

SEANNA-A

~2.3° spot beam. Assembly with holder.

SPECIFICATION:

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

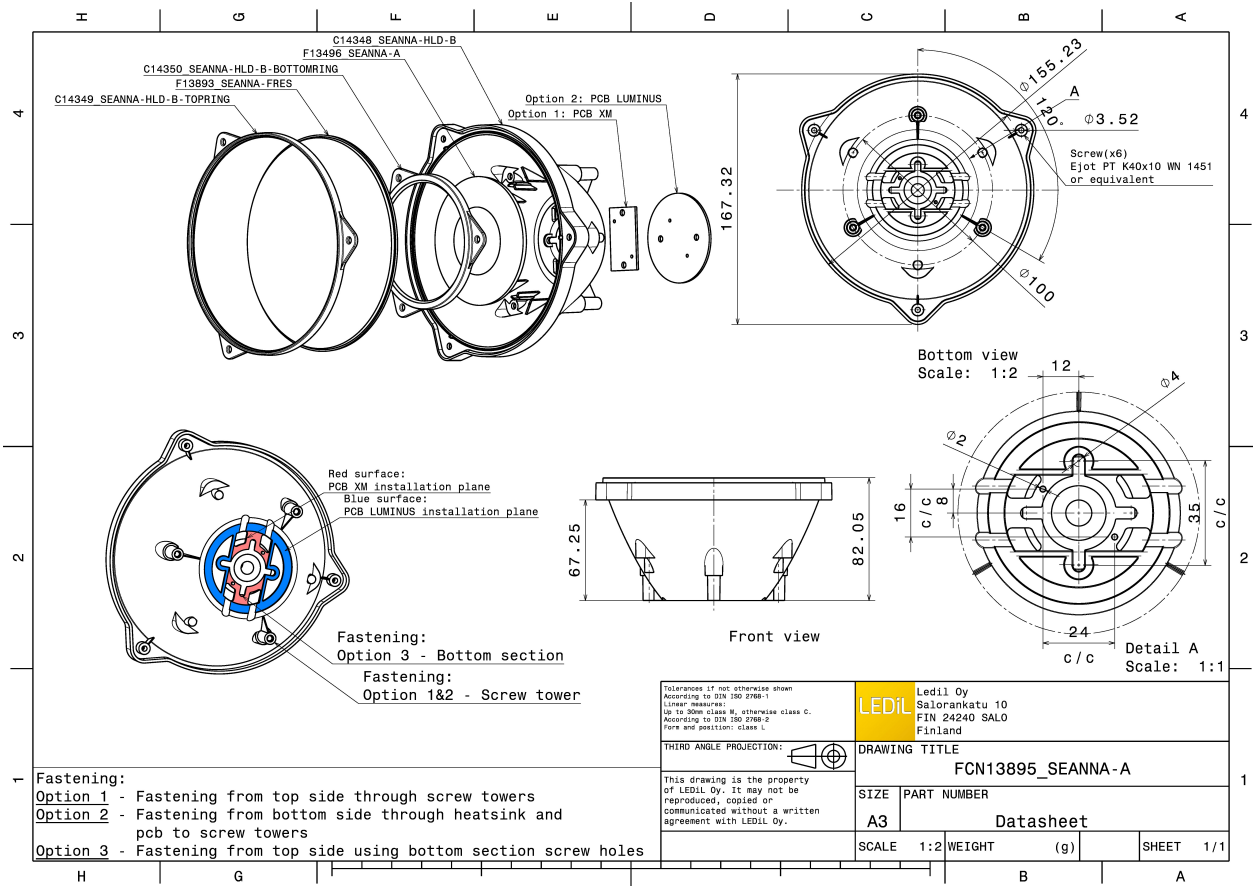
MATERIALS:

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


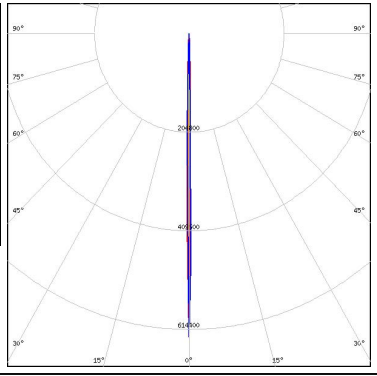

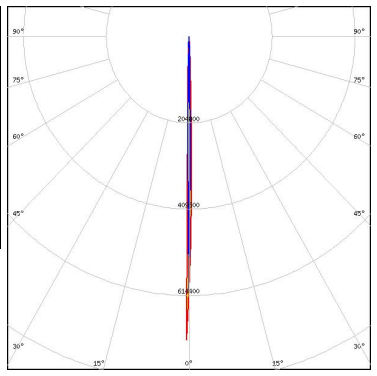

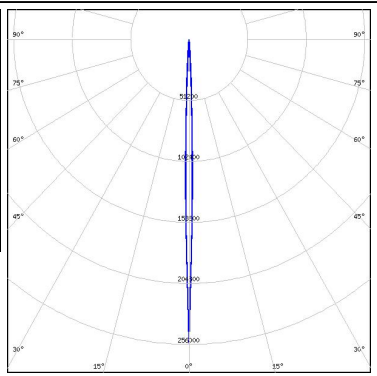
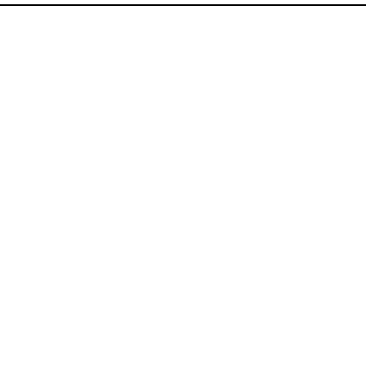
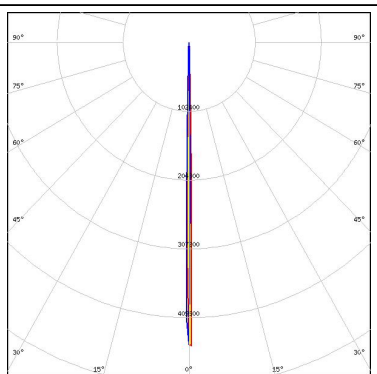


Fastening:
Option 1 - Fastening from top side through screw towers
Option 2 - Fastening from bottom side through heatsink and pcb to screw towers
Option 3 - Fastening from top side using bottom section screw holes

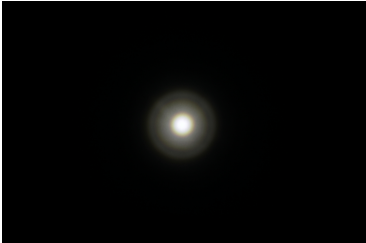
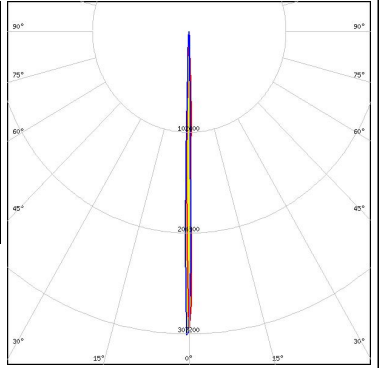
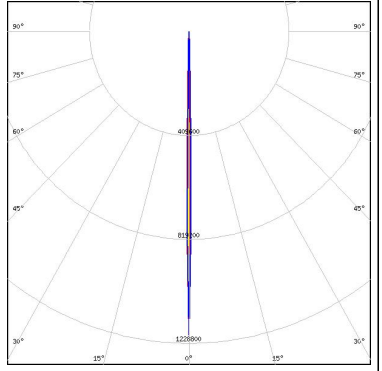
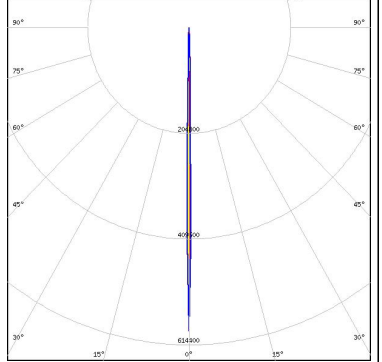
Tolerances if not otherwise shown According to DIN 150 2785-1 Linear measures: Up to 20mm class M, otherwise class C. According to DIN 150 2785-2 Form and position: class I.		LEDiL Ledil Oy Salorankatu 10 FIN 24240 SALO Finland	
THIRD ANGLE PROJECTION:		DRAWING TITLE FCN13895_SEANNA-A	
SIZE	PART NUMBER		
A3	Datasheet		
SCALE	1:2	WEIGHT (g)	SHEET 1/1

See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

<p>CREE → LED</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>CREE → LED</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>CREE → LED</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>CREE → LED</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>		


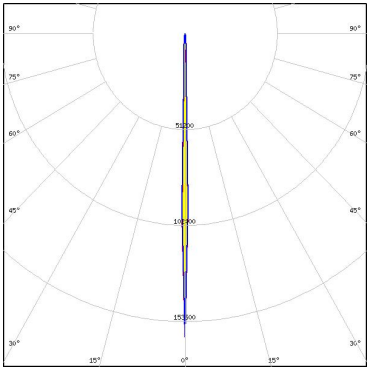

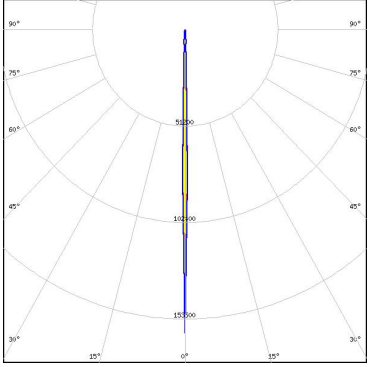

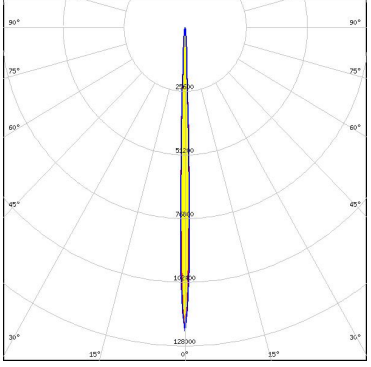

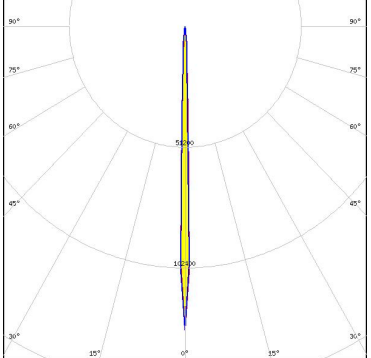
OPTICAL RESULTS (MEASURED):

<p>NICHIA</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>OSRAM Opto Semiconductors</p> <p>LED OSLON 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>OSRAM Opto Semiconductors</p> <p>LED OSLON 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>		

OPTICAL RESULTS (SIMULATED):

<p>CREE → 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>CREE → 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>CREE → 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>CREE → 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>	

OPTICAL RESULTS (SIMULATED):

	<p>LED: XHP35.2 HD 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>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>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>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>	

OPTICAL RESULTS (SIMULATED):

<p>CREE LED</p> <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>CREE LED</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>CREE LED</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>CREE LED</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>	

OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</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>CREE → LED</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>CREE → LED</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>CREE → LED</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>	

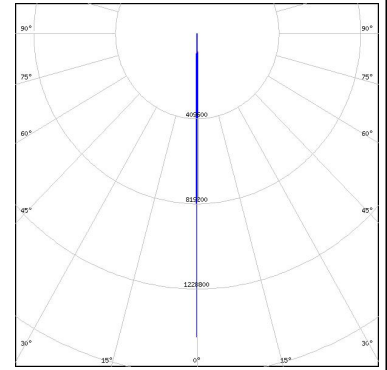
OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <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>CREE → LED</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>CREE → LED</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>CREE → LED</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>	

OPTICAL RESULTS (SIMULATED):



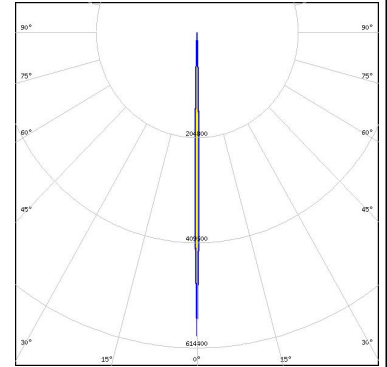
LED XQ-E HD
 FWHM / FWTM 1.1° / 2.5°
 Efficiency 92 %
 Peak intensity 1460 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



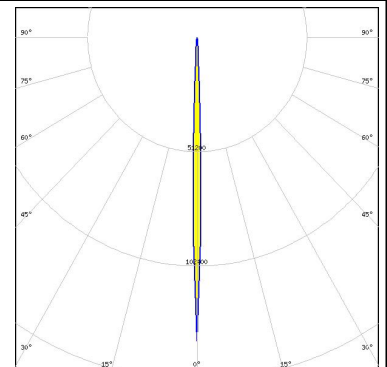
LED XQ-E HI
 FWHM / FWTM 1.2° / 2.0°
 Efficiency 90 %
 Peak intensity 1300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



OPTICAL RESULTS (SIMULATED):

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

OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED: LUXEON CZ</p> <p>FWHM / FWTM: 1.4° / 3.7°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 424 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Green</p> <p>Required components:</p>	
<p>LUMILEDS</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>LUMILEDS</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>LUMILEDS</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>	

OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</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>LUMILEDS</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>LUMILEDS</p> <p>LED: LUXEON Rubix</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>LUMILEDS</p> <p>LED: LUXEON Rubix</p> <p>FWHM / FWTM: 2.0° / 6.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 196.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Red</p> <p>Required components:</p>	

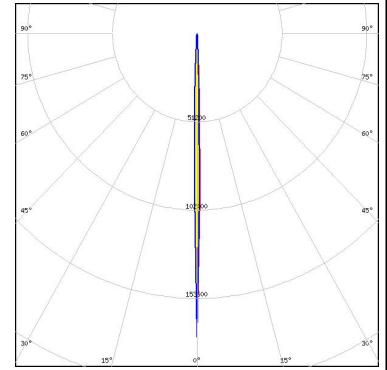
OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED: LUXEON Rubix</p> <p>FWHM / FWTM: 2.0° / 6.0°</p> <p>Efficiency: 83 %</p> <p>Peak intensity: 157.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Green</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON Rubix</p> <p>FWHM / FWTM: 2.0° / 6.0°</p> <p>Efficiency: 83 %</p> <p>Peak intensity: 141.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Blue</p> <p>Required components:</p>	
<p>LUMILEDS</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>	
<p>LUMILEDS</p> <p>LED: LUXEON V2</p> <p>FWHM / FWTM: 2.0° / 4.0°</p> <p>Efficiency: 88 %</p> <p>Peak intensity: 250.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

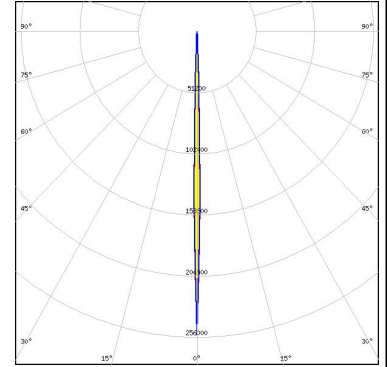
OPTICAL RESULTS (SIMULATED):



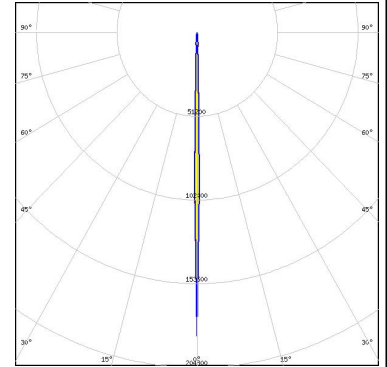
LED SBT-90
 FWHM / FWTM 2.0° / 6.0°
 Efficiency 76 %
 Peak intensity 175.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



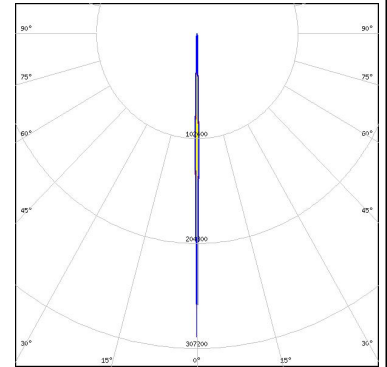
LED SBT-90
 FWHM / FWTM 2.3° / 4.8°
 Efficiency 90 %
 Peak intensity 253 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



LED NVSW219F
 FWHM / FWTM 2.0° / 4.0°
 Efficiency 89 %
 Peak intensity 296 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>NICHIA</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>NICHIA</p> <p>LED: NVSW719AC FWHM / FWTM: 2.0° / 6.0° Efficiency: 85 % Peak intensity: 207.3 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <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>OSRAM <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>	

OPTICAL RESULTS (SIMULATED):

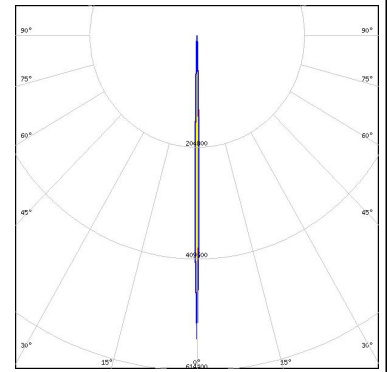
<p>OSRAM Opto Semiconductors</p> <p>LED: OSCONIQ C 2424</p> <p>FWHM / FWTM: 2.0° / 4.0°</p> <p>Efficiency: 90 %</p> <p>Peak intensity: 241.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSCONIQ P 3737 (2W version)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

OPTICAL RESULTS (SIMULATED):

OSRAM

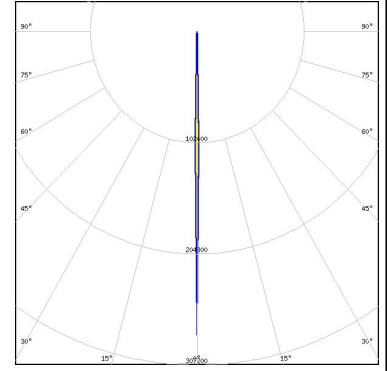
Opto Semiconductors

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:



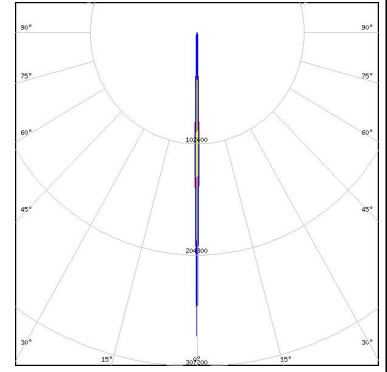
SAMSUNG

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:



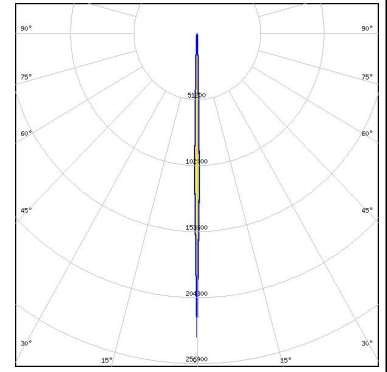
SAMSUNG

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:


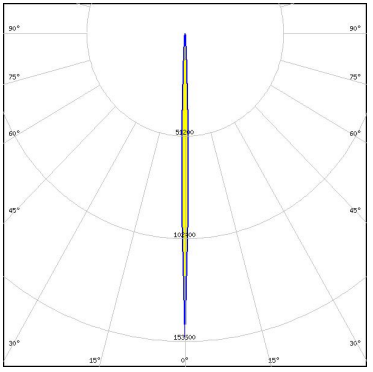

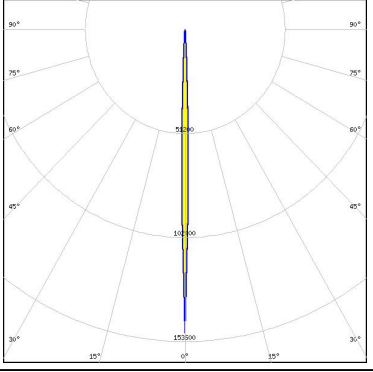

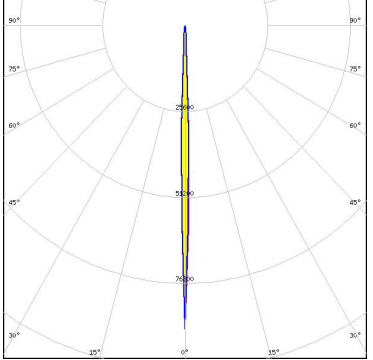


SAMSUNG

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:



OPTICAL RESULTS (SIMULATED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z5M3 FWHM / FWTM: 1.4° / 3.3° Efficiency: 94 % Peak intensity: 151.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z5M4 FWHM / FWTM: 1.7° / 3.5° Efficiency: 96 % Peak intensity: 149.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z8Y50P FWHM / FWTM: 3.0° / 7.0° Efficiency: 79 % Peak intensity: 90.4 cd/lm LEDs/each optic: 1 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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