

## LISA3-WWW-PIN

~60° wide beam with location pin installation

### TECHNICAL SPECIFICATIONS:

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

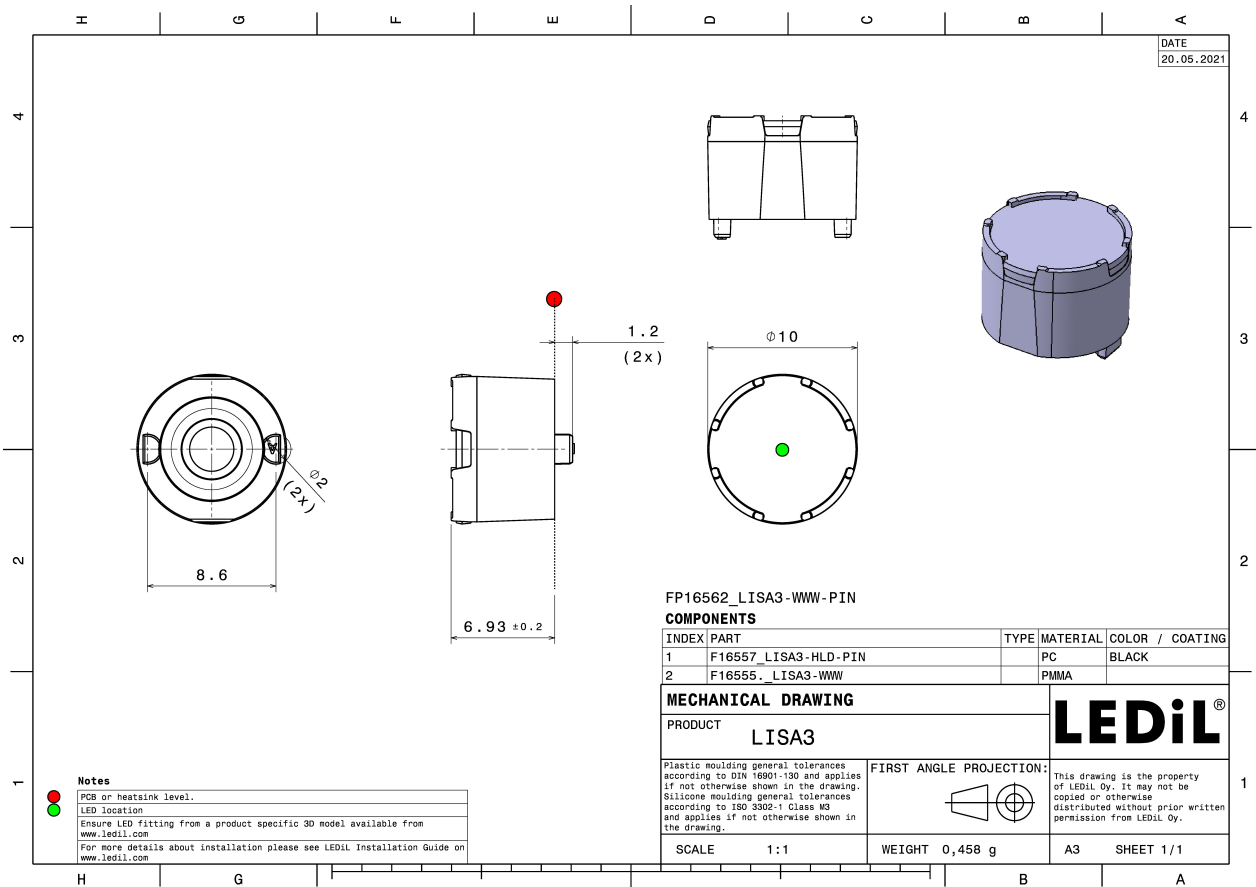
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LISA3-WWW	Single lens	PMMA	clear	
LISA3-HLD-PIN	Holder	PC	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16562_LISA3-WWW-PIN	Single lens	2000	300	100	1.4
» Box size: 310 x 230 x 60 mm					



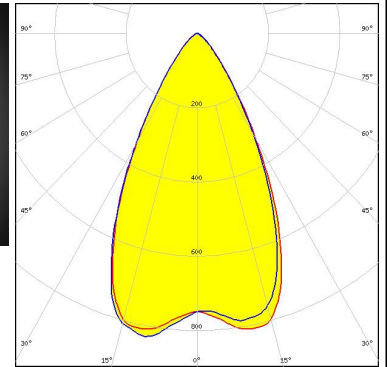
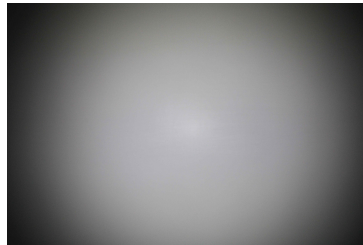


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

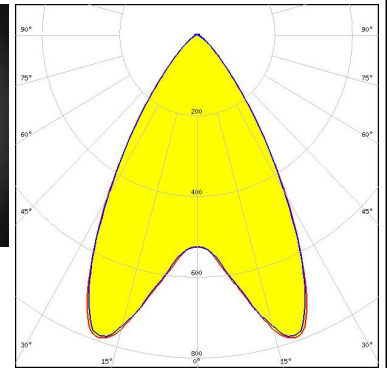
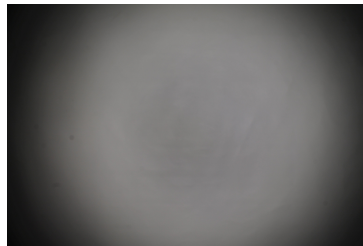
##### CREE LED

LED XD16  
FWHM / FWTM 55.0° / 85.0°  
Efficiency 74 %  
Peak intensity 0.9 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



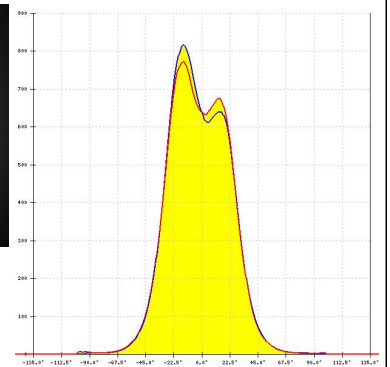
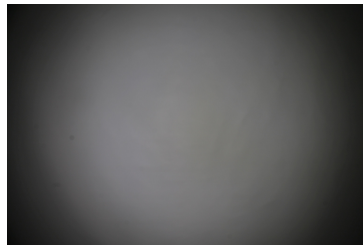
##### CREE LED

LED XP-E2  
FWHM / FWTM 63.0° / 91.0°  
Efficiency 85 %  
Peak intensity 0.8 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



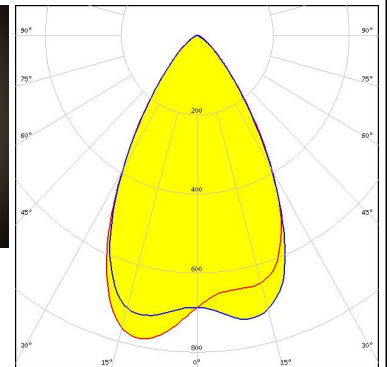
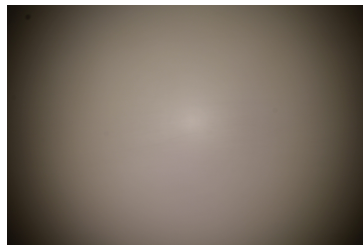
##### CREE LED

LED XP-G3  
FWHM / FWTM 60.0° / 92.0°  
Efficiency 80 %  
Peak intensity 0.8 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



##### CREE LED

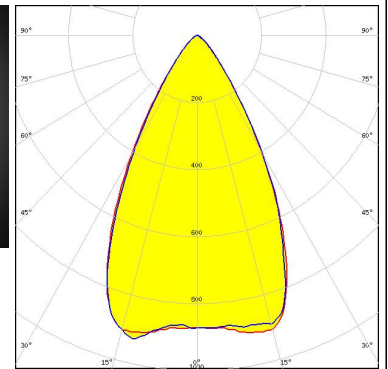
LED XP-G3  
FWHM / FWTM 61.0° / 95.0°  
Efficiency 80 %  
Peak intensity 0.8 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



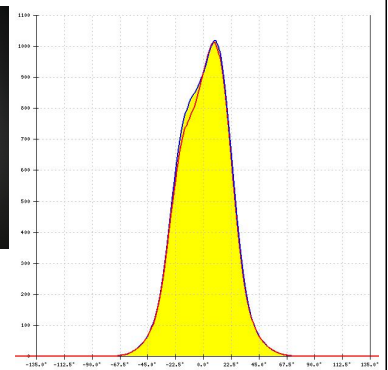
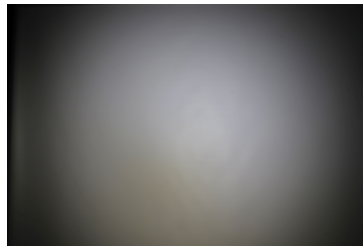
#### PHOTOMETRIC DATA (MEASURED):



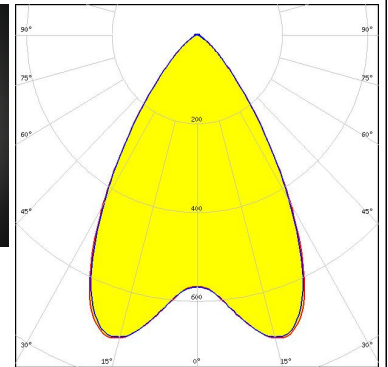
LED LUXEON CZ  
FWHM / FWTM 57.0° / 85.0°  
Efficiency 85 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



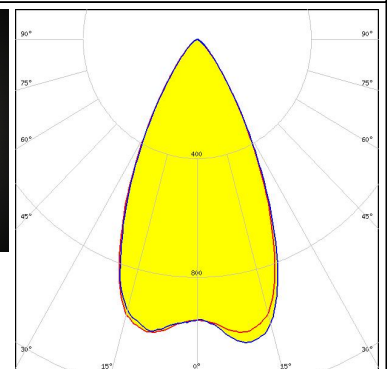
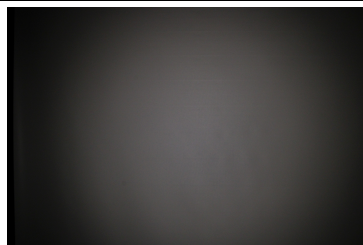
LED NF2x757G  
FWHM / FWTM 50.0° / 82.0°  
Efficiency 76 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSW219F  
FWHM / FWTM 64.0° / 96.0°  
Efficiency 84 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED OSCONIQ C 2424  
FWHM / FWTM 53.0° / 81.0°  
Efficiency 84 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



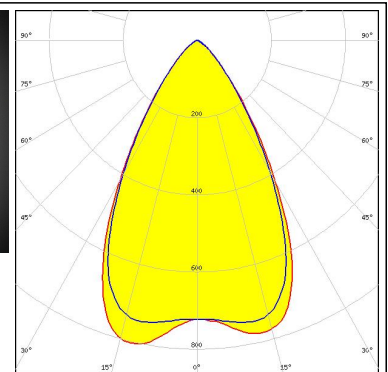
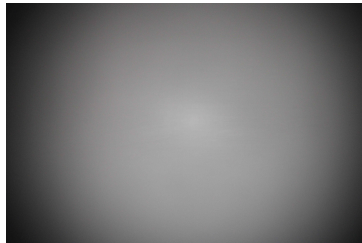


#### PHOTOMETRIC DATA (MEASURED):

##### OSRAM

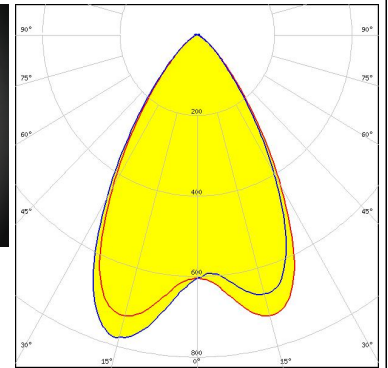
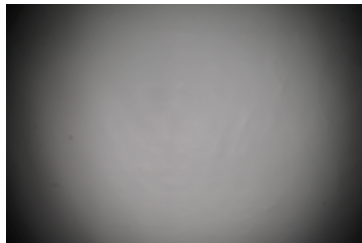
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 60.0° / 93.0°  
 Efficiency 83 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



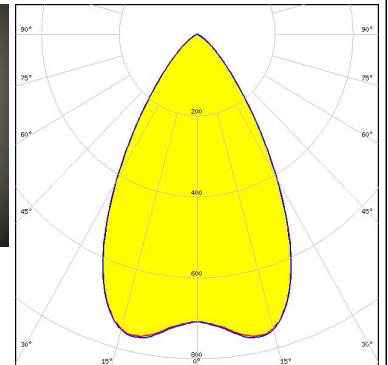
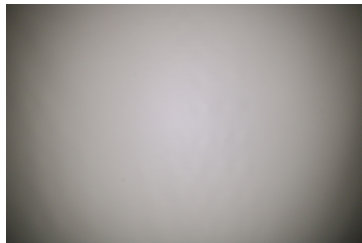
##### SAMSUNG

LED LH351C  
 FWHM / FWTM 64.0° / 96.0°  
 Efficiency 84 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

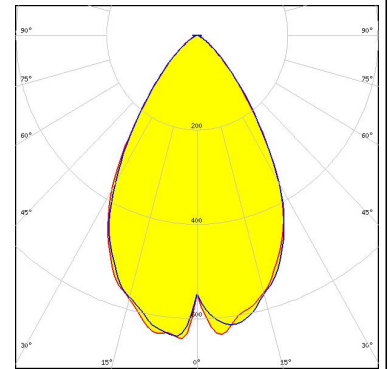
LED Z5M4  
 FWHM / FWTM 62.0° / 95.0°  
 Efficiency 84 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



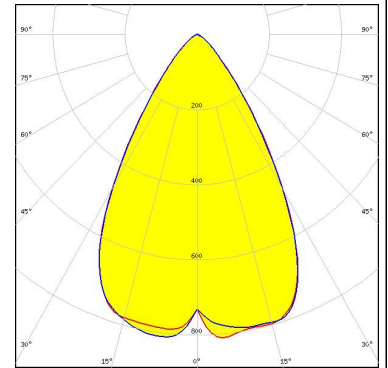
### PHOTOMETRIC DATA (SIMULATED):



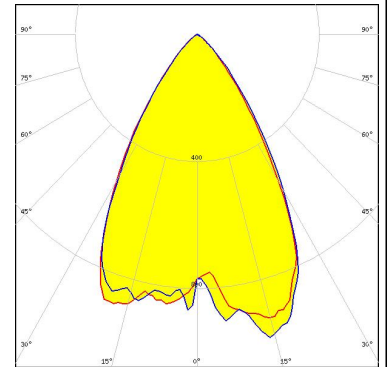
LED XHP35.2 HD  
FWHM / FWTM 64.0° / 99.0°  
Efficiency 74 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



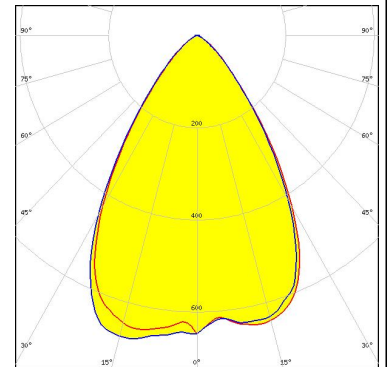
LED XP-E  
FWHM / FWTM 64.0° / 93.0°  
Efficiency 89 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-G2  
FWHM / FWTM 66.0° / 93.0°  
Efficiency 87 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



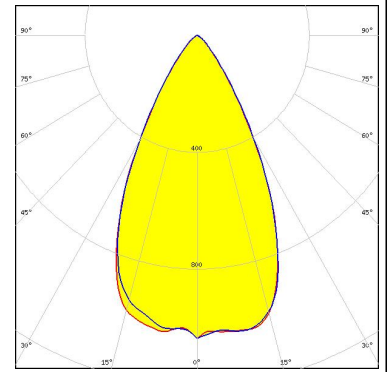
LED XP-G2 HE  
FWHM / FWTM 68.0° / 100.0°  
Efficiency 82 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

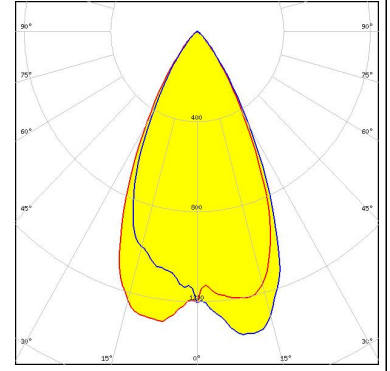
##### LUMILEDS

LED LUXEON 2835 Line  
FWHM / FWTM 54.0° / 82.0°  
Efficiency 88 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



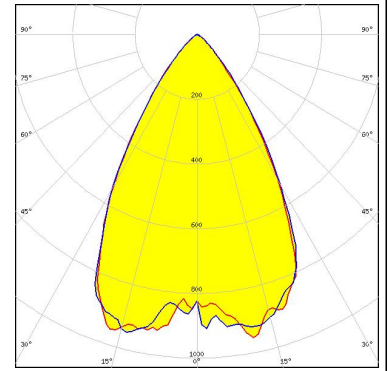
##### LUMILEDS

LED LUXEON 3030 2D (Round LES)  
FWHM / FWTM 54.0° / 79.0°  
Efficiency 85 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



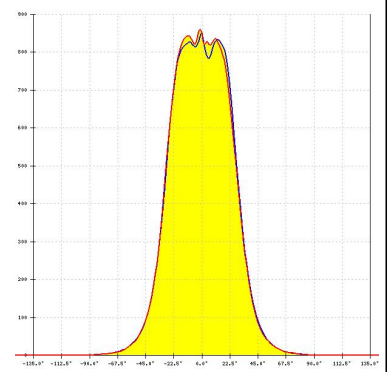
##### LUMILEDS

LED LUXEON TX  
FWHM / FWTM 62.0° / 87.0°  
Efficiency 85 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### LUMILEDS

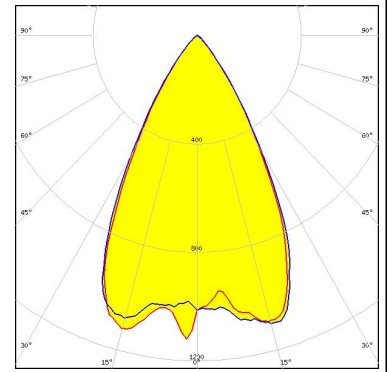
LED LUXEON V2  
FWHM / FWTM 60.0° / 92.0°  
Efficiency 88 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



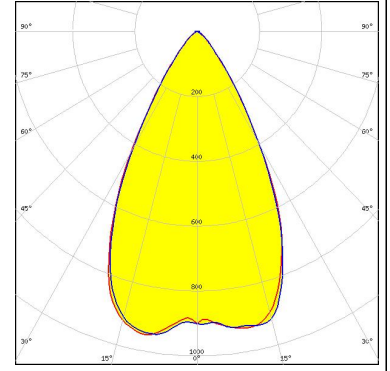
#### PHOTOMETRIC DATA (SIMULATED):



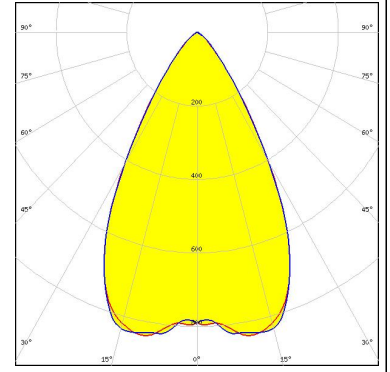
LED LUXEON Z  
FWHM / FWTM 58.0° / 80.0°  
Efficiency 88 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



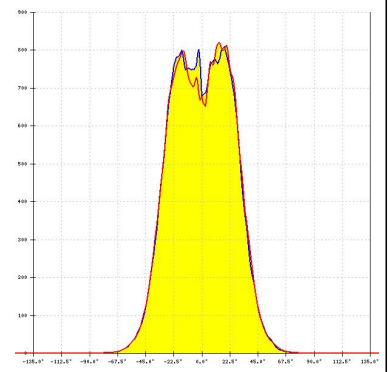
LED SST-20  
FWHM / FWTM 56.0° / 84.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NCSxx19B  
FWHM / FWTM 60.0° / 88.0°  
Efficiency 82 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



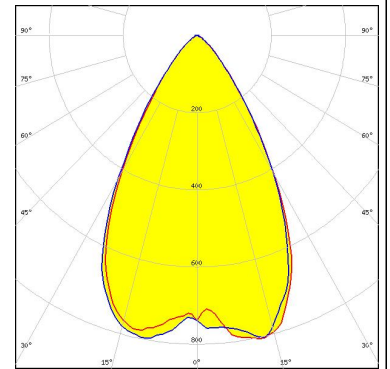
LED NVSW219D  
FWHM / FWTM 67.0° / 88.0°  
Efficiency 84 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



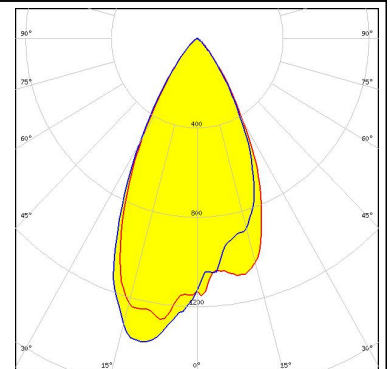
#### PHOTOMETRIC DATA (SIMULATED):



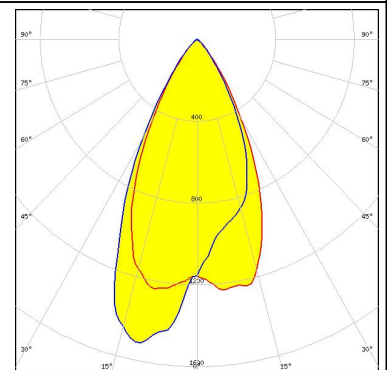
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 61.0° / 92.0°  
 Efficiency 83 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



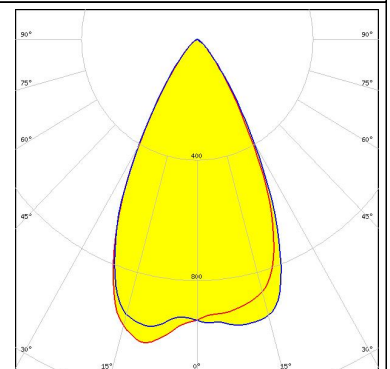
LED Duris S5 (2 chip)  
 FWHM / FWTM 49.0° / 77.0°  
 Efficiency 87 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED Duris S5 (Single chip)  
 FWHM / FWTM 48.0° / 76.0°  
 Efficiency 86 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSCONIQ P 3030  
 FWHM / FWTM 56.0° / 82.0°  
 Efficiency 85 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

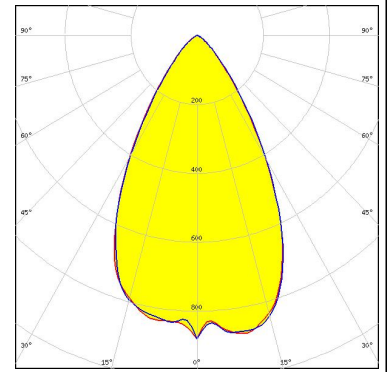


### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

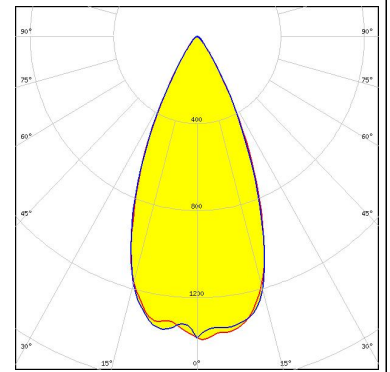
LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 58.0° / 90.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

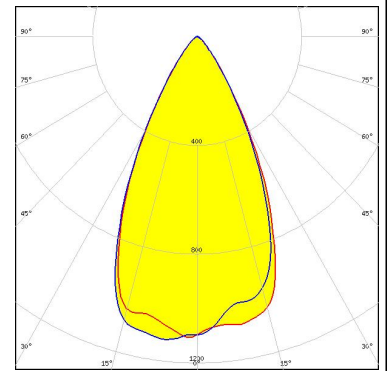
LED OSLON Black  
 FWHM / FWTM 46.0° / 71.0°  
 Efficiency 88 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

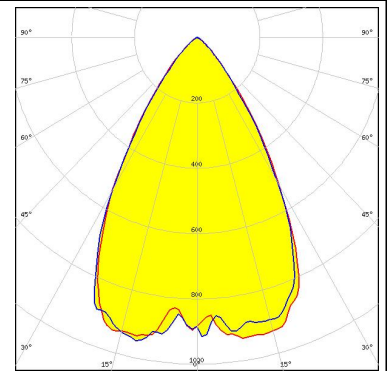
LED OSLON Black Flat  
 FWHM / FWTM 54.0° / 80.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



#### OSRAM

Opto Semiconductors

LED OSLON Square EC  
 FWHM / FWTM 61.0° / 86.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



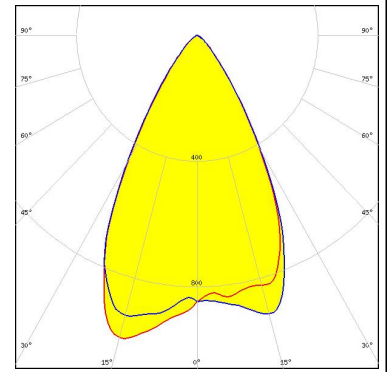


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

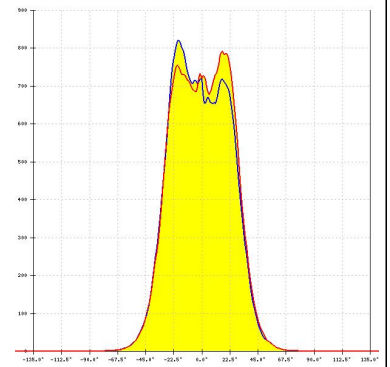
LED OSLON SSL 120  
FWHM / FWTM 58.0° / 85.0°  
Efficiency 89 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour Amber  
Required components:



##### OSRAM

Opto Semiconductors

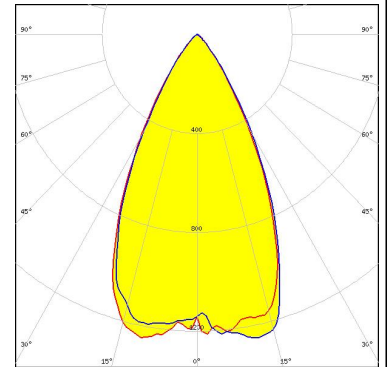
LED OSLON SSL 150  
FWHM / FWTM 63.0° / 84.0°  
Efficiency 87 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

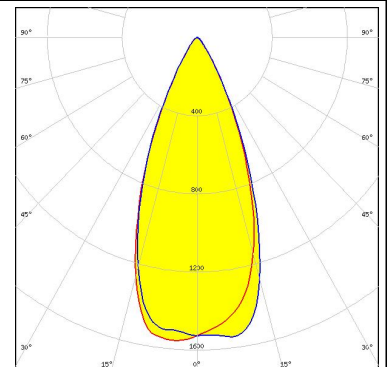
LED OSLON SSL 80  
FWHM / FWTM 53.0° / 79.0°  
Efficiency 87 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

LED SFH 4715AS  
FWHM / FWTM 43.0° / 67.0°  
Efficiency 87 %  
LEDs/each optic 1  
Light colour IR  
Required components:

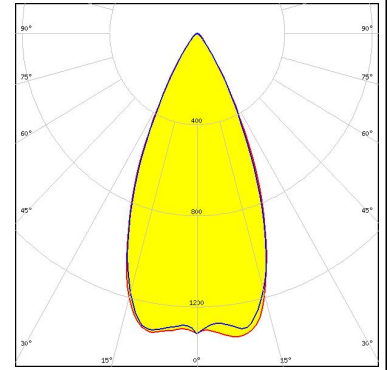


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

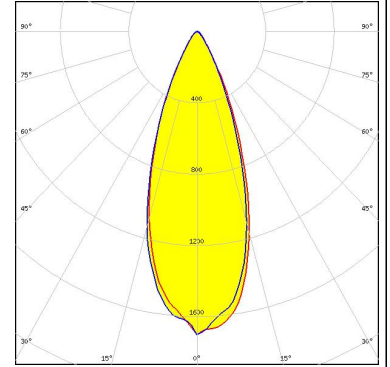
LED SFH 4725S  
 FWHM / FWTM 48.0° / 72.0°  
 Efficiency 88 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



##### OSRAM

Opto Semiconductors

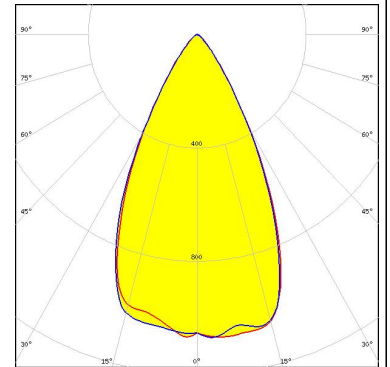
LED SFH 4727AS  
 FWHM / FWTM 38.0° / 65.0°  
 Efficiency 81 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



##### OSRAM

Opto Semiconductors

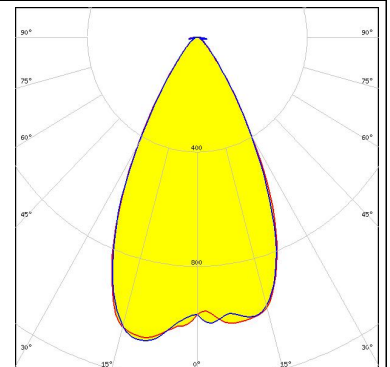
LED Synios P2720 1 mm  
 FWHM / FWTM 54.0° / 80.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



##### OSRAM

Opto Semiconductors

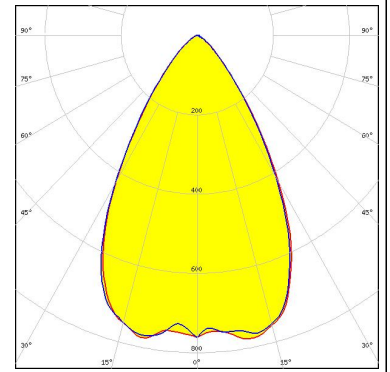
LED SYNIOS S2222  
 FWHM / FWTM 55.0° / 82.0°  
 Efficiency 96 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## PHOTOMETRIC DATA (SIMULATED):

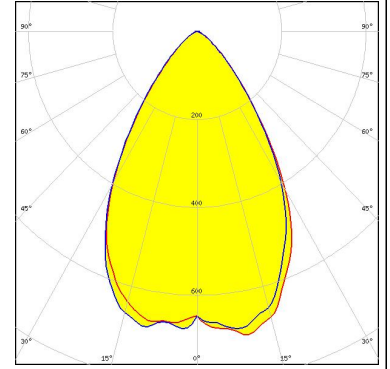
### SAMSUNG

LED LH351B  
FWHM / FWTM 62.0° / 95.0°  
Efficiency 85 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



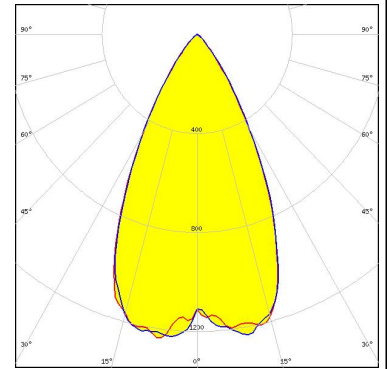
### SAMSUNG

LED LH351D  
FWHM / FWTM 65.0° / 100.0°  
Efficiency 81 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



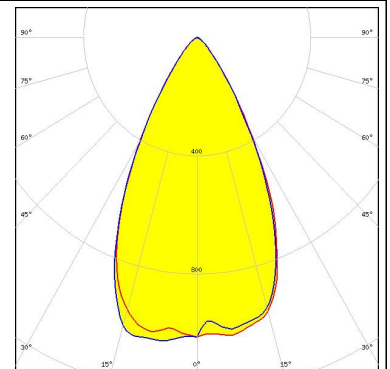
### SAMSUNG

LED LM301A  
FWHM / FWTM 53.0° / 75.0°  
Efficiency 87 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### SAMSUNG

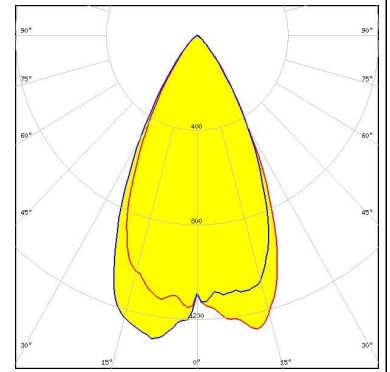
LED LM301B  
FWHM / FWTM 55.0° / 82.0°  
Efficiency 87 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (SIMULATED):

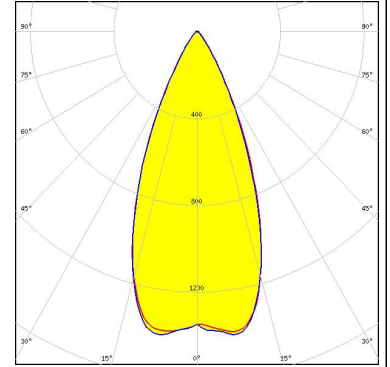
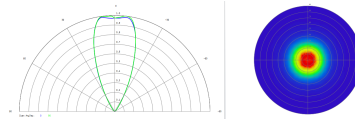
#### SAMSUNG

LED LM302A  
FWHM / FWTM 53.0° / 80.0°  
Efficiency 87 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



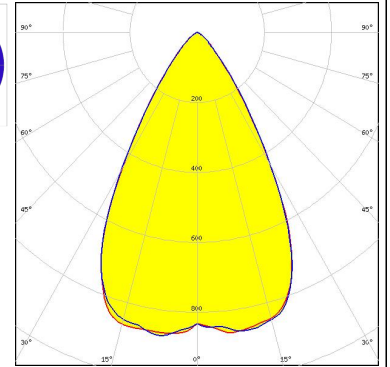
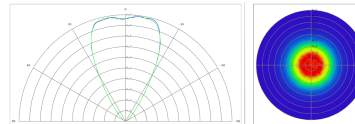
#### STANLEY

LED FWR1107MS  
FWHM / FWTM 44.0° / 68.0°  
Efficiency 85 %  
LEDs/each optic 1  
Light colour IR  
Required components:



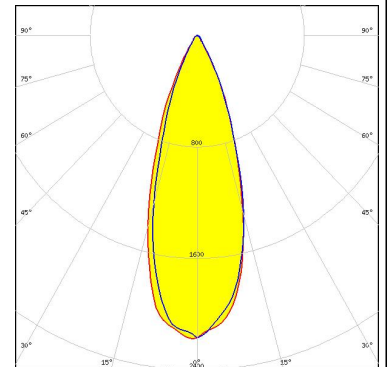
#### STANLEY

LED FWR1108MS  
FWHM / FWTM 60.0° / 87.0°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour IR  
Required components:



#### STANLEY

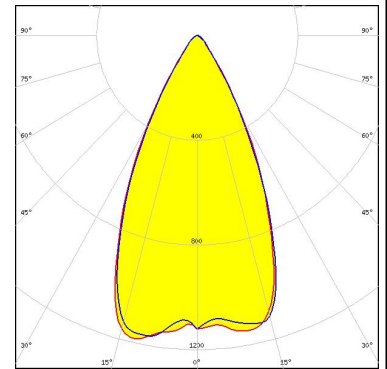
LED MFN1107MS  
FWHM / FWTM 35.0° / 60.0°  
Efficiency 91 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour IR  
Required components:



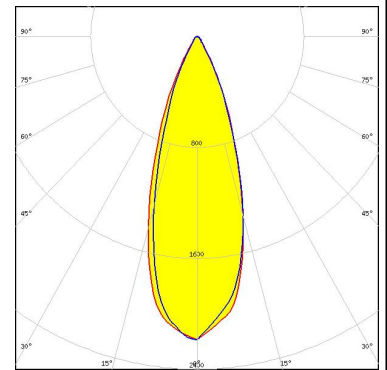
### PHOTOMETRIC DATA (SIMULATED):



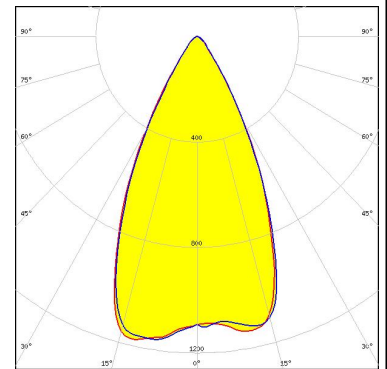
LED MFN1108MS  
 FWHM / FWTM 52.0° / 76.0°  
 Efficiency 90 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



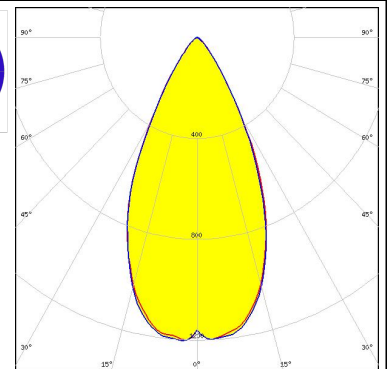
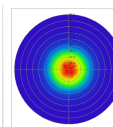
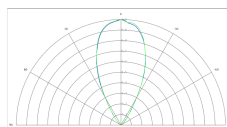
LED MGN1107MS  
 FWHM / FWTM 35.0° / 60.0°  
 Efficiency 91 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



LED MGN1108MS  
 FWHM / FWTM 52.0° / 76.0°  
 Efficiency 90 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



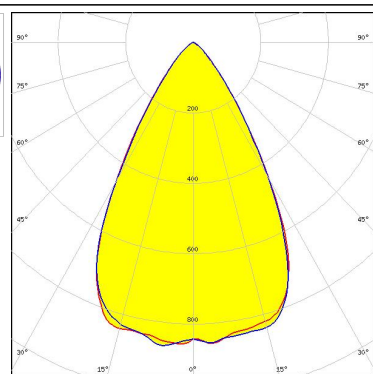
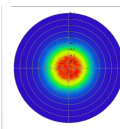
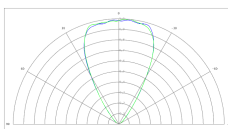
LED MJN1107MS  
 FWHM / FWTM 50.0° / 77.0°  
 Efficiency 89 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



### PHOTOMETRIC DATA (SIMULATED):



LED MJN1108MS  
 FWHM / FWTM 61.0° / 88.0°  
 Efficiency 88 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:





### 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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