

## LISA2-WWW-PIN

~80° wide beam. 7.0 mm high variant with location pin installation.

### SPECIFICATION:

Dimensions	Ø 9.9
Height	7 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

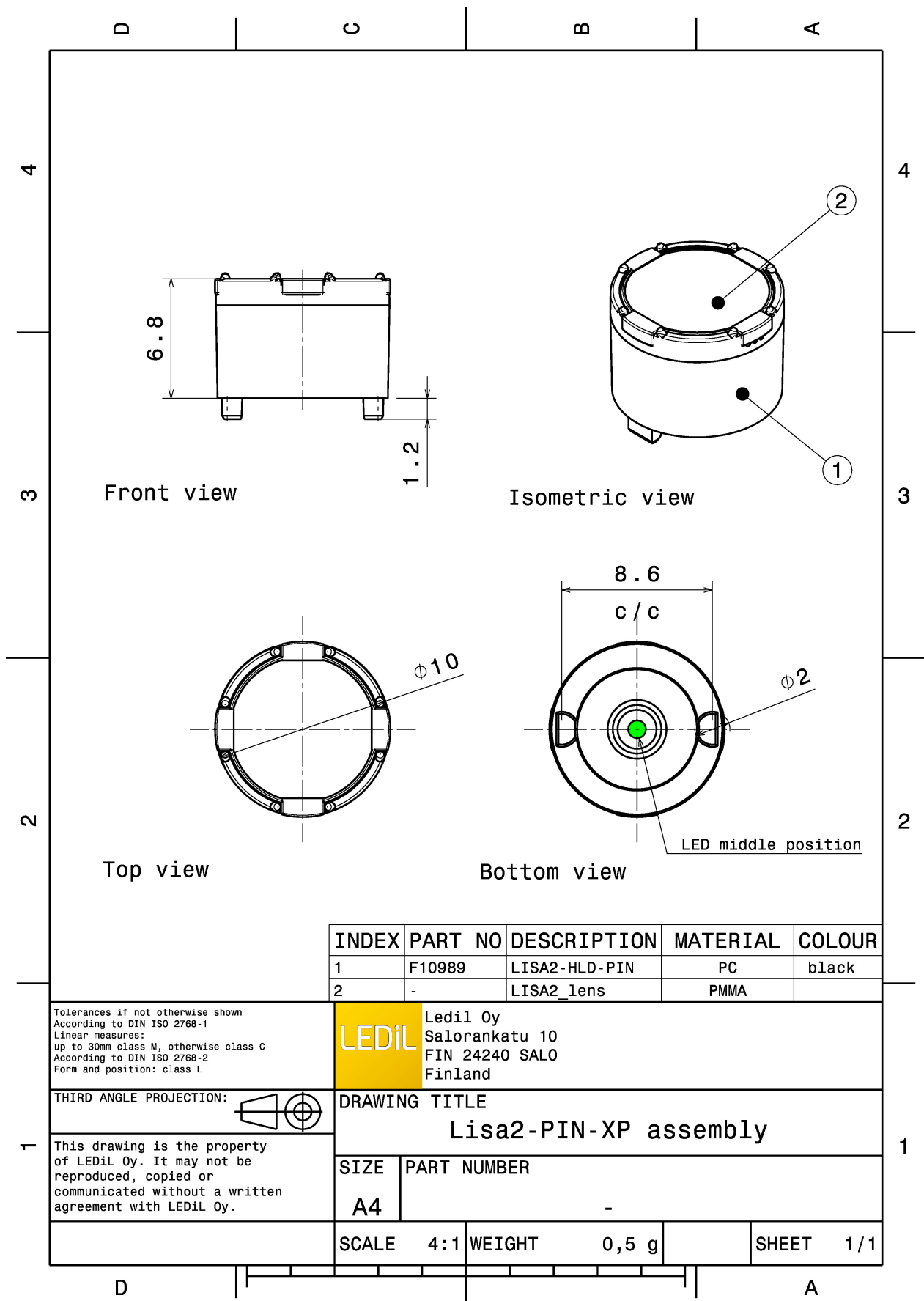


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LISA2-WWW	Single lens	PMMA	clear		
LISA2-HLD-PIN	Holder	PC	black		

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP11429_LISA2-WWW-PIN	Single lens	2000		100	1.4
» Box size:					

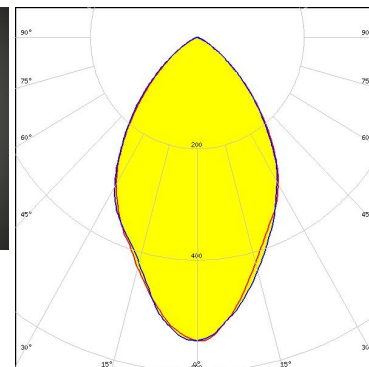
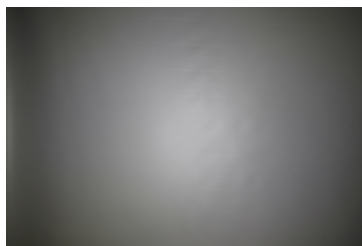


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



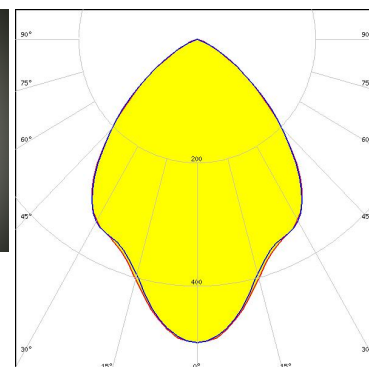
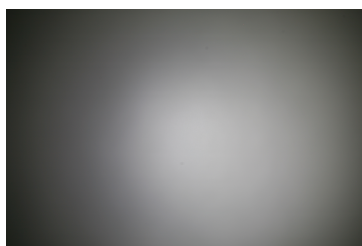
LED XD16  
 FWHM / FWTM 66.0° / 110.0°  
 Efficiency 66 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



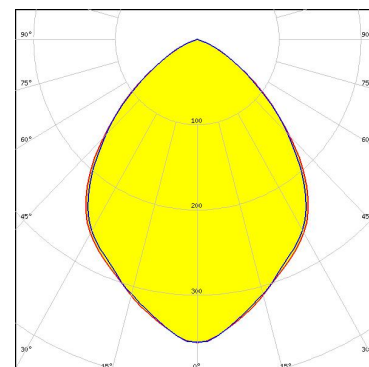
LED XP-E  
 FWHM / FWTM 84.0°  
 Efficiency 77 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G  
 FWHM / FWTM 86.0° / 126.0°  
 Efficiency 75 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

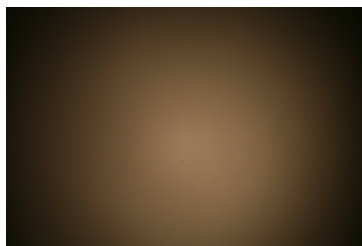


Light distribution files

## OPTICAL RESULTS (MEASURED):



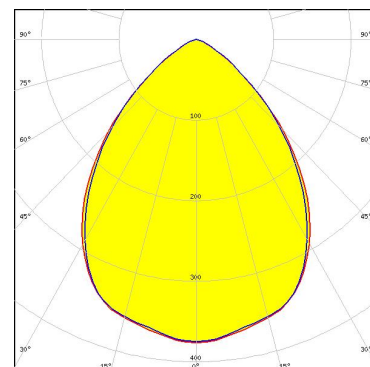
LED LUXEON A  
FWHM / FWTM 86.0° / 122.0°  
Efficiency 72 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



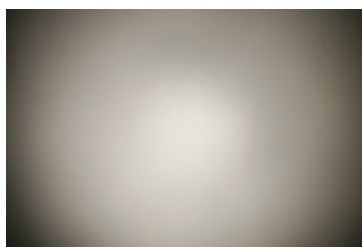
LED LUXEON Rebel ES  
FWHM / FWTM 88.0°  
Efficiency %  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON Z  
FWHM / FWTM 73.0° / 106.0°  
Efficiency 75 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



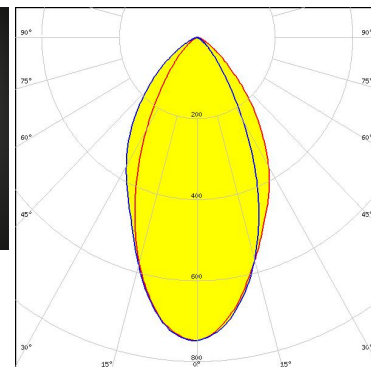
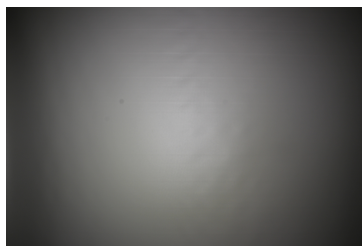
Light distribution files



#### OPTICAL RESULTS (MEASURED):



LED NVSxE21A  
 FWHM / FWTM 53.0° / 98.0°  
 Efficiency 70 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED SFH 4170S  
 FWHM / FWTM 58.0° / 114.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:

Light distribution files



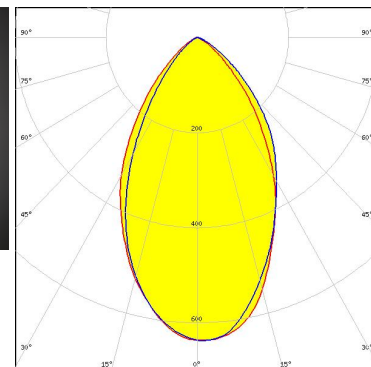
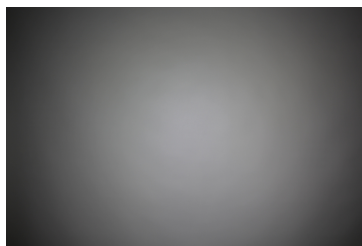
LED SFH 4180S  
 FWHM / FWTM 57.0° / 112.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:

Light distribution files

## OPTICAL RESULTS (MEASURED):

### SAMSUNG

LED LH181B  
FWHM / FWTM 62.0° / 104.0°  
Efficiency 72 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

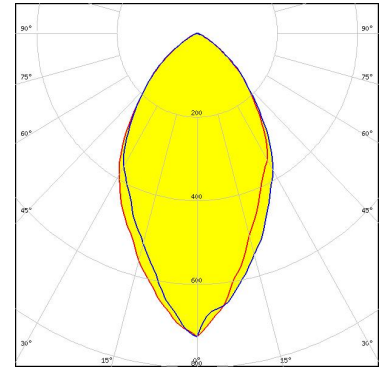


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



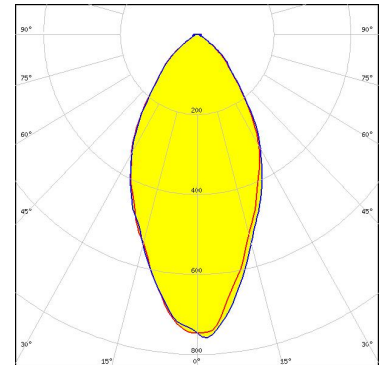
LED CSP 2323 (BXCP)  
 FWHM / FWTM 61.0° / 111.0 + 112.0°  
 Efficiency 83 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XB-D  
 FWHM / FWTM 53.0° / 104.0°  
 Efficiency 73 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



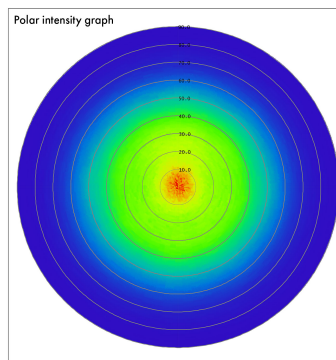
LED XQ-E HD  
 FWHM / FWTM 70.0° / 126.0°  
 Efficiency 81 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



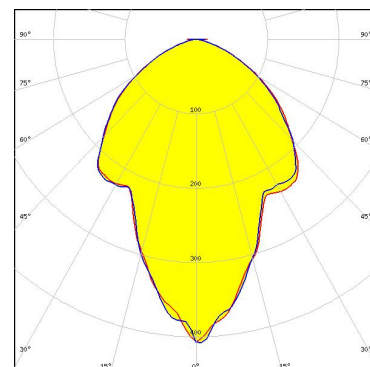
LED LUXEON IR 2720  
 FWHM / FWTM 68.0° / 120.0°  
 Efficiency 87 %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:



Light distribution files



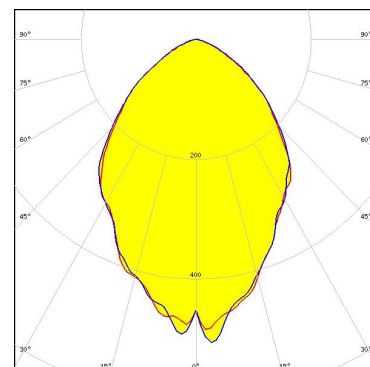
LED LUXEON SunPlus 20 Line (150 deg)  
 FWHM / FWTM 84.0° / 140.0°  
 Efficiency 73 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON TX  
 FWHM / FWTM 80.0° / 130.0°  
 Efficiency 83 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

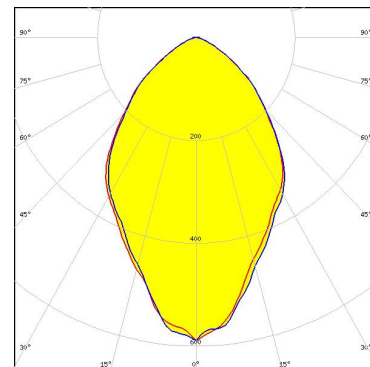


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



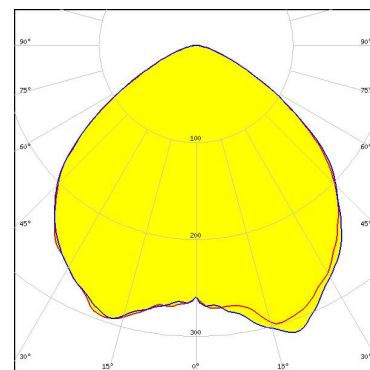
LED SST-20 Gen1  
 FWHM / FWTM 73.0° / 122.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



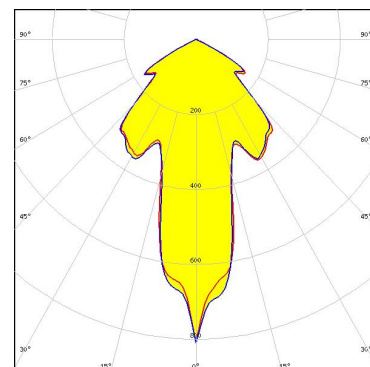
LED NVSW519A  
 FWHM / FWTM 104.0° / 140.0°  
 Efficiency 76 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED OSLO Pure 1414  
 FWHM / FWTM 28.0° / 124.0°  
 Efficiency 90 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

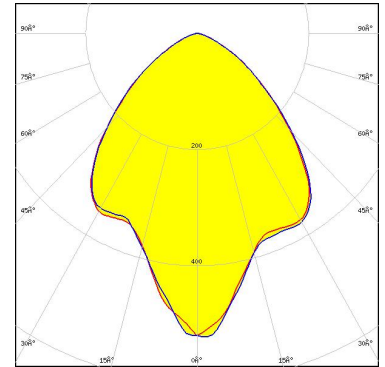


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

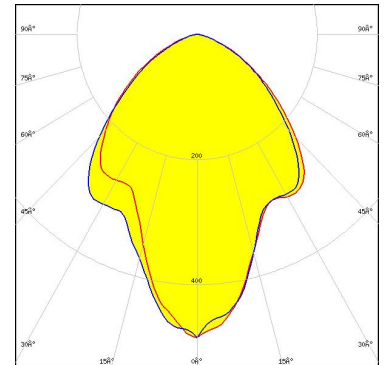
LED OSLON Signal  
FWHM / FWTM 85.0° / 129.0°  
Efficiency 89 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type Green  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

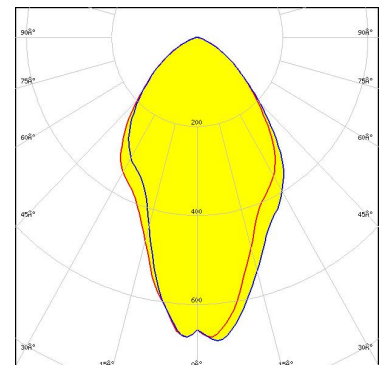
LED OSLON Signal  
FWHM / FWTM 86.0° / 136.0°  
Efficiency 85 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type Red  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON Signal  
FWHM / FWTM 65.0 + 59.0° / 121.0°  
Efficiency 87 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type Yellow  
Required components:

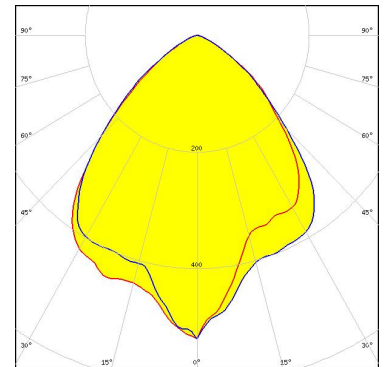


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

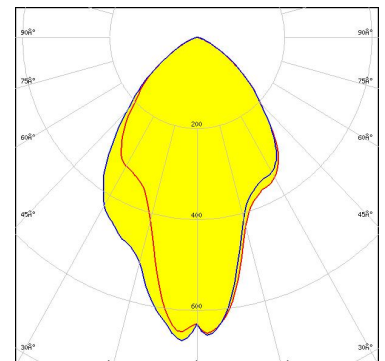
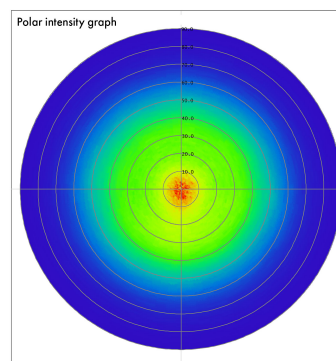
LED OSLON SSL 120  
FWHM / FWTM 86.0° / 123.0°  
Efficiency 87 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type Amber  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

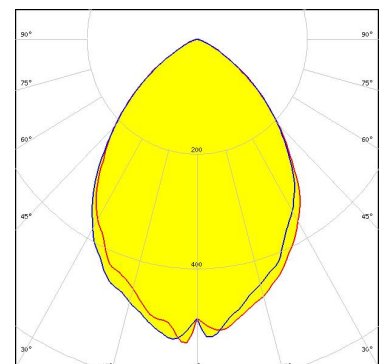
LED SFH 4770S  
FWHM / FWTM 65.0° / 118.0°  
Efficiency 87 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**SAMSUNG**


LED LM301B  
FWHM / FWTM 80.0° / 122.0°  
Efficiency 86 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



## OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	Z5
FWHM / FWTM	70.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	
<div>Light distribution files</div>	

### 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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