

## OLGA-S

~11° spot beam beam. Assembly with holder and installation tape.

### SPECIFICATION:

Dimensions	Ø 32.0 mm
Height	19.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

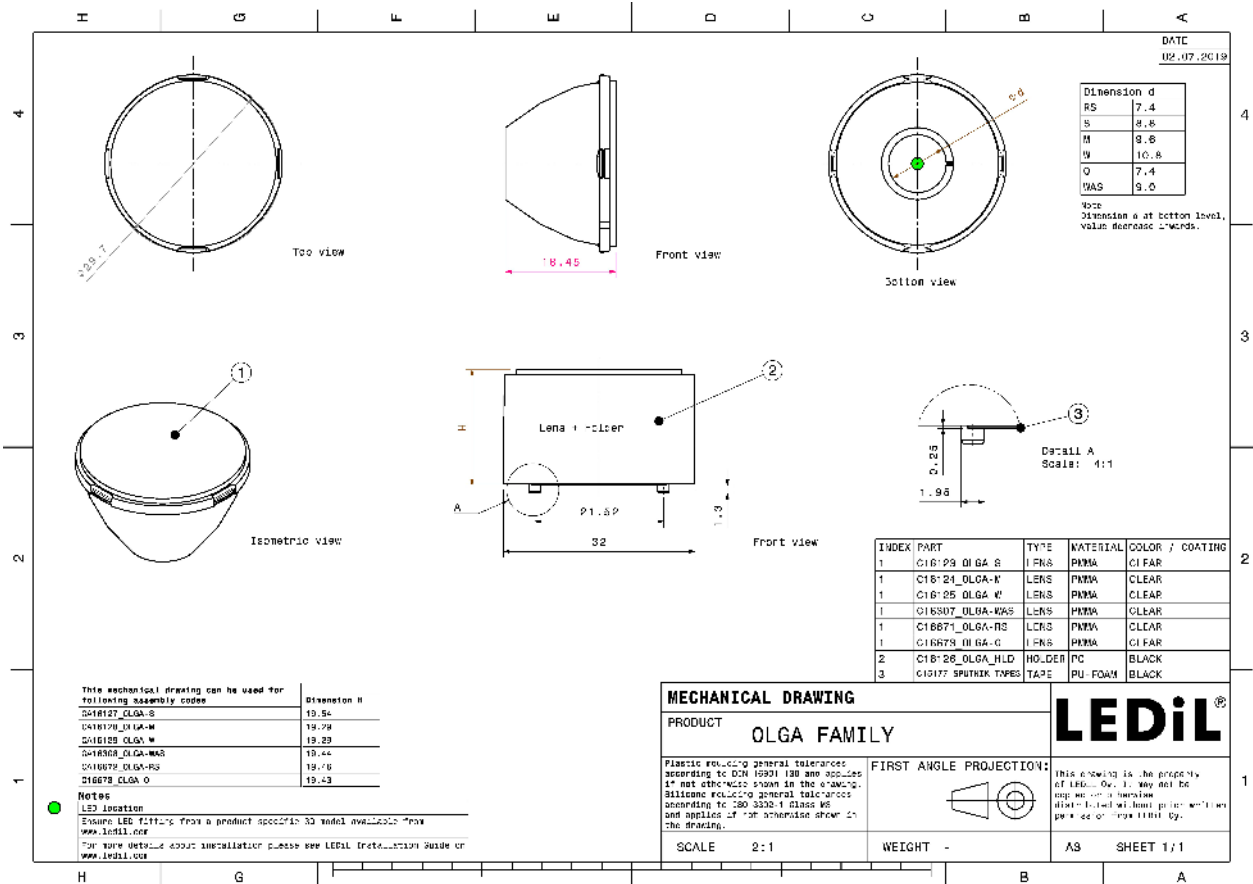
### MATERIALS:

Component	Type	Material	Colour	Finish
OLGA-S	Single lens	PMMA	clear	
OLGA-HLD	Holder	PC	black	
SPUTNIK-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:


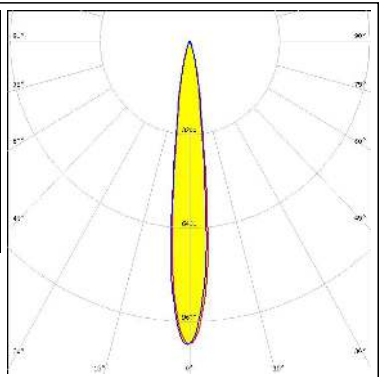

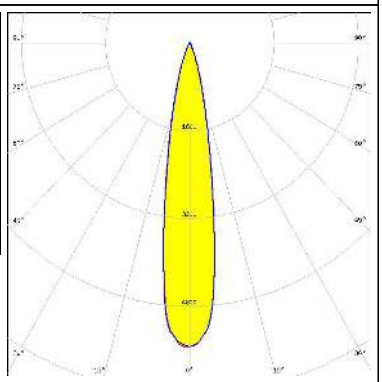

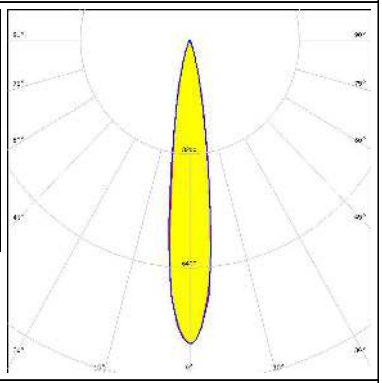

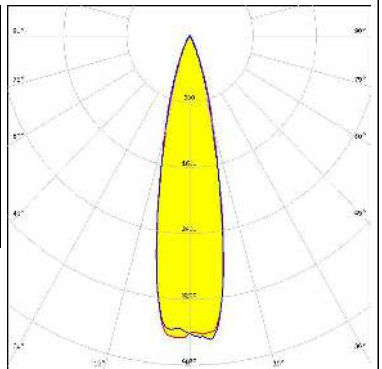
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA16127_OLGA-S	Single lens	792	132	66	9.8
» Box size: 476 x 273 x 292 mm					




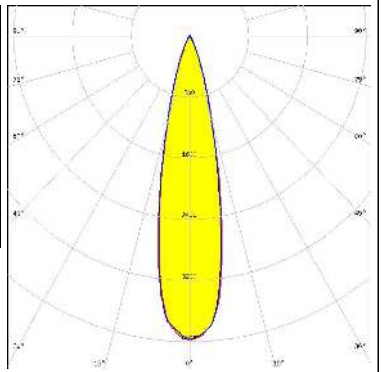

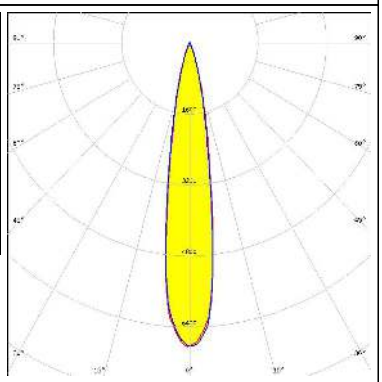
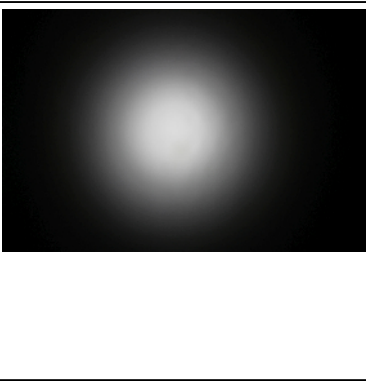
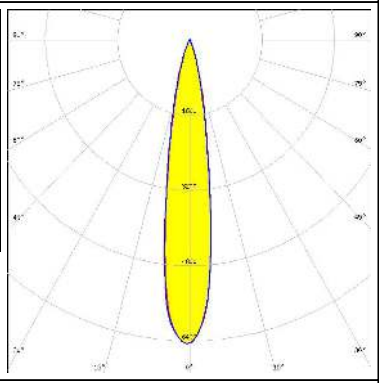
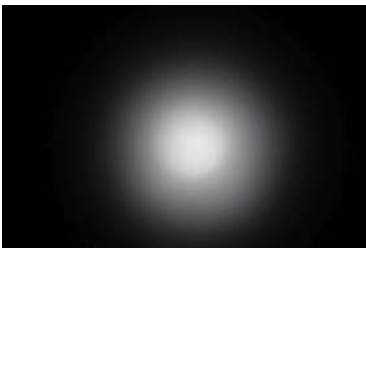
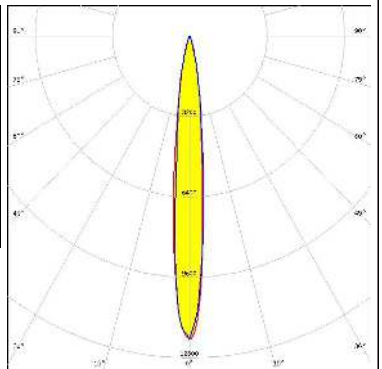


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)


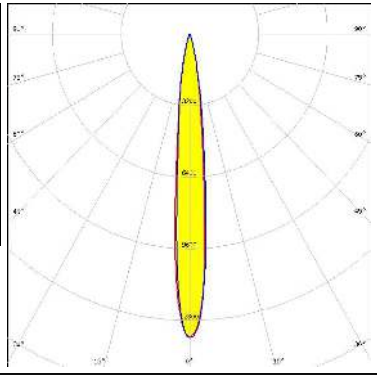

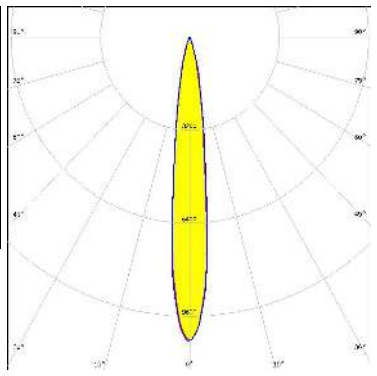

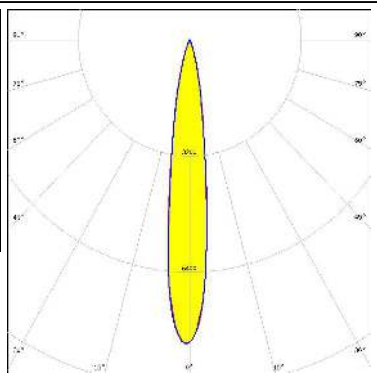

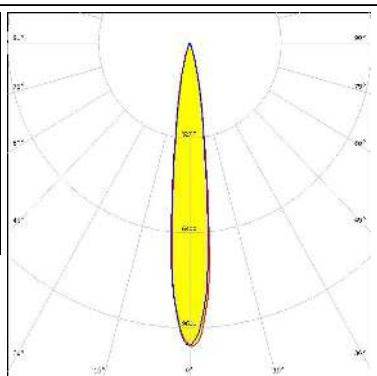
#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED                   XD16 FWHM / FWTM      13.0° / 28.0° Efficiency           82 % Peak intensity      10.4 cd/lm LEDs/each optic    1 Light colour        White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED                   XHP35 HD FWHM / FWTM      19.0° / 37.0° Efficiency           83 % Peak intensity      5.5 cd/lm LEDs/each optic    1 Light colour        White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED                   XHP35 HI FWHM / FWTM      15.0° / 31.0° Efficiency           87 % Peak intensity      8.5 cd/lm LEDs/each optic    1 Light colour        White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED                   XHP50 FWHM / FWTM      24.0° / 44.0° Efficiency           83 % Peak intensity      3.7 cd/lm LEDs/each optic    1 Light colour        White Required components:</p>		


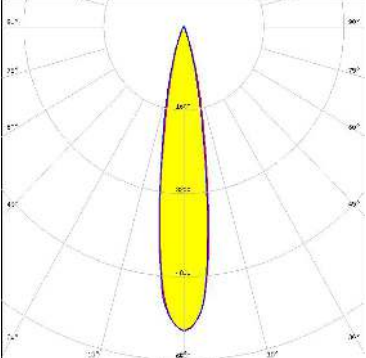

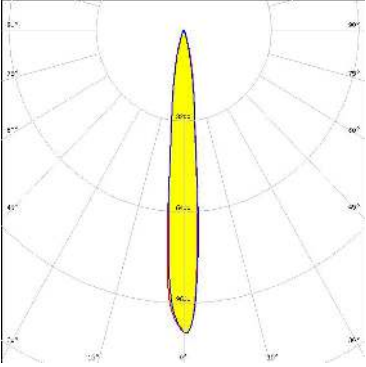

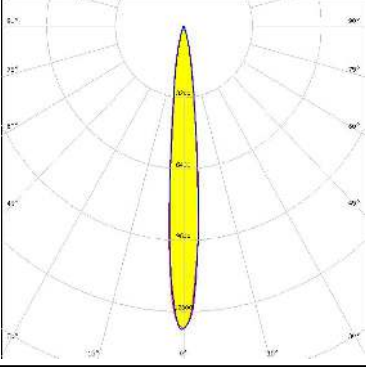

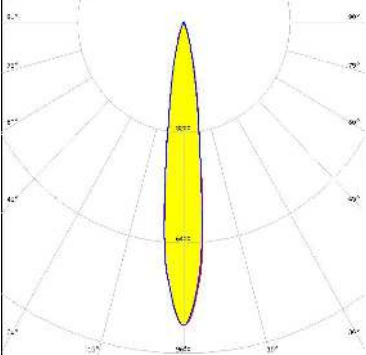
### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED XHP50.2 FWHM / FWTM 23.0° / 43.0° Efficiency 82 % Peak intensity 4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XM-L FWHM / FWTM 17.0° / 34.0° Efficiency 86 % Peak intensity 6.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XM-L3 FWHM / FWTM 17.0° / 35.0° Efficiency 85 % Peak intensity 6.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-E FWHM / FWTM 11.0° / 27.0° Efficiency 87 % Peak intensity 12.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

#### OPTICAL RESULTS (MEASURED):


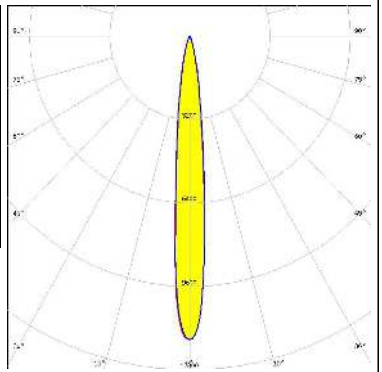
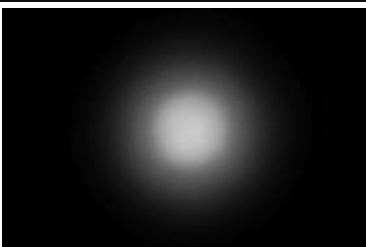
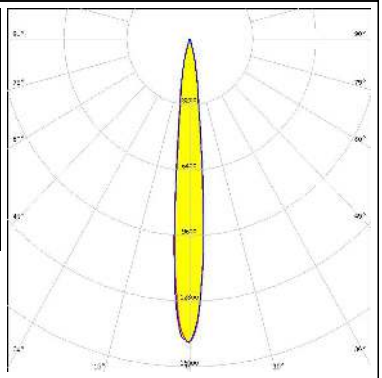
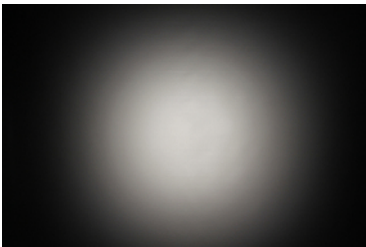
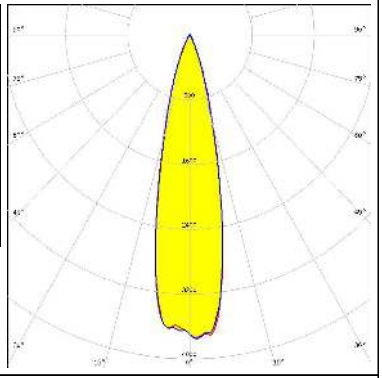

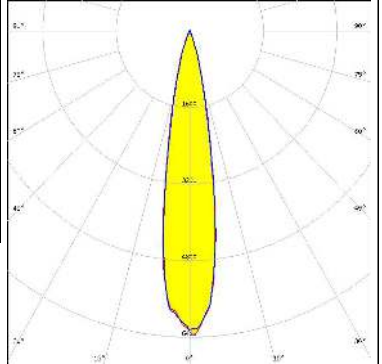
<p><b>CREE</b> LEDs</p> <p>LED XP-E2            FWHM / FWTM 11.0° / 26.0°            Efficiency 89 %            Peak intensity 13.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-G2            FWHM / FWTM 13.0° / 29.0°            Efficiency 87 %            Peak intensity 10 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-G3            FWHM / FWTM 14.0° / 31.0°            Efficiency 86 %            Peak intensity 8.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-L HI            FWHM / FWTM 14.0° / 29.0°            Efficiency 88 %            Peak intensity 10.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED XP-L2            FWHM / FWTM 18.0° / 36.0°            Efficiency 82 %            Peak intensity 5.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XQ-E HD            FWHM / FWTM 11.0° / 28.0°            Efficiency 81 %            Peak intensity 11 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XQ-E HI            FWHM / FWTM 11.0° / 26.0°            Efficiency 86 %            Peak intensity 13.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XT-E            FWHM / FWTM 14.0° / 30.0°            Efficiency 84 %            Peak intensity 8.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		



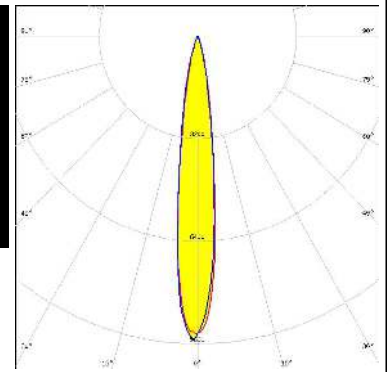
### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON C</p> <p>FWHM / FWTM 11.0° / 27.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 11.6 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 CZ</p> <p>FWHM / FWTM 11.0° / 25.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 14.8 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 M/MX</p> <p>FWHM / FWTM 24.0° / 44.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.8 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 MZ</p> <p>FWHM / FWTM 19.0° / 35.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 6.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

### OPTICAL RESULTS (MEASURED):

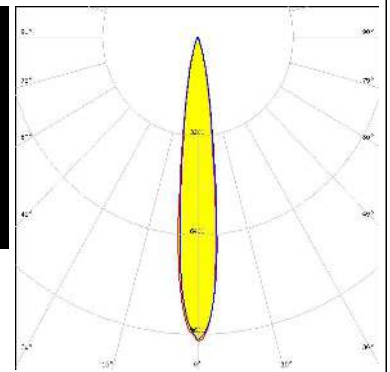
#### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 14.0° / 30.0°  
 Efficiency 86 %  
 Peak intensity 9.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



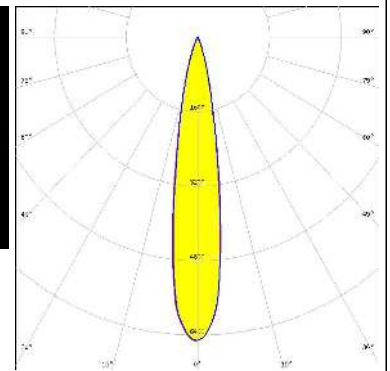
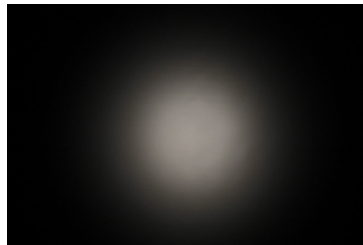
#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 14.0° / 29.0°  
 Efficiency 86 %  
 Peak intensity 9.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



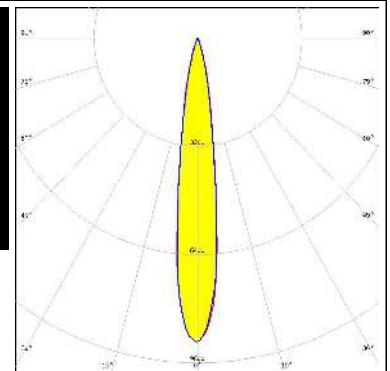
#### LUMILEDS

LED LUXEON V  
 FWHM / FWTM 18.0° / 35.0°  
 Efficiency 84 %  
 Peak intensity 6.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



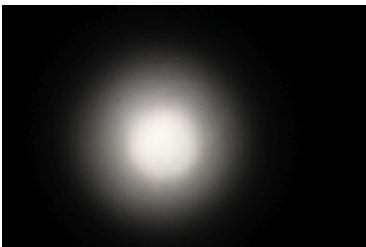
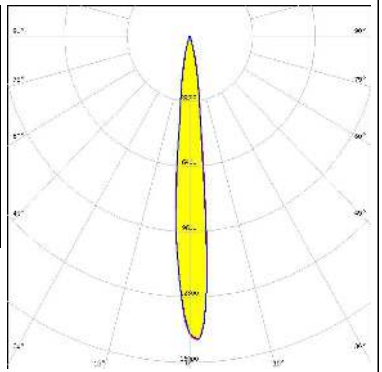

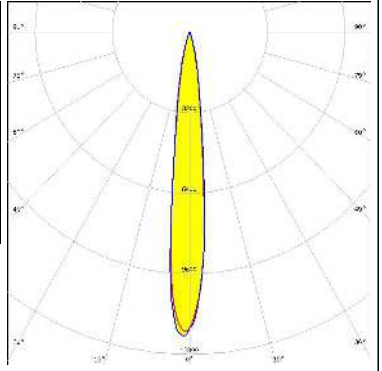

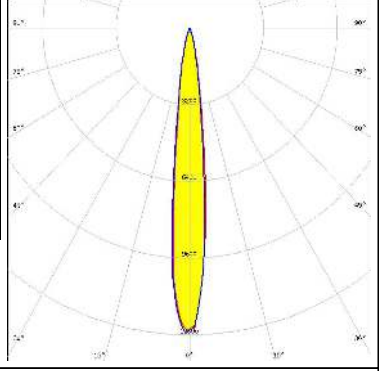

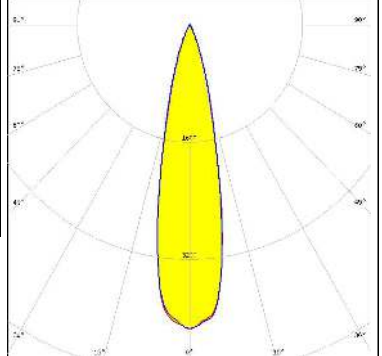
#### LUMILEDS

LED LUXEON V2  
 FWHM / FWTM 15.0° / 31.0°  
 Efficiency 86 %  
 Peak intensity 9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

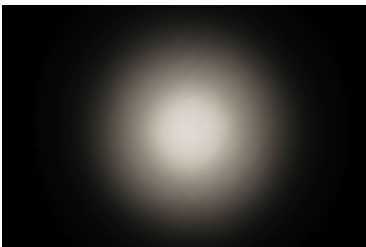
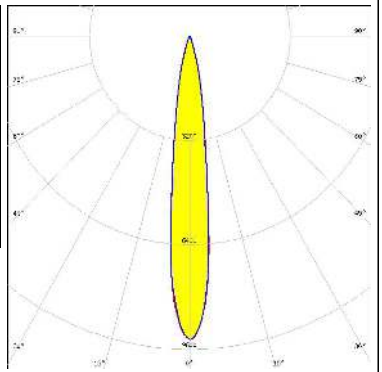

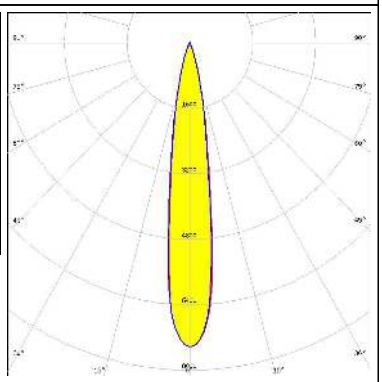

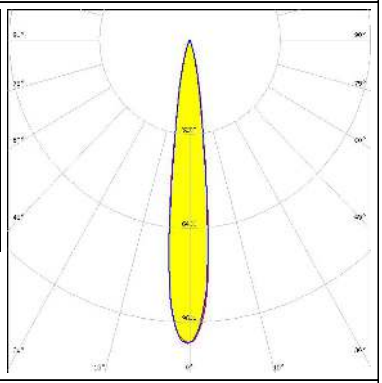

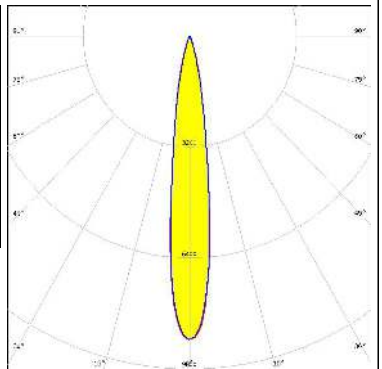




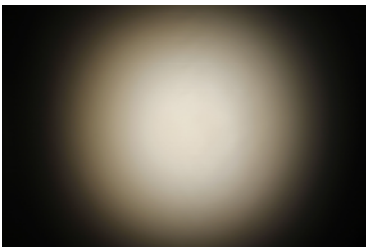
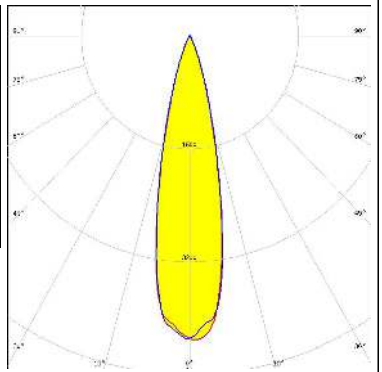
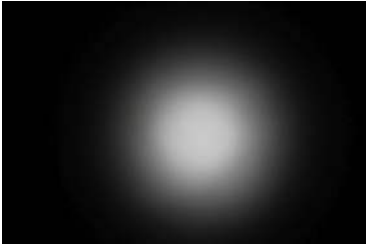
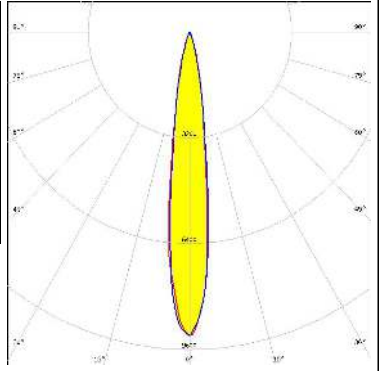

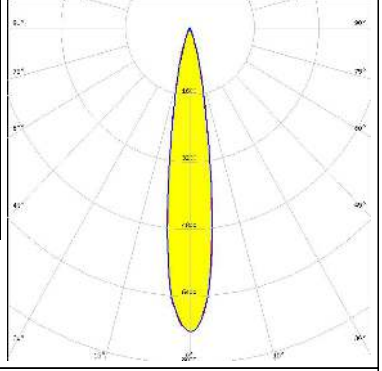
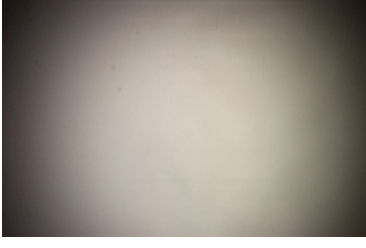
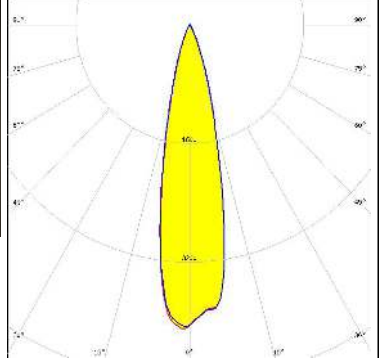
### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Z            FWHM / FWTM 11.0° / 25.0°            Efficiency 88 %            Peak intensity 15.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES            FWHM / FWTM 12.0° / 27.0°            Efficiency 89 %            Peak intensity 12.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxE17A            FWHM / FWTM 12.0° / 26.0°            Efficiency 87 %            Peak intensity 12.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NV4x144A            FWHM / FWTM 23.0° / 43.0°            Efficiency 84 %            Peak intensity 4.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

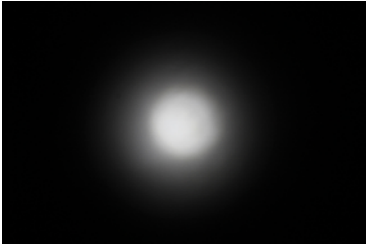
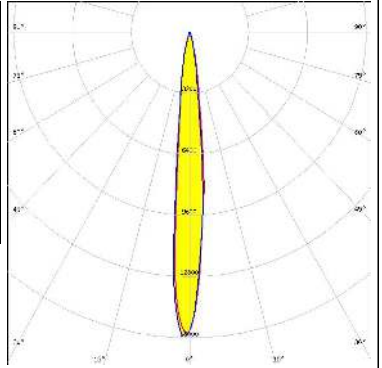

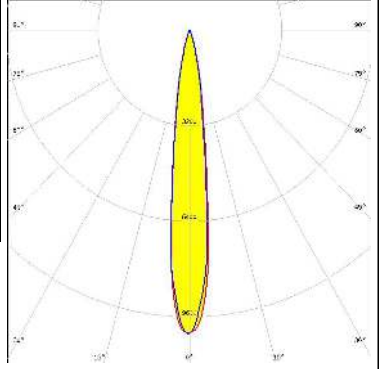

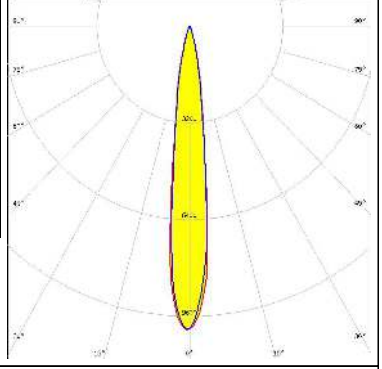

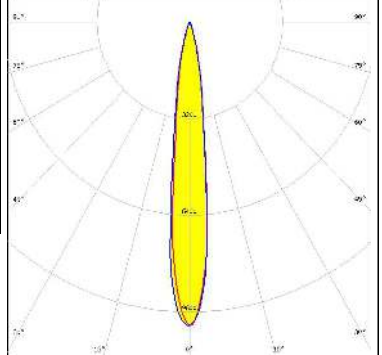
### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSW219D            FWHM / FWTM 14.0° / 30.0°            Efficiency 85 %            Peak intensity 9.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW319B            FWHM / FWTM 16.0° / 33.0°            Efficiency 86 %            Peak intensity 7.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM / FWTM 14.0° / 28.0°            Efficiency 87 %            Peak intensity 10.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 15.0° / 31.0°            Efficiency 85 %            Peak intensity 8.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		


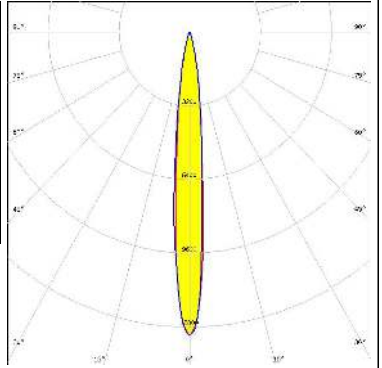
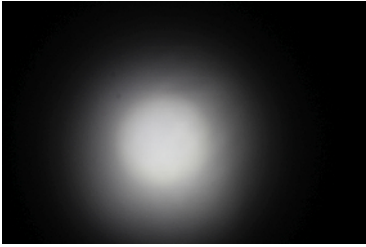
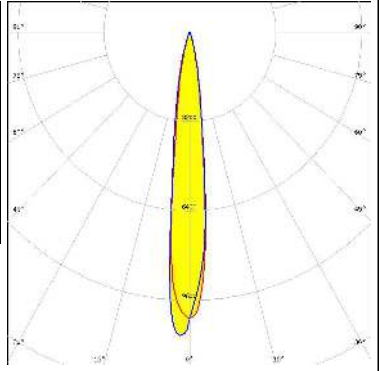

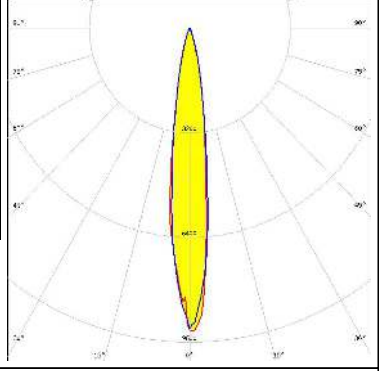

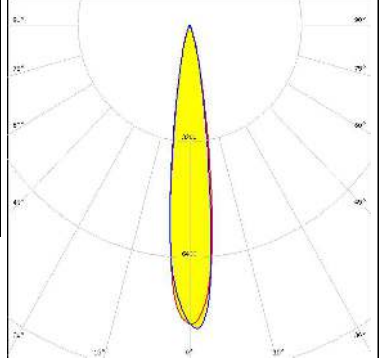
#### OPTICAL RESULTS (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S8</p> <p>FWHM / FWTM 24.0° / 43.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.3 cd/m</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 P 3737 (2W version)</p> <p>FWHM / FWTM 14.0° / 30.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 9.2 cd/m</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 P 3737 (3W version)</p> <p>FWHM / FWTM 17.0° / 33.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 7.2 cd/m</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 P 7070</p> <p>FWHM / FWTM 23.0° / 42.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Black Flat (LUW HWQP)</p> <p>FWHM / FWTM 11.0° / 24.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 16 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 OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 14.0° / 30.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 10.2 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 OSLON Square EC</p> <p>FWHM / FWTM 13.0° / 29.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 10 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 OSLON Square PC</p> <p>FWHM / FWTM 13.0° / 30.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 10.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

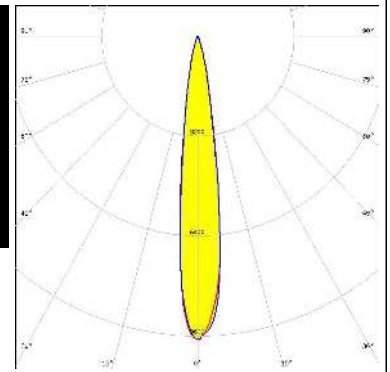
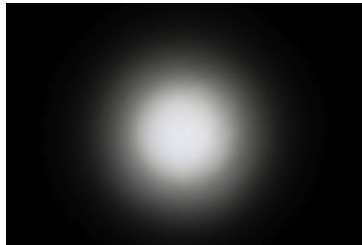
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 11.0° / 26.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 13 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 80</p> <p>FWHM / FWTM 13.0° / 28.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 11.1 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 OSTAR Stage (S2WN)</p> <p>FWHM / FWTM 14.0° / 30.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 9.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour RGBW</p> <p>Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH181A</p> <p>FWHM / FWTM 15.0° / 30.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 8.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		



#### OPTICAL RESULTS (MEASURED):

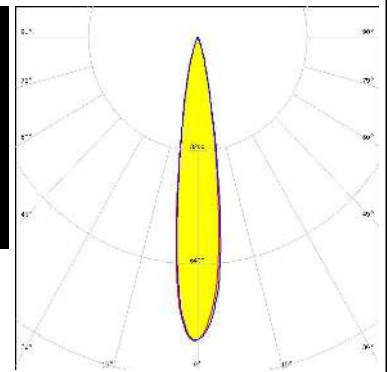
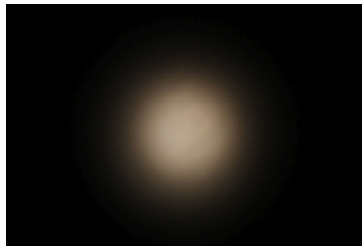
### SAMSUNG

LED LH181B  
 FWHM / FWTM 15.0° / 29.0°  
 Efficiency 87 %  
 Peak intensity 9.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



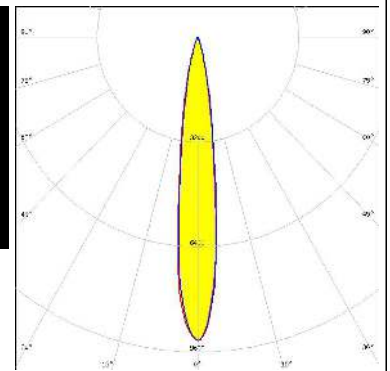
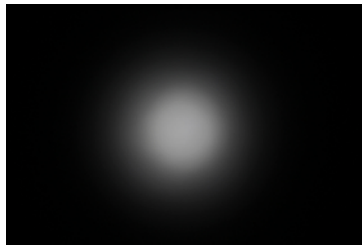
### SAMSUNG

LED LH231B  
 FWHM / FWTM 16.0° / 31.0°  
 Efficiency 88 %  
 Peak intensity 8.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



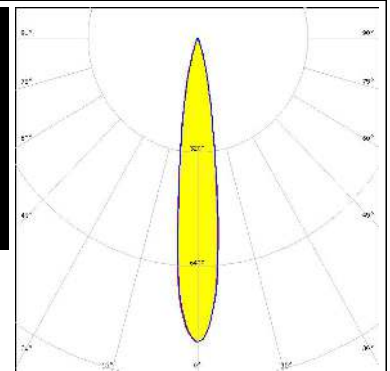
### SAMSUNG

LED LH351B  
 FWHM / FWTM 14.0° / 30.0°  
 Efficiency 87 %  
 Peak intensity 9.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

LED LH351C  
 FWHM / FWTM 15.0° / 31.0°  
 Efficiency 86 %  
 Peak intensity 8.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

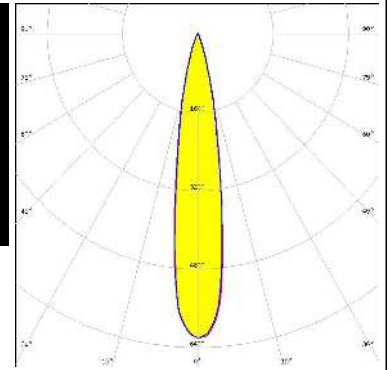




#### OPTICAL RESULTS (MEASURED):

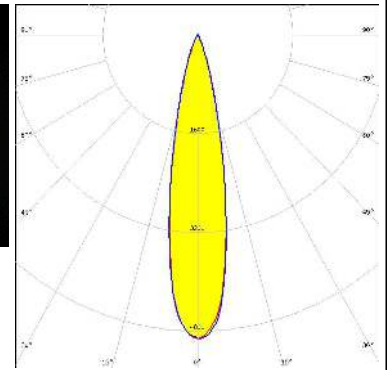
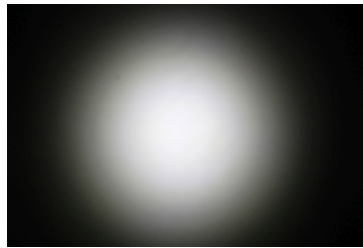
### SAMSUNG

LED LH351D  
 FWHM / FWTM 18.0° / 36.0°  
 Efficiency 85 %  
 Peak intensity 6.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



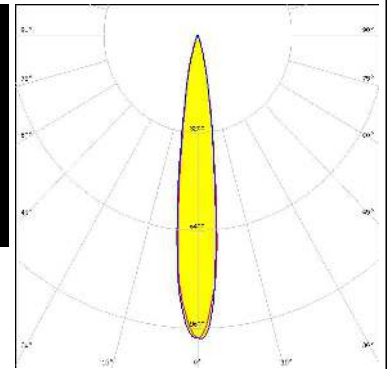
### SAMSUNG

LED LH508A  
 FWHM / FWTM 21.0° / 40.0°  
 Efficiency 86 %  
 Peak intensity 4.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



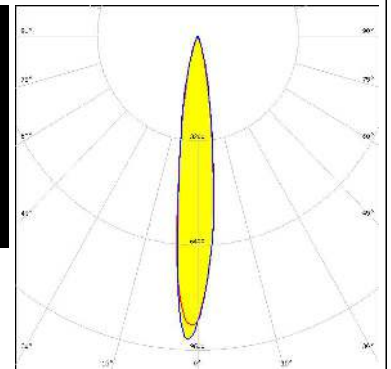
### SAMSUNG

LED LM302A  
 FWHM / FWTM 14.0° / 30.0°  
 Efficiency 89 %  
 Peak intensity 9.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



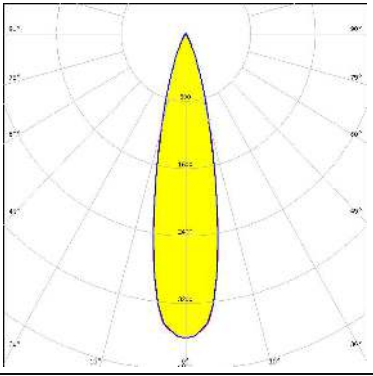


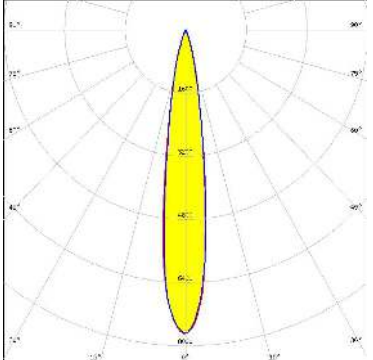


### SAMSUNG


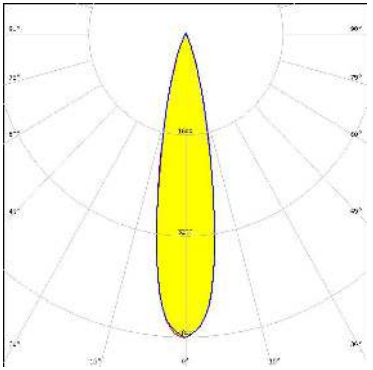

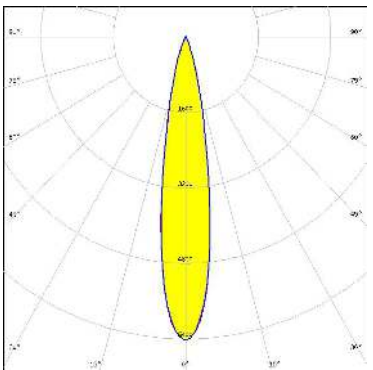

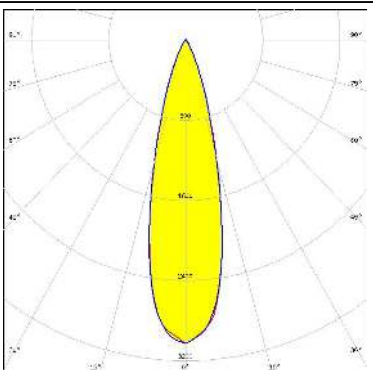

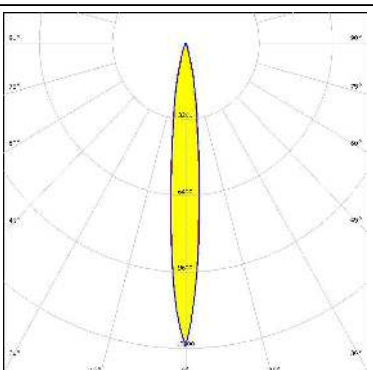
LED LM561B  
 FWHM / FWTM 14.0° / 31.0°  
 Efficiency 88 %  
 Peak intensity 9.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

<p> SEOUIL SEMICONDUCTOR</p> <p>LED WICOP 5050</p> <p>FWHM / FWTM 24.0° / 45.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 3.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> SEOUIL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 16.0° / 32.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 7.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

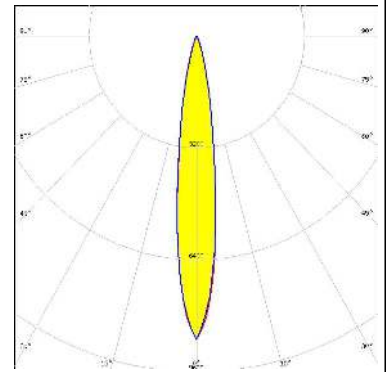
### OPTICAL RESULTS (SIMULATED):

	<p>LED XHP50.3 HD FWHM / FWTM 22.0° / 40.0° Efficiency 84 % Peak intensity 4.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XHP50.3 HI FWHM / FWTM 18.0° / 36.0° Efficiency 95 % Peak intensity 6.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XHP70.3 HD FWHM / FWTM 26.0 + 28.0° / 50.0° Efficiency 82 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XP-E2 FWHM / FWTM 11.0° / 28.0° Efficiency 91 % Peak intensity 12.7 cd/lm LEDs/each optic 1 Light colour Amber Required components:</p>	

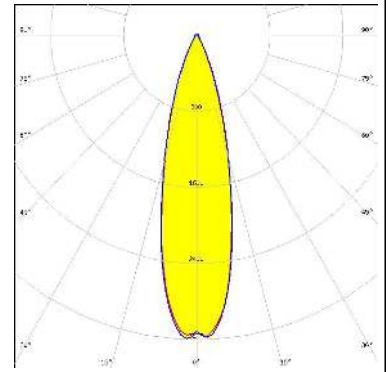
### OPTICAL RESULTS (SIMULATED):



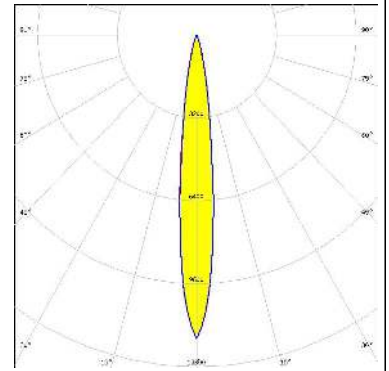
LED XP-G2 HE  
 FWHM / FWTM 15.0° / 32.0°  
 Efficiency 88 %  
 Peak intensity 8.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



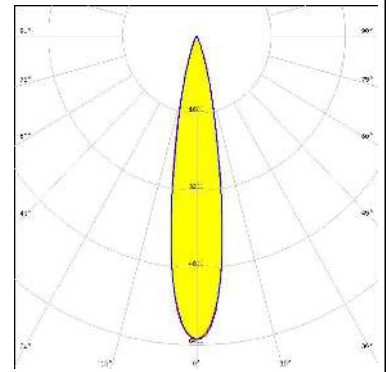
LED LUXEON 7070  
 FWHM / FWTM 26.0° / 51.0°  
 Efficiency 94 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



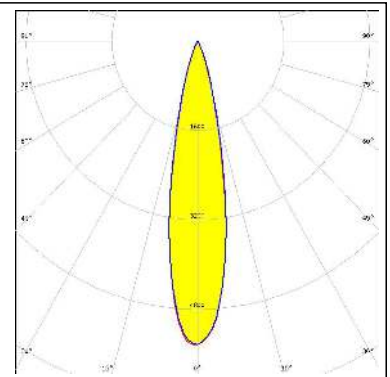
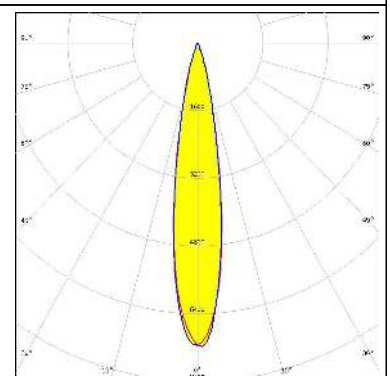
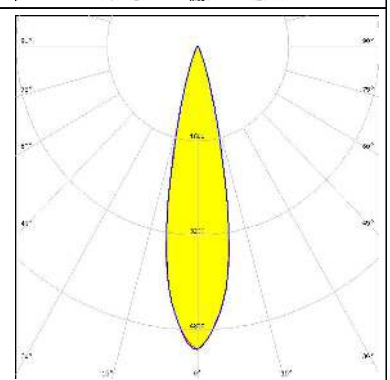
LED SST-20  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 91 %  
 Peak intensity 11.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED SST-70X-WCS  
 FWHM / FWTM 20.0° / 37.0 + 36.0°  
 Efficiency 89 %  
 Peak intensity 6.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED: NFMW48xA            FWHM / FWTM: 21.0° / 40.0°            Efficiency: 89 %            Peak intensity: 5.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NV4WB35AM            FWHM / FWTM: 18.0° / 34.0°            Efficiency: 89 %            Peak intensity: 7.2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED: LH151B            FWHM / FWTM: 22.0° / 38.0°            Efficiency: 88 %            Peak intensity: 5.1 cd/lm            LEDs/each optic: 4            Light colour: White            Required components:</p>	

### 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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