

## SEANNA-A

~2.3° spot beam. Assembly with holder.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 155.2 mm
Height	82 mm
Fastening	pin, screw
ROHS compliant	yes ⓘ

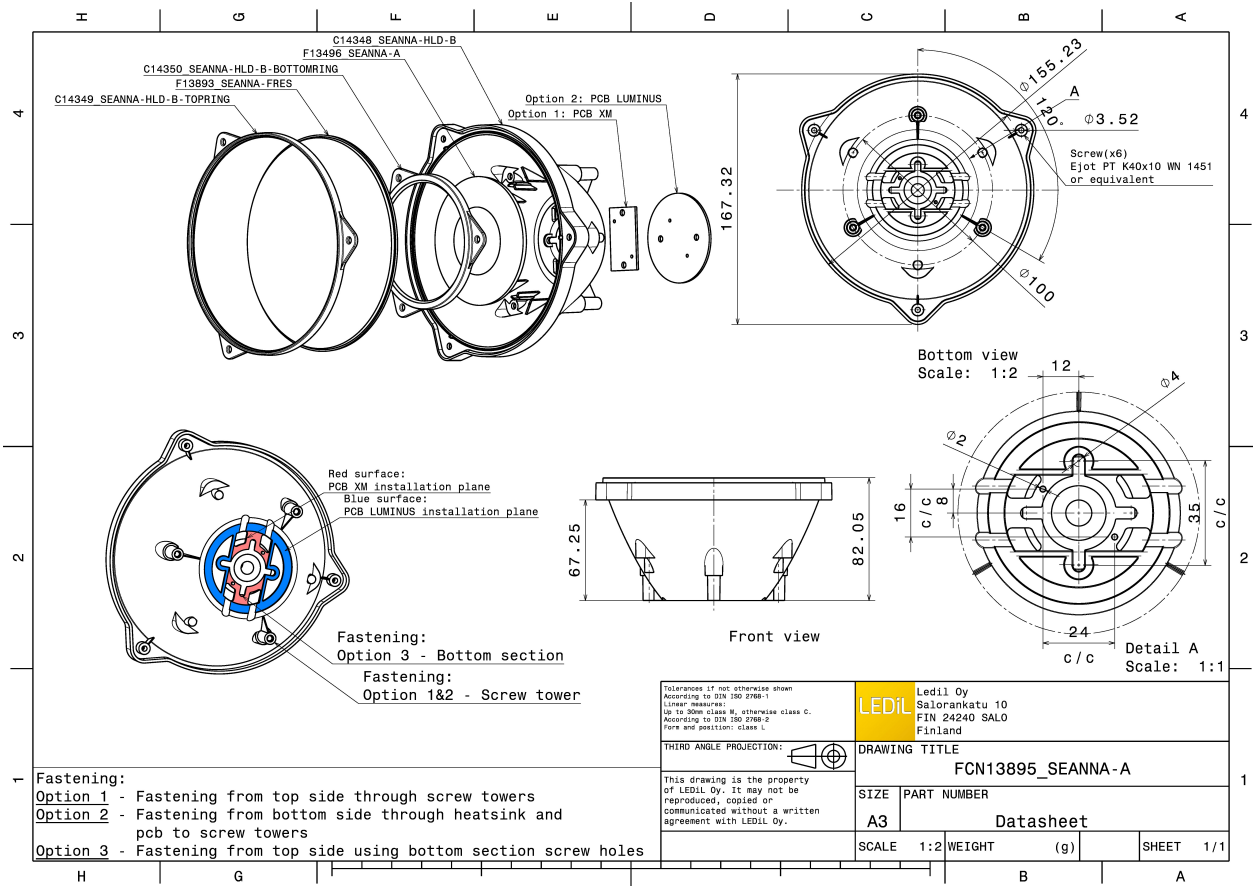
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
SEANNA-A	Single lens	PMMA	clear	
SEANNA-FRES	Single lens	PMMA	clear	
SEANNA-HLD-B	Holder	PA66GF30	black	
SEANNA-HLD-B-TOPRING	Holder	PA66GF30	black	
SEANNA-HLD-B-BOTTOMRING	Holder	PA66GF30	black	
SEANNA-SCREW	Accessory	Stainless steel	clear	




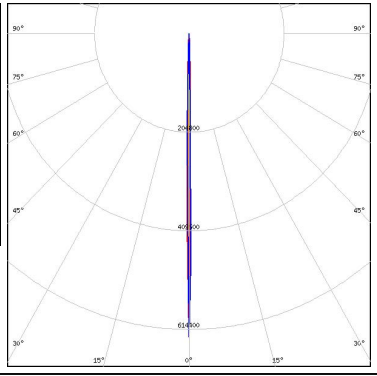

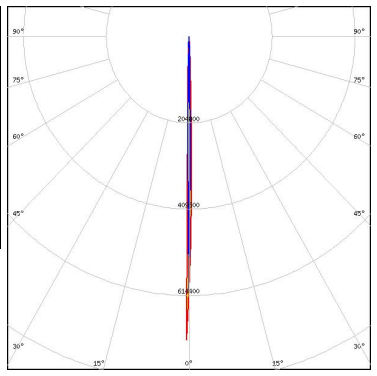

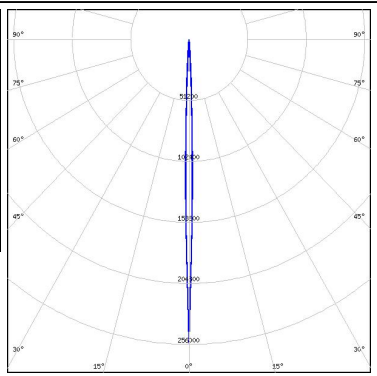
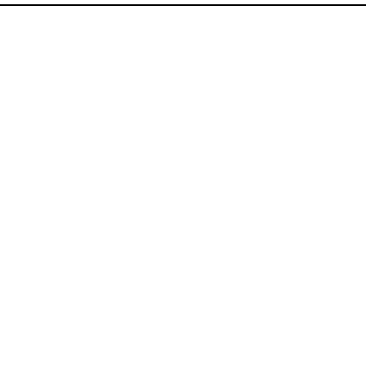
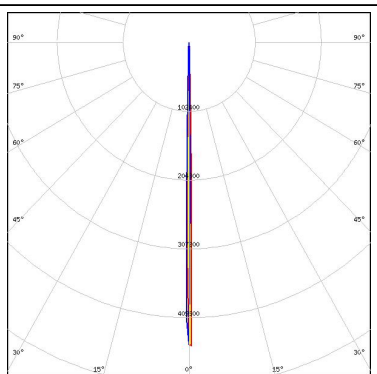
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FCP13895_SEANNA-A » Box size:		20	2	6.5

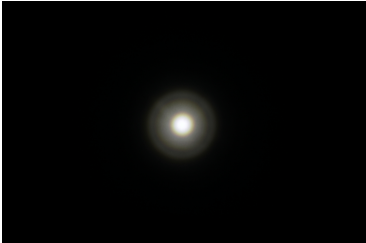
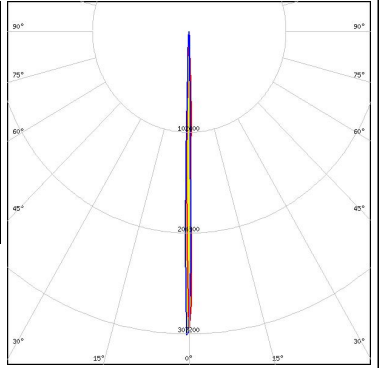
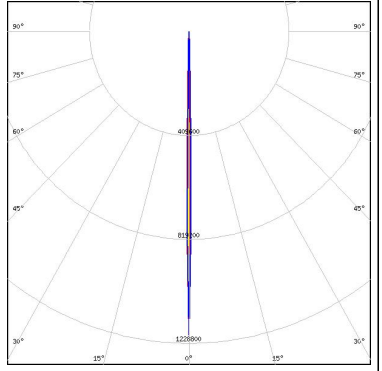
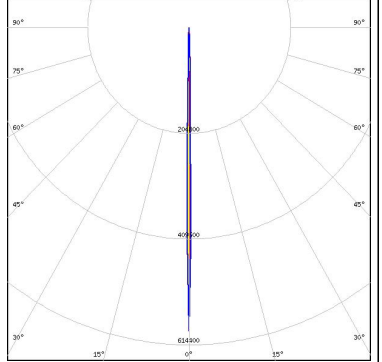


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED           XD16            FWHM / FWTM   1.0° / 3.0°            Efficiency       91 %            Peak intensity   629 cd/lm            LEDs/each optic   1            Light colour     White            Required components:</p>		
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED           XP-E2            FWHM / FWTM   1.0° / 3.0°            Efficiency       %            Peak intensity   718 cd/lm            LEDs/each optic   1            Light colour     White            Required components:</p>		
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED           XP-L HD            FWHM / FWTM   2.4° / 5.3°            Efficiency       94 %            Peak intensity   255 cd/lm            LEDs/each optic   1            Light colour     White            Required components:</p>		
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED           XP-L HI            FWHM / FWTM   1.6° / 3.2°            Efficiency       94 %            Peak intensity   492 cd/lm            LEDs/each optic   1            Light colour     White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSW3x9A            FWHM / FWTM 1.9° / 4.1°            Efficiency 92 %            Peak intensity 310 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSOLON Black Flat            FWHM / FWTM 1.2° / 2.3°            Efficiency 94 %            Peak intensity 1196 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSOLON Square CSSRM2/CSSRM3            FWHM / FWTM 1.5° / 3.3°            Efficiency 94 %            Peak intensity 587 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		


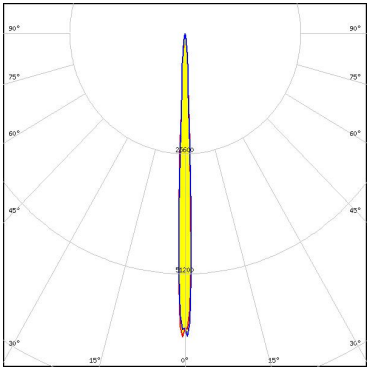

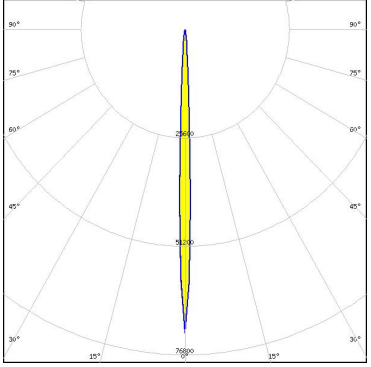

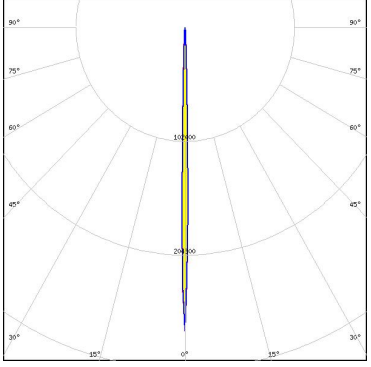

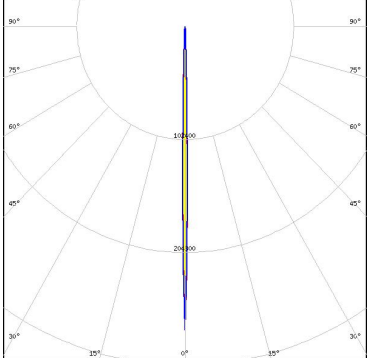
#### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED MK-R            FWHM / FWTM 4.0° / 10.4°            Efficiency 91 %            Peak intensity 82 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED XB-D            FWHM / FWTM 1.3° / 3.2°            Efficiency 87 %            Peak intensity 698 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED XHP35 HD            FWHM / FWTM 2.4° / 4.2°            Efficiency 89 %            Peak intensity 257 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED XHP35 HI            FWHM / FWTM 1.6° / 3.6°            Efficiency 83 %            Peak intensity 496 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED: XHP35.2            FWHM / FWTM: 2.0° / 6.0°            Efficiency: 89 %            Peak intensity: 161.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED: XHP35.2 HI            FWHM / FWTM: 2.0° / 4.0°            Efficiency: 89 %            Peak intensity: 161 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED: XHP50            FWHM / FWTM: 3.3° / 6.7°            Efficiency: 87 %            Peak intensity: 122 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED: XHP50.2            FWHM / FWTM: 2.7° / 6.8°            Efficiency: 84 %            Peak intensity: 128.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):


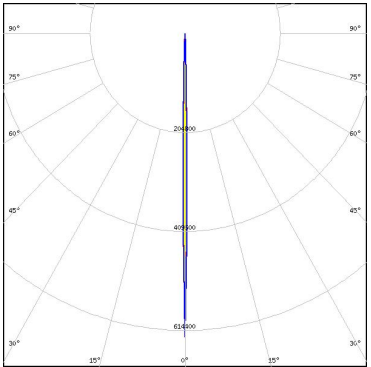

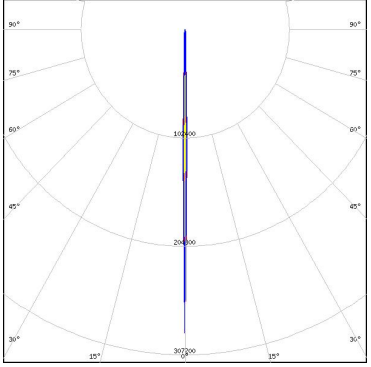

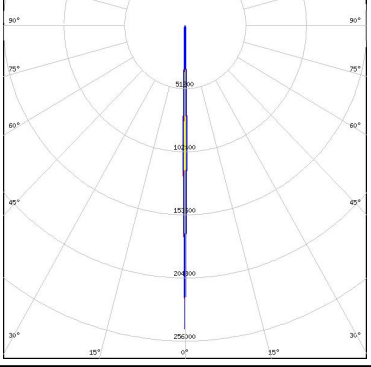

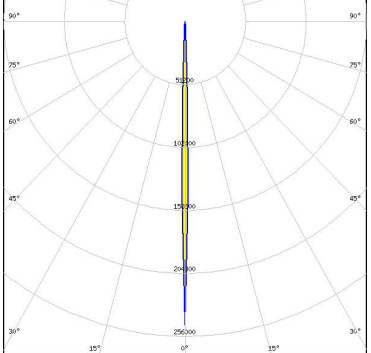
	<p>LED XHP70            FWHM / FWTM 4.3° / 10.4°            Efficiency 81 %            Peak intensity 69.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
	<p>LED XHP70.2            FWHM / FWTM 4.5° / 10.1°            Efficiency 83 %            Peak intensity 71.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
	<p>LED XM-L            FWHM / FWTM 2.4°            Efficiency %            Peak intensity 272 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
	<p>LED XM-L2            FWHM / FWTM 2.0° / 3.9°            Efficiency 85 %            Peak intensity 275 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE LED</b></p> <p>LED XM-L3            FWHM / FWTM 2.0° / 6.0°            Efficiency 90 %            Peak intensity 196.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XP-E            FWHM / FWTM 1.2° / 2.9°            Efficiency 92 %            Peak intensity 955 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XP-E2            FWHM / FWTM 2.0° / 6.0°            Efficiency 85 %            Peak intensity 211.5 cd/lm            LEDs/each optic 1            Light colour Blue            Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XP-G            FWHM / FWTM 1.4° / 3.4°            Efficiency 90 %            Peak intensity 578 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	



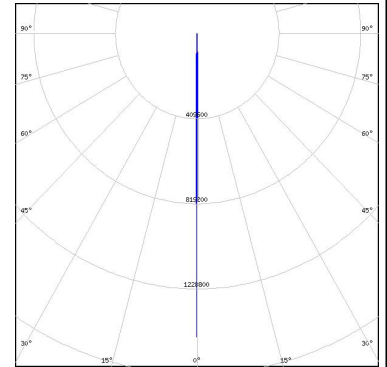
#### PHOTOMETRIC DATA (SIMULATED):

	<p>LED: XP-G2            FWHM / FWTM: 1.4° / 3.2°            Efficiency: 91 %            Peak intensity: 628 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
	<p>LED: XP-G2 HE            FWHM / FWTM: 2.0° / 4.0°            Efficiency: 89 %            Peak intensity: 286.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
	<p>LED: XP-G3            FWHM / FWTM: 2.0° / 4.0°            Efficiency: 88 %            Peak intensity: 246.2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
	<p>LED: XP-P            FWHM / FWTM: 2.0° / 6.0°            Efficiency: 84 %            Peak intensity: 246.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):



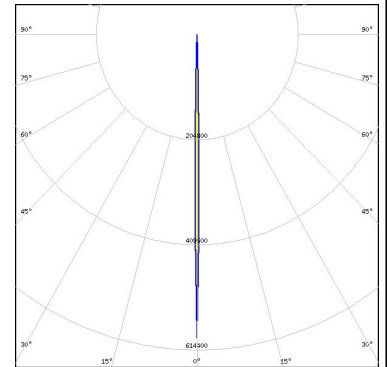
LED XQ-E HD  
 FWHM / FWTM 1.1° / 2.5°  
 Efficiency 92 %  
 Peak intensity 1460 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



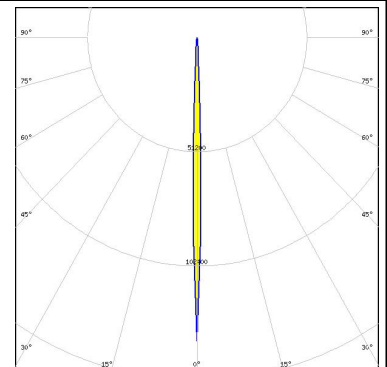
LED XQ-E HI  
 FWHM / FWTM 1.2° / 2.0°  
 Efficiency 90 %  
 Peak intensity 1300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XT-E  
 FWHM / FWTM 1.4° / 3.5°  
 Efficiency 88 %  
 Peak intensity 519 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LZ4 (00xW00)  
 FWHM / FWTM 3.3° / 8.2°  
 Efficiency 91 %  
 Peak intensity 136 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON CZ            FWHM / FWTM: 1.4° / 3.7°            Efficiency: 94 %            Peak intensity: 424 cd/lm            LEDs/each optic: 1            Light colour: Green            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON CZ            FWHM / FWTM: 1.3° / 3.4°            Efficiency: 94 %            Peak intensity: 564 cd/lm            LEDs/each optic: 1            Light colour: PC Amber            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON CZ            FWHM / FWTM: 1.6° / 3.8°            Efficiency: 93 %            Peak intensity: 371 cd/lm            LEDs/each optic: 1            Light colour: Blue            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON CZ            FWHM / FWTM: 1.2° / 3.3°            Efficiency: 94 %            Peak intensity: 564 cd/lm            LEDs/each optic: 1            Light colour: Red            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON CZ</p> <p>FWHM / FWTM: 1.7° / 3.9°</p> <p>Efficiency: 93 %</p> <p>Peak intensity: 346 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 HL2X</p> <p>FWHM / FWTM: 2.0° / 4.0°</p> <p>Efficiency: 89 %</p> <p>Peak intensity: 317.8 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: 3.6° / 9.0°</p> <p>Efficiency: 89 %</p> <p>Peak intensity: 99 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: 2.2° / 6.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 151 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

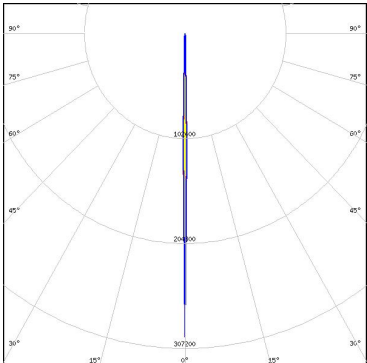
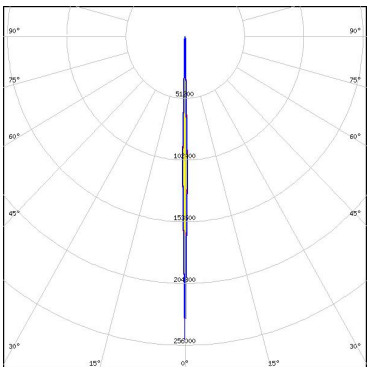
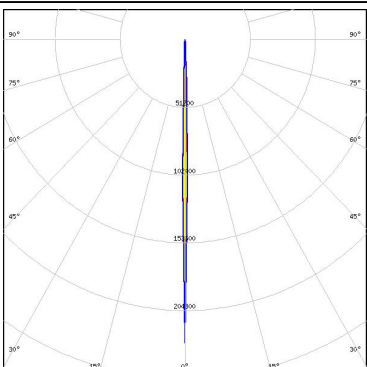
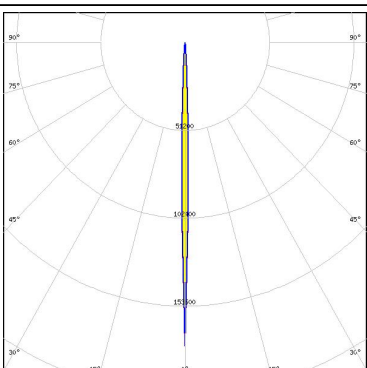
#### PHOTOMETRIC DATA (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON Rebel</p> <p>FWHM / FWTM: 1.3° / 3.2°</p> <p>Efficiency: 90 %</p> <p>Peak intensity: 704 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 Rebel ES</p> <p>FWHM / FWTM: 1.6° / 3.6°</p> <p>Efficiency: 90 %</p> <p>Peak intensity: 530 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 Rubix (white)</p> <p>FWHM / FWTM: 2.0° / 4.0°</p> <p>Efficiency: 88 %</p> <p>Peak intensity: 290.2 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 S1000</p> <p>FWHM / FWTM: 3.8° / 8.0°</p> <p>Efficiency: 88 %</p> <p>Peak intensity: 100 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

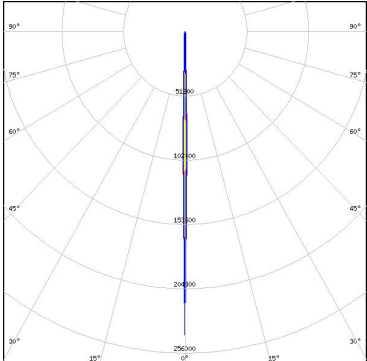
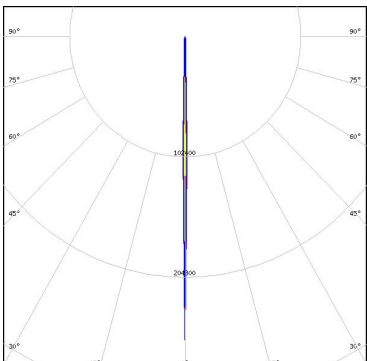
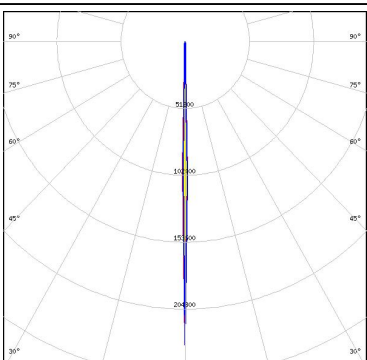
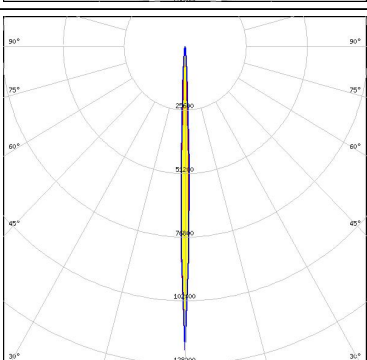
#### PHOTOMETRIC DATA (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON V2            FWHM / FWTM: 2.0° / 4.0°            Efficiency: 88 %            Peak intensity: 250.1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED: SBT-90            FWHM / FWTM: 2.0° / 6.0°            Efficiency: 76 %            Peak intensity: 175.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED: SBT-90            FWHM / FWTM: 2.3° / 4.8°            Efficiency: 90 %            Peak intensity: 253 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NV4WB35AM            FWHM / FWTM: 2.0° / 4.0°            Efficiency: 90 %            Peak intensity: 185.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED NVSW219F            FWHM / FWTM 2.0° / 4.0°            Efficiency 89 %            Peak intensity 296 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NVSW519A            FWHM / FWTM 2.0° / 4.0°            Efficiency 89 %            Peak intensity 251.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED KW CSLPM1.TG            FWHM / FWTM 2.0° / 4.0°            Efficiency 90 %            Peak intensity 229.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED KW CULPM1.TG            FWHM / FWTM 2.0° / 6.0°            Efficiency 92 %            Peak intensity 176.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED                      OSCONIQ C 2424</p> <p>FWHM / FWTM        2.0° / 4.0°</p> <p>Efficiency             90 %</p> <p>Peak intensity        241.6 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 P 3737 (2W version)</p> <p>FWHM / FWTM        2.0° / 4.0°</p> <p>Efficiency             89 %</p> <p>Peak intensity        258.2 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                      OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM        2.0° / 4.0°</p> <p>Efficiency             90 %</p> <p>Peak intensity        232.3 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 P 7070</p> <p>FWHM / FWTM        3.5° / 7.1°</p> <p>Efficiency             91 %</p> <p>Peak intensity        122.2 cd/lm</p> <p>LEDs/each optic     1</p> <p>Light colour         White</p> <p>Required components:</p>	

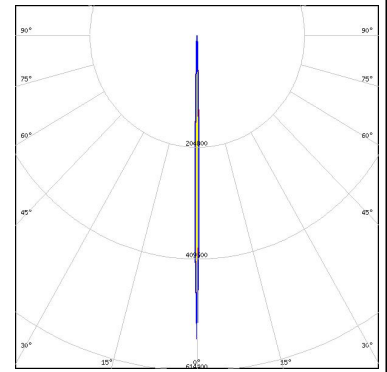


#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

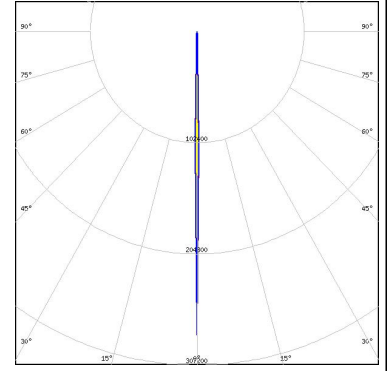
Opto Semiconductors

LED OSLON Square PC  
 FWHM / FWTM 1.5° / 3.6°  
 Efficiency 89 %  
 Peak intensity 550 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



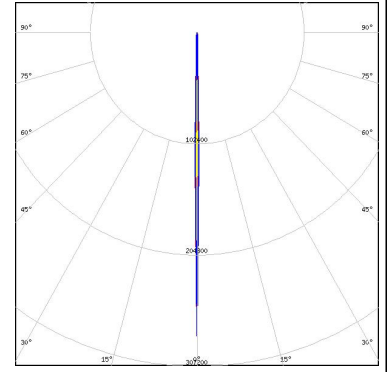
#### SAMSUNG

LED LH351B  
 FWHM / FWTM 2.0° / 4.0°  
 Efficiency 90 %  
 Peak intensity 279.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



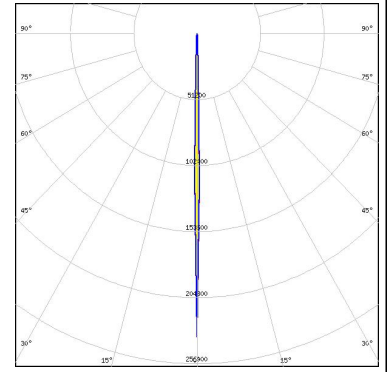
#### SAMSUNG

LED LH351C  
 FWHM / FWTM 2.0° / 4.0°  
 Efficiency 91 %  
 Peak intensity 279.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

LED LH351D  
 FWHM / FWTM 2.0° / 4.0°  
 Efficiency 91 %  
 Peak intensity 235.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):



### 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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[CA16435\\_LXP2-SS-WAS](#) [CN16210\\_GABRIELLA-MIDI-W](#) [CP17137\\_CARMEN-M2-C](#) [CA16015\\_STRADA-SQ-SCL](#) [CP17594\\_TINA-SC-](#)  
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