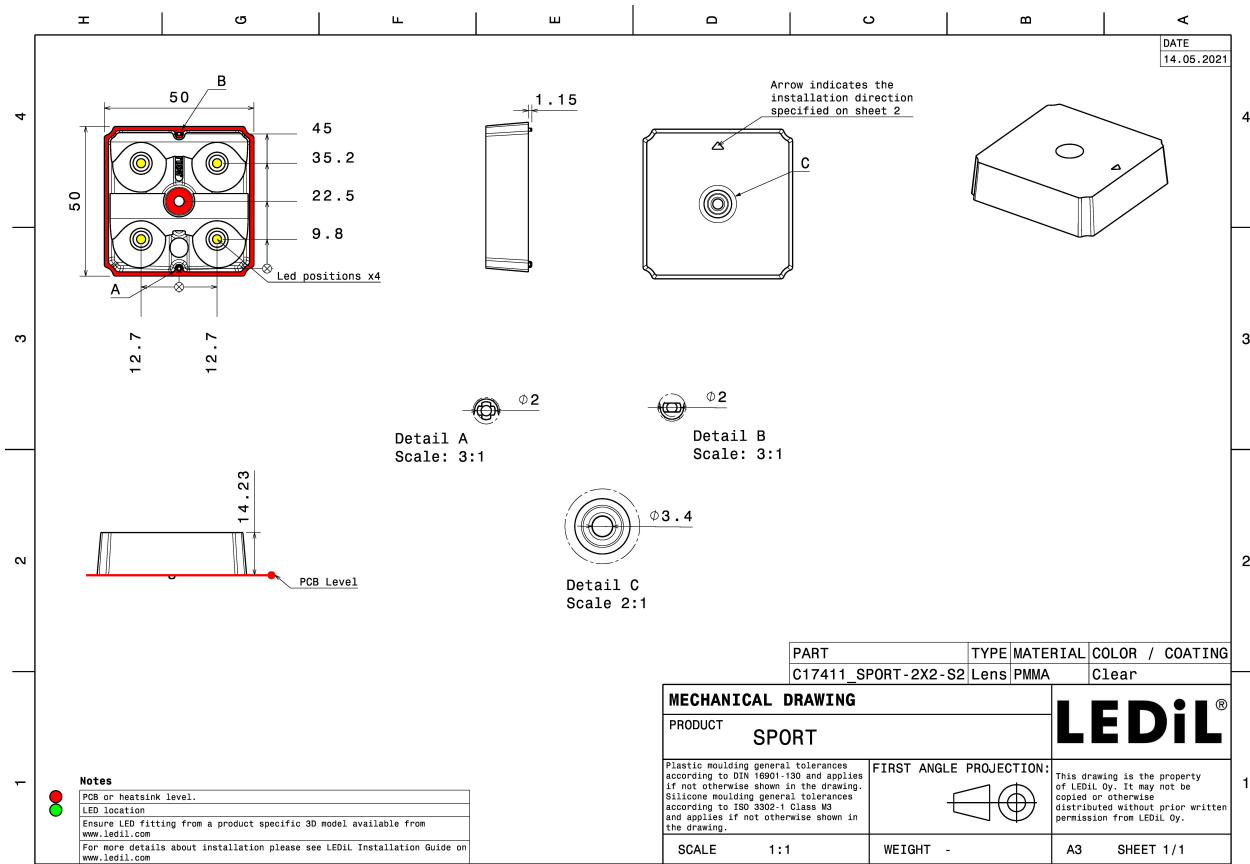


### MATERIALS:

| Component    | Type       | Material | Colour | Finish | Length (mm) |
|--------------|------------|----------|--------|--------|-------------|
| SPORT-2X2-S2 | Multi-lens | PMMA     | clear  |        |             |

### ORDERING INFORMATION:

| Component                                             | Qty in box | MOQ | MPQ | Box weight (kg) |
|-------------------------------------------------------|------------|-----|-----|-----------------|
| C17411_SPORT-2X2-S2<br>» Box size: 480 x 280 x 300 mm | 476        | 140 | 28  | 10.5            |

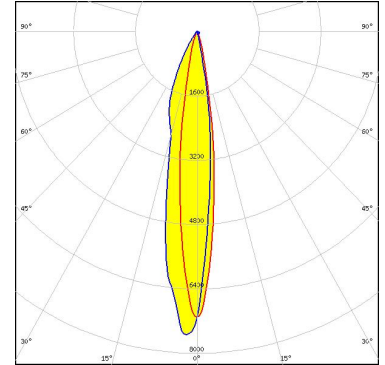


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



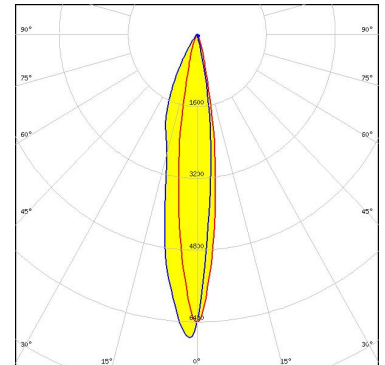
LED XP-G4  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON HL2X  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 6.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

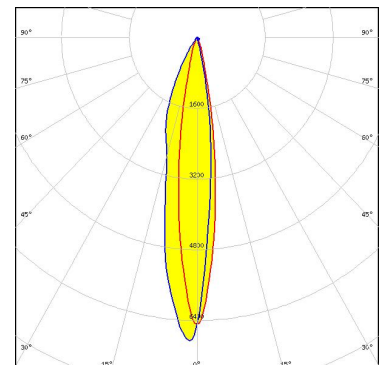


Light distribution files

Protective plate, glass



LED LUXEON HL2X  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 6.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

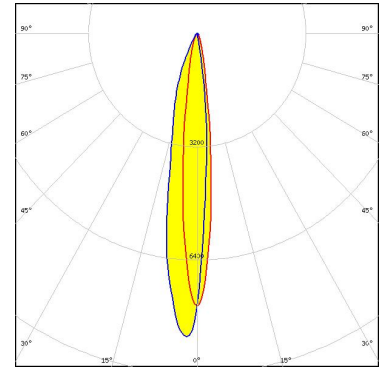


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

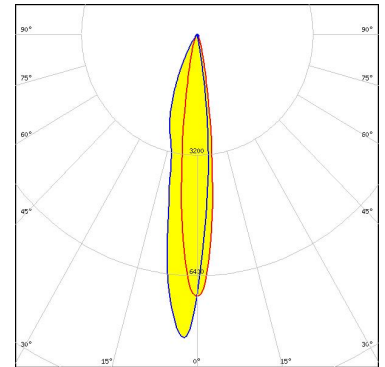
LED OSCONIQ C 3030  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 8.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

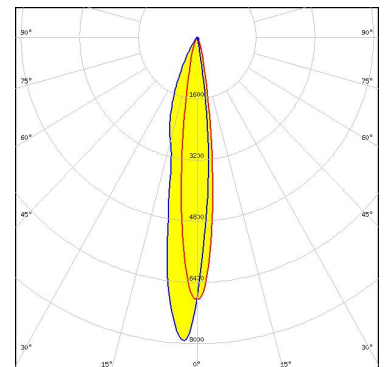
LED OSLOM Square CSSRM2/CSSRM3  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 8.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
FWHM / FWTM Asymmetric  
Efficiency 93 %  
Peak intensity 7.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



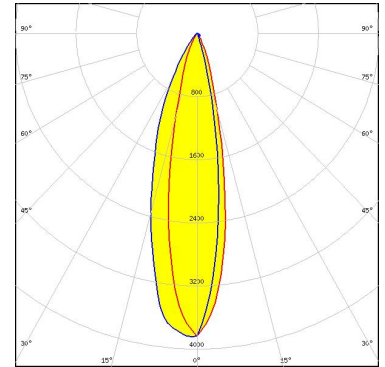
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



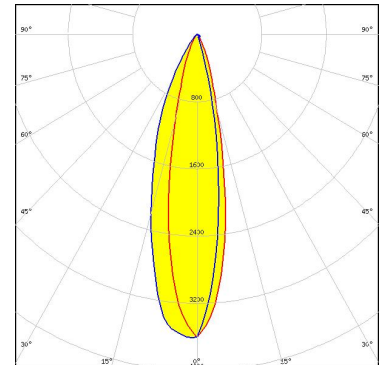
LED J Series 5050 6V P Class  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 3.8 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED J Series 5050 6V P Class  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 3.6 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

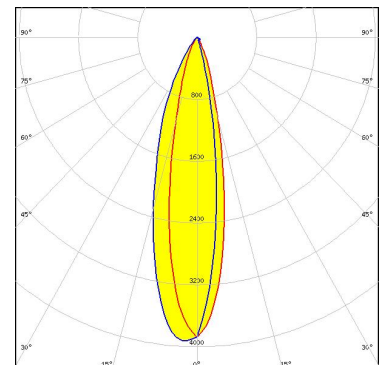


Light distribution files

Protective plate, glass



LED J Series 5050C 6V E Class  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 3.9 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

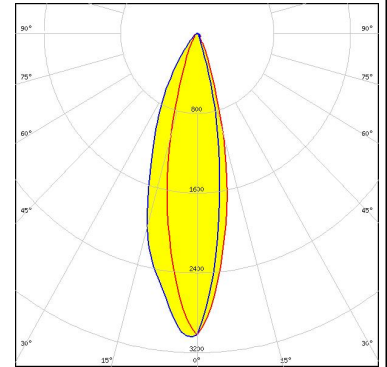
#### OPTICAL RESULTS (SIMULATED):



LED XHP35.2 HD  
FWHM / FWTM Asymmetric  
Efficiency 86 %  
Peak intensity 3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

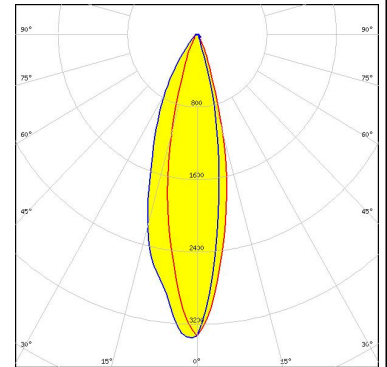
Protective plate, glass

Light distribution files



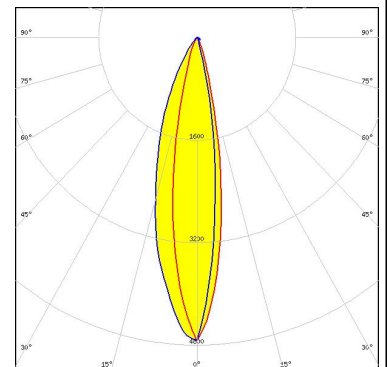
LED XHP35.2 HD  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



LED XHP35.2 HI  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 4.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



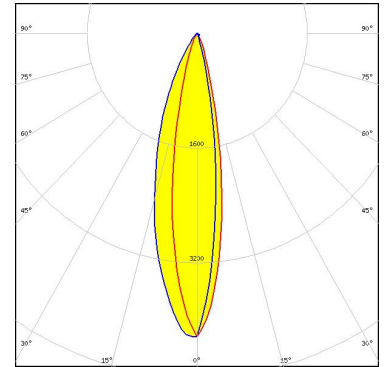
#### OPTICAL RESULTS (SIMULATED):



LED XHP35.2 HI  
FWHM / FWTM Asymmetric  
Efficiency 87 %  
Peak intensity 4.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

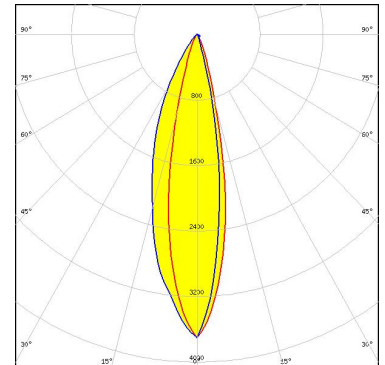
Light distribution files



LED XM-L3  
FWHM / FWTM Asymmetric  
Efficiency 87 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

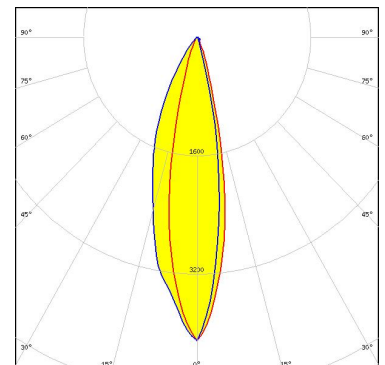
Protective plate, glass

Light distribution files



LED XM-L3  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

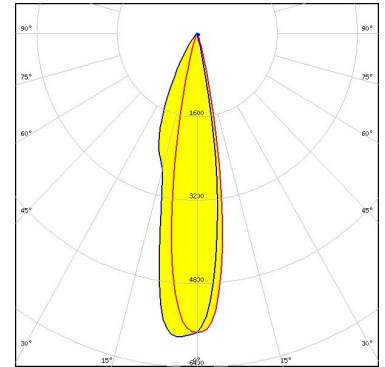
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



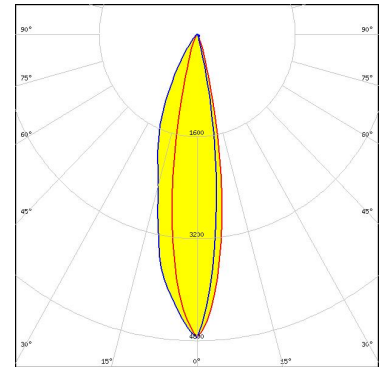
LED XP-G2 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 5.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G3  
 FWHM / FWTM Asymmetric  
 Efficiency 90 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

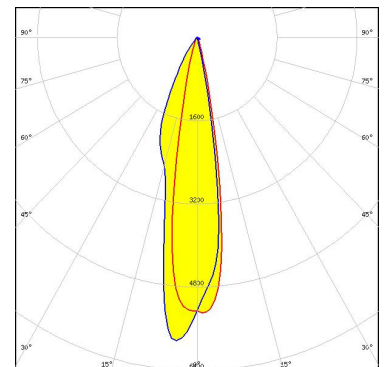


Light distribution files

Protective plate, glass



LED XP-G4 HI  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 5.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

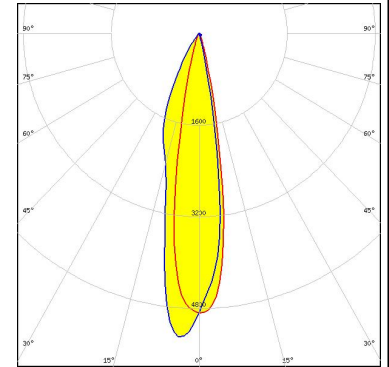
#### OPTICAL RESULTS (SIMULATED):



LED XP-G4 HI  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 5.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

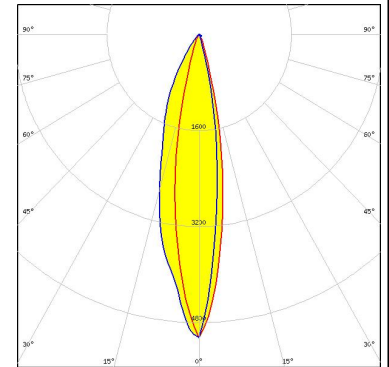
Protective plate, glass

Light distribution files



LED XP-L HD  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

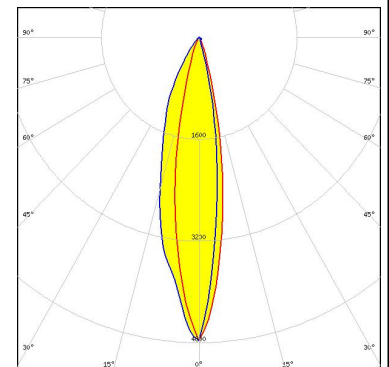
Light distribution files



LED XP-L HD  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

Light distribution files



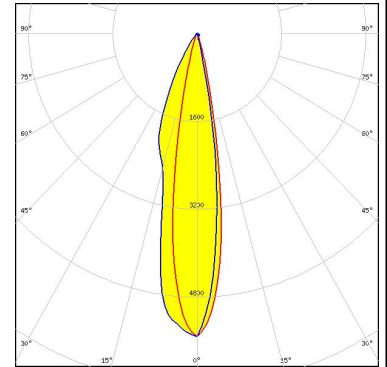
#### OPTICAL RESULTS (SIMULATED):



LED XP-L HI  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

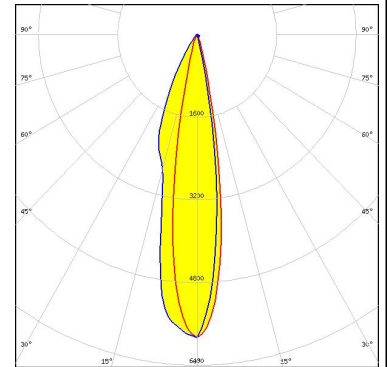
Protective plate, glass

Light distribution files



LED XP-L HI  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 5.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

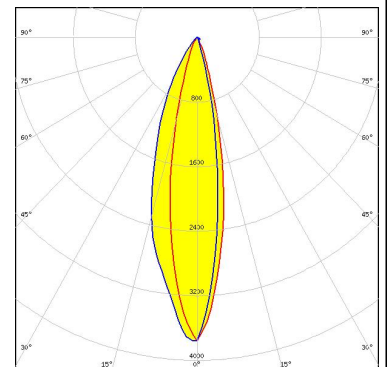
Light distribution files



LED XP-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 87 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

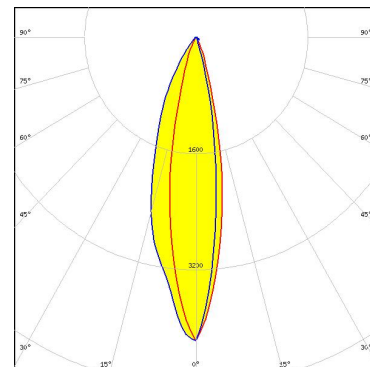
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



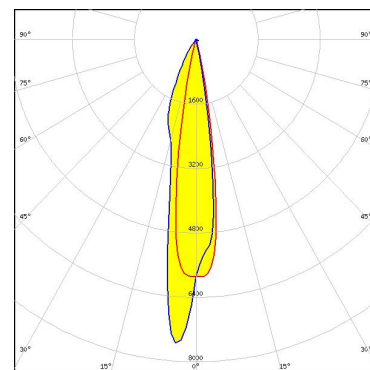
LED XP-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-P  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

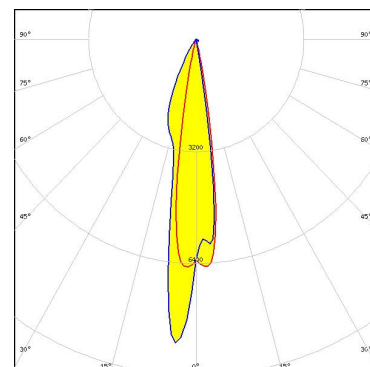


Light distribution files

Protective plate, glass



LED XP-P  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 8.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

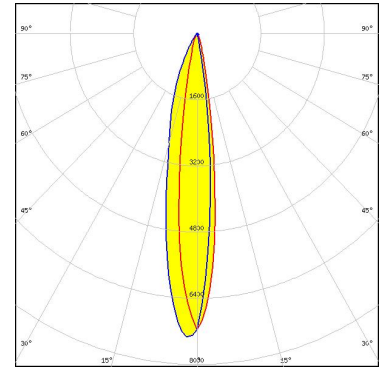
#### OPTICAL RESULTS (SIMULATED):



LED LUXEON 3030 2D (Round LES)  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 7.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

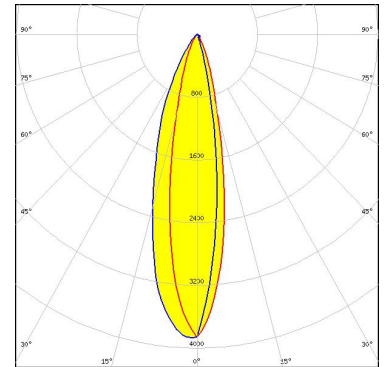
Protective plate, glass

Light distribution files



LED LUXEON 5050 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 3.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

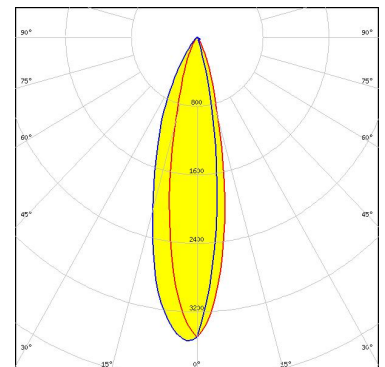
Light distribution files



LED LUXEON 5050 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

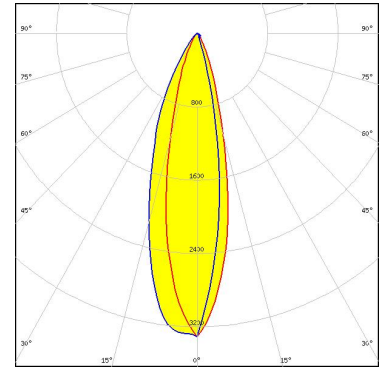
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



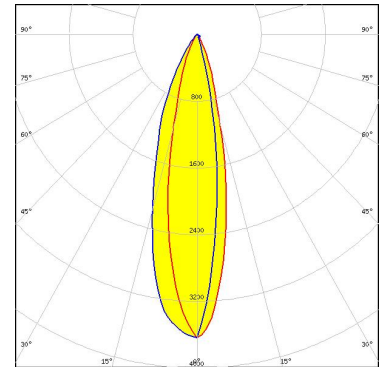
|                      |                     |
|----------------------|---------------------|
| LED                  | LUXEON 5050 HE Plus |
| FWHM / FWTM          | Asymmetric          |
| Efficiency           | 96 %                |
| Peak intensity       | 3.3 cd/lm           |
| LEDs/each optic      | 1                   |
| Light colour/type    | White               |
| Required components: |                     |



Light distribution files



|                      |                       |
|----------------------|-----------------------|
| LED                  | LUXEON 5050 Round LES |
| FWHM / FWTM          | Asymmetric            |
| Efficiency           | 91 %                  |
| Peak intensity       | 3.6 cd/lm             |
| LEDs/each optic      | 1                     |
| Light colour/type    | White                 |
| Required components: |                       |

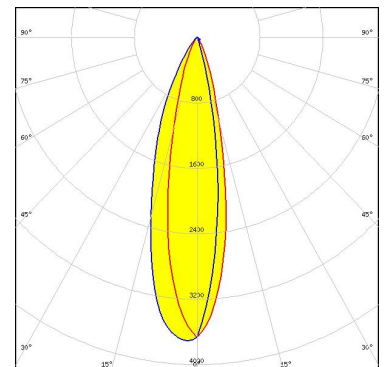


Light distribution files

Protective plate, glass



|                      |                        |
|----------------------|------------------------|
| LED                  | LUXEON 5050 Square LES |
| FWHM / FWTM          | Asymmetric             |
| Efficiency           | 96 %                   |
| Peak intensity       | 3.7 cd/lm              |
| LEDs/each optic      | 1                      |
| Light colour/type    | White                  |
| Required components: |                        |



Light distribution files

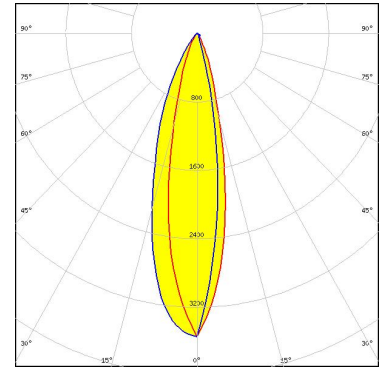
#### OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Square LES  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

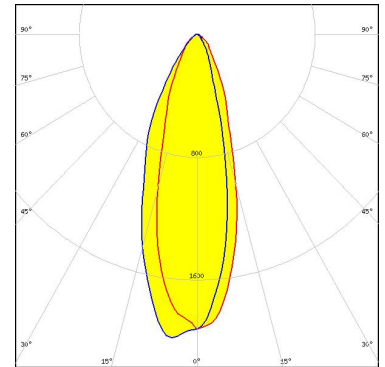
Protective plate, glass

Light distribution files



LED LUXEON 7070  
 FWHM / FWTM Asymmetric  
 Efficiency 95 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

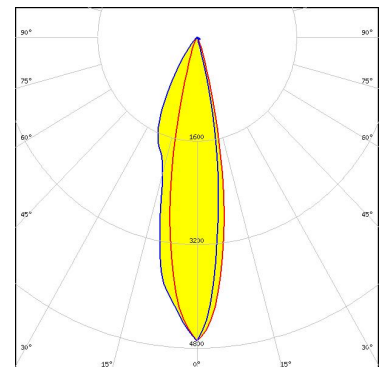
Light distribution files



LED LUXEON HL2X  
 FWHM / FWTM Asymmetric  
 Efficiency 90 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

Light distribution files



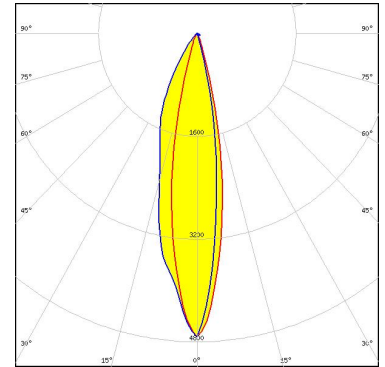
#### OPTICAL RESULTS (SIMULATED):



LED LUXEON HL2X-E  
 FWHM / FWTM Asymmetric  
 Efficiency 89 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

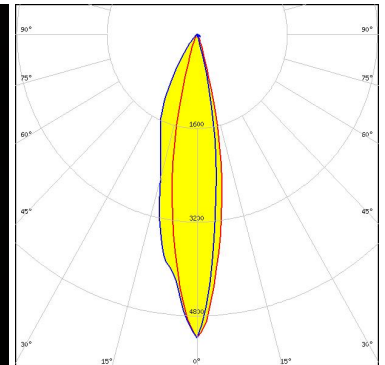
Light distribution files



LED LUXEON HL2X-E  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



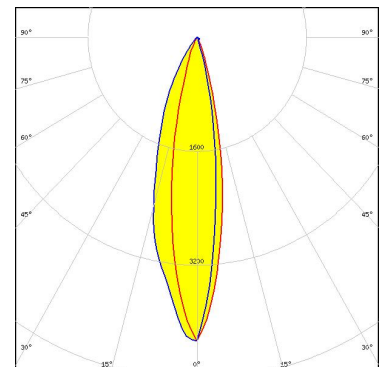
Light distribution files



LED LUXEON HL4X  
 FWHM / FWTM Asymmetric  
 Efficiency 89 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

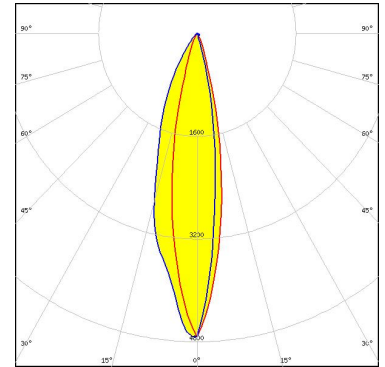
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



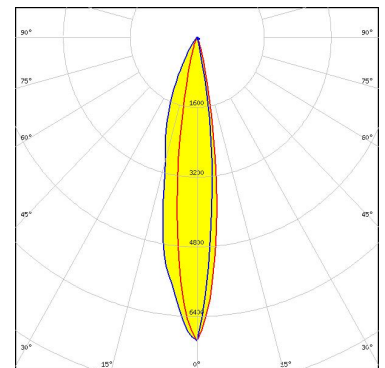
LED LUXEON HL4X  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



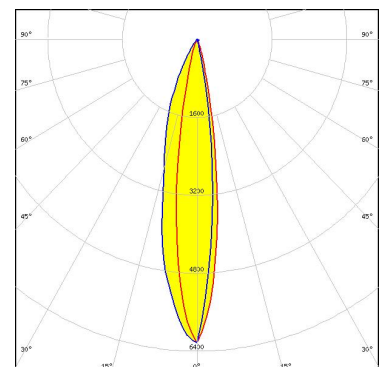
LED LUXEON HL4Z  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON HL4Z  
 FWHM / FWTM Asymmetric  
 Efficiency 89 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Protective plate, glass

Light distribution files

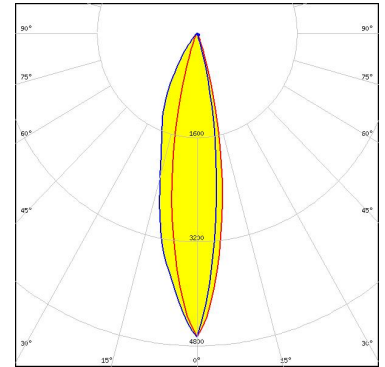
#### OPTICAL RESULTS (SIMULATED):



|                      |                                     |
|----------------------|-------------------------------------|
| LED                  | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM          | Asymmetric                          |
| Efficiency           | 88 %                                |
| Peak intensity       | 4.7 cd/lm                           |
| LEDs/each optic      | 1                                   |
| Light colour/type    | White                               |
| Required components: |                                     |

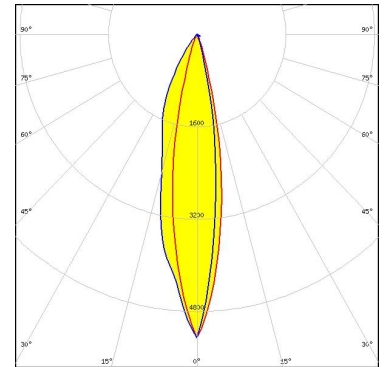
Protective plate, glass

Light distribution files



|                      |                                     |
|----------------------|-------------------------------------|
| LED                  | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM          | Asymmetric                          |
| Efficiency           | 96 %                                |
| Peak intensity       | 5.3 cd/lm                           |
| LEDs/each optic      | 1                                   |
| Light colour/type    | White                               |
| Required components: |                                     |

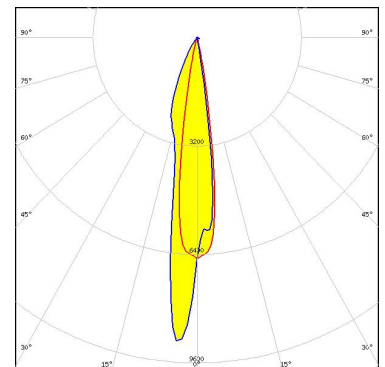
Light distribution files



|                      |             |
|----------------------|-------------|
| LED                  | SFT-12R-W-A |
| FWHM / FWTM          | Asymmetric  |
| Efficiency           | 89 %        |
| Peak intensity       | 9 cd/lm     |
| LEDs/each optic      | 1           |
| Light colour/type    | White       |
| Required components: |             |

Protective plate, glass

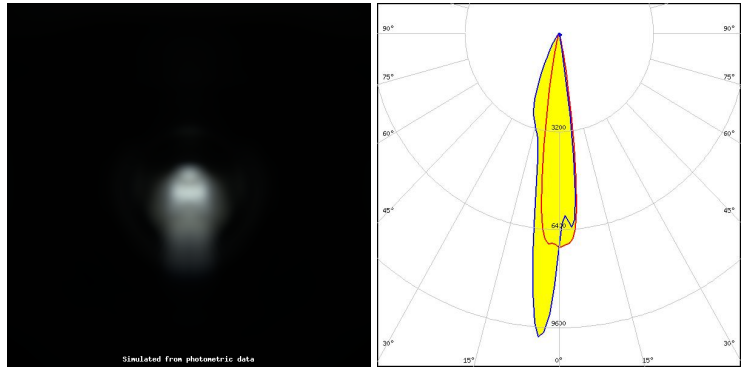
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



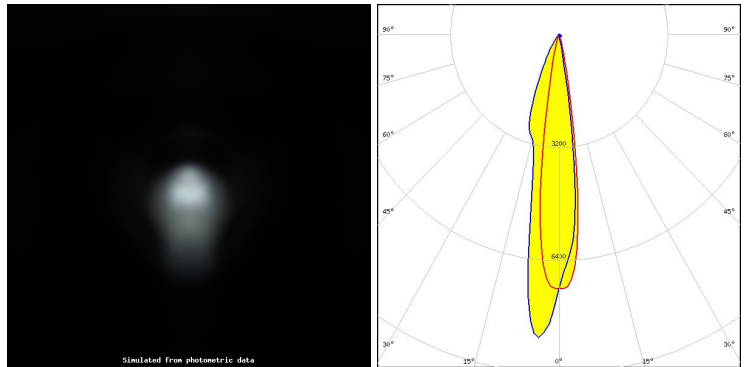
LED SFT-12R-W-A  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 9.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



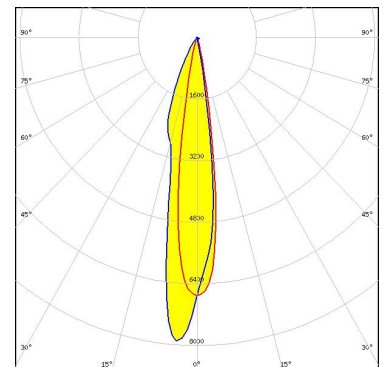
LED SFT-25R-W-A  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 8.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED SFT-25R-W-A  
FWHM / FWTM Asymmetric  
Efficiency 89 %  
Peak intensity 7.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Protective plate, glass

Light distribution files

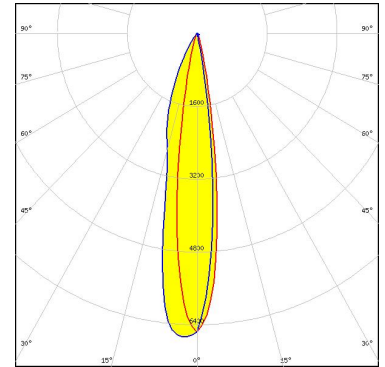
#### OPTICAL RESULTS (SIMULATED):



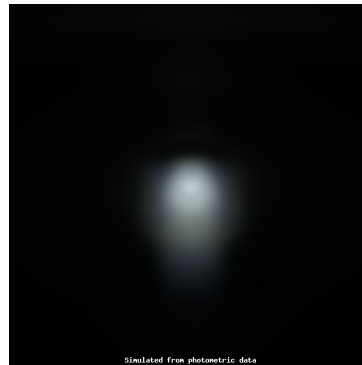
LED SST-20 Gen1  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 6.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

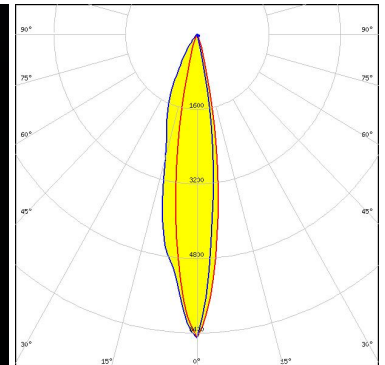
Light distribution files



LED SST-20F-W  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 6.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



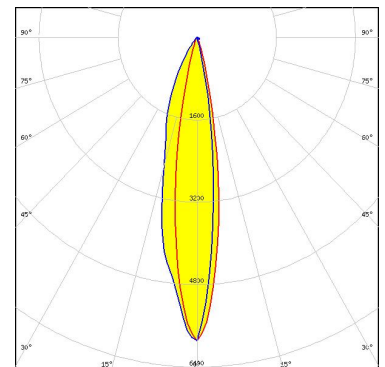
Light distribution files



LED SST-20F-W  
 FWHM / FWTM Asymmetric  
 Efficiency 89 %  
 Peak intensity 5.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

Light distribution files

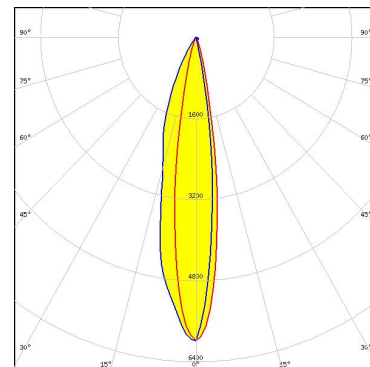


#### OPTICAL RESULTS (SIMULATED):



LED SST-25-W  
FWHM / FWTM Asymmetric  
Efficiency 88 %  
Peak intensity 6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

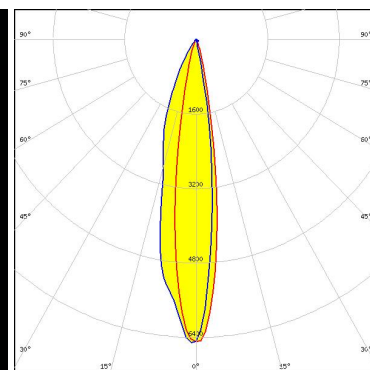
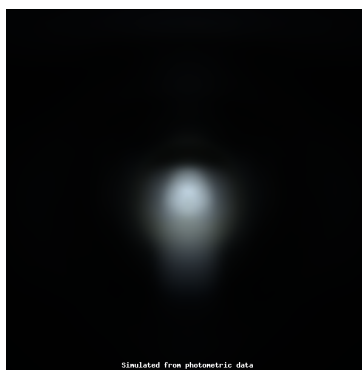
Protective plate, glass



Light distribution files



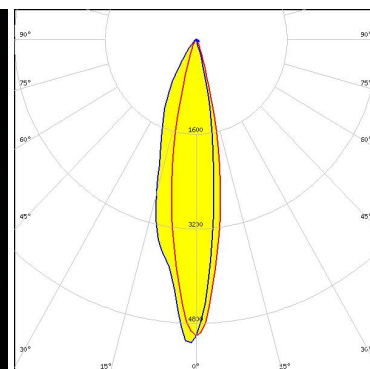
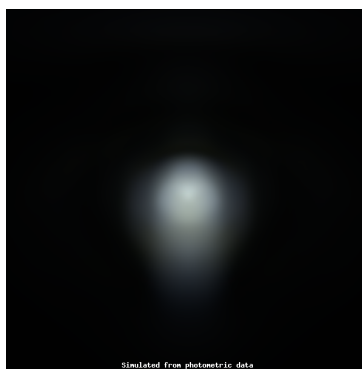
LED SST-25-W  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 6.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED SST-36F-W  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

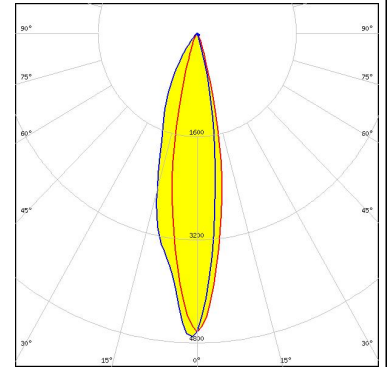
#### OPTICAL RESULTS (SIMULATED):



LED SST-36F-W  
FWHM / FWTM Asymmetric  
Efficiency 89 %  
Peak intensity 4.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

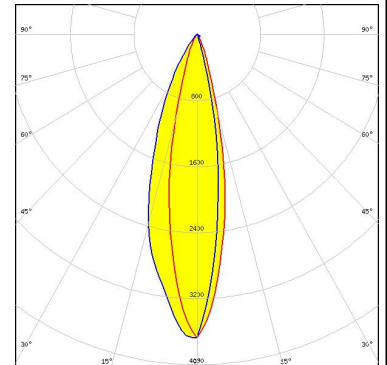
Light distribution files



LED SST-70X-WCS  
FWHM / FWTM Asymmetric  
Efficiency 88 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

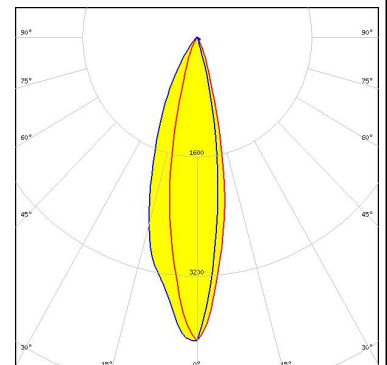
Protective plate, glass

Light distribution files



LED SST-70X-WCS  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



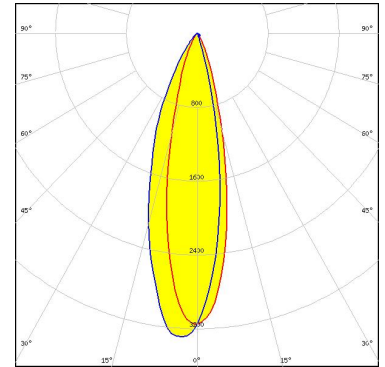
#### OPTICAL RESULTS (SIMULATED):



LED NFMW486AM-V2  
 FWHM / FWTM Asymmetric  
 Efficiency 89 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

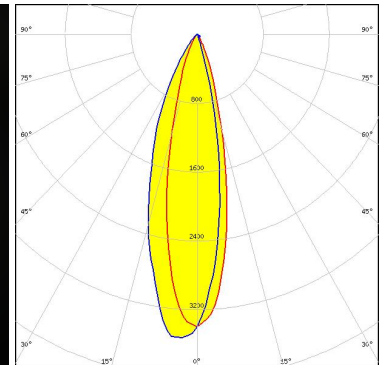
Light distribution files



LED NFMW486AM-V2  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



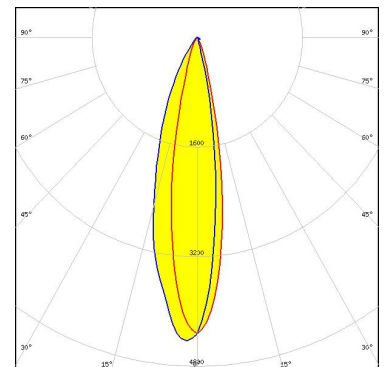
Light distribution files



LED NV4WB35AM  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

Light distribution files



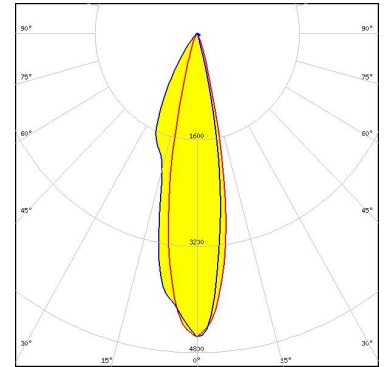
#### OPTICAL RESULTS (SIMULATED):



LED NVSW219D  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

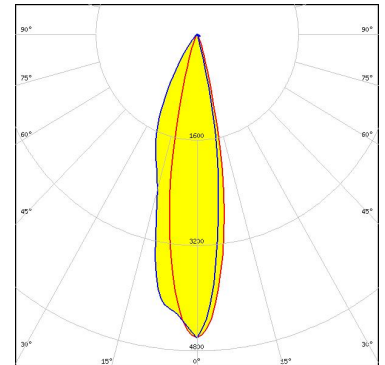
Light distribution files



LED NVSW219F-V2  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

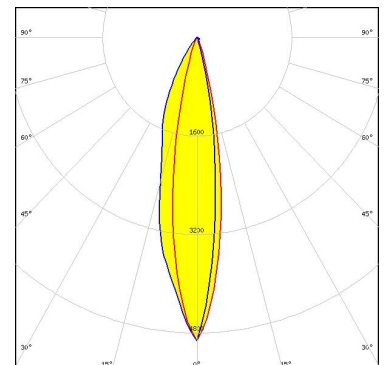
Light distribution files



LED NVSW3x9A  
 FWHM / FWTM Asymmetric  
 Efficiency 90 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

Light distribution files



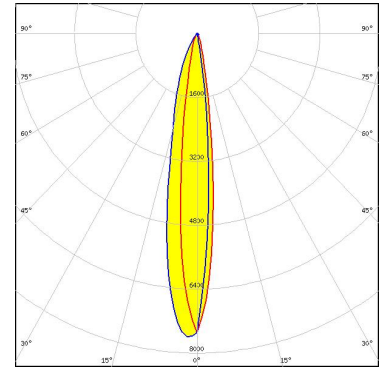
#### OPTICAL RESULTS (SIMULATED):



LED NVSxE21A  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

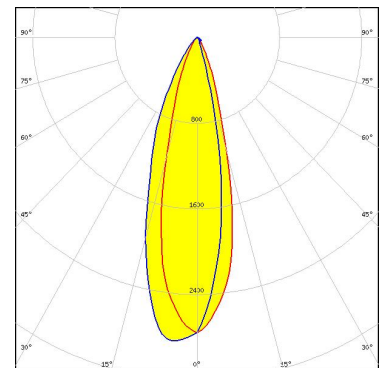
Light distribution files



LED Duris S8  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

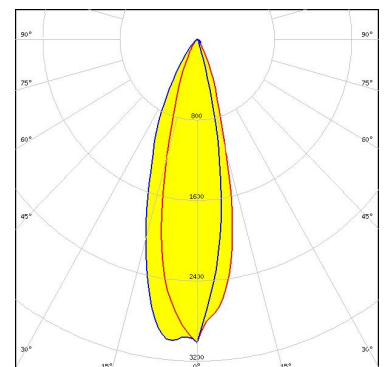
Protective plate, glass

Light distribution files



LED Duris S8  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

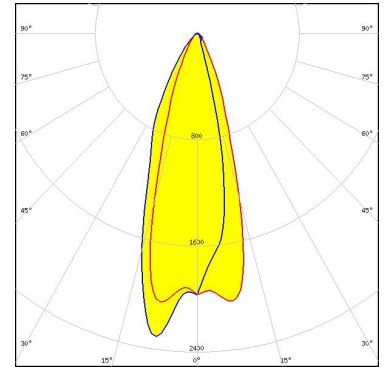
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

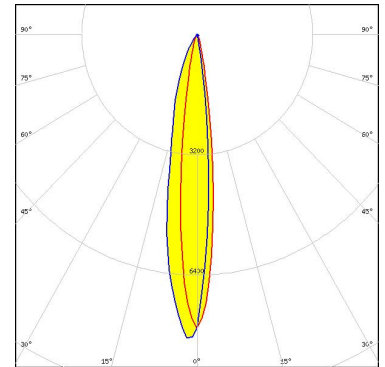
LED OSCONIQ C 2424 Gen1  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 4  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 2424 Gen2  
FWHM / FWTM Asymmetric  
Efficiency 89 %  
Peak intensity 8.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

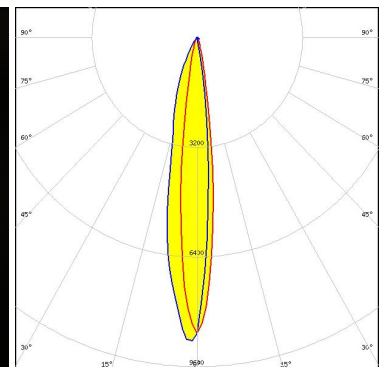
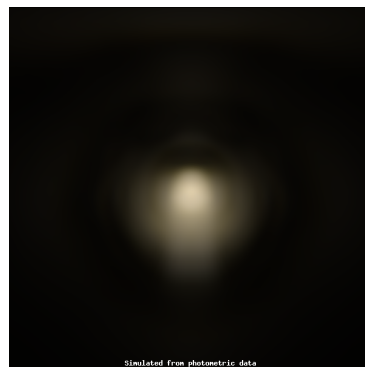


Light distribution files

Protective plate, glass

**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 2424 Gen2  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 8.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

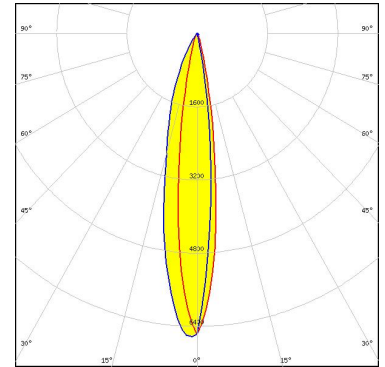
#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 3030  
FWHM / FWTM Asymmetric  
Efficiency 88 %  
Peak intensity 6.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

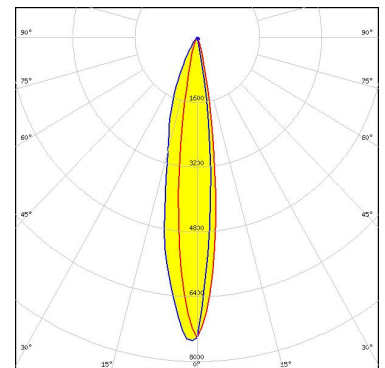
Light distribution files



**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 3030  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 7.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

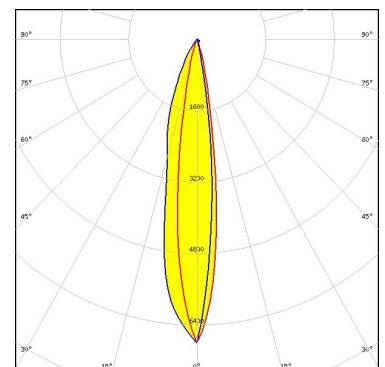


**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 (2W) PUSRA1  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

Light distribution files



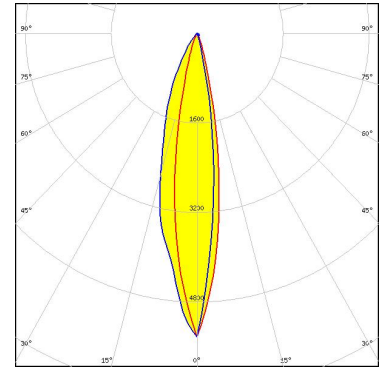
#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 (3W) PUSTA1  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 5.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

Light distribution files

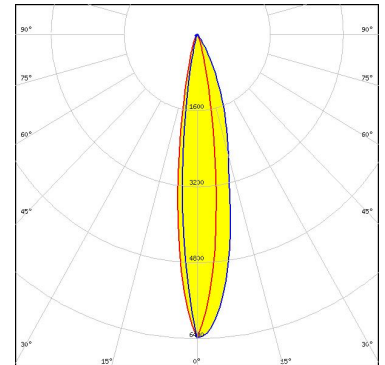


**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 Flat  
FWHM / FWTM Asymmetric  
Efficiency 92 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

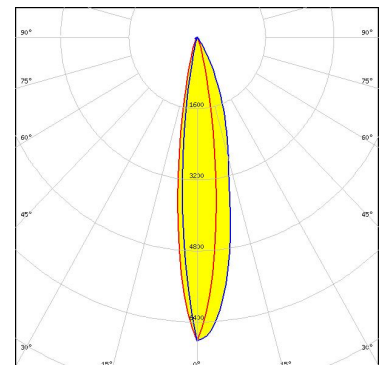
Light distribution files



**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 Flat  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



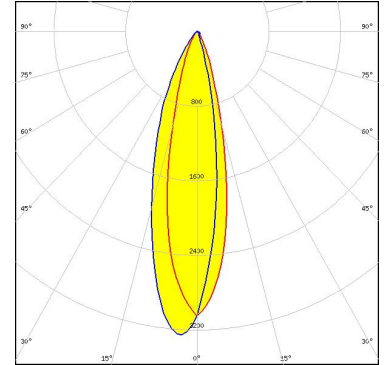
#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED OSCONIQ S 5050 (Q9LR32)  
FWHM / FWTM Asymmetric  
Efficiency 88 %  
Peak intensity 3.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

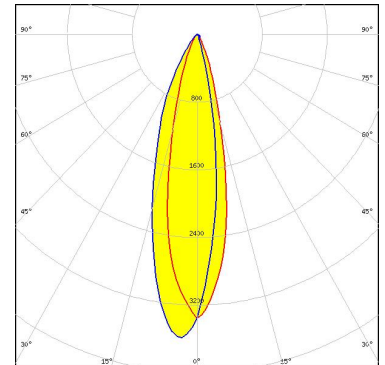
Light distribution files



**OSRAM**  
Opto Semiconductors

LED OSCONIQ S 5050 (Q9LR32)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

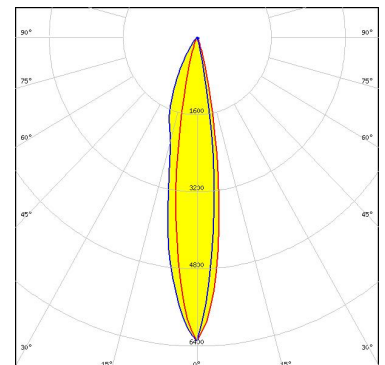


**OSRAM**  
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 6.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

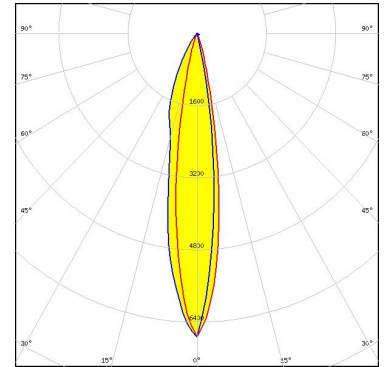
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

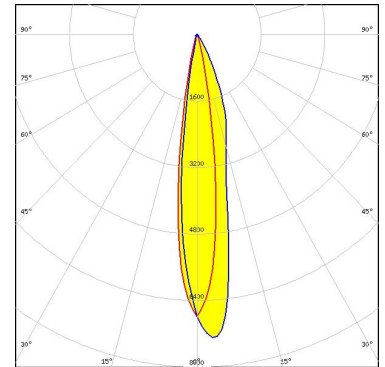
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 6.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON Square Flat  
FWHM / FWTM Asymmetric  
Efficiency 92 %  
Peak intensity 7.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

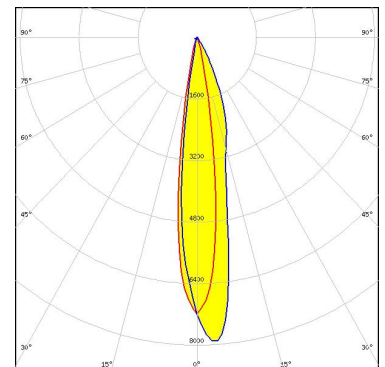


Light distribution files

Protective plate, glass

**OSRAM**  
Opto Semiconductors

LED OSLON Square Flat  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 7.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

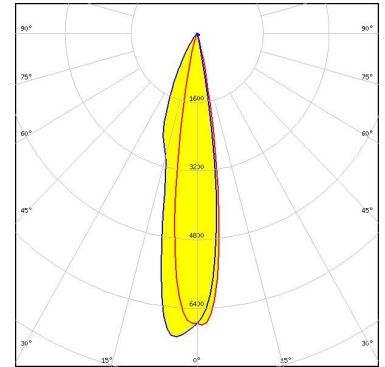


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

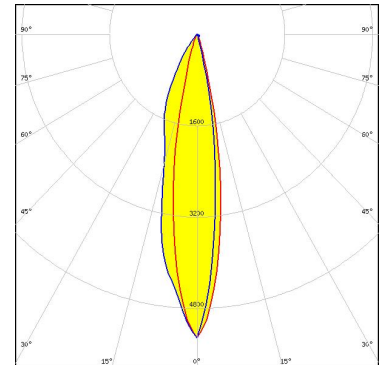
LED OSTAR Projection Compact (KW.CSLNM1.TG)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 7.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED LH351B  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 5.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

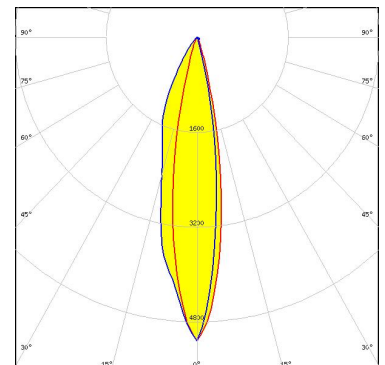


Light distribution files

Protective plate, glass

**SAMSUNG**

LED LH351C  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

Protective plate, glass

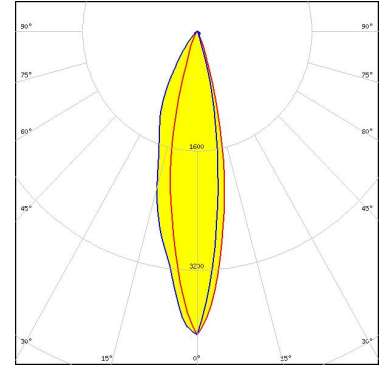
#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED LH351D  
FWHM / FWTM Asymmetric  
Efficiency 90 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

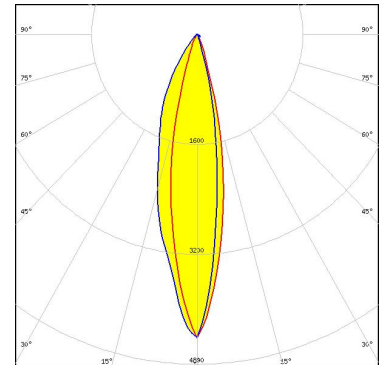
Light distribution files



### SAMSUNG

LED LH351D  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 4.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

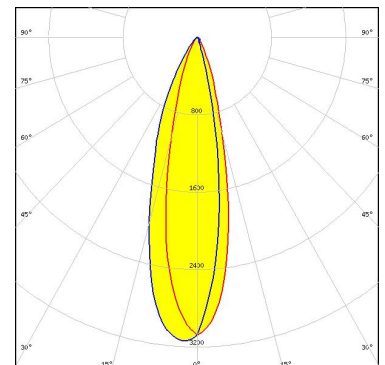


### SAMSUNG

LED LH502C  
FWHM / FWTM Asymmetric  
Efficiency 89 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

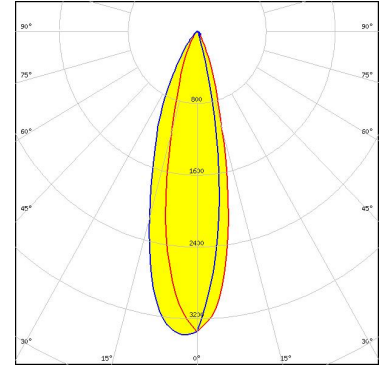
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

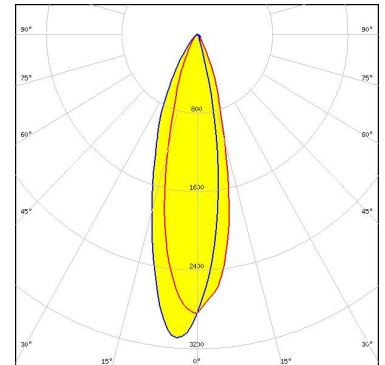
LED LH502C  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED MJT 5050  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

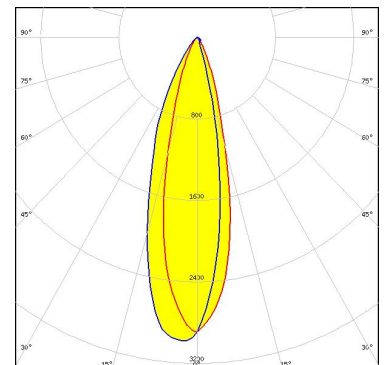


Light distribution files

Protective plate, glass



LED SEOUL DC 5050 6V  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



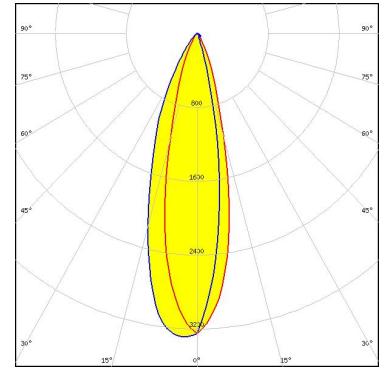
Light distribution files

Protective plate, glass

#### OPTICAL RESULTS (SIMULATED):



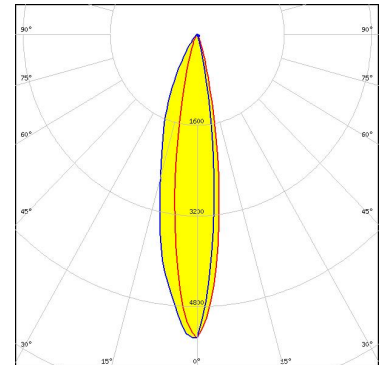
LED: SEOUL DC 5050 6V  
 FWHM / FWTM: Asymmetric  
 Efficiency: 96 %  
 Peak intensity: 3.3 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:



Light distribution files



LED: Z5M3  
 FWHM / FWTM: Asymmetric  
 Efficiency: 91 %  
 Peak intensity: 5.4 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:

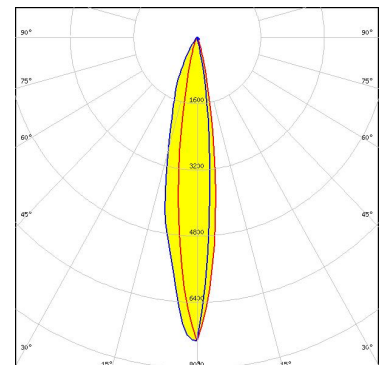


Light distribution files

Protective plate, glass

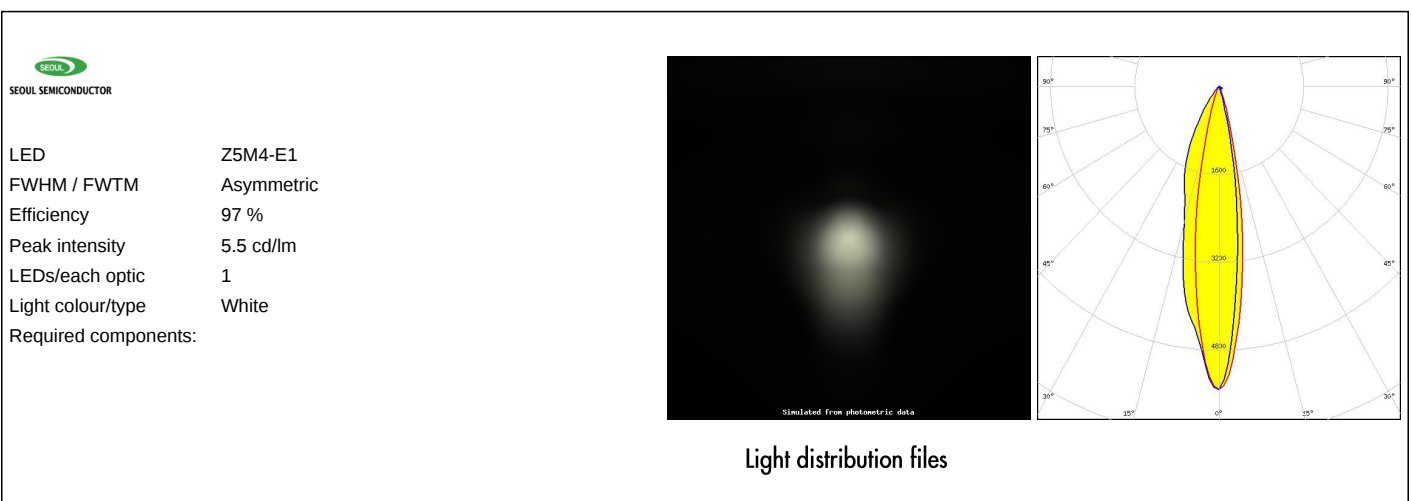
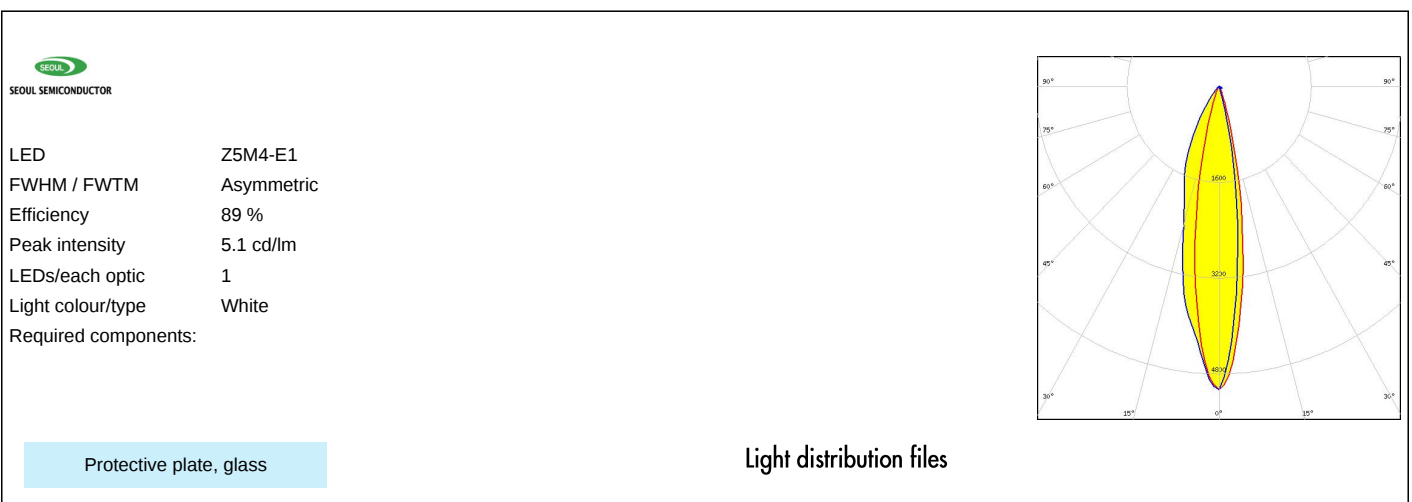
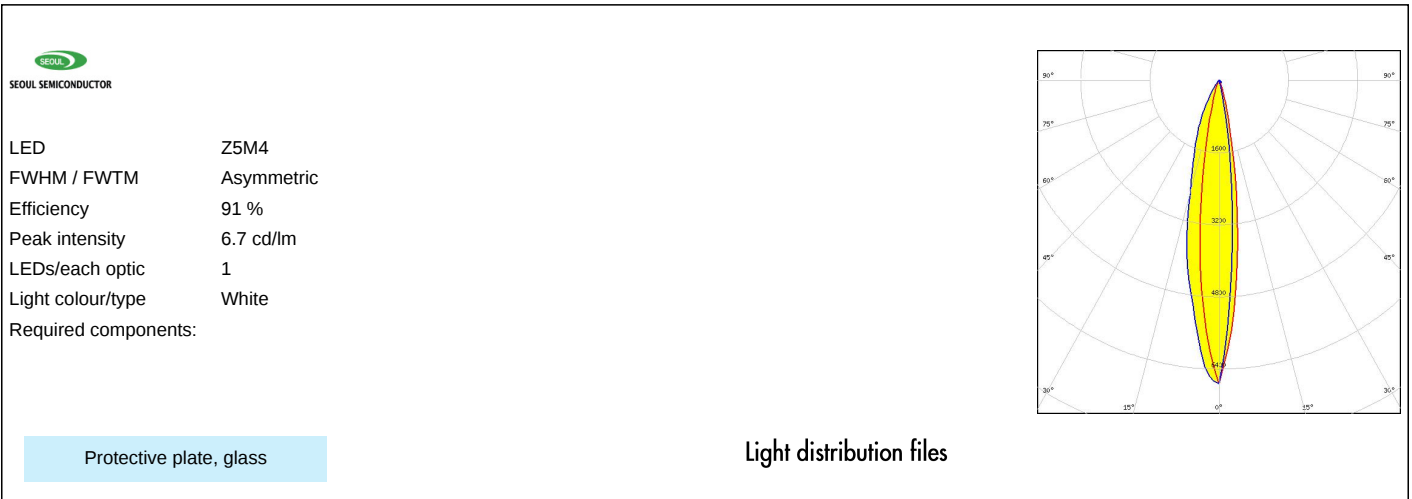


LED: Z5M4  
 FWHM / FWTM: Asymmetric  
 Efficiency: 97 %  
 Peak intensity: 7.3 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:

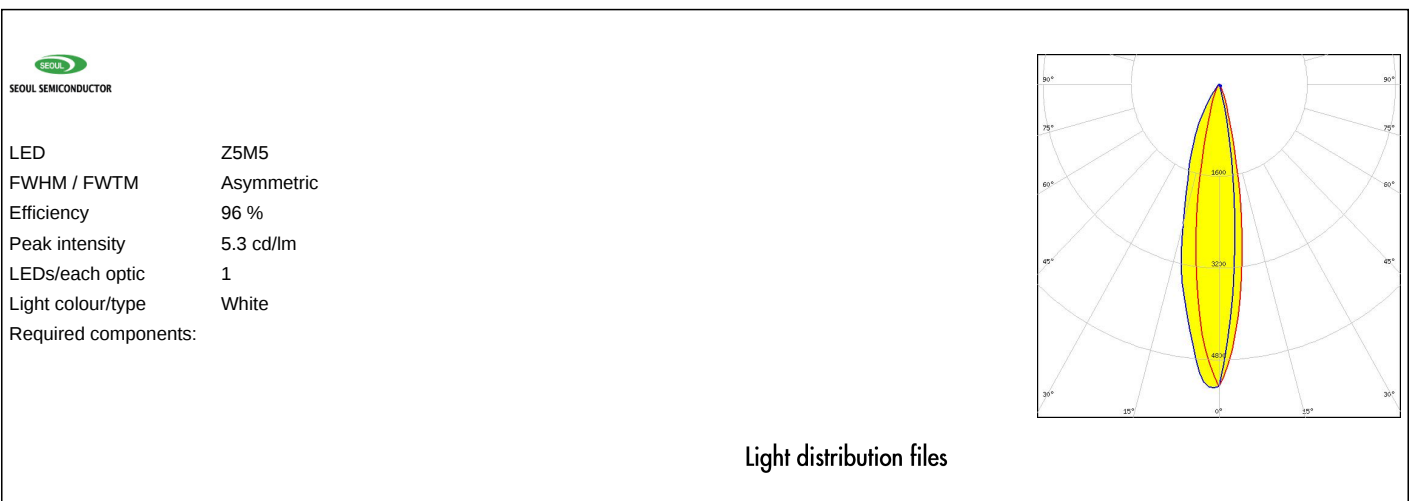
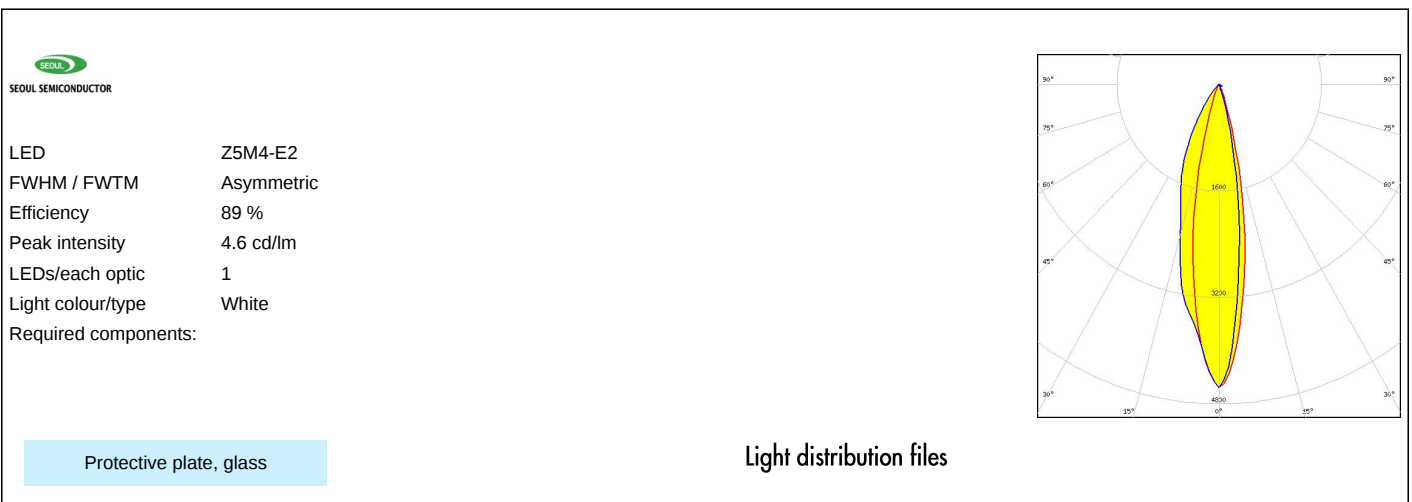
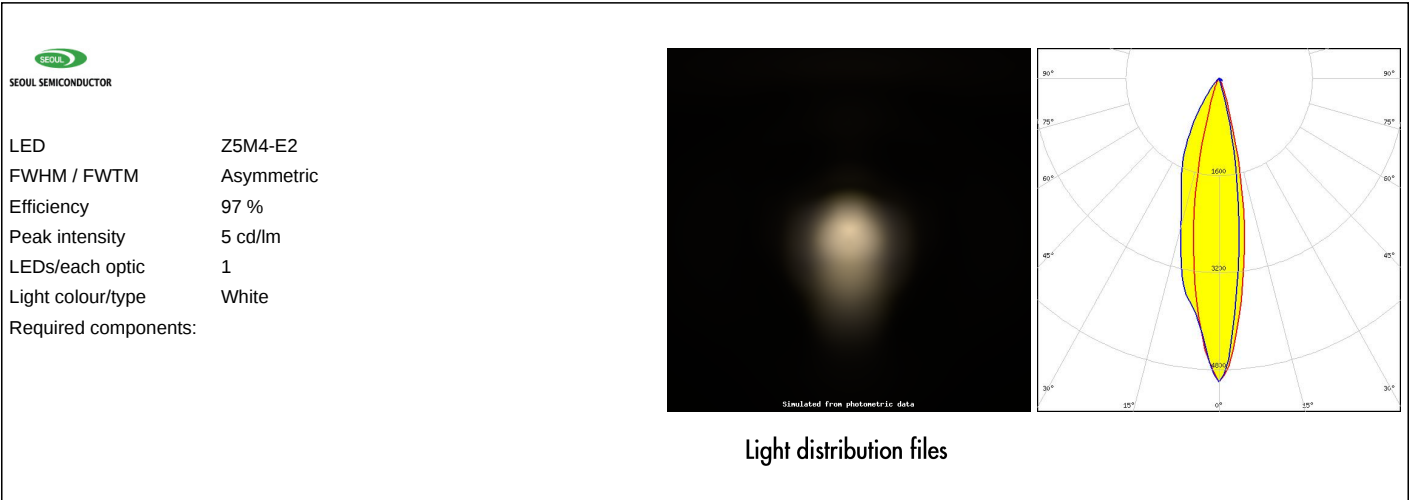


Light distribution files

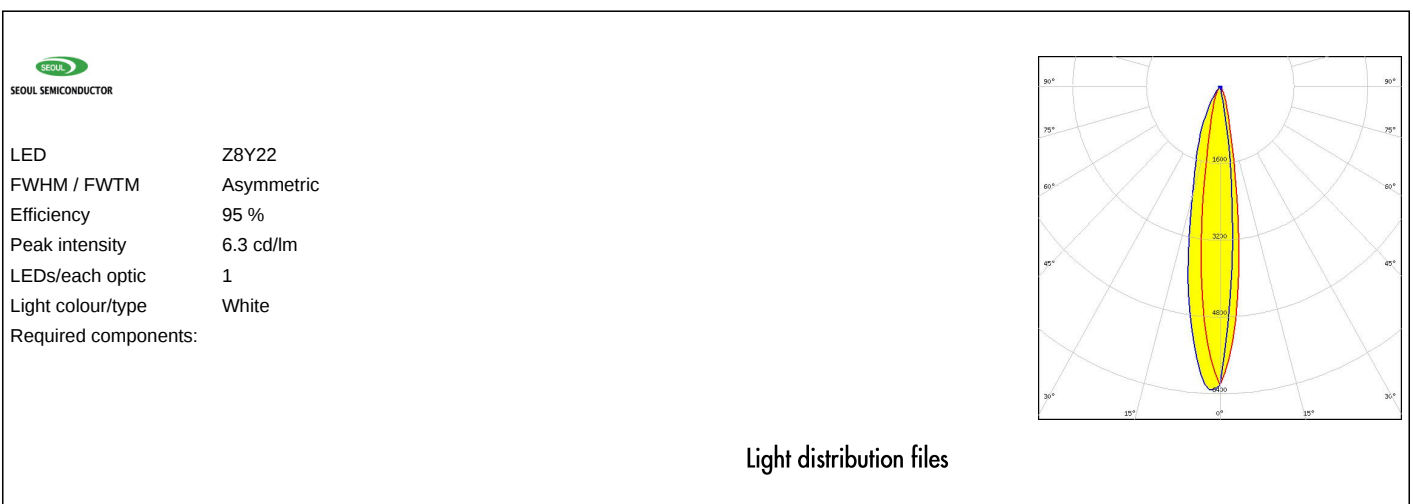
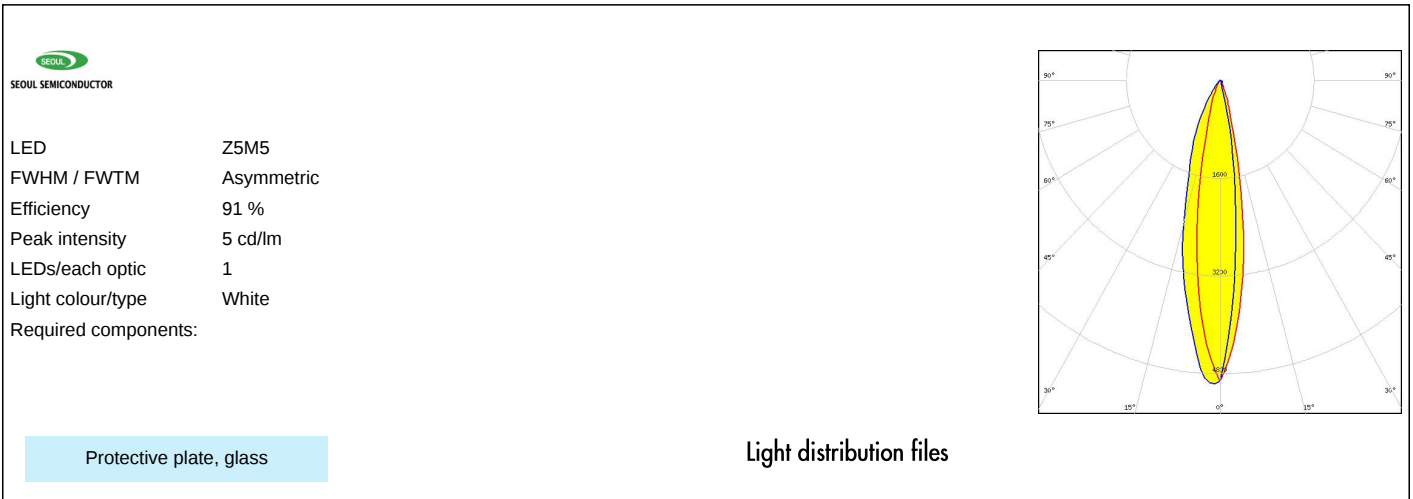
#### OPTICAL RESULTS (SIMULATED):



#### 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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