

## LISA3-O-PIN

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

### SPECIFICATION:

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

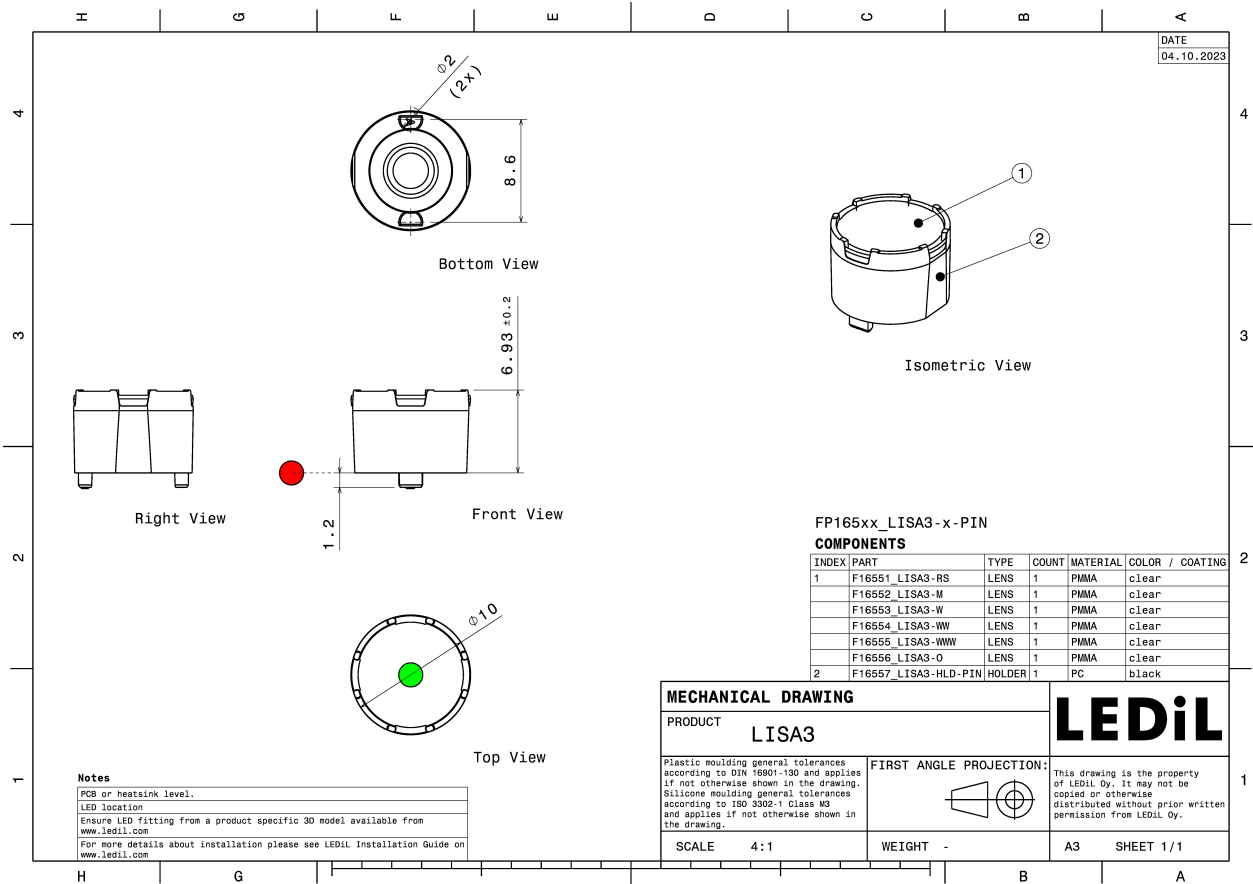


### MATERIALS:

Component	Type	Material	Colour	Finish
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	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					

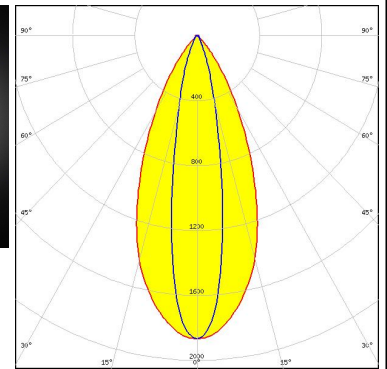
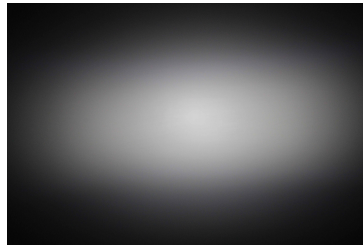


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

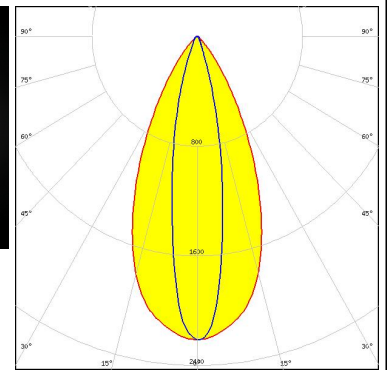
#### OPTICAL RESULTS (MEASURED):



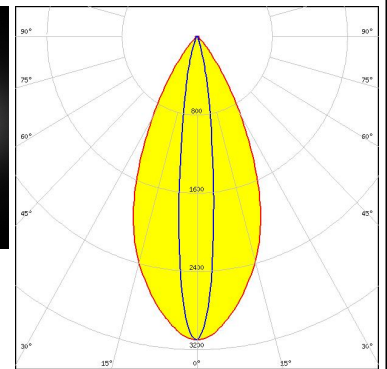
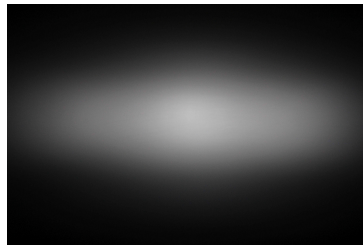
LED XD16  
 FWHM / FWTM 45.0 + 20.0° / 78.0 + 43.0°  
 Efficiency 65 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



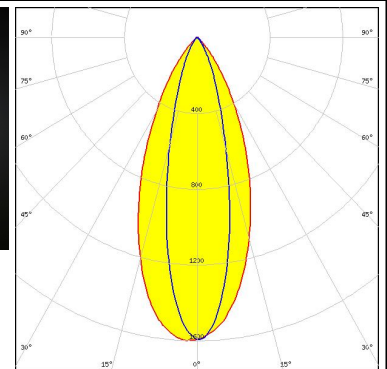
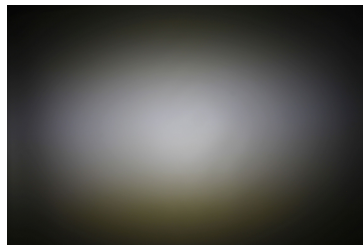
LED XP-E2  
 FWHM / FWTM 48.0 + 20.0° / 79.0 + 41.0°  
 Efficiency 78 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



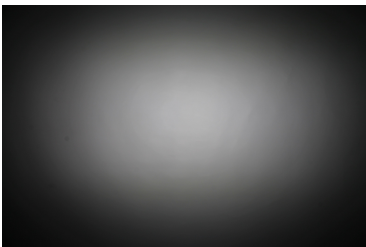
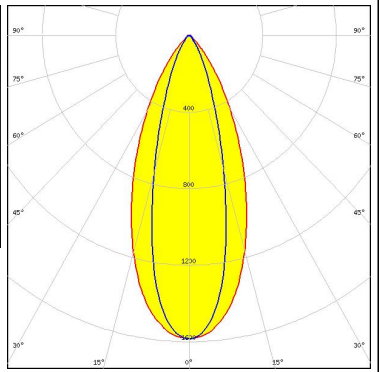

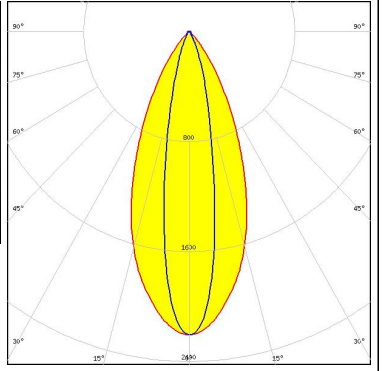
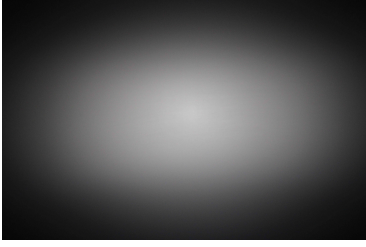
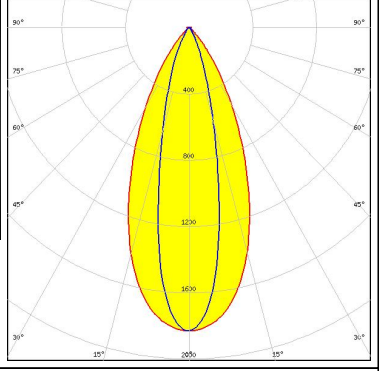

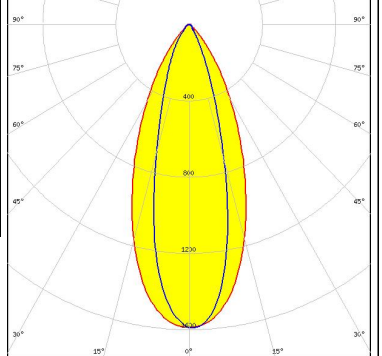
LED LUXEON CZ  
 FWHM / FWTM 49.0 + 14.0° / 76.0 + 31.0°  
 Efficiency 76 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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




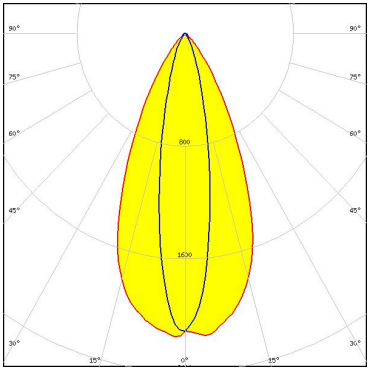

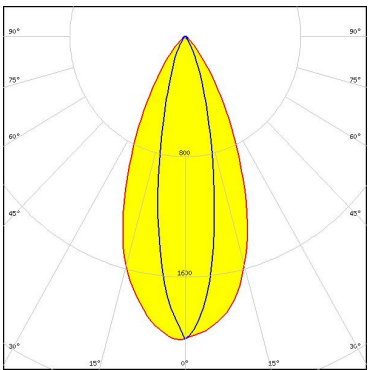

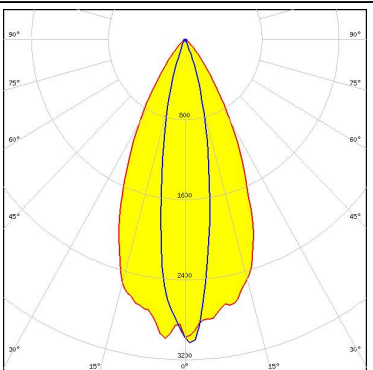

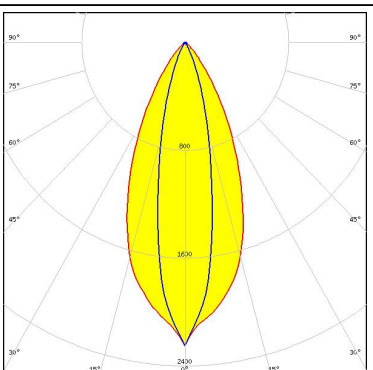
#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSW219F</p> <p>FWHM / FWTM 45.0 + 29.0° / 81.0 + 58.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ C 2424</p> <p>FWHM / FWTM 44.0 + 20.0° / 77.0 + 43.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 2.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 46.0 + 24.0° / 80.0 + 50.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH351C</p> <p>FWHM / FWTM 45.0 + 28.0° / 81.0 + 59.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

### OPTICAL RESULTS (MEASURED):



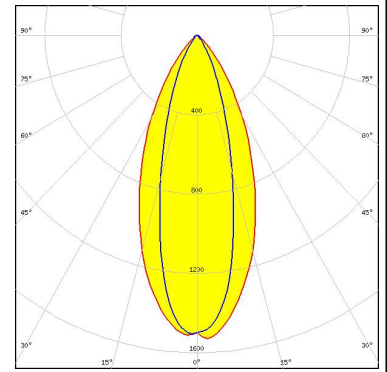
#### OPTICAL RESULTS (SIMULATED):

	<p>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 White            Required components:</p>	
	<p>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 White            Required components:</p>	
	<p>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 White            Required components:</p>	
	<p>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 White            Required components:</p>	

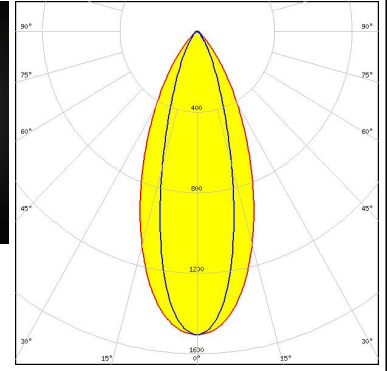
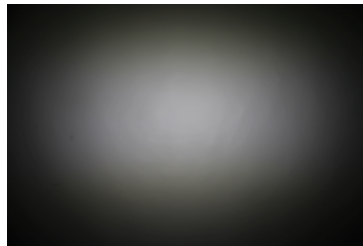
#### OPTICAL RESULTS (SIMULATED):



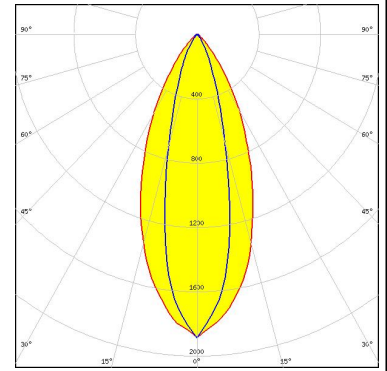
LED XP-G2 HE  
 FWHM / FWTM 46.0 + 29.0° / 84.0 + 61.0°  
 Efficiency 77 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



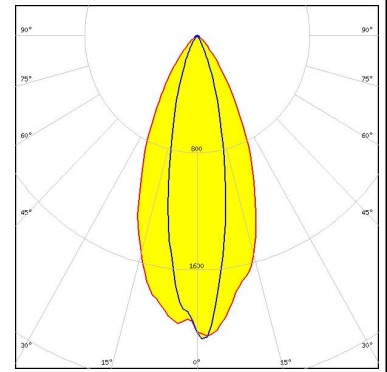
LED XP-G3  
 FWHM / FWTM 44.0 + 29.0° / 81.0 + 59.0°  
 Efficiency 73 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



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 White  
 Required components:

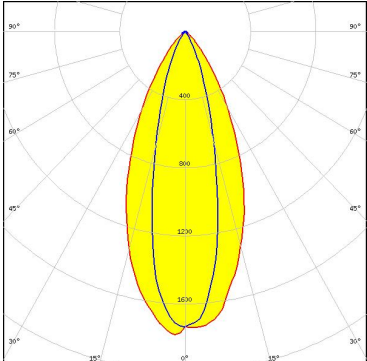
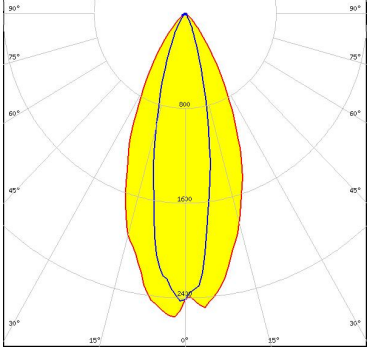
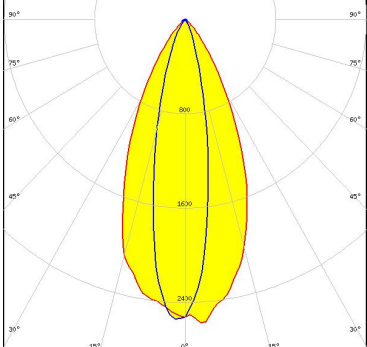
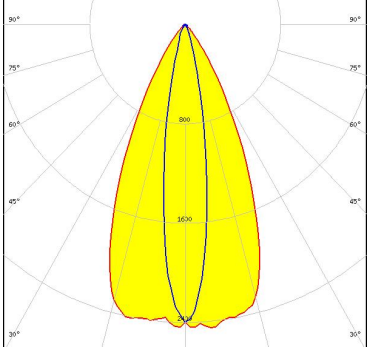


#### OPTICAL RESULTS (SIMULATED):

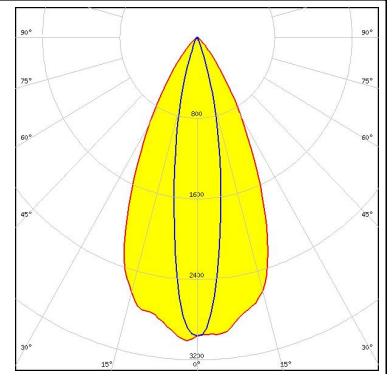
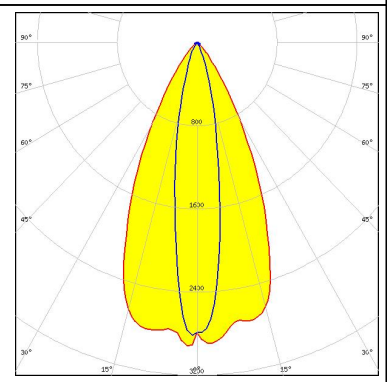
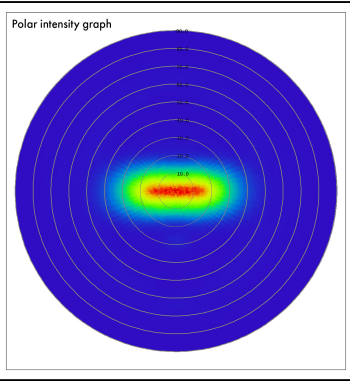
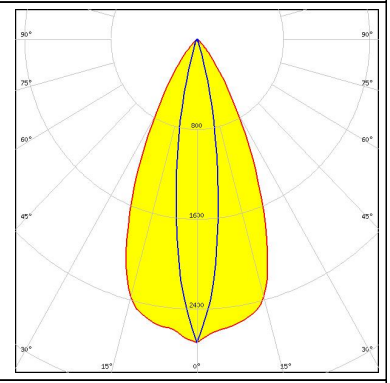
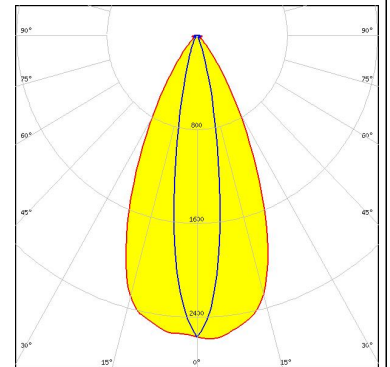
<p><b>LUMILEDS</b></p> <p>LED: LUXEON V2</p> <p>FWHM / FWTM: 25.0 + 47.0° / 53.0 + 81.0°</p> <p>Efficiency: 83 %</p> <p>Peak intensity: 1.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON Z</p> <p>FWHM / FWTM: 12.0 + 50.0° / 25.0 + 74.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 3.3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON Z ES</p> <p>FWHM / FWTM: 17.0 + 49.0° / 34.0 + 76.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 2.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED: SST-20</p> <p>FWHM / FWTM: 48.0 + 20.0° / 78.0 + 41.0°</p> <p>Efficiency: 81 %</p> <p>Peak intensity: 2.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	



### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>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 White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>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 White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>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 White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3030            FWHM / FWTM 50.0 + 17.0° / 75.0 + 34.0°            Efficiency 79 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

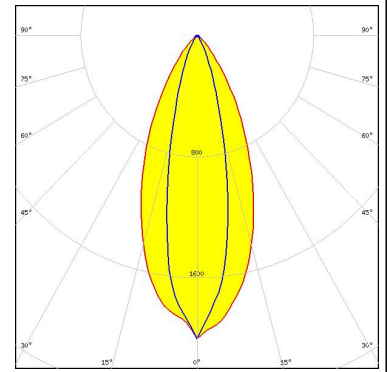
### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSLOM SSL 150</p> <p>FWHM / FWTM: 16.5 + 48.0° / 36.0 + 76.0°</p> <p>Efficiency: 83 %</p> <p>Peak intensity: 2.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSLOM SSL 80</p> <p>FWHM / FWTM: 16.0 + 45.0° / 38.0 + 72.0°</p> <p>Efficiency: 81 %</p> <p>Peak intensity: 2.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: SFH 4716S</p> <p>FWHM / FWTM: 48.0 + 17.0° / 75.0 + 32.0°</p> <p>Efficiency: 82 %</p> <p>LEDs/each optic: 1</p> <p>Light colour: IR</p> <p>Required components:</p>	<p>Polar intensity graph</p> 	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: SYNIOS S2222</p> <p>FWHM / FWTM: 50.0 + 18.0° / 77.0 + 36.0°</p> <p>Efficiency: 95 %</p> <p>Peak intensity: 2.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

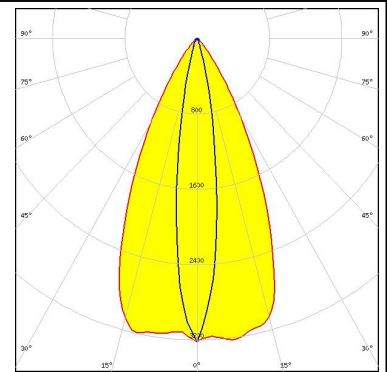
### SAMSUNG

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 White  
 Required components:



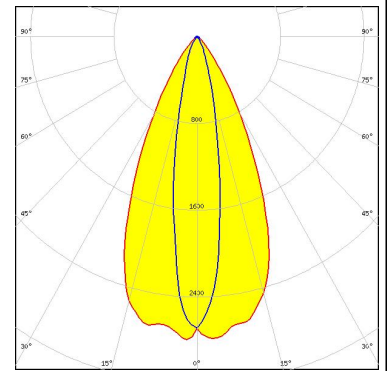
### SAMSUNG

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 White  
 Required components:



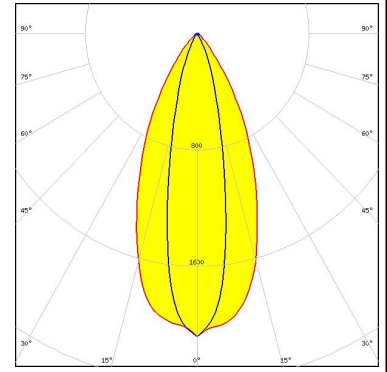
### SAMSUNG

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 White  
 Required components:

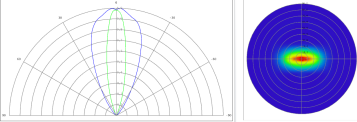
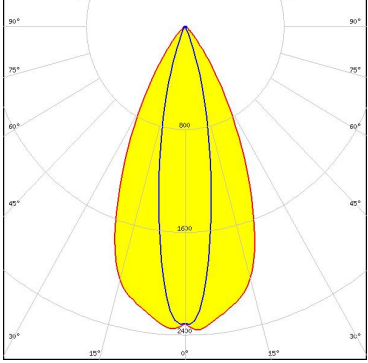
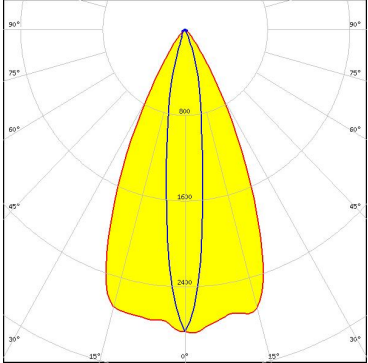
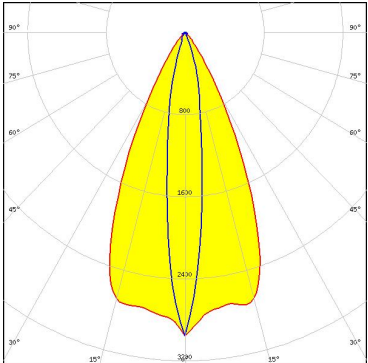


SEOUL SEMICONDUCTOR

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 White  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

<p><b>STANLEY</b></p> <p>LED FWR1108MS            FWHM / FWTM 48.0 + 20.0° / 76.0 + 40.0°            Efficiency 84 %            LEDs/each optic 1            Light colour IR            Required components:</p>		
<p><b>STANLEY</b></p> <p>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 IR            Required components:</p>		
<p><b>STANLEY</b></p> <p>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 IR            Required components:</p>		
<p><b>STANLEY</b></p> <p>LED MJN1108MS            FWHM / FWTM 48.0 + 19.0° / 76.0 + 39.0°            Efficiency 85 %            LEDs/each optic 1            Light colour IR            Required components:</p>	