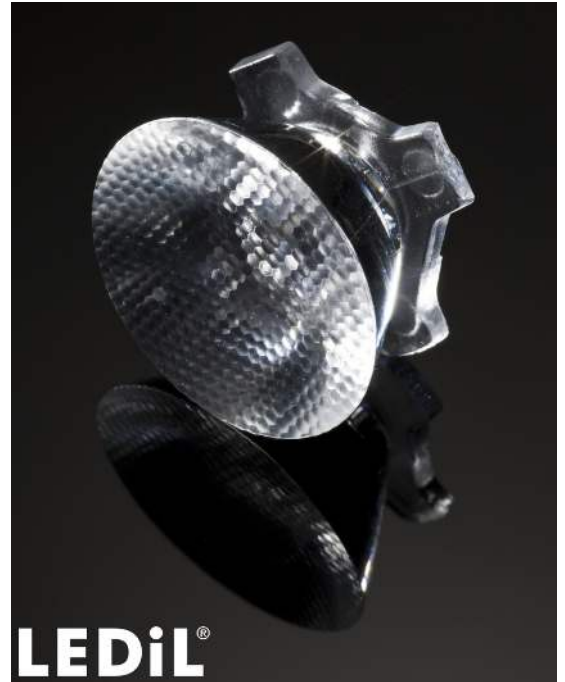


HEIDI-SS

~15° smooth spot beam optimized for LUXEON Rebel ES

SPECIFICATION:

Dimensions	Ø 21.6 mm
Height	11.7 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

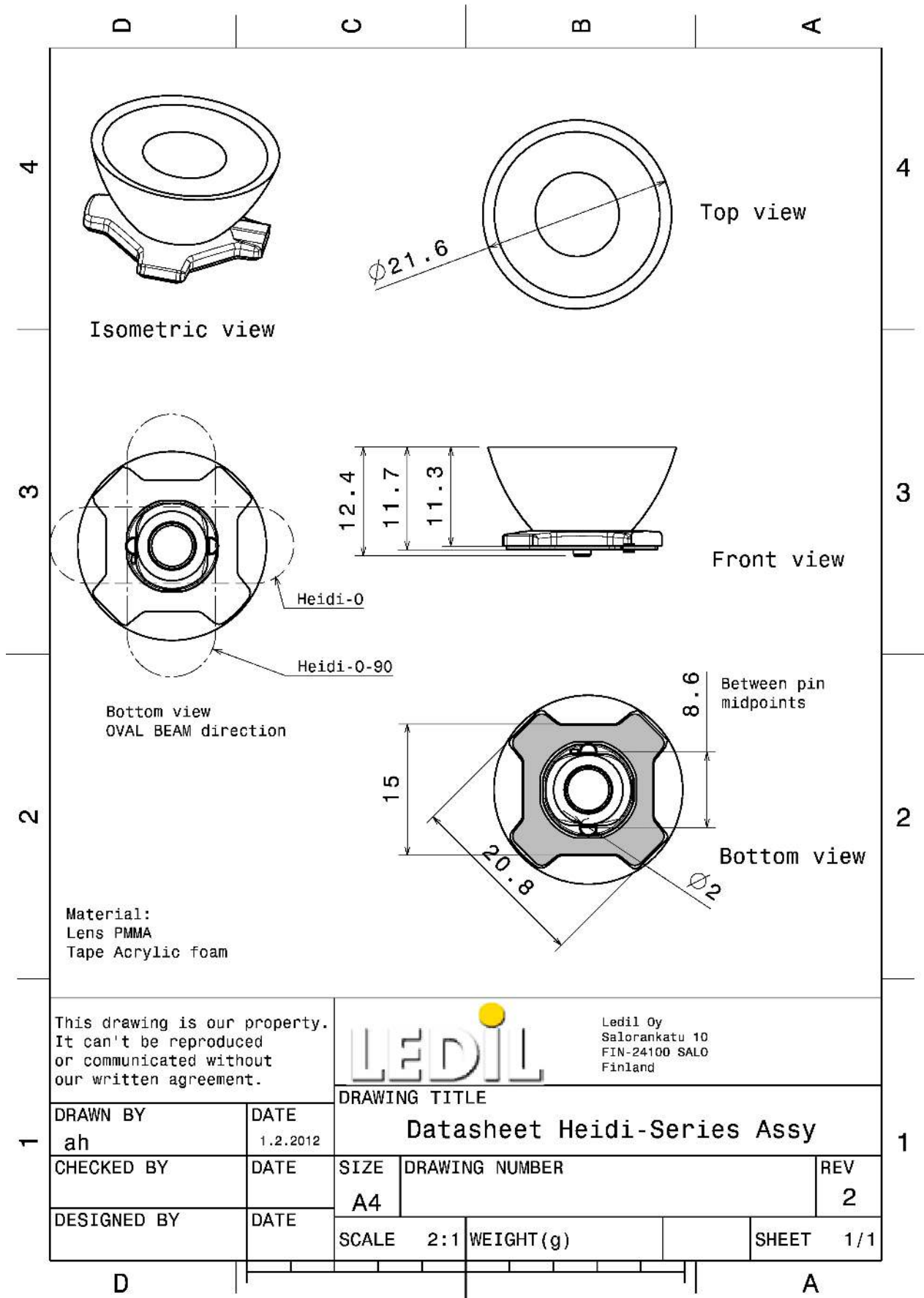


MATERIALS:

Component	Type	Material	Colour	Finish
HEIDI-SS	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	Acrylic foam	black	

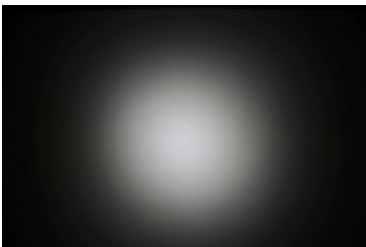
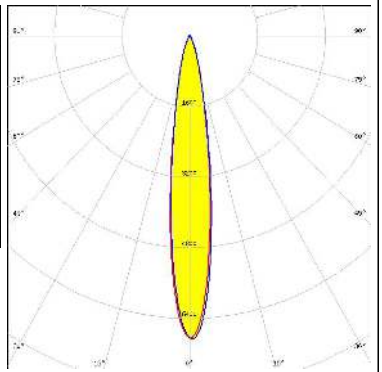


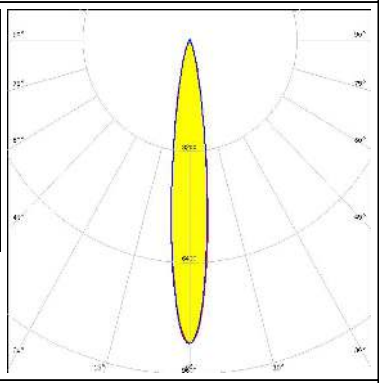

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12443_HEIDI-SS	Single lens	3264	204	204	11.1
» Box size: 480 x 280 x 300 mm					

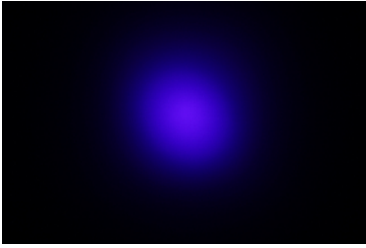
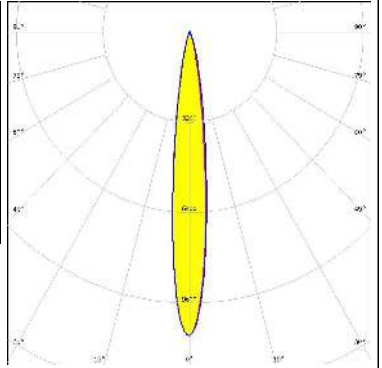

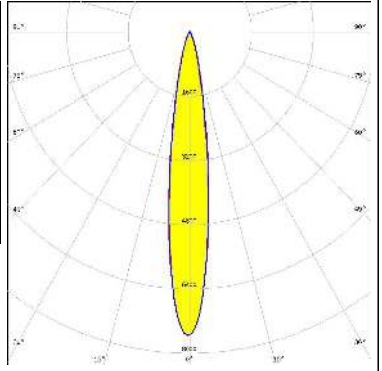

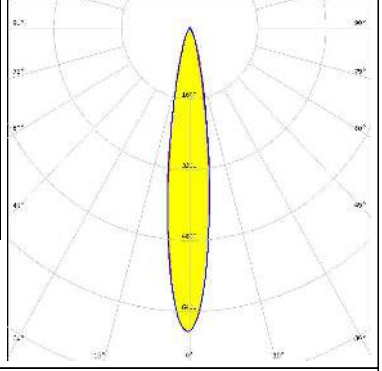

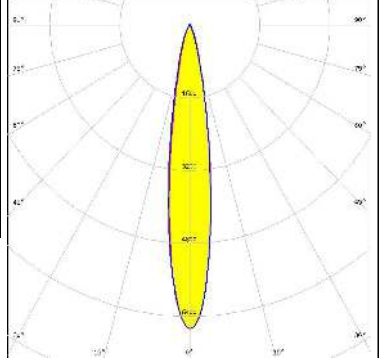


See also our general installation guide: www.ledil.com/installation_guide


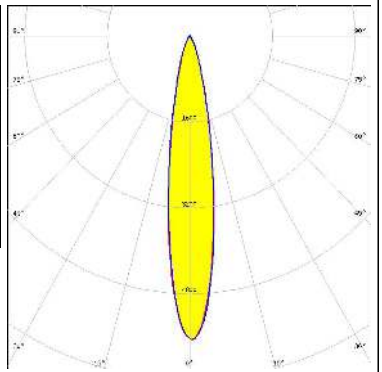

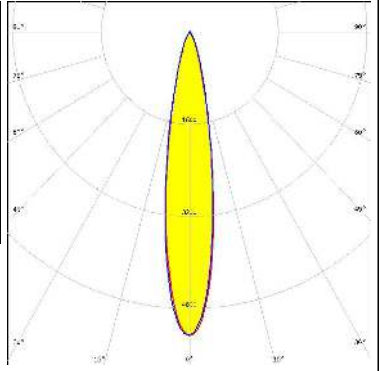

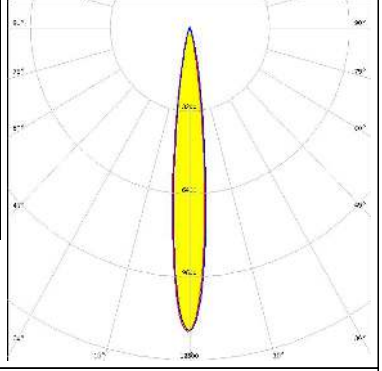

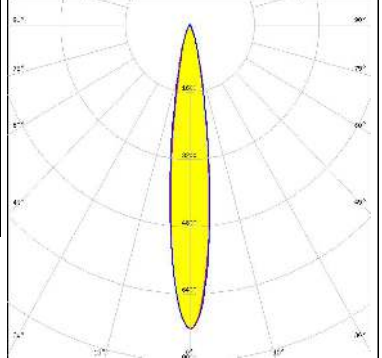
OPTICAL RESULTS (MEASURED):

<p>CREE LED</p> <p>LED: XP-G3 FWHM / FWTM: 16.0° / 35.0° Efficiency: 94 % Peak intensity: 6.9 cd/m LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON R FWHM / FWTM: 16.0° / 36.0° Efficiency: 91 % Peak intensity: 6.3 cd/m LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON Rebel FWHM / FWTM: 14.0° / 31.0° Efficiency: 89 % Peak intensity: 8.7 cd/m LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON Rebel ES FWHM / FWTM: 14.0° / 34.0° Efficiency: 91 % Peak intensity: 6.3 cd/m LEDs/each optic: 1 Light colour: White Required components:</p>		

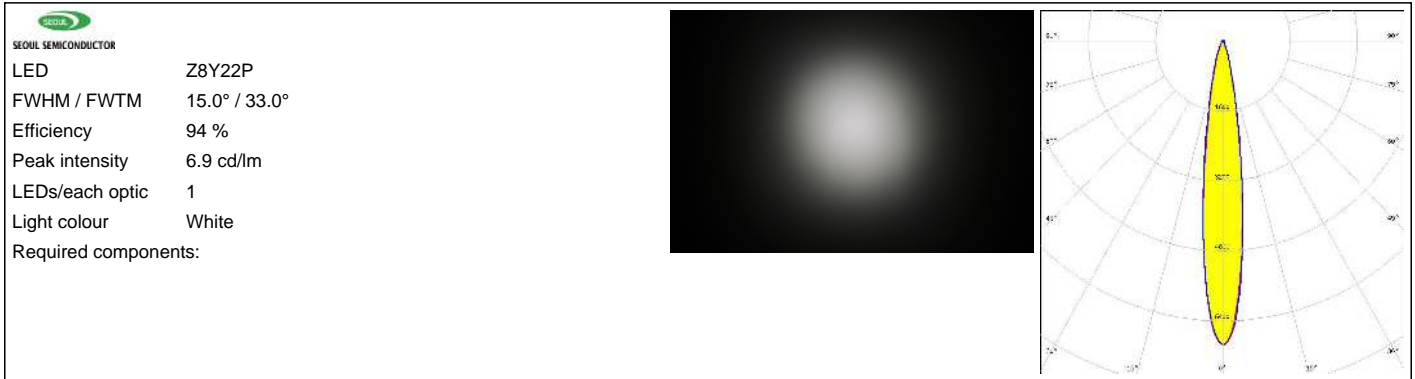
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED SST-10-B130 FWHM / FWTM 13.0° / 27.0° Efficiency 95 % Peak intensity 10.8 cd/lm LEDs/each optic 1 Light colour Blue Required components:</p>		
<p>NICHIA</p> <p>LED NVSW219D FWHM / FWTM 15.0° / 33.0° Efficiency 94 % Peak intensity 7.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW319B FWHM / FWTM 16.0° / 35.0° Efficiency 94 % Peak intensity 6.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW3x9A FWHM / FWTM 16.0° / 34.0° Efficiency 92 % Peak intensity 6.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

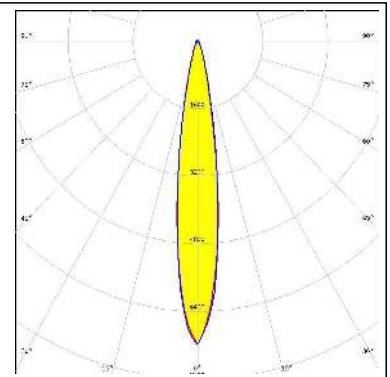
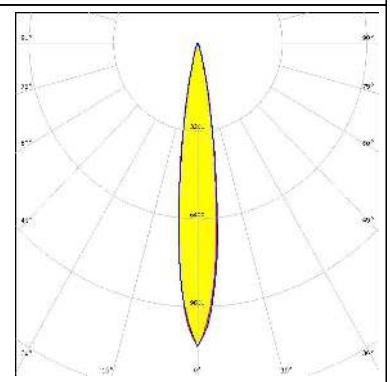
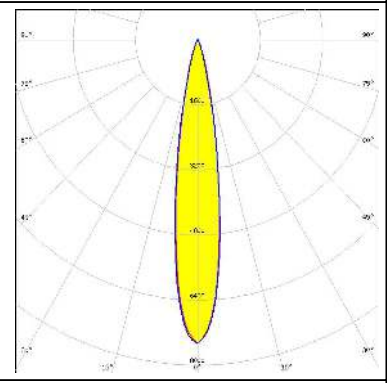
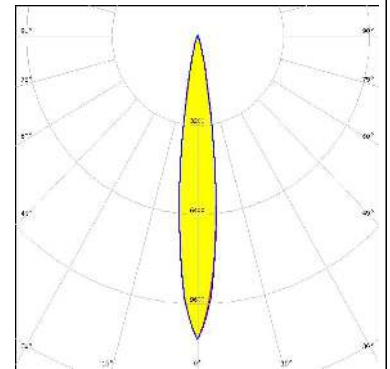
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NVSW519A FWHM / FWTM 18.0° / 39.0° Efficiency 95 % Peak intensity 5.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NWSx229A FWHM / FWTM 18.0° / 39.0° Efficiency 86 % Peak intensity 5.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 150 FWHM / FWTM 12.0° / 25.0° Efficiency 91 % Peak intensity 11.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>SEMI SEOUL SEMICONDUCTOR</p> <p>LED Z5M3 FWHM / FWTM 15.0° / 33.0° Efficiency 94 % Peak intensity 7.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

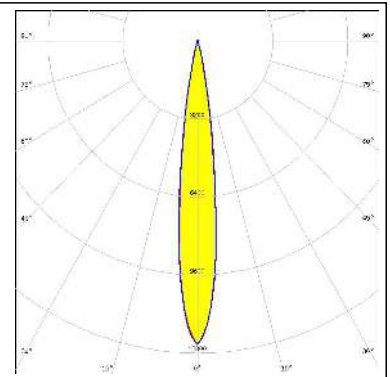
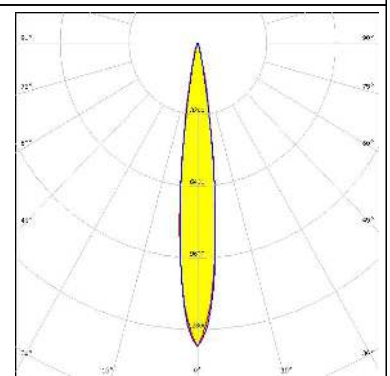
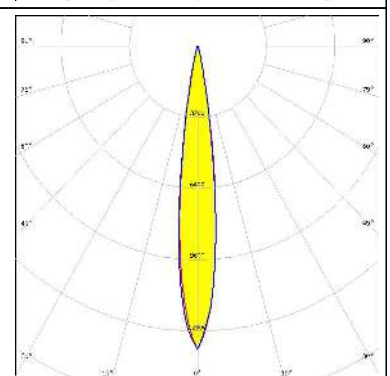
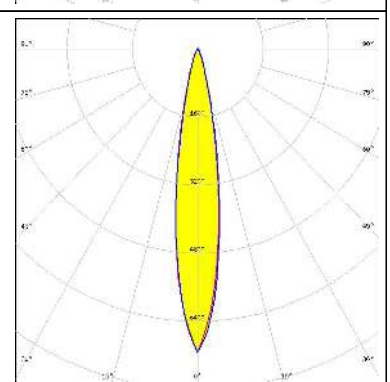
OPTICAL RESULTS (MEASURED):



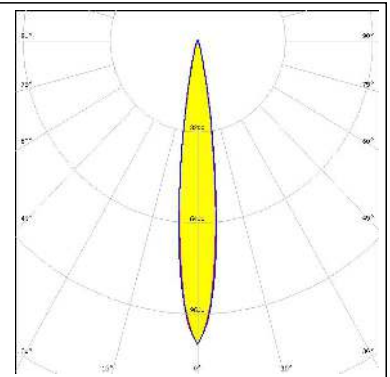
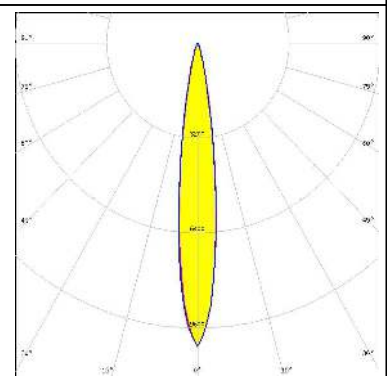
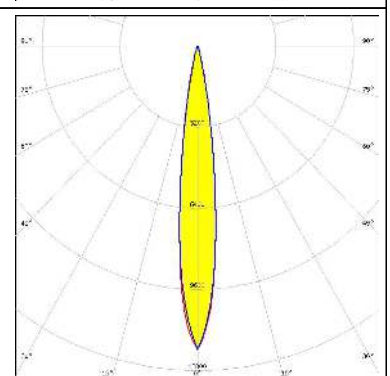
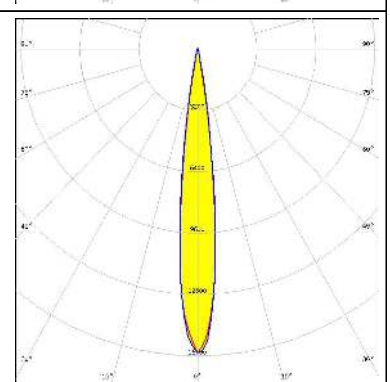
OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <p>LED: XHP35.2 HI FWHM / FWTM: 16.0° / 32.0° Efficiency: 95 % Peak intensity: 7.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE → LED</p> <p>LED: XP-G2 FWHM / FWTM: 15.0° / 28.0° Efficiency: 96 % Peak intensity: 11.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE → LED</p> <p>LED: XP-G2 HE FWHM / FWTM: 17.0° / 34.0° Efficiency: 94 % Peak intensity: 7.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON HL2Z FWHM / FWTM: 14.0° / 27.0° Efficiency: 95 % Peak intensity: 10.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

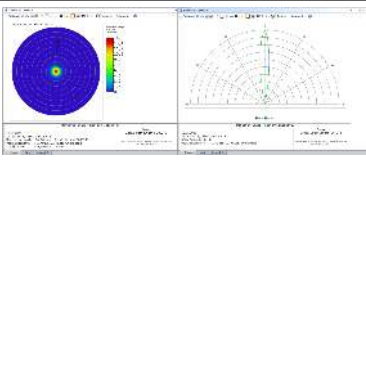
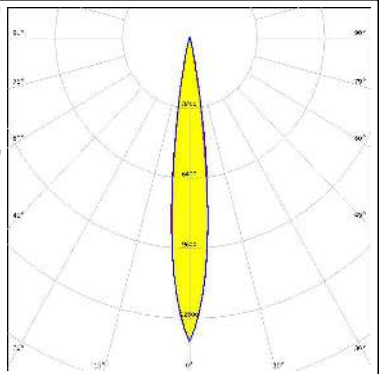
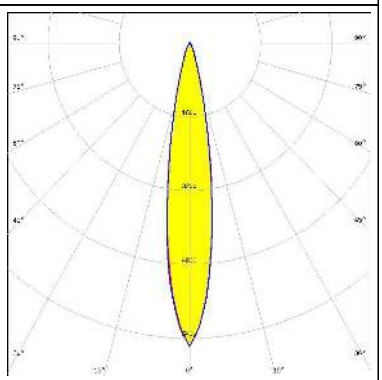
OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON SunPlus 20 Line (150 deg)</p> <p>FWHM / FWTM 14.0° / 25.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 12.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON SunPlus 35 Line</p> <p>FWHM / FWTM 14.0° / 25.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 13.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 14.0° / 24.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 13.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED NV4WB35AM</p> <p>FWHM / FWTM 17.0° / 34.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 7.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NVSxE21A FWHM / FWTM 14.0° / 27.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ P 3737 Flat FWHM / FWTM 14.0° / 29.0° Efficiency 96 % Peak intensity 10.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Black FWHM / FWTM 14.0° / 26.0° Efficiency 94 % Peak intensity 12 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Black Flat (LUW HWQP) FWHM / FWTM 13.0° / 22.0° Efficiency 94 % Peak intensity 15.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4716AS FWHM / FWTM 14.0° / 24.0° Efficiency 96 % LEDs/each optic 1 Light colour IR Required components:</p>		
<p>SAMSUNG</p> <p>LED LH351D FWHM / FWTM 18.0° / 34.0° Efficiency 94 % Peak intensity 6.6 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:

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