

## LISA3-RS-PIN

~15° spot beam with location pin installation

### SPECIFICATION:

Dimensions	Ø 10.0 mm
Height	6.9 mm
Fastening	glue
ROHS compliant	yes ⓘ

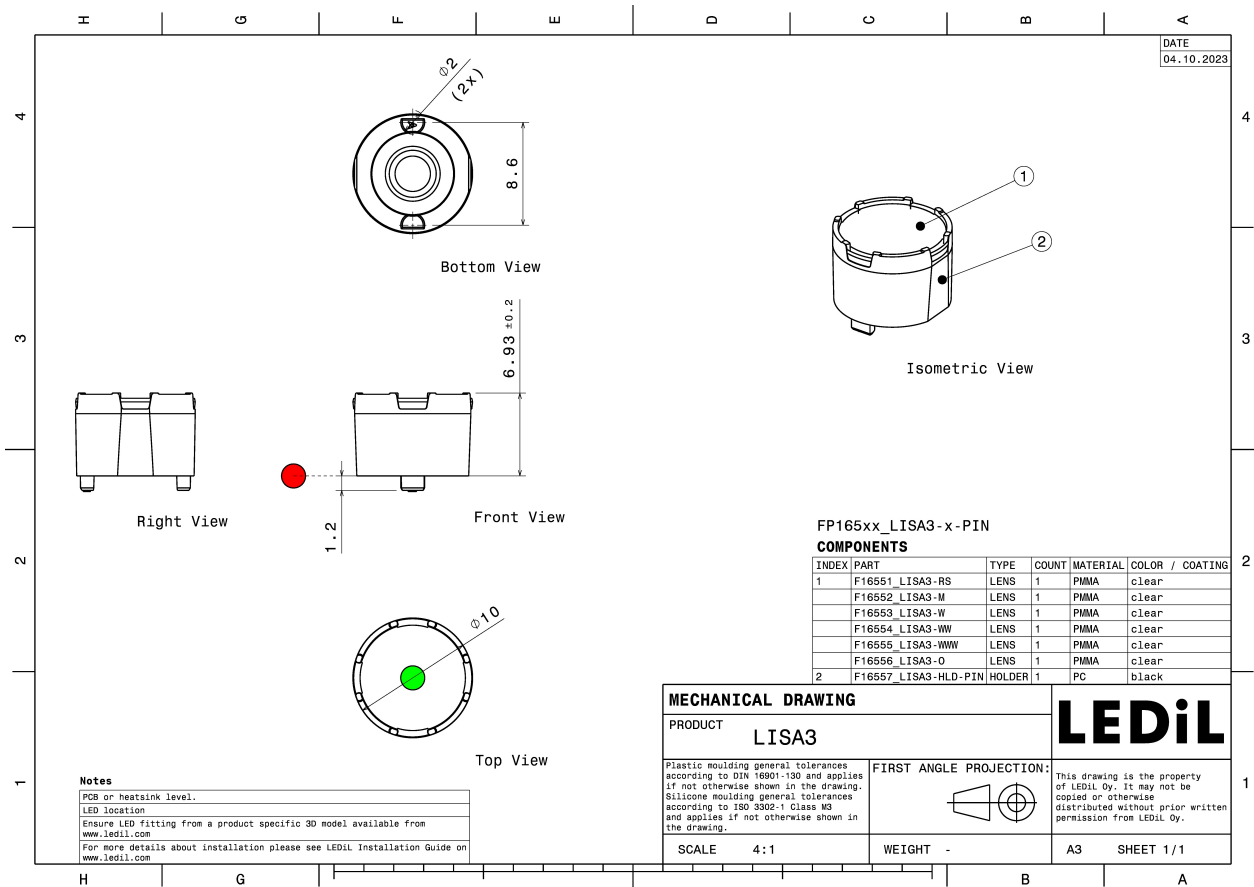
### MATERIALS:

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

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16558_LISA3-RS-PIN	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					



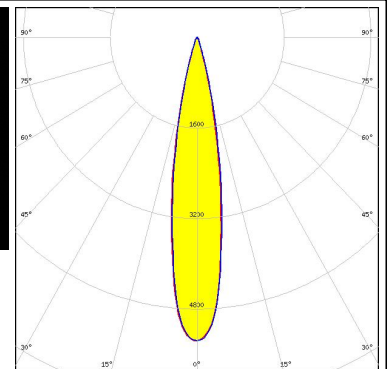
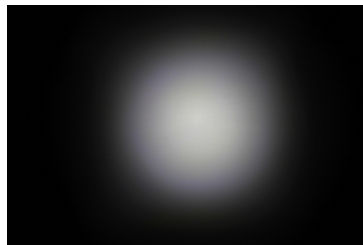


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

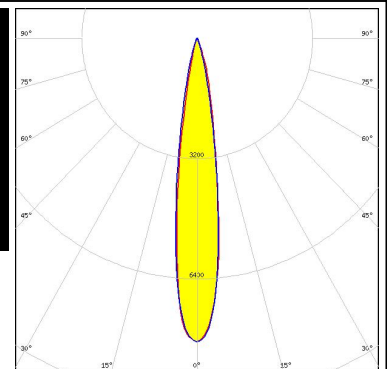
#### OPTICAL RESULTS (MEASURED):



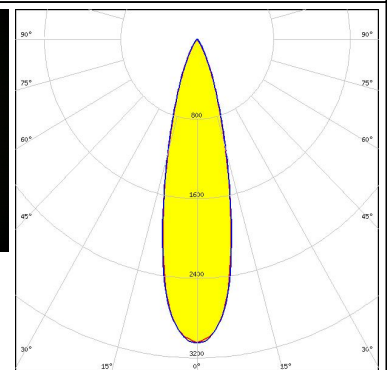
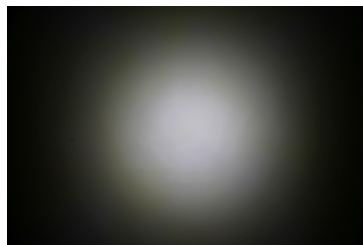
LED XD16  
FWHM / FWTM 19.0° / 34.0°  
Efficiency 78 %  
Peak intensity 5.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



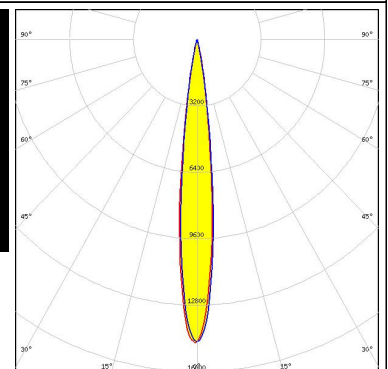
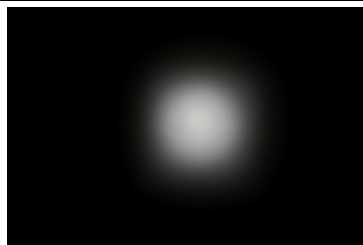
LED XP-E2  
FWHM / FWTM 16.0° / 31.0°  
Efficiency 90 %  
Peak intensity 8.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-G3  
FWHM / FWTM 26.0° / 51.0°  
Efficiency 84 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



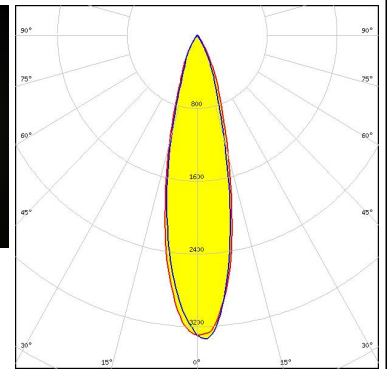
LED LUXEON CZ  
FWHM / FWTM 12.0° / 23.0°  
Efficiency 89 %  
Peak intensity 14.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



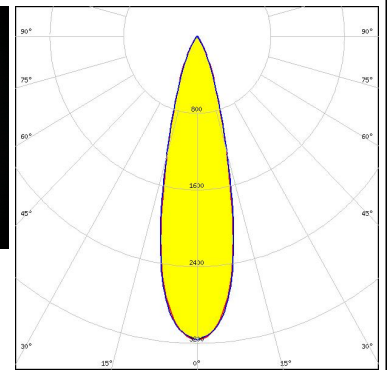
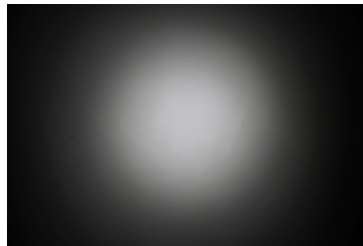
#### OPTICAL RESULTS (MEASURED):



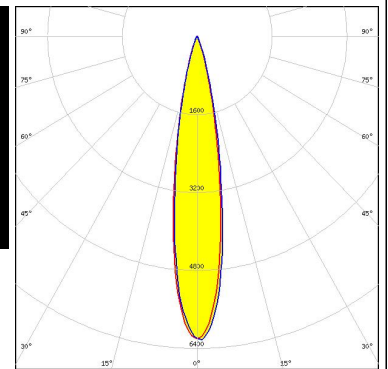
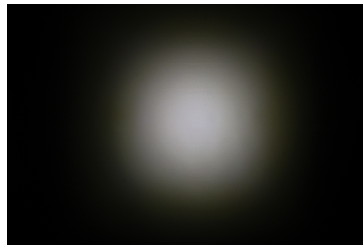
LED NF2x757G  
FWHM / FWTM 25.0° / 52.0°  
Efficiency 88 %  
Peak intensity 3.3 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



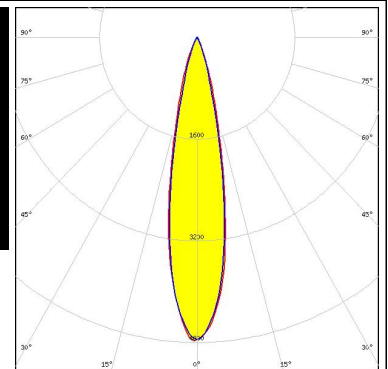
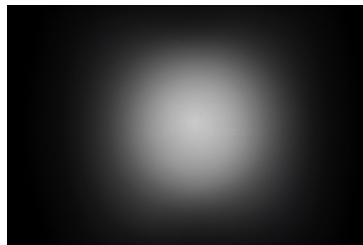
LED NVSW219F  
FWHM / FWTM 26.0° / 52.0°  
Efficiency 90 %  
Peak intensity 3.2 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



LED OSCONIQ C 2424  
FWHM / FWTM 18.0° / 35.0°  
Efficiency 88 %  
Peak intensity 6.3 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



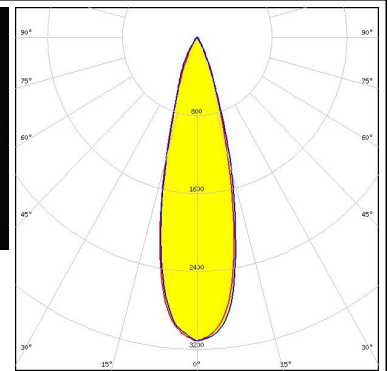
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 21.0° / 40.0°  
Efficiency 88 %  
Peak intensity 4.8 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



### OPTICAL RESULTS (MEASURED):

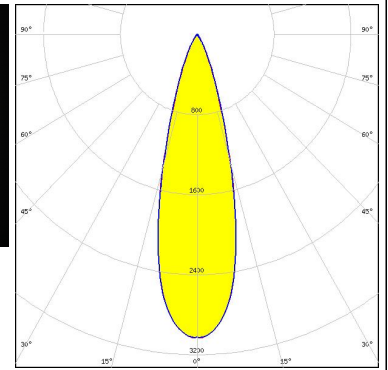
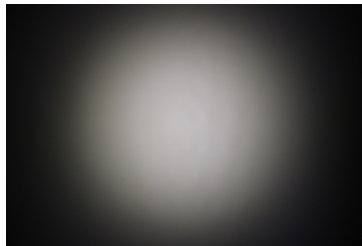
#### SAMSUNG

LED LH351C  
FWHM / FWTM 28.0° / 51.0°  
Efficiency 90 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SEOUL SEMICONDUCTOR

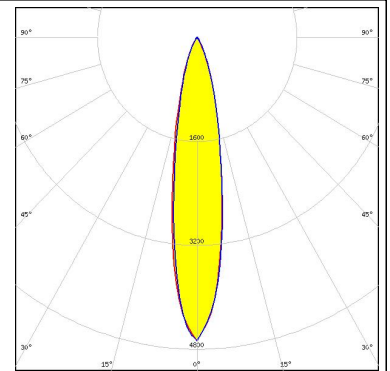
LED Z5M4  
FWHM / FWTM 29.0° / 51.0°  
Efficiency 89 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



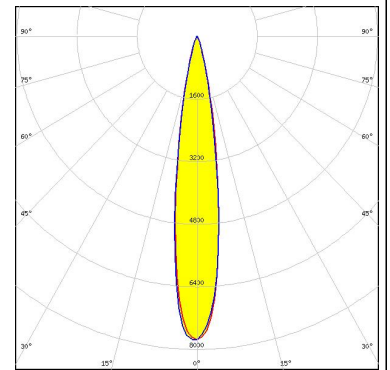
#### OPTICAL RESULTS (SIMULATED):



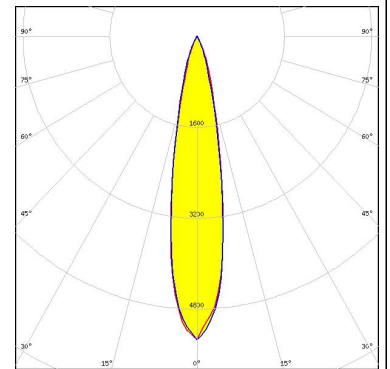
LED J Series 2835  
FWHM / FWTM 19.0° / 44.0°  
Efficiency 88 %  
Peak intensity 4.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



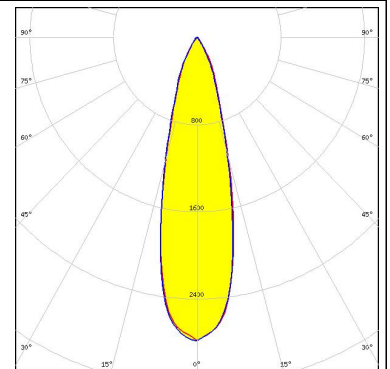
LED XP-E  
FWHM / FWTM 16.0° / 32.0°  
Efficiency 91 %  
Peak intensity 7.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-G2  
FWHM / FWTM 20.0° / 40.0°  
Efficiency 89 %  
Peak intensity 5.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



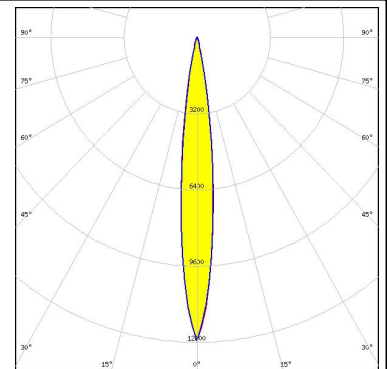
LED XP-G2 HE  
FWHM / FWTM 27.0° / 57.0°  
Efficiency 86 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



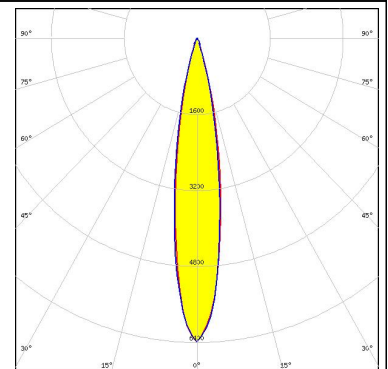
#### OPTICAL RESULTS (SIMULATED):



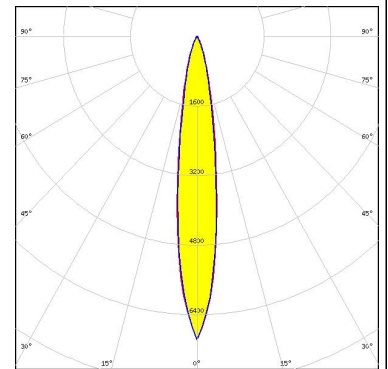
LED XP-P  
FWHM / FWTM 12.0° / 26.0°  
Efficiency 97 %  
Peak intensity 12.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



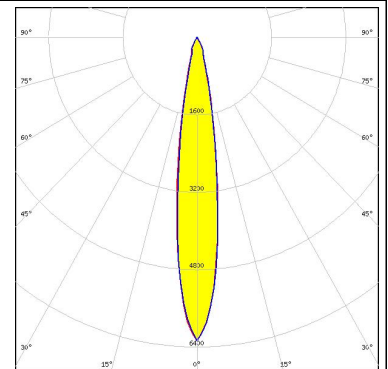
LED XQ-E HI  
FWHM / FWTM 18.0° / 34.0°  
Efficiency 82 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON 2835 Line  
FWHM / FWTM 16.0° / 36.0°  
Efficiency 89 %  
Peak intensity 7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



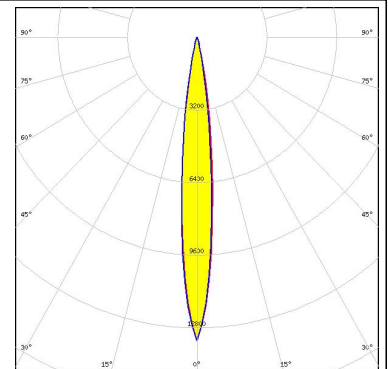
LED LUXEON C  
FWHM / FWTM 16.0° / 32.0°  
Efficiency 78 %  
Peak intensity 6.3 cd/lm  
LEDs/each optic 1  
Light colour Red  
Required components:



#### OPTICAL RESULTS (SIMULATED):

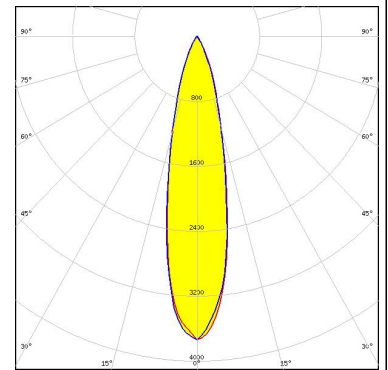
##### LUMILEDS

LED LUXEON CZ  
FWHM / FWTM 12.0° / 25.0°  
Efficiency 90 %  
Peak intensity 13.4 cd/lm  
LEDs/each optic 1  
Light colour Red  
Required components:



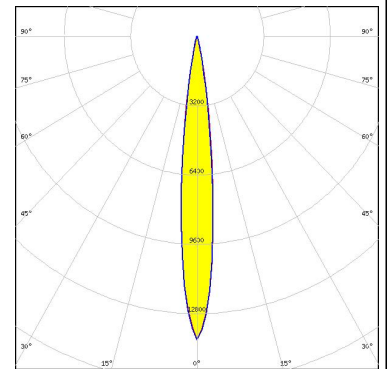
##### LUMILEDS

LED LUXEON V2  
FWHM / FWTM 22.0° / 51.0°  
Efficiency 90 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



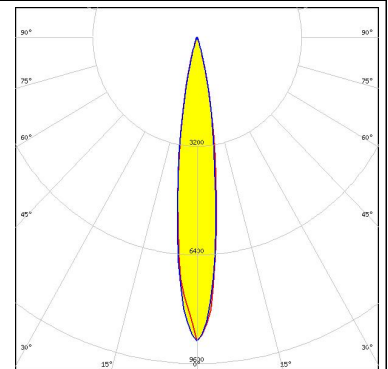
##### LUMILEDS

LED LUXEON Z  
FWHM / FWTM 12.0° / 23.0°  
Efficiency 87 %  
Peak intensity 13.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### LUMILEDS

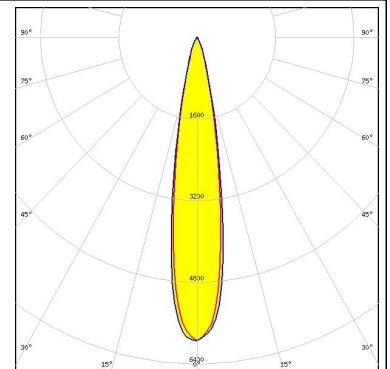
LED LUXEON Z ES  
FWHM / FWTM 15.0° / 30.0°  
Efficiency 88 %  
Peak intensity 9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



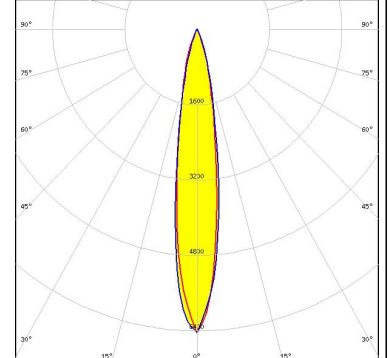
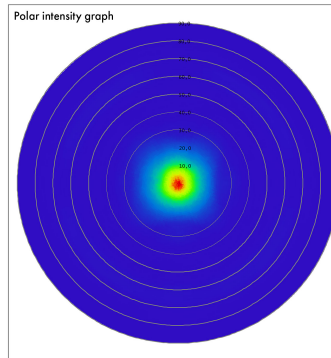
#### OPTICAL RESULTS (SIMULATED):



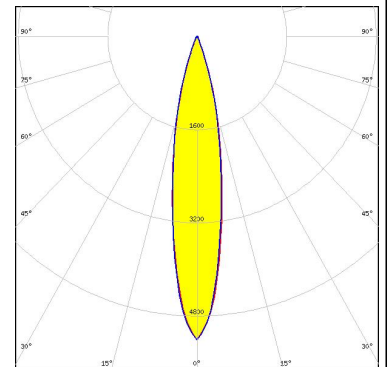
LED SST-10-B130  
FWHM / FWTM 19.0° / 36.0°  
Efficiency 89 %  
Peak intensity 6 cd/lm  
LEDs/each optic 1  
Light colour Deep Red  
Required components:



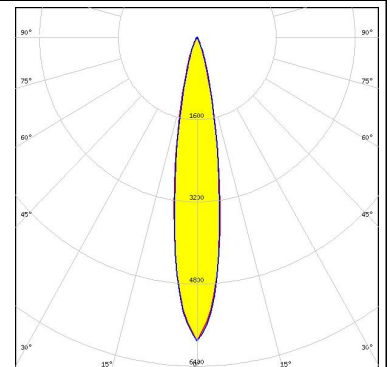
LED SST-10-IR-B90  
FWHM / FWTM 17.0° / 38.0°  
Efficiency 87 %  
LEDs/each optic 1  
Light colour IR  
Required components:



LED SST-20  
FWHM / FWTM 20.0° / 40.0°  
Efficiency 86 %  
Peak intensity 5.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



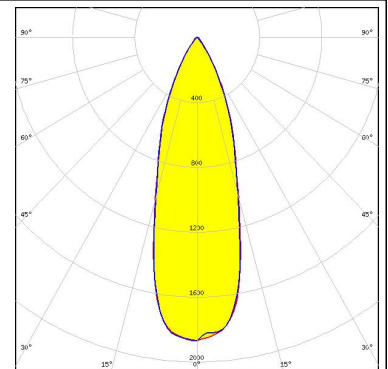
LED NCSxx19B  
FWHM / FWTM 18.0° / 37.0°  
Efficiency 84 %  
Peak intensity 5.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



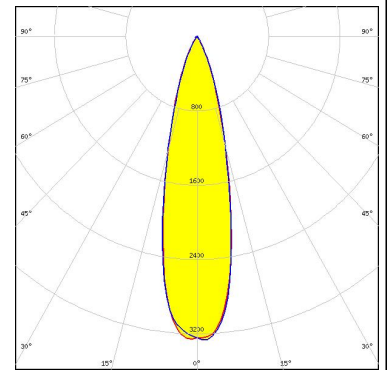
#### OPTICAL RESULTS (SIMULATED):



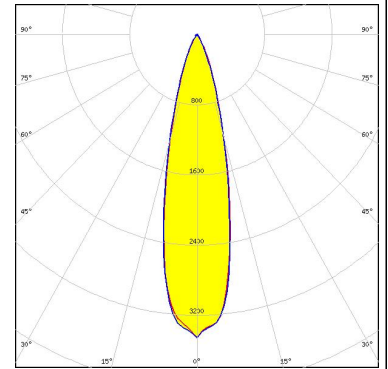
LED NV4WB35AM  
 FWHM / FWTM 32.0° / 65.0°  
 Efficiency 84 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



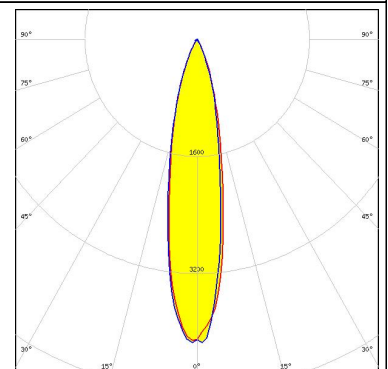
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 85 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 25.0° / 50.0°  
 Efficiency 85 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED Duris S5 (2 chip)  
 FWHM / FWTM 20.0° / 44.0°  
 Efficiency 87 %  
 Peak intensity 7.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

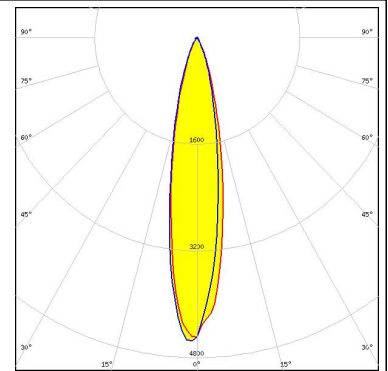


#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

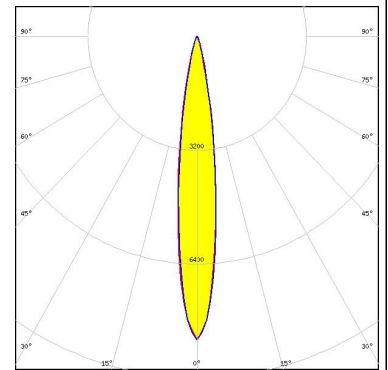
LED Duris S5 (Single chip)  
FWHM / FWTM 20.0° / 43.0°  
Efficiency 86 %  
Peak intensity 4.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

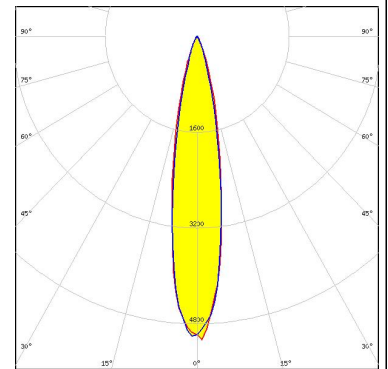
LED OSCONIQ P 3030  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 86 %  
Peak intensity 8.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

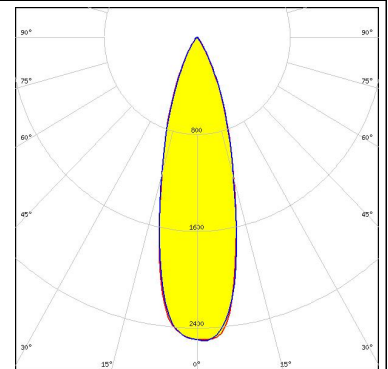
LED OSCONIQ P 3737 (2W version)  
FWHM / FWTM 20.0° / 40.0°  
Efficiency 88 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
FWHM / FWTM 29.0° / 58.0°  
Efficiency 88 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

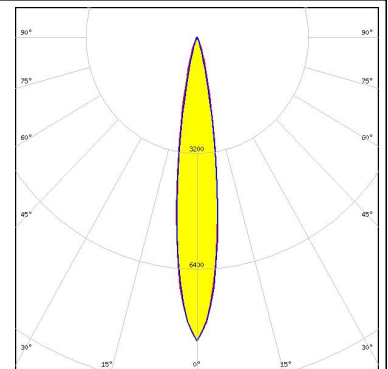


#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

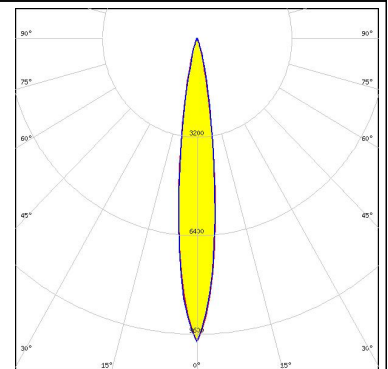
LED OSLON Boost HX (KW CULPM1.TG)  
 FWHM / FWTM 16.0° / 32.0°  
 Efficiency 90 %  
 Peak intensity 8.4 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

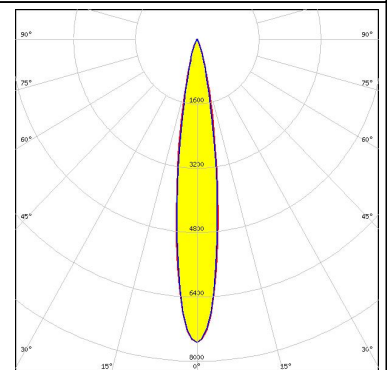
LED OSLON Signal  
 FWHM / FWTM 14.0° / 29.0°  
 Efficiency 88 %  
 Peak intensity 9.9 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

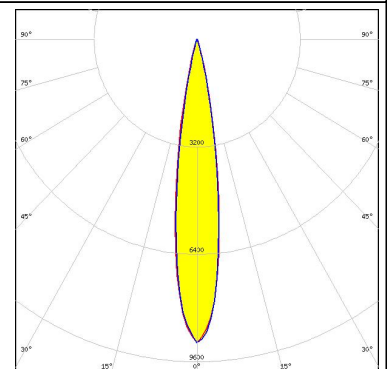
LED OSLON Square Flat  
 FWHM / FWTM 16.0° / 33.0°  
 Efficiency 89 %  
 Peak intensity 7.5 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED OSLON SSL 120  
 FWHM / FWTM 16.0° / 29.0°  
 Efficiency 90 %  
 Peak intensity 9 cd/Im  
 LEDs/each optic 1  
 Light colour Hyper Red  
 Required components:

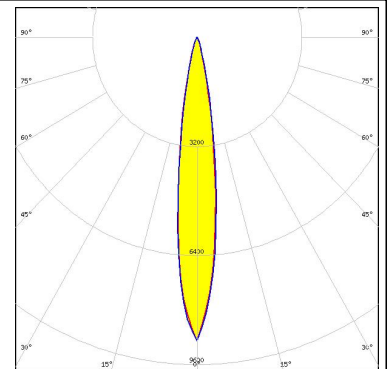


#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

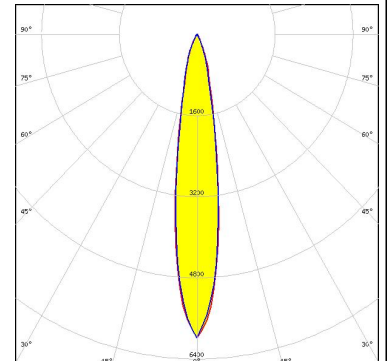
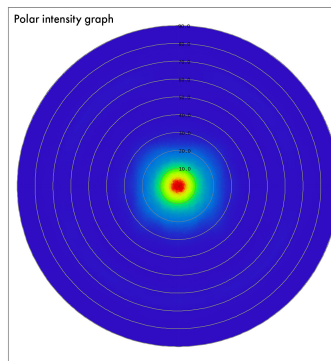
LED OSLON SSL 150  
 FWHM / FWTM 14.5° / 29.0°  
 Efficiency 88 %  
 Peak intensity 8.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

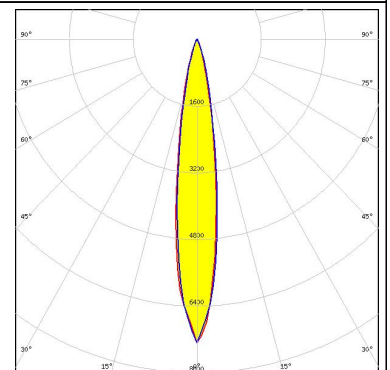
LED OSLON SSL 80  
 FWHM / FWTM 17.0° / 40.0°  
 Efficiency 87 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

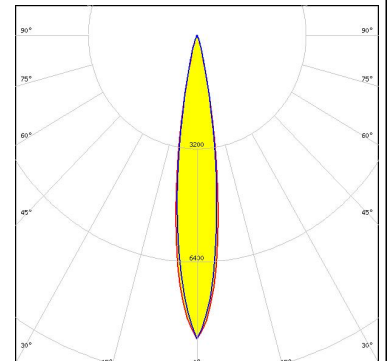
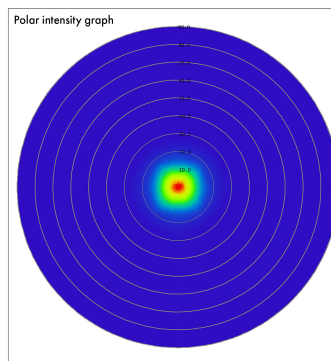
LED OSLON SSL 80  
 FWHM / FWTM 15.0° / 31.0°  
 Efficiency 87 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED SFH 4716S  
 FWHM / FWTM 16.0° / 29.0°  
 Efficiency 86 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



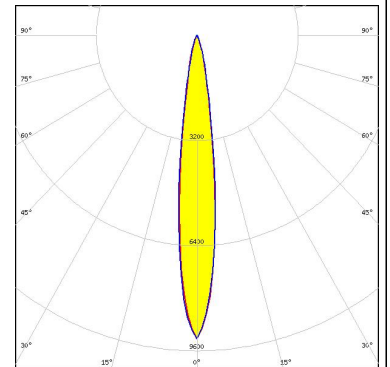
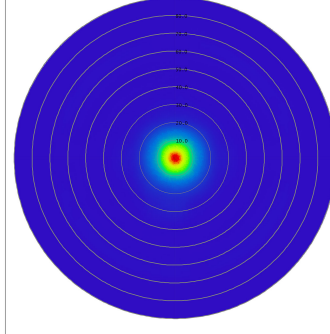
#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

LED SFH 4770S  
 FWHM / FWTM 14.0° / 30.0°  
 Efficiency 87 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:

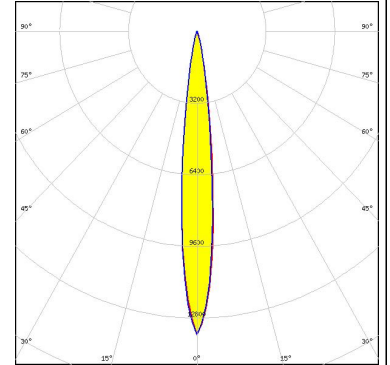
Polar intensity graph



##### OSRAM

Opto Semiconductors

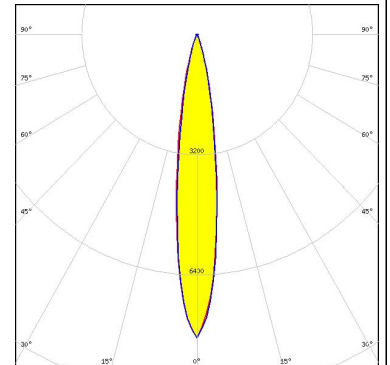
LED Synios P2720 1 mm  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 88 %  
 Peak intensity 13.6 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



##### OSRAM

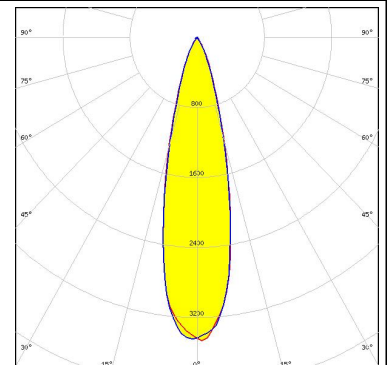
Opto Semiconductors

LED SYNIOS S2222  
 FWHM / FWTM 16.0° / 34.0 + 32.0°  
 Efficiency 97 %  
 Peak intensity 8.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### SAMSUNG

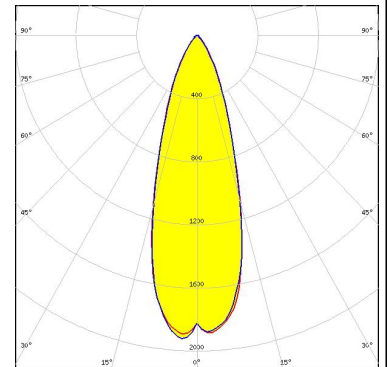
LED LH351B  
 FWHM / FWTM 26.0° / 49.0°  
 Efficiency 88 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

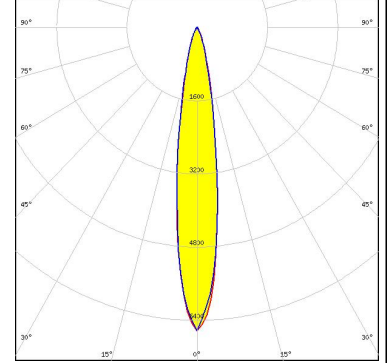
#### SAMSUNG

LED LH351D  
FWHM / FWTM 34.0° / 66.0°  
Efficiency 85 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



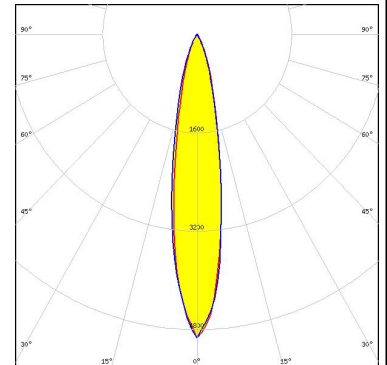
#### SAMSUNG

LED LM301A  
FWHM / FWTM 14.5° / 33.0°  
Efficiency 87 %  
Peak intensity 7.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



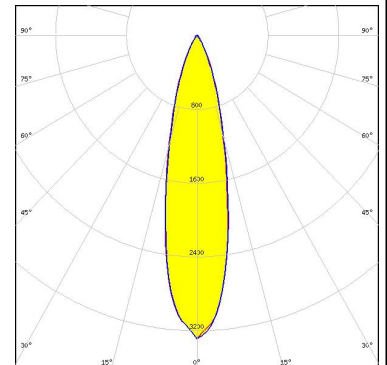
#### SAMSUNG

LED LM302A  
FWHM / FWTM 16.0° / 40.0°  
Efficiency 87 %  
Peak intensity 5.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

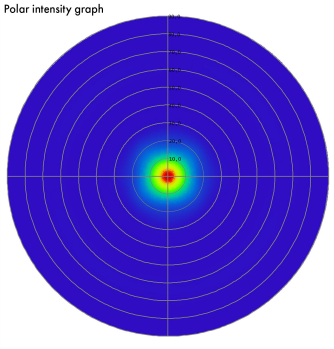
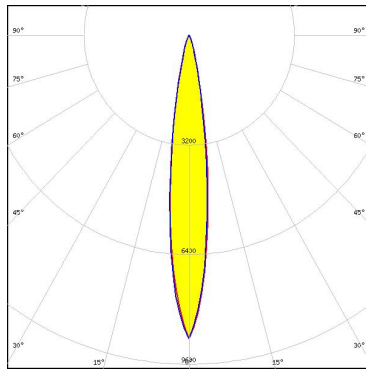
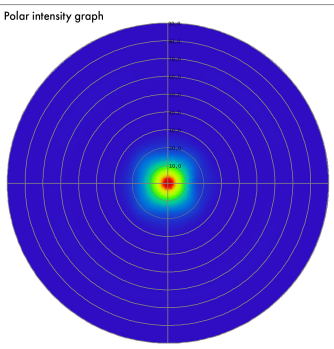
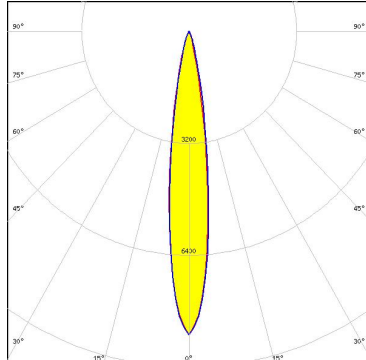


SEOUL SEMICONDUCTOR

LED Z5M3  
FWHM / FWTM 24.0° / 51.0°  
Efficiency 86 %  
Peak intensity 3.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



OPTICAL RESULTS (SIMULATED):

<div><div>STANLEY</div><div><div>LED</div><div>MGN1108MS</div></div><div><div>FWHM / FWTM</div><div>15.0° / 30.0°</div></div><div><div>Efficiency</div><div>89 %</div></div><div><div>LEDs/each optic</div><div>1</div></div><div><div>Light colour</div><div>IR</div></div><div><div>Required components:</div><div></div></div></div>	<div><div>Polar intensity graph</div><div></div></div> <div><div></div></div>
<div><div>STANLEY</div><div><div>LED</div><div>MJN1108MS</div></div><div><div>FWHM / FWTM</div><div>15.0° / 31.0°</div></div><div><div>Efficiency</div><div>90 %</div></div><div><div>LEDs/each optic</div><div>1</div></div><div><div>Light colour</div><div>IR</div></div><div><div>Required components:</div><div></div></div></div>	<div><div>Polar intensity graph</div><div></div></div> <div><div></div></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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