

## LISA3-O-PIN

~15° x 50° oval beam with location pin  
installation

## SPECIFICATION:

|                |        |
|----------------|--------|
| Dimensions     | Ø 10.0 |
| Height         | 7.9 mm |
| Fastening      | glue   |
| ROHS compliant | yes ⓘ  |

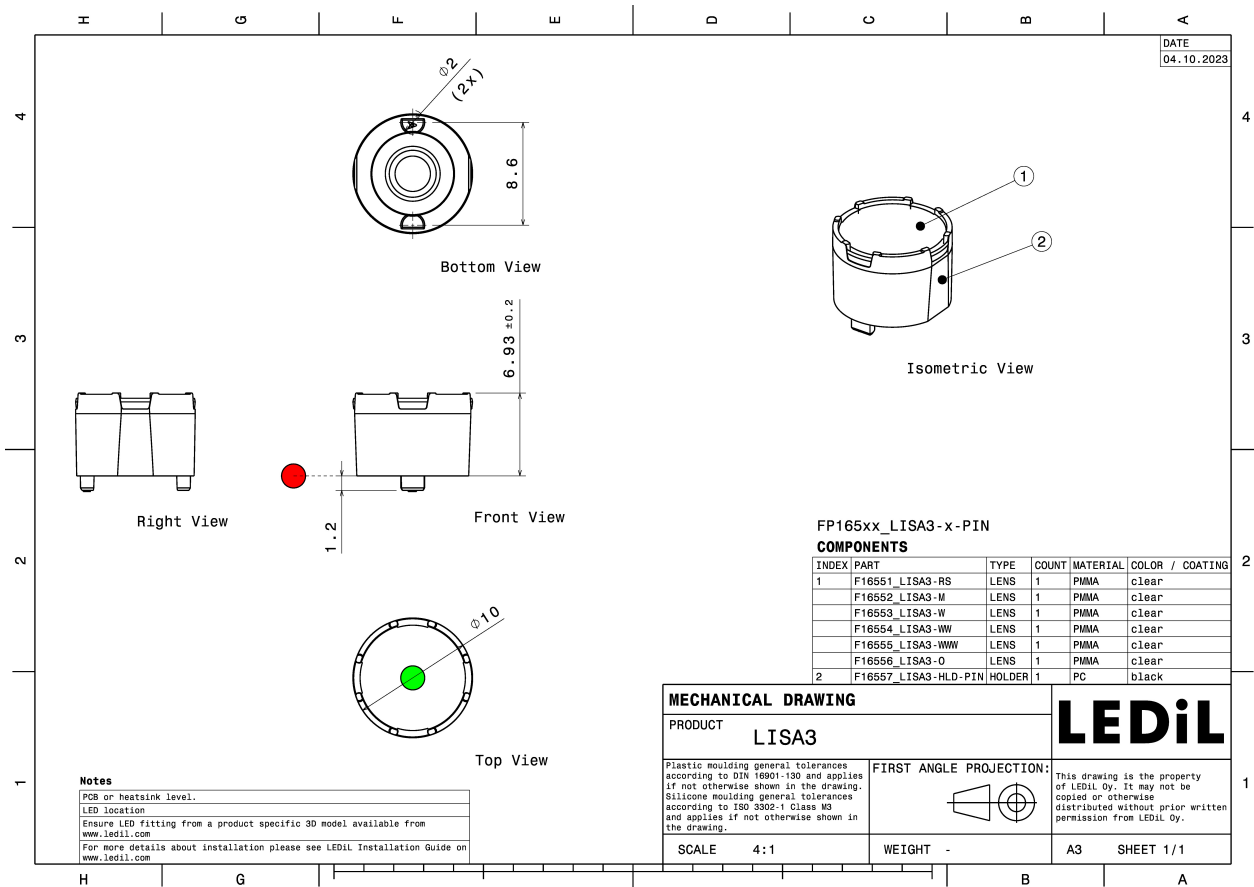


## MATERIALS:

| Component     | Type        | Material | Colour | Finish | Length (mm) |
|---------------|-------------|----------|--------|--------|-------------|
| LISA3-O       | Single lens | PMMA     | clear  |        |             |
| LISA3-HLD-PIN | Holder      | PC       | black  |        |             |

## ORDERING INFORMATION:

| Component                                            | Qty in box | MOQ | MPQ | Box weight (kg) |
|------------------------------------------------------|------------|-----|-----|-----------------|
| FP16563_LISA3-O-PIN<br>» Box size: 310 x 230 x 60 mm | 2000       | 300 | 100 | 1.3             |

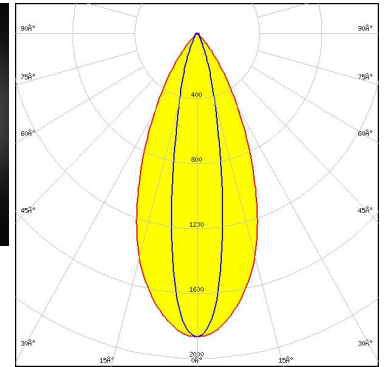
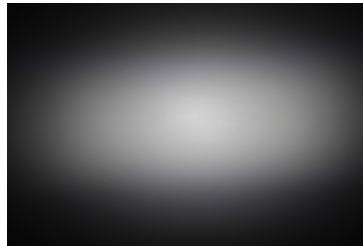


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



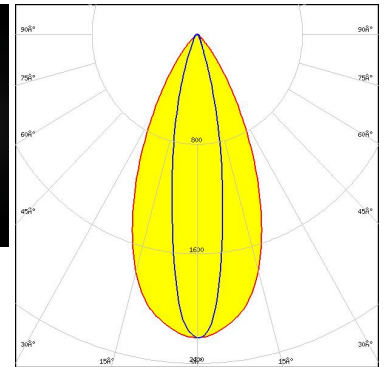
LED XD16  
 FWHM / FWTM 45.0 + 20.0° / 78.0 + 43.0°  
 Efficiency 65 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



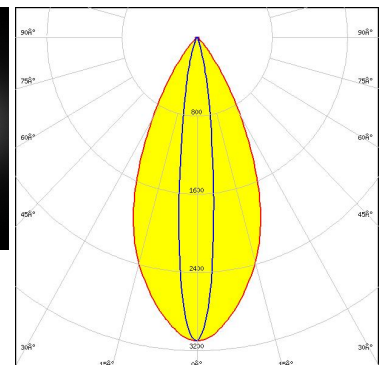
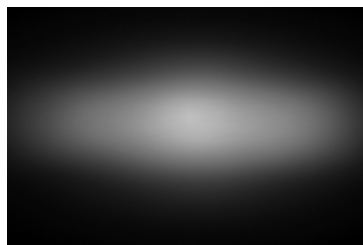
LED XP-E2  
 FWHM / FWTM 48.0 + 20.0° / 79.0 + 41.0°  
 Efficiency 78 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON CZ  
 FWHM / FWTM 49.0 + 14.0° / 76.0 + 31.0°  
 Efficiency 76 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

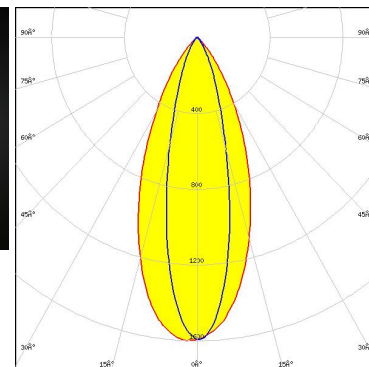
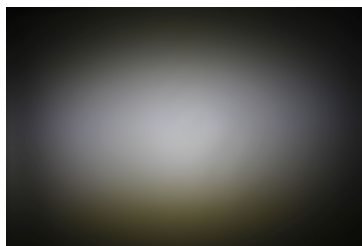


Light distribution files

### OPTICAL RESULTS (MEASURED):



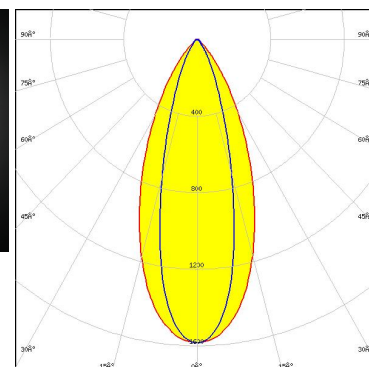
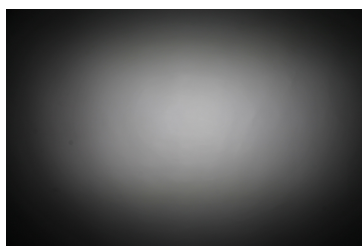
LED NF2x757G  
FWHM / FWTM 33.0° / 64.0°  
Efficiency 66 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



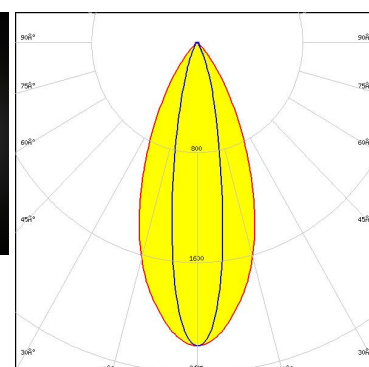
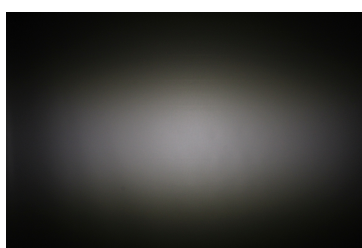
LED NVSW219F  
FWHM / FWTM 45.0 + 29.0° / 81.0 + 58.0°  
Efficiency 77 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED OSCONIQ C 2424  
FWHM / FWTM 44.0 + 20.0° / 77.0 + 43.0°  
Efficiency 74 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



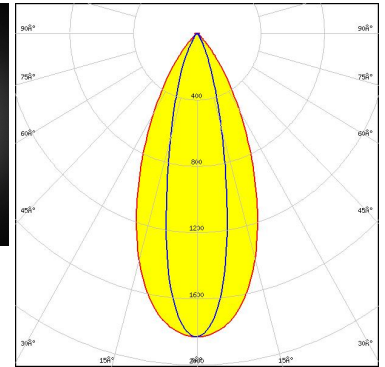
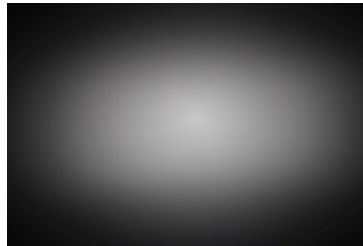
Light distribution files



#### OPTICAL RESULTS (MEASURED):



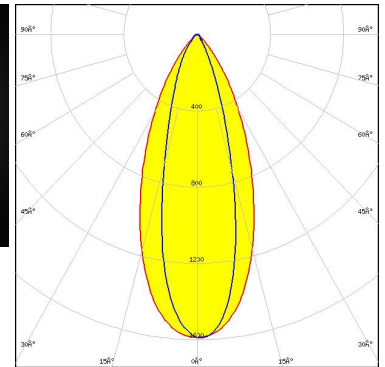
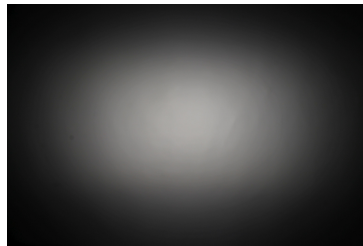
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 46.0 + 24.0° / 80.0 + 50.0°  
 Efficiency 75 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



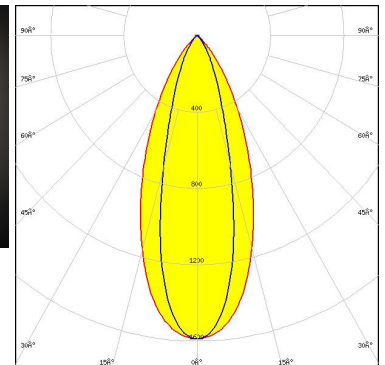
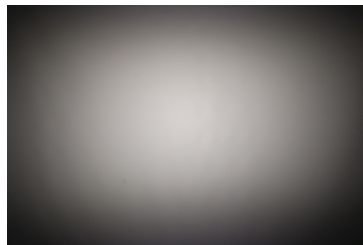
LED LH351C  
 FWHM / FWTM 45.0 + 28.0° / 81.0 + 59.0°  
 Efficiency 77 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED Z5M4  
 FWHM / FWTM 44.0 + 28.0° / 81.0 + 59.0°  
 Efficiency 75 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

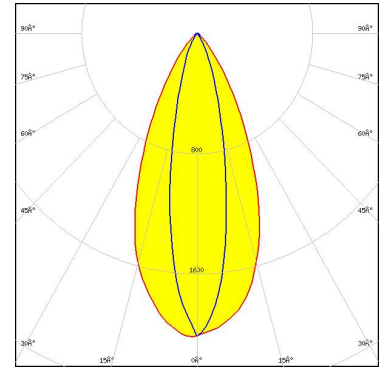


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



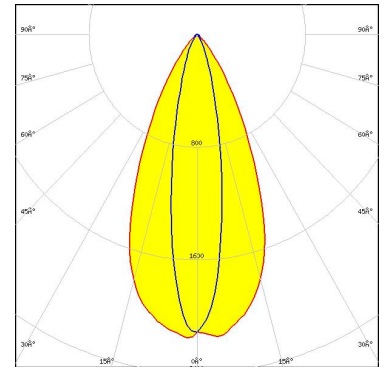
LED J Series 2835  
 FWHM / FWTM 46.0 + 22.0° / 78.0 + 48.0°  
 Efficiency 81 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



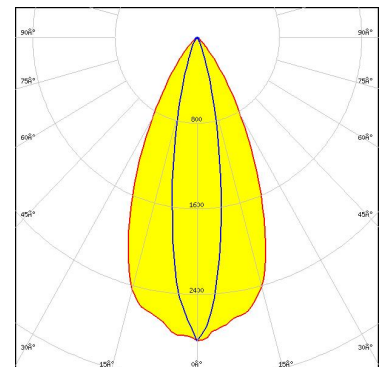
LED J Series 2835  
 FWHM / FWTM 48.0 + 20.0° / 78.0 + 44.0°  
 Efficiency 82 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XD16  
 FWHM / FWTM 18.0 + 48.0° / 36.0 + 76.0°  
 Efficiency 75 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

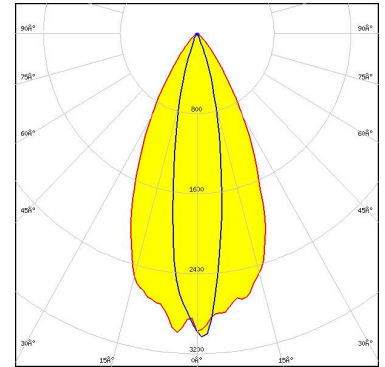


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



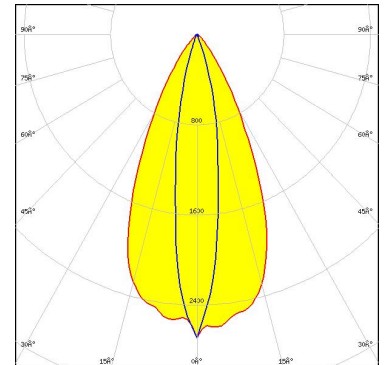
LED XP-E  
 FWHM / FWTM 17.0 + 48.0° / 36.0 + 74.0°  
 Efficiency 85 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



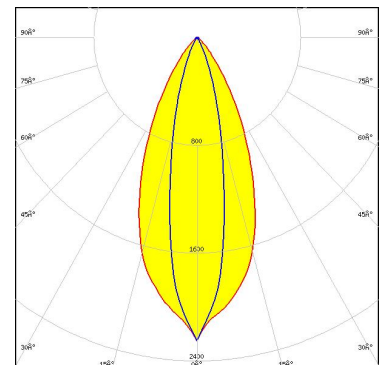
LED XP-E2  
 FWHM / FWTM 16.0 + 48.0° / 35.0 + 76.0°  
 Efficiency 84 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G2  
 FWHM / FWTM 46.0 + 22.0° / 78.0 + 46.0°  
 Efficiency 83 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

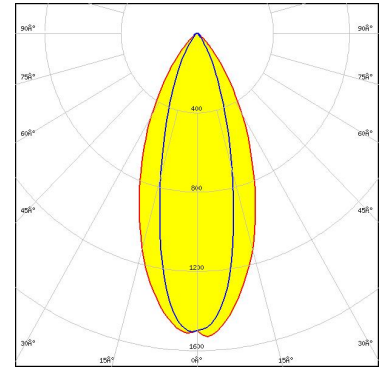


Light distribution files

### OPTICAL RESULTS (SIMULATED):



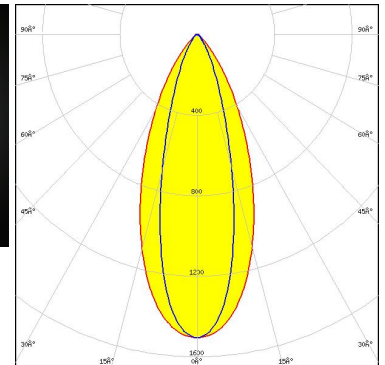
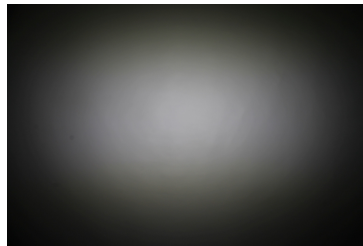
LED XP-G2 HE  
FWHM / FWTM 46.0 + 29.0° / 84.0 + 61.0°  
Efficiency 77 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



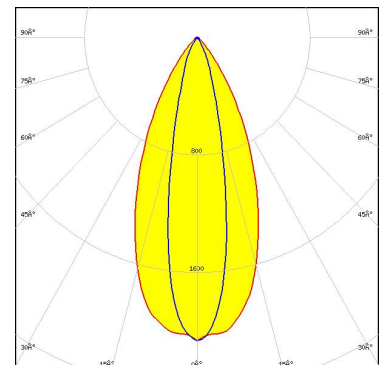
LED XP-G3  
FWHM / FWTM 44.0 + 29.0° / 81.0 + 59.0°  
Efficiency 73 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-G4  
FWHM / FWTM 47.0 + 22.0° / 80.0 + 48.0°  
Efficiency 83 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

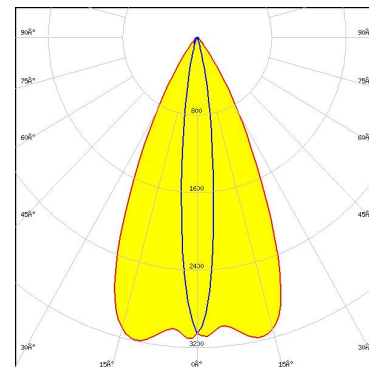


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



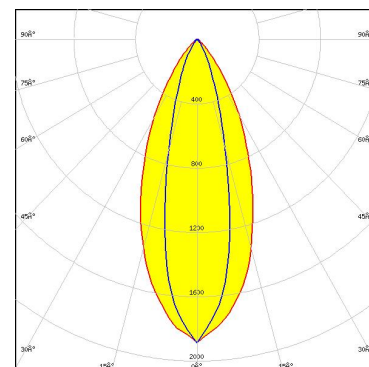
LED XQ-A  
 FWHM / FWTM 50.0 + 13.0° / 72.0 + 27.0°  
 Efficiency 84 %  
 Peak intensity 3.2 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



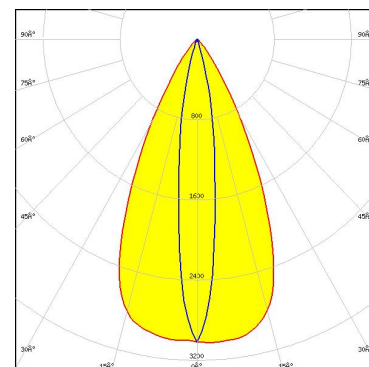
LED LUXEON HL2X  
 FWHM / FWTM 44.0 + 25.0° / 80.0 + 53.0°  
 Efficiency 81 %  
 Peak intensity 1.9 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Rubix  
 FWHM / FWTM 51.0 + 14.0° / 74.0 + 32.0°  
 Efficiency 86 %  
 Peak intensity 3 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

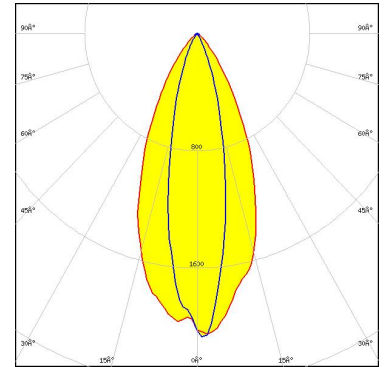


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



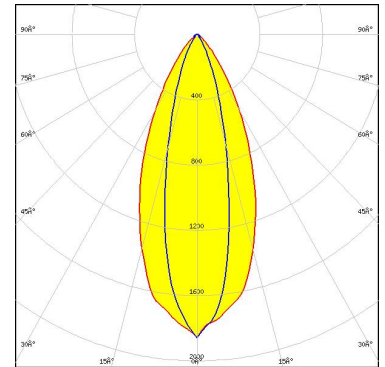
LED LUXEON TX  
 FWHM / FWTM 22.0 + 46.0° / 46.0 + 80.0°  
 Efficiency 80 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



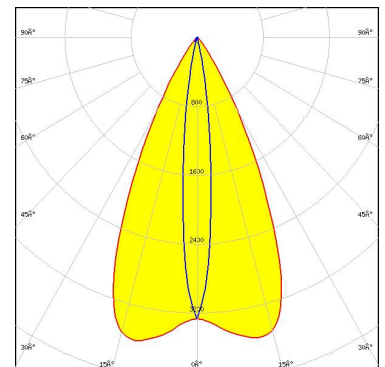
LED LUXEON V2  
 FWHM / FWTM 25.0 + 47.0° / 53.0 + 81.0°  
 Efficiency 83 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Z  
 FWHM / FWTM 51.0 + 12.0° / 70.0 + 24.0°  
 Efficiency 85 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

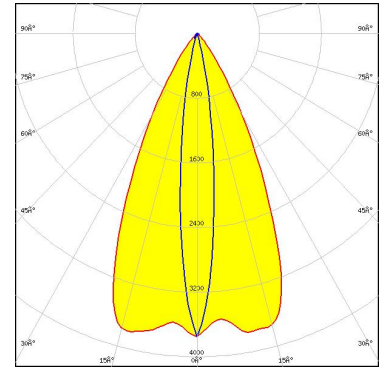


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



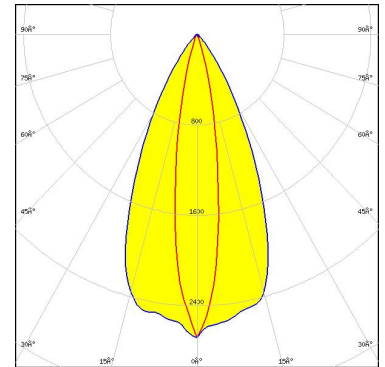
LED LUXEON Z  
 FWHM / FWTM 12.0 + 50.0° / 25.0 + 74.0°  
 Efficiency 84 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



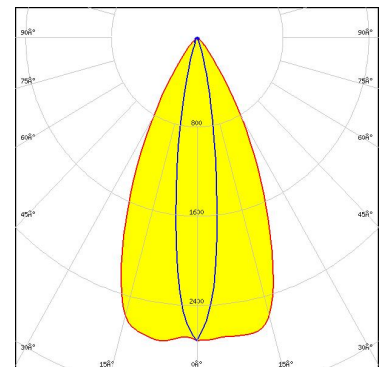
LED LUXEON Z ES  
 FWHM / FWTM 17.0 + 49.0° / 34.0 + 76.0°  
 Efficiency 84 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Z ES  
 FWHM / FWTM 50.0 + 16.0° / 75.0 + 32.0°  
 Efficiency 84 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



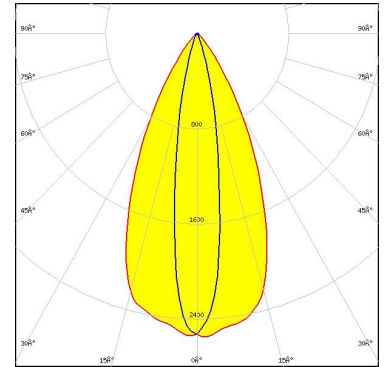
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



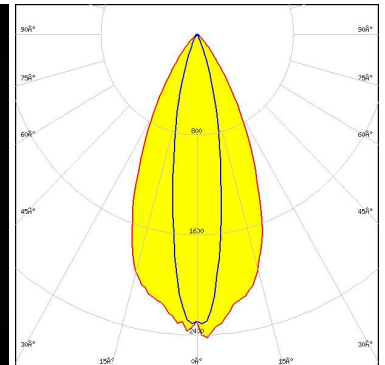
LED SST-12 Gen1  
 FWHM / FWTM 50.0 + 18.0° / 76.0 + 36.0°  
 Efficiency 84 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



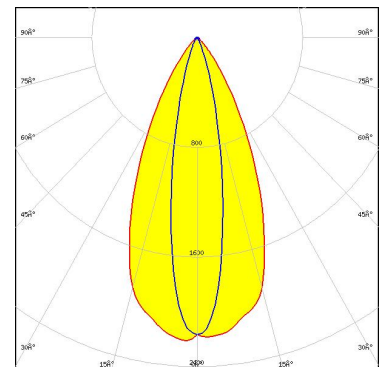
LED SST-12 Gen2  
 FWHM / FWTM 48.0 + 20.0° / 78.0 + 42.0°  
 Efficiency 83 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED SST-20 Gen1  
 FWHM / FWTM 48.0 + 20.0° / 78.0 + 41.0°  
 Efficiency 81 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

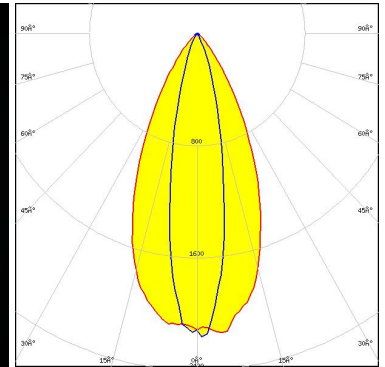


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



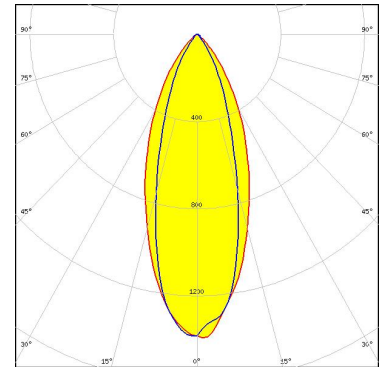
LED SST-20 Gen2  
 FWHM / FWTM 48.0 + 21.0° / 80.0 + 43.0°  
 Efficiency 81 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



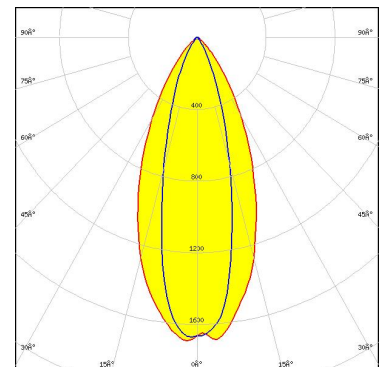
LED NV4WB35AM  
 FWHM / FWTM 42.0 + 32.0° / 84.0 + 66.0°  
 Efficiency 76 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSW219F  
 FWHM / FWTM 46.0 + 28.0° / 82.0 + 57.0°  
 Efficiency 80 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

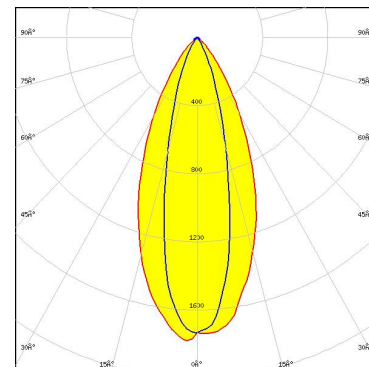


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



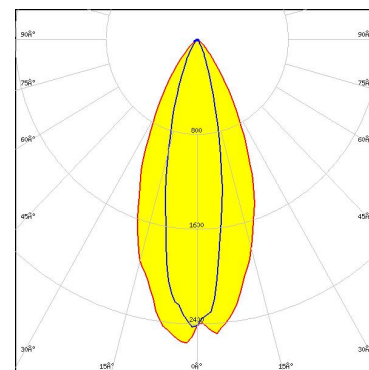
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 25.0 + 45.0° / 52.0 + 81.0°  
 Efficiency 78 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



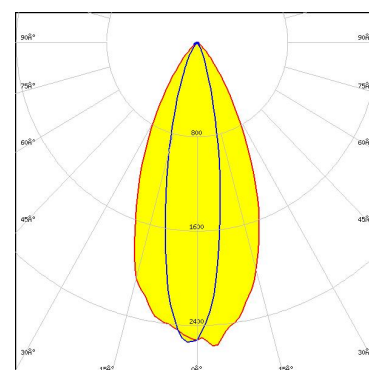
LED Duris S5 (2 chip)  
 FWHM / FWTM 20.0 + 45.0° / 40.0 + 75.0°  
 Efficiency 80 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED Duris S5 (Single chip)  
 FWHM / FWTM 19.0 + 45.0° / 40.0 + 75.0°  
 Efficiency 79 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

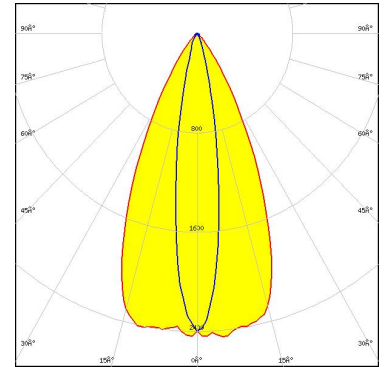


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

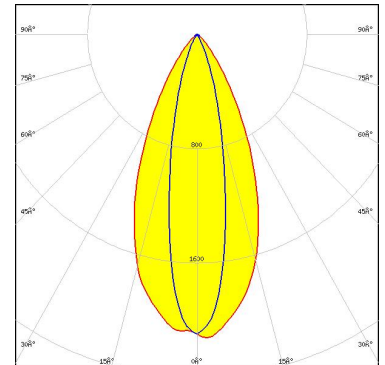
LED OSCONIQ P 3030  
FWHM / FWTM  $50.0 + 17.0^\circ / 75.0 + 34.0^\circ$   
Efficiency 79 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

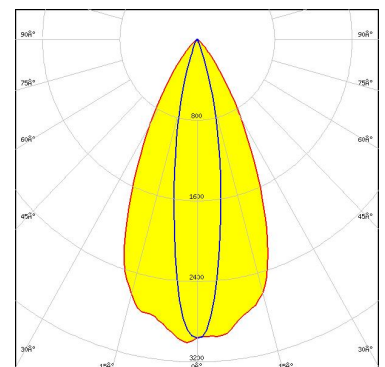
LED OSLOM Square CSSRM2/CSSRM3  
FWHM / FWTM  $47.0 + 22.0^\circ / 79.0 + 46.0^\circ$   
Efficiency 81 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM SSL 150  
FWHM / FWTM  $16.5 + 48.0^\circ / 36.0 + 76.0^\circ$   
Efficiency 83 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

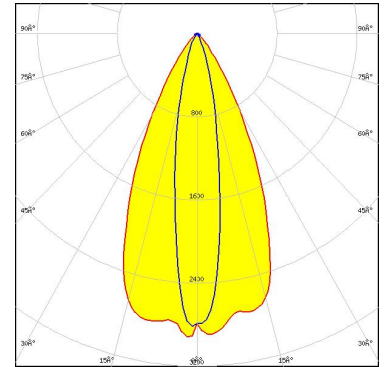


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

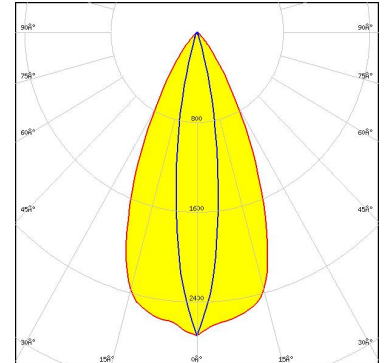
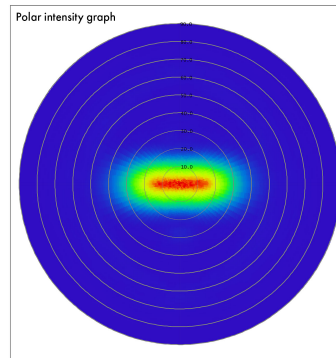
LED OSLON SSL 80  
FWHM / FWTM  $16.0 + 45.0^\circ / 38.0 + 72.0^\circ$   
Efficiency 81 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

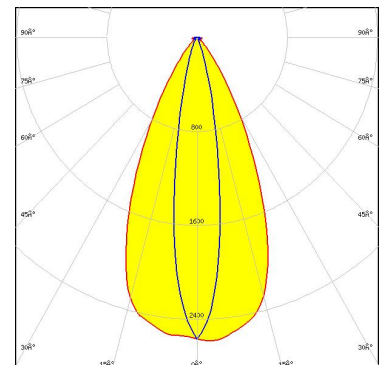
LED SFH 4716S  
FWHM / FWTM  $48.0 + 17.0^\circ / 75.0 + 32.0^\circ$   
Efficiency 82 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED SYNIOS S2222  
FWHM / FWTM  $50.0 + 18.0^\circ / 77.0 + 36.0^\circ$   
Efficiency 95 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

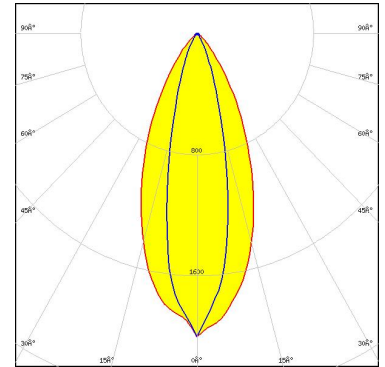


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

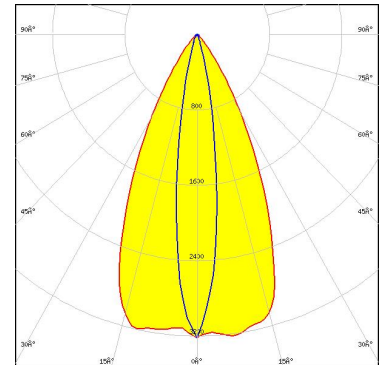
LED LH351B  
 FWHM / FWTM 44.0 + 24.0° / 80.0 + 48.0°  
 Efficiency 81 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SAMSUNG

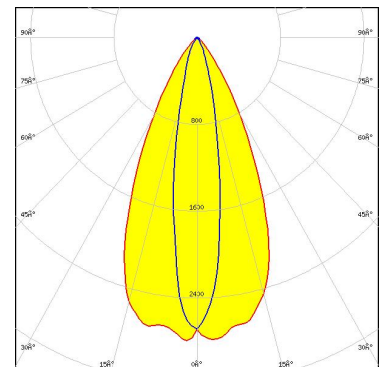
LED LM101B  
 FWHM / FWTM 14.5 + 50.0° / 29.0 + 72.0°  
 Efficiency 81 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SAMSUNG

LED LM301A  
 FWHM / FWTM 16.0 + 50.0° / 40.0 + 75.0°  
 Efficiency 81 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

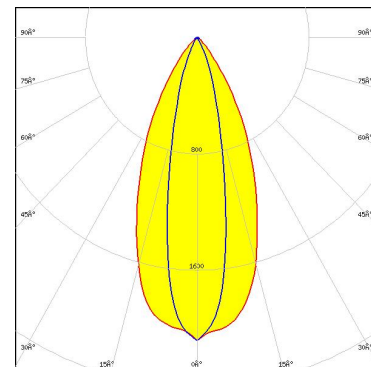


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



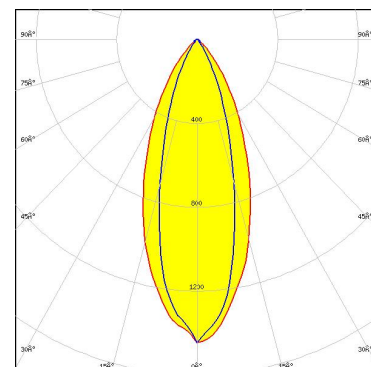
LED Z5M1/Z5M2  
 FWHM / FWTM 46.0 + 22.0° / 80.0 + 47.0°  
 Efficiency 83 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



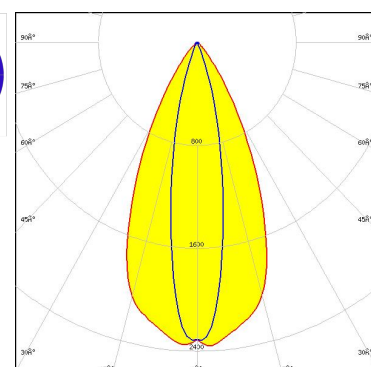
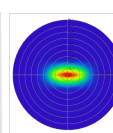
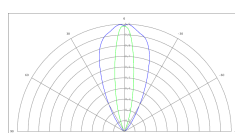
LED Z5M5  
 FWHM / FWTM 42.0 + 30.0° / 82.0 + 60.0°  
 Efficiency 71 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED FWR1108MS  
 FWHM / FWTM 48.0 + 20.0° / 76.0 + 40.0°  
 Efficiency 84 %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:



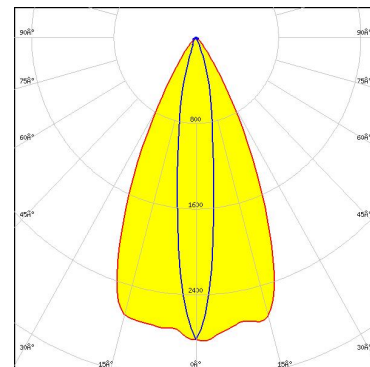
Light distribution files



### OPTICAL RESULTS (SIMULATED):



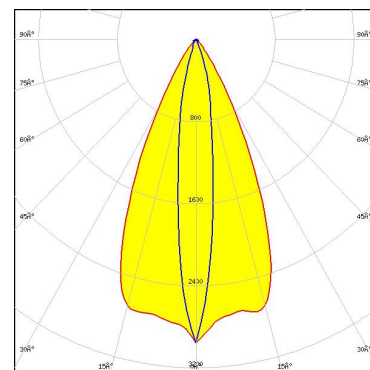
LED MFN1108MS  
FWHM / FWTM 50.0 + 14.0° / 72.0 + 37.0°  
Efficiency 84 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files



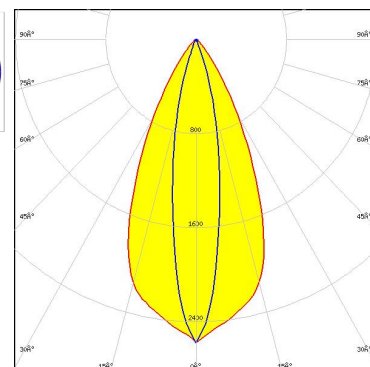
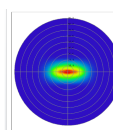
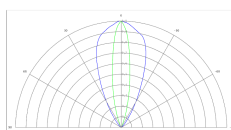
LED MGN1108MS  
FWHM / FWTM 50.0 + 14.0° / 72.0 + 36.0°  
Efficiency 84 %  
Peak intensity 3 cd/lm  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files



LED MJN1108MS  
FWHM / FWTM 48.0 + 19.0° / 76.0 + 39.0°  
Efficiency 85 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



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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