

SPORT-2X2-S1

~10° spot beam.

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	16 mm
Fastening	screw
ROHS compliant	yes ⓘ

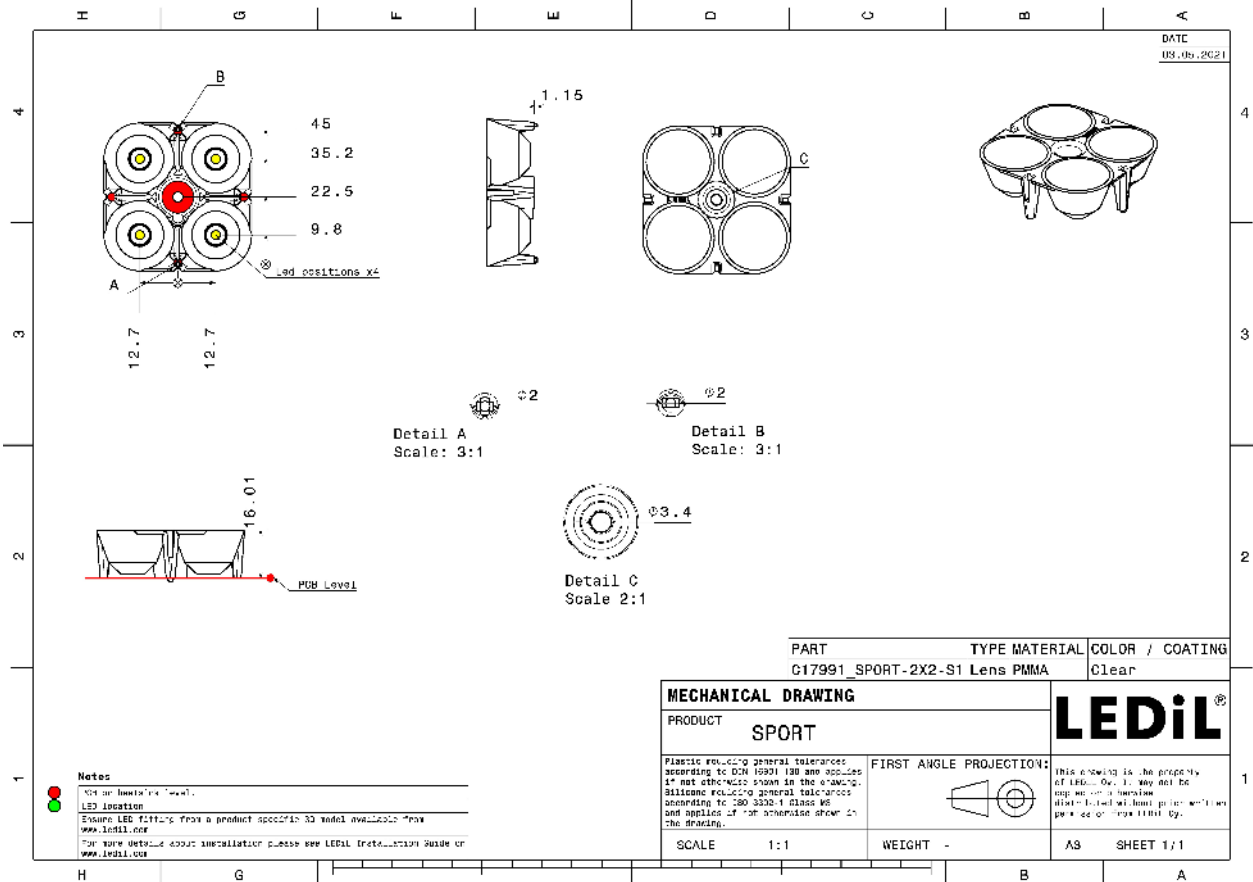
MATERIALS:

Component	Type	Material	Colour	Finish
SPORT-2X2-S1	Multi-lens	PMMA	clear	




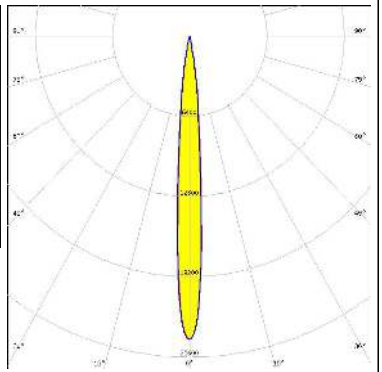

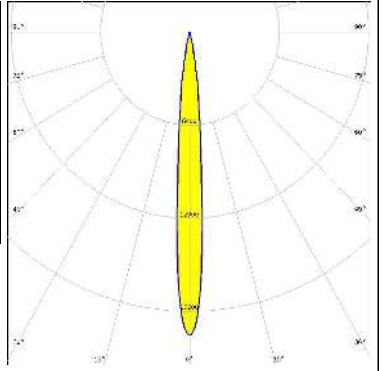

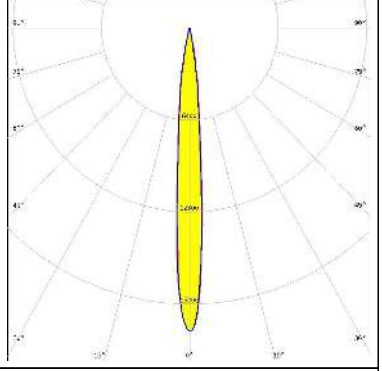

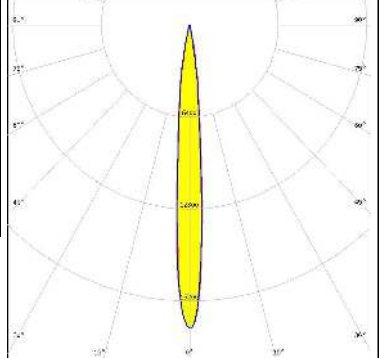
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17991_SPORT-2X2-S1 » Box size: 480 x 280 x 300 mm	512	128	32	10.8

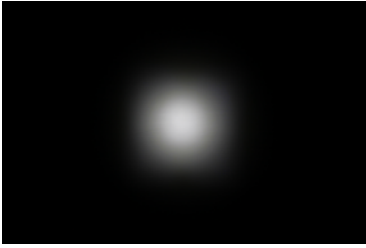
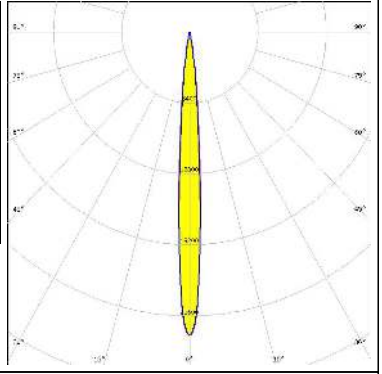

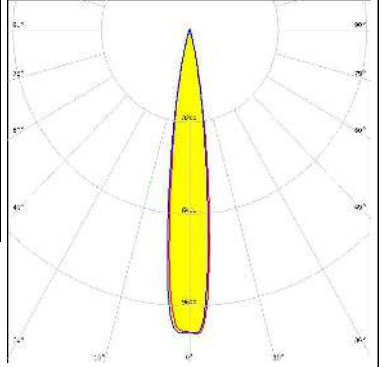


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

<p>CREE LED</p> <p>LED: XP-G4 FWHM / FWTM: 9.0° / 20.0° Efficiency: 96 % Peak intensity: 24.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON HL2X FWHM / FWTM: 10.0° / 21.0° Efficiency: 94 % Peak intensity: 20.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> <p>Protective plate, glass</p>		
<p>LUMILEDS</p> <p>LED: LUXEON HL2X FWHM / FWTM: 10.0° / 21.0° Efficiency: 97 % Peak intensity: 21.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON HL2X FWHM / FWTM: 10.0° / 21.0° Efficiency: 97 % Peak intensity: 21.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		

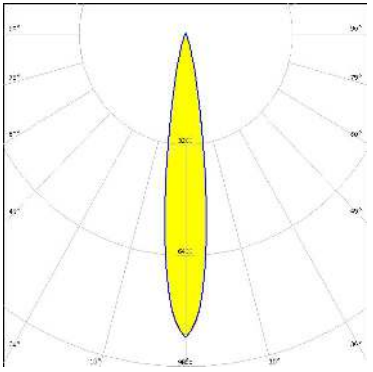
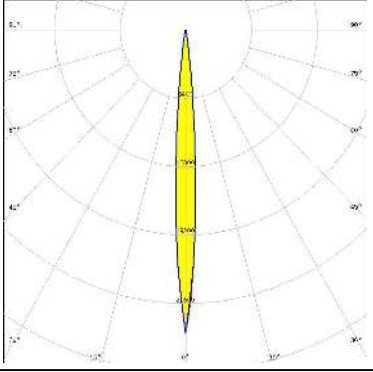
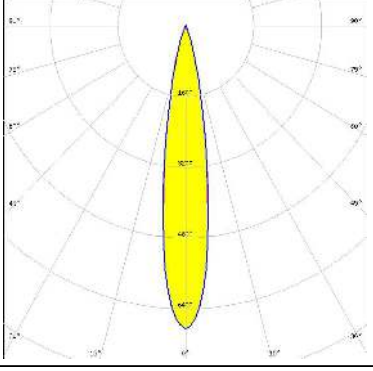
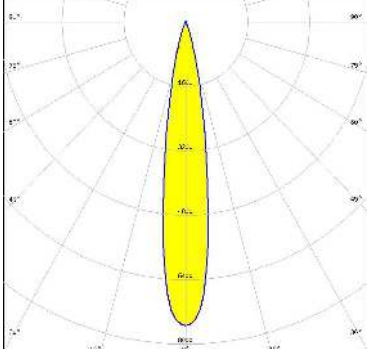
OPTICAL RESULTS (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 9.0° / 18.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 27.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>TEPCOMP group</p> <p>LED PassivePAQ-R-274x51-NI0-21K-857-5</p> <p>FWHM / FWTM 15.0° / 27.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 10.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

OPTICAL RESULTS (SIMULATED):

<p>CREE LED</p> <p>LED J Series 5050 Round LES</p> <p>FWHM / FWTM 16.0° / 32.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 7.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>CREE LED</p> <p>LED J Series 5050 Round LES</p> <p>FWHM / FWTM 16.0° / 32.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 8.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>CREE LED</p> <p>LED J Series 5050B 6V K Class</p> <p>FWHM / FWTM 16.0° / 34.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 7.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>CREE LED</p> <p>LED J Series 5050B 6V K Class</p> <p>FWHM / FWTM 18.0° / 34.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 6.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	

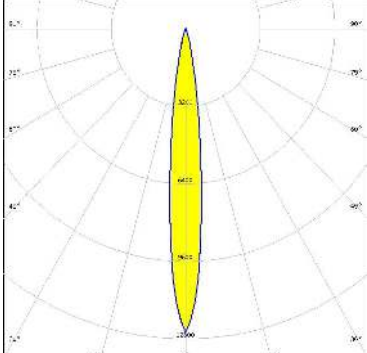
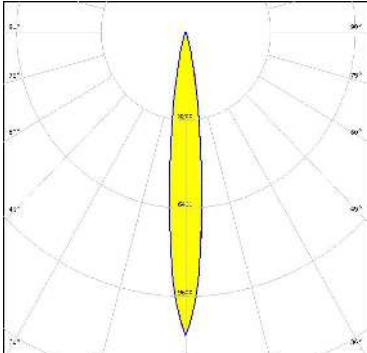
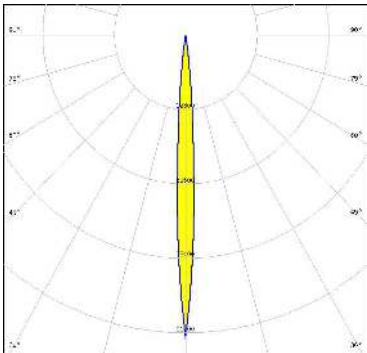
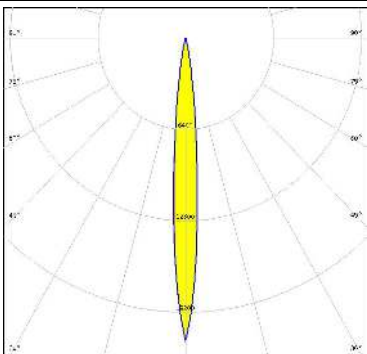
OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <p>LED J Series 5050C 6V E Class FWHM / FWTM 16.0° / 32.0° Efficiency 96 % Peak intensity 8.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE → LED</p> <p>LED XD16 FWHM / FWTM 8.0° / 16.0° Efficiency 87 % Peak intensity 28.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	
<p>CREE → LED</p> <p>LED XHP35.2 HD FWHM / FWTM 18.0° / 34.0° Efficiency 86 % Peak intensity 6.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	
<p>CREE → LED</p> <p>LED XHP35.2 HD FWHM / FWTM 16.0° / 34.0° Efficiency 95 % Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	


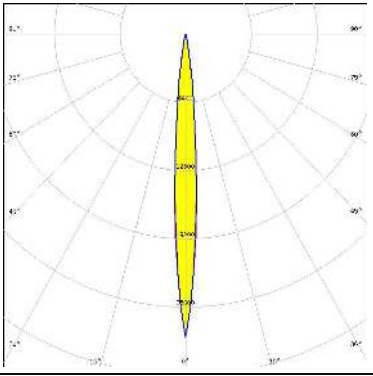

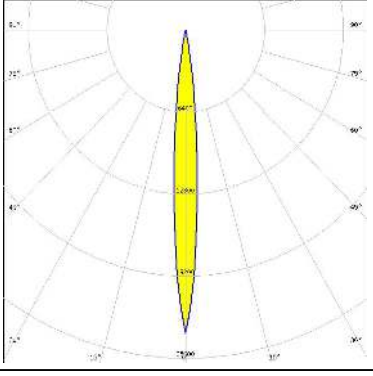

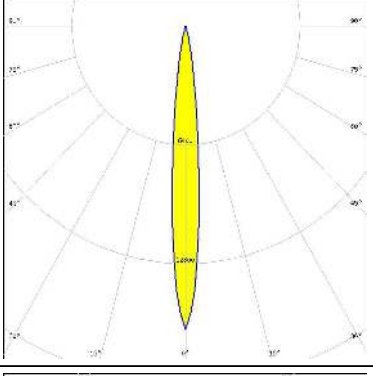

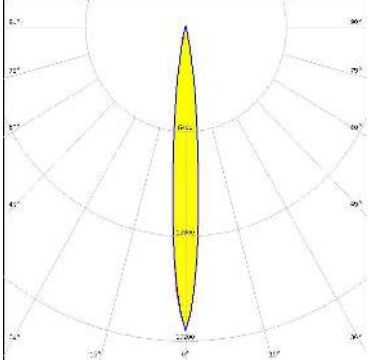
OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <p>LED: XHP35.2 HI FWHM / FWTM: 14.0° / 26.0° Efficiency: 95 % Peak intensity: 11.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE → LED</p> <p>LED: XHP35.2 HI FWHM / FWTM: 14.0° / 28.0° Efficiency: 87 % Peak intensity: 10.6 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> <p>Protective plate, glass</p>	
<p>CREE → LED</p> <p>LED: XHP50.3 HI FWHM / FWTM: 14.0° / 28.0° Efficiency: 87 % Peak intensity: 9.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> <p>Protective plate, glass</p>	
<p>CREE → LED</p> <p>LED: XHP50.3 HI FWHM / FWTM: 14.0° / 28.0° Efficiency: 95 % Peak intensity: 10.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	


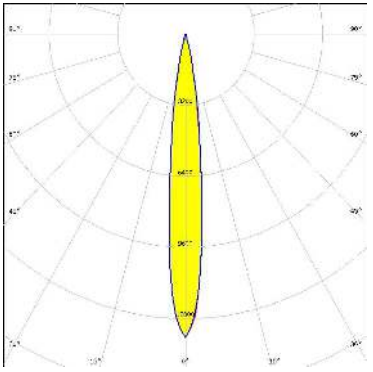

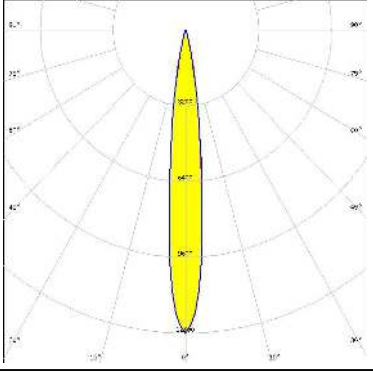

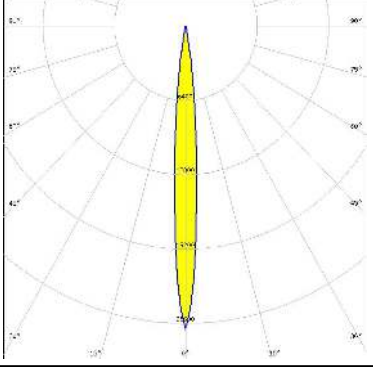

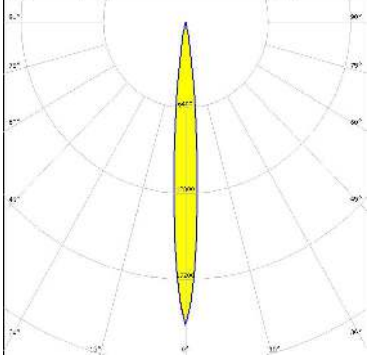
OPTICAL RESULTS (SIMULATED):

<p>CREE ⇄ LED</p> <p>LED XM-L3 FWHM / FWTM 12.0° / 26.0° Efficiency 95 % Peak intensity 12.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED XM-L3 FWHM / FWTM 12.0° / 28.0° Efficiency 87 % Peak intensity 11 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	
<p>CREE ⇄ LED</p> <p>LED XP-E FWHM / FWTM 6.0° / 14.0° Efficiency 95 % Peak intensity 52.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED XP-G2 FWHM / FWTM 10.0° / 20.0° Efficiency 90 % Peak intensity 21.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	

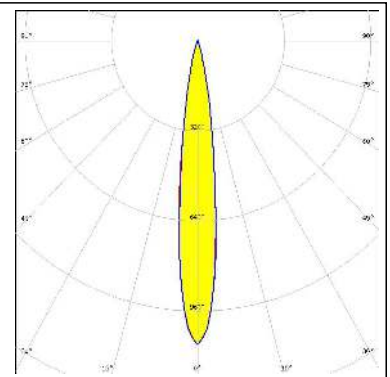
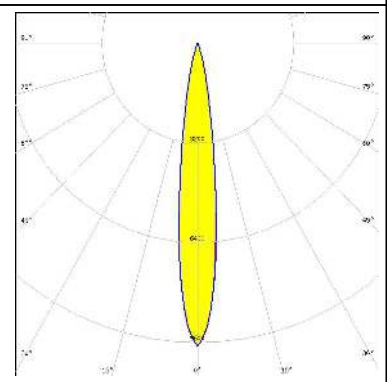
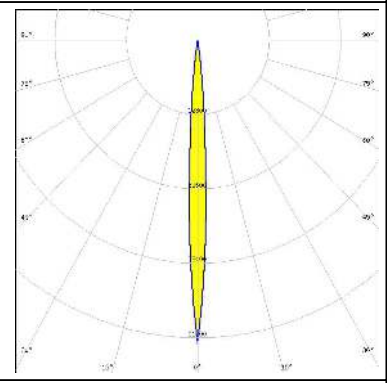
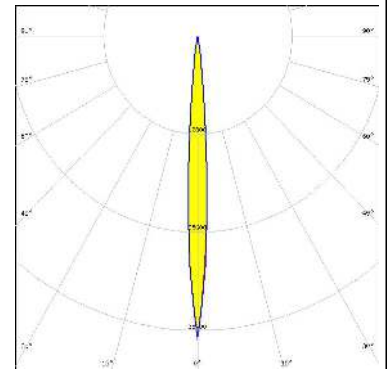
OPTICAL RESULTS (SIMULATED):

	<p>LED XP-G2 HE FWHM / FWTM 8.0° / 18.0° Efficiency 95 % Peak intensity 28.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XP-G2 HE FWHM / FWTM 10.0° / 20.0° Efficiency 91 % Peak intensity 23.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XP-G3 FWHM / FWTM 10.0° / 22.0° Efficiency 86 % Peak intensity 16.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XP-G3 FWHM / FWTM 10.0° / 22.0° Efficiency 95 % Peak intensity 18.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

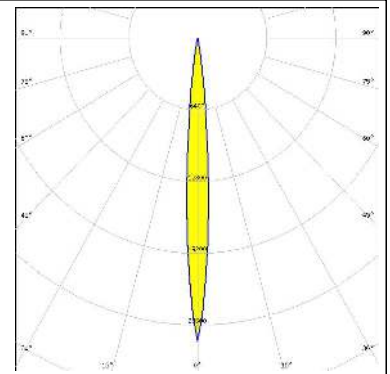
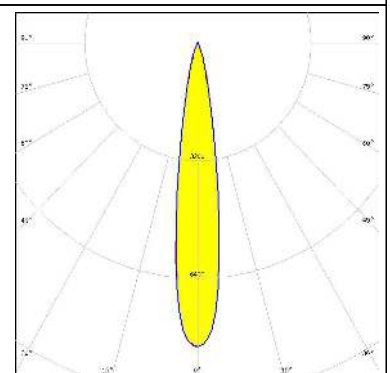
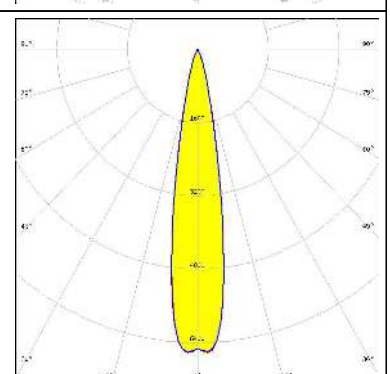
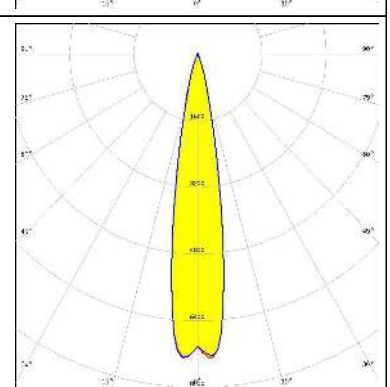
OPTICAL RESULTS (SIMULATED):

	<p>LED: XP-L HD FWHM / FWTM: 12.0° / 26.0° Efficiency: 95 % Peak intensity: 13.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XP-L HD FWHM / FWTM: 12.0° / 26.0° Efficiency: 90 % Peak intensity: 12.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> <p style="background-color: #ADD8E6; padding: 2px;">Protective plate, glass</p>	
	<p>LED: XP-L HI FWHM / FWTM: 8.0° / 18.0° Efficiency: 96 % Peak intensity: 26.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XP-L HI FWHM / FWTM: 10.0° / 20.0° Efficiency: 87 % Peak intensity: 22.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> <p style="background-color: #ADD8E6; padding: 2px;">Protective plate, glass</p>	

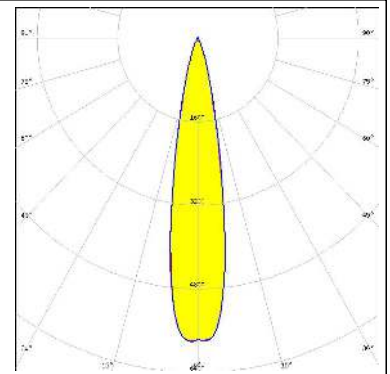
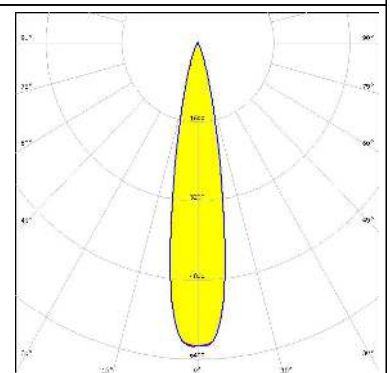
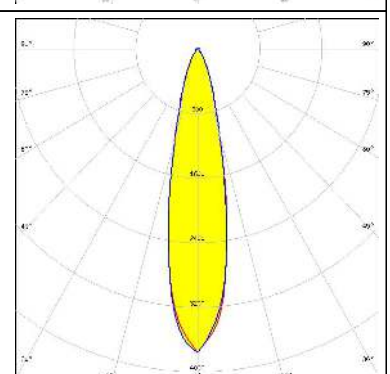
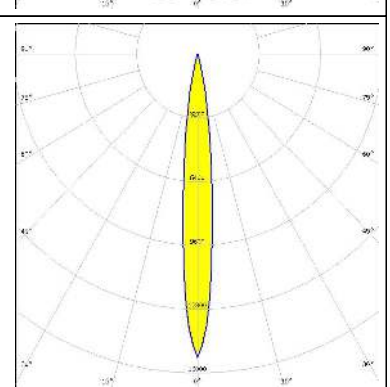
OPTICAL RESULTS (SIMULATED):

<p>CREE ⇄ LED</p> <p>LED: XP-L2 FWHM / FWTM: 14.0° / 28.0° Efficiency: 95 % Peak intensity: 10.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XP-L2 FWHM / FWTM: 14.0° / 28.0° Efficiency: 86 % Peak intensity: 9.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> <p>Protective plate, glass</p>	
<p>CREE ⇄ LED</p> <p>LED: XP-P FWHM / FWTM: 6.0° / 14.0° Efficiency: 95 % Peak intensity: 52.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XP-P FWHM / FWTM: 8.0° / 14.0° Efficiency: 86 % Peak intensity: 39.6 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> <p>Protective plate, glass</p>	

OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON 3030 2D (Round LES)</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 27.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>LUMILEDS</p> <p>LED LUXEON 5050 HE</p> <p>FWHM / FWTM 16.0° / 32.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 8.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON 5050 Round LES</p> <p>FWHM / FWTM 18.0° / 34.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 6.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>LUMILEDS</p> <p>LED LUXEON 5050 Round LES</p> <p>FWHM / FWTM 18.0° / 34.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 7.3 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 5050 Square LES</p> <p>FWHM / FWTM 20.0° / 36.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 5.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>LUMILEDS</p> <p>LED LUXEON 5050 Square LES</p> <p>FWHM / FWTM 20.0° / 36.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 6.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON 7070</p> <p>FWHM / FWTM 22.0° / 48.0°</p> <p>Efficiency 93 %</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>LUMILEDS</p> <p>LED LUXEON HL2X-D</p> <p>FWHM / FWTM 12.0° / 26.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 15.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

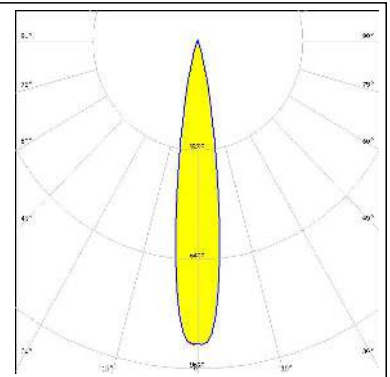
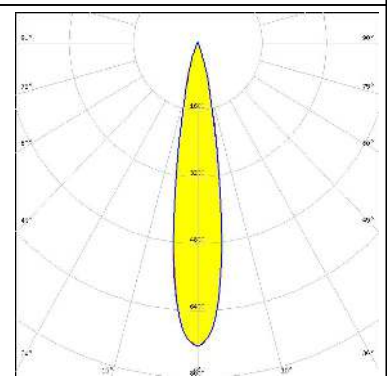
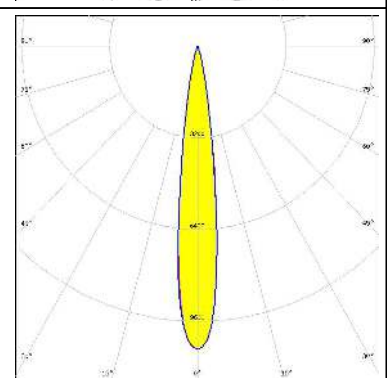
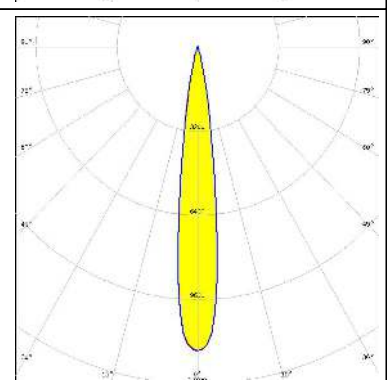
OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON HL2X-D</p> <p>FWHM / FWTM 12.0° / 26.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 13.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>LUMILEDS</p> <p>LED LUXEON HL2X-P</p> <p>FWHM / FWTM 12.0° / 26.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 15.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON HL2Z</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 27.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 16.3 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 XR-HL2X (L2H2-xxxxxxxMLU010)</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 14.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>LUMINUS</p> <p>LED SFT-40-WCS</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 30.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMINUS</p> <p>LED SFT-70X-WCS</p> <p>FWHM / FWTM 10.0° / 22.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 18.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMINUS</p> <p>LED SST-70X-WCS</p> <p>FWHM / FWTM 16.0° / 30.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 8.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	

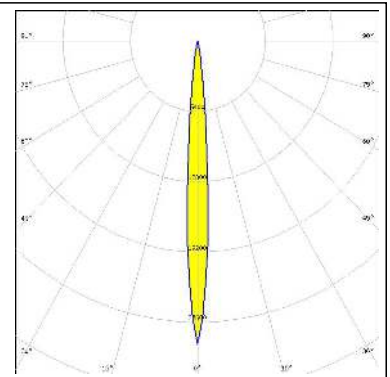
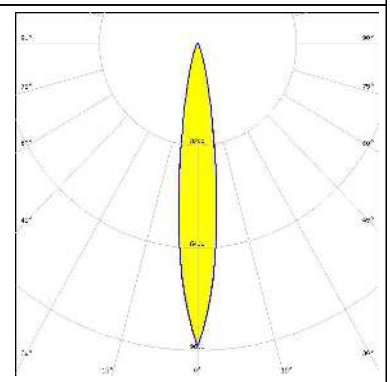
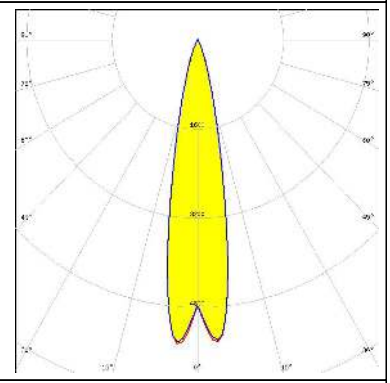
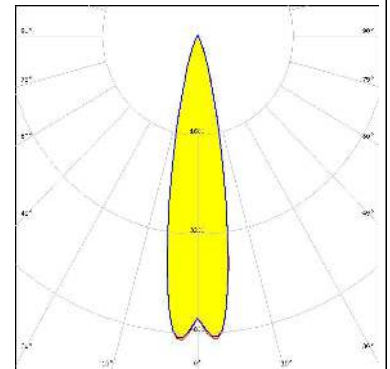
OPTICAL RESULTS (SIMULATED):

<p>LUMINUS</p> <p>LED SST-70X-WCS FWHM / FWTM 16.0° / 30.0° Efficiency 96 % Peak intensity 8.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NFMW48xA FWHM / FWTM 18.0° / 34.0° Efficiency 95 % Peak intensity 7.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NV4WB35AM FWHM / FWTM 14.0° / 26.0° Efficiency 87 % Peak intensity 10.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p style="background-color: #ADD8E6; padding: 2px;">Protective plate, glass</p>	
<p>NICHIA</p> <p>LED NV4WB35AM FWHM / FWTM 14.0° / 26.0° Efficiency 96 % Peak intensity 11.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 10.0° / 22.0° Efficiency 90 % Peak intensity 17.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 10.0° / 22.0° Efficiency 95 % Peak intensity 19.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 10.0° / 22.0° Efficiency 95 % Peak intensity 20.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSW519A FWHM / FWTM 12.0° / 27.0° Efficiency 94 % Peak intensity 13.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

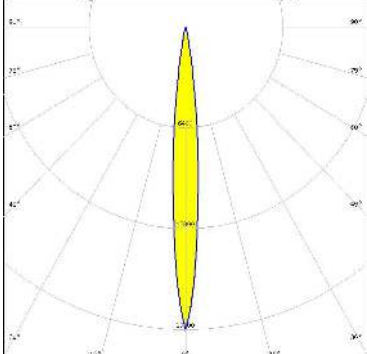
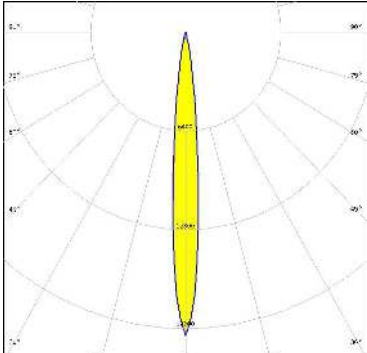
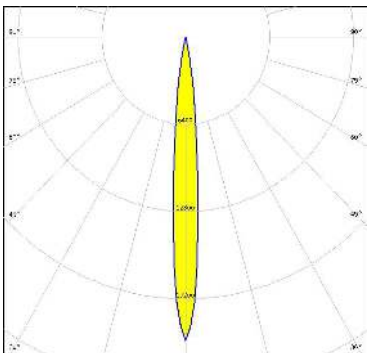
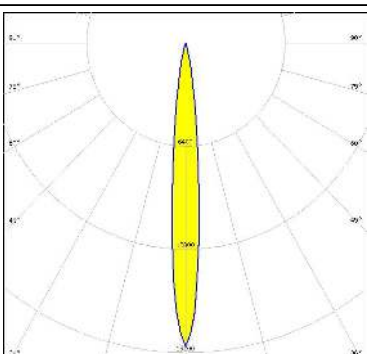
OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NVSxE21A FWHM / FWTM 8.0° / 18.0° Efficiency 88 % Peak intensity 27.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED DURIS E 5050 (GW J9LHS1.4M) FWHM / FWTM 14.0° / 32.0° Efficiency 95 % Peak intensity 9.5 cd/lm LEDs/each optic 1 Light colour RGBW Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S8 FWHM / FWTM 20.0° / 38.0° Efficiency 95 % Peak intensity 5.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S8 FWHM / FWTM 22.0° / 40.0° Efficiency 87 % Peak intensity 4.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p> <p>Protective plate, glass</p>	

OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ P 3737 (2W version)</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 26.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p style="background-color: #ADD8E6; padding: 2px; display: inline-block;">Protective plate, glass</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 15.7 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 12.0° / 24.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 14.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p style="background-color: #ADD8E6; padding: 2px; display: inline-block;">Protective plate, glass</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Optimal</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 41.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Far Red</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

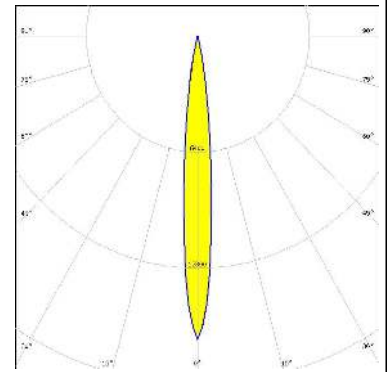
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 19.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>SAMSUNG</p> <p>LED LH351B</p> <p>FWHM / FWTM 10.0° / 22.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 19.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p>	
<p>SAMSUNG</p> <p>LED LH351B</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 22.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SAMSUNG</p> <p>LED LH351C</p> <p>FWHM / FWTM 10.0° / 22.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 18.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

SAMSUNG

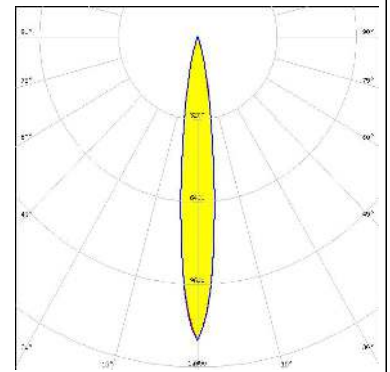
LED LH351C
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 88 %
 Peak intensity 16.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



SAMSUNG

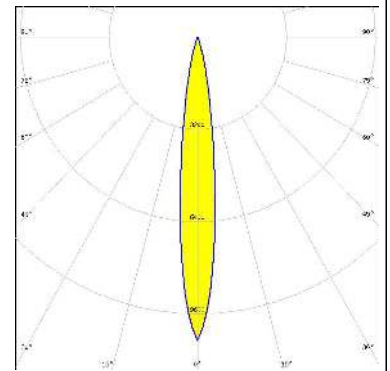
LED LH351D
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 95 %
 Peak intensity 11.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

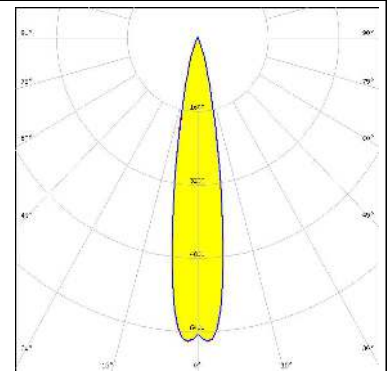
LED LH351D
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 90 %
 Peak intensity 10.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



SAMSUNG

LED LH502C
 FWHM / FWTM 18.0° / 36.0°
 Efficiency 95 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

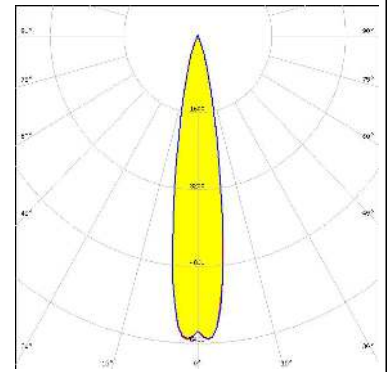


OPTICAL RESULTS (SIMULATED):

SAMSUNG

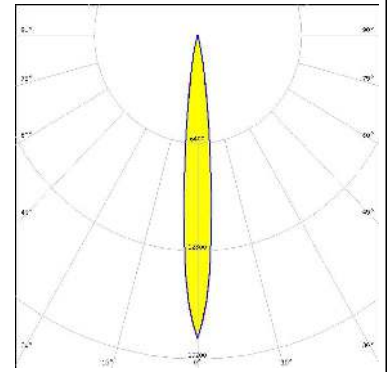
LED LH502C
 FWHM / FWTM 18.0° / 35.0°
 Efficiency 90 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



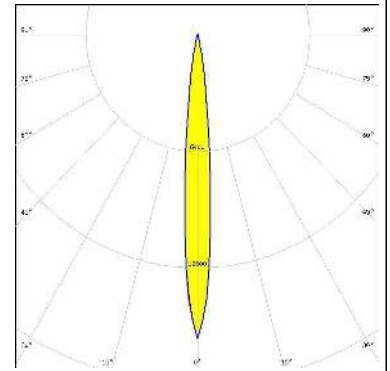
SEOUL SEMICONDUCTOR
 LED Z5M4
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 90 %
 Peak intensity 18 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



SEOUL SEMICONDUCTOR
 LED Z8Y22
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 86 %
 Peak intensity 16.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



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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