

LEIA-S

~3° spot beam

SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	53 mm
Fastening	pin, screw
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish
F16199_LEIA-S	Single lens	PMMA		
F16213_LEIA-HLD	Holder	HRPC	white	

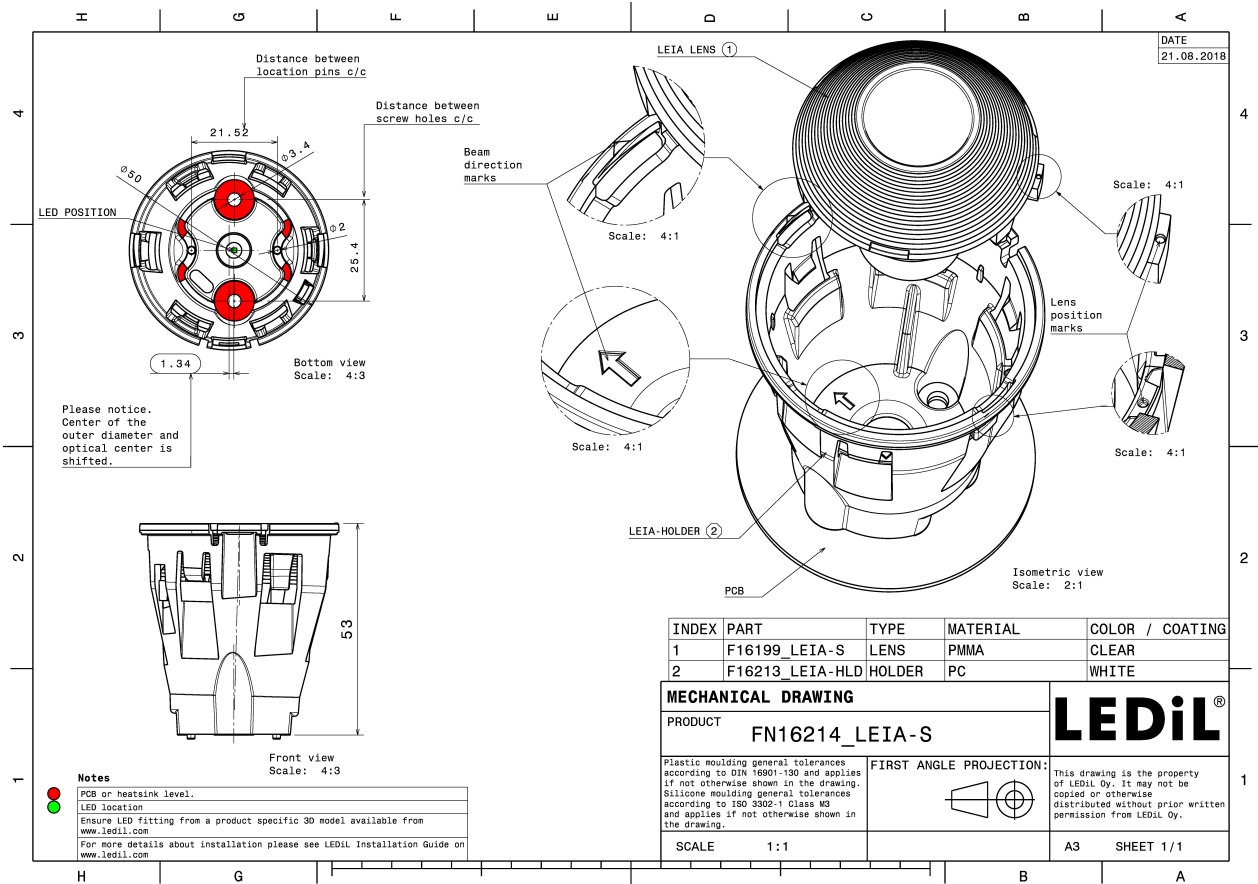


ORDERING INFORMATION:

Quantities for one set:


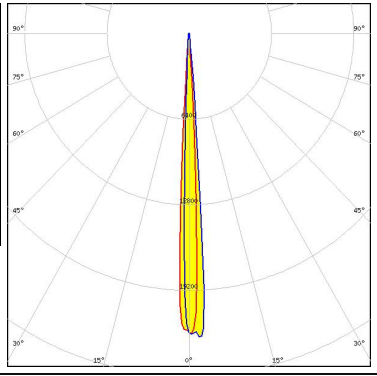
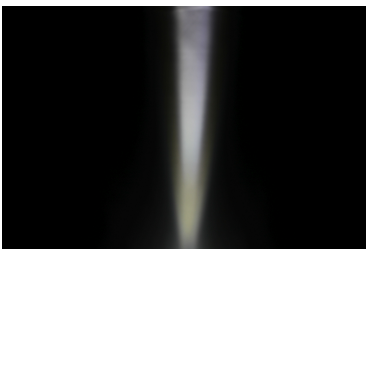
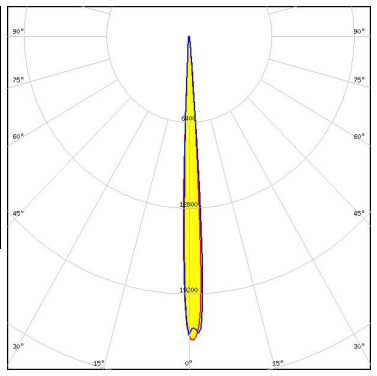
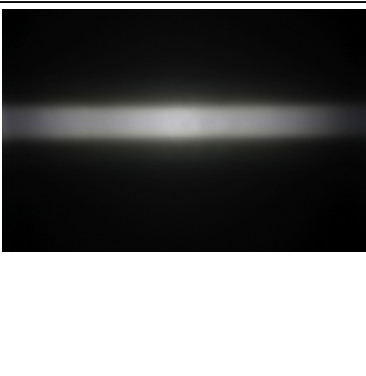
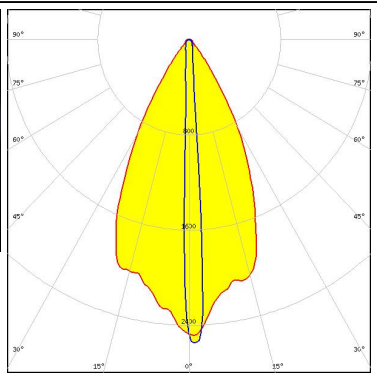

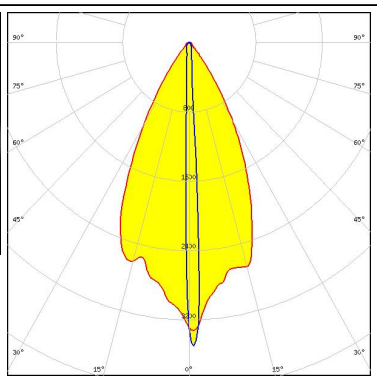
Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
F16199_LEIA-S	Single lens	240	40	40	8.2
» Box size: 480 x 280 x 300 mm					
F16213_LEIA-HLD	Holder	400	40	20	5.8
» Box size: 398 x 298 x 265 mm					


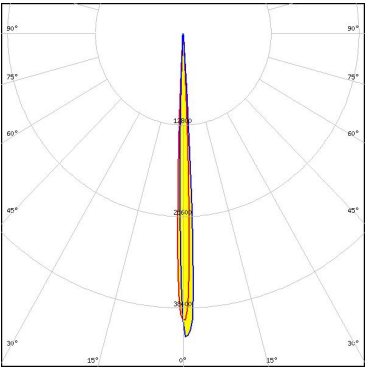

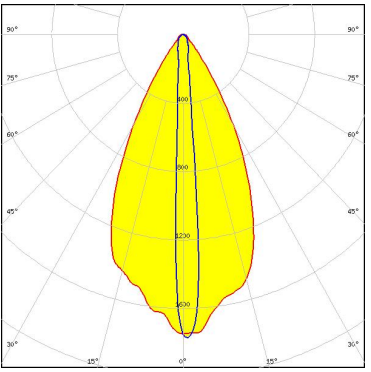
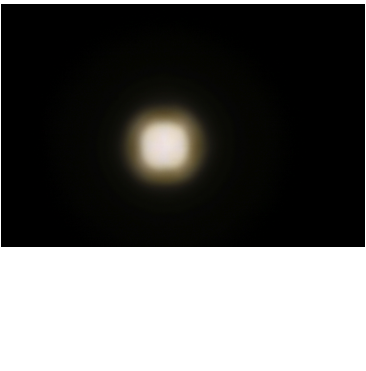
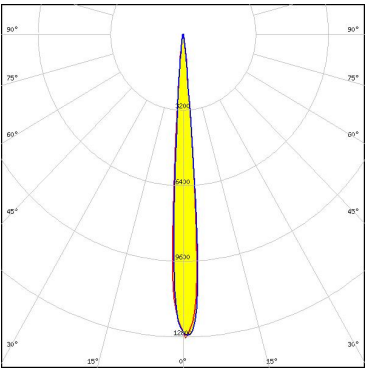

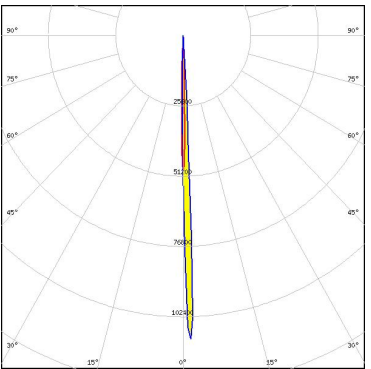


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XHP35 HD FWHM / FWTM 6.0° / 9.0° Efficiency 49 % Peak intensity 22.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XHP35 HD FWHM / FWTM 6.0° / 9.0° Efficiency 50 % Peak intensity 22.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XHP35 HD FWHM / FWTM 52.0 + 6.0° / 77.0 + 15.0° Efficiency 45 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		
<p>CREE LEDs</p> <p>LED XHP35 HI FWHM / FWTM 50.0 + 5.0° / 76.0 + 11.0° Efficiency 47 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		

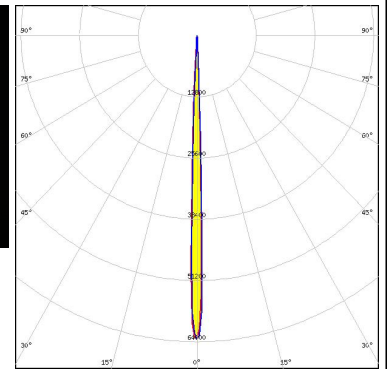
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XHP35 HI FWHM / FWTM 4.0° / 7.0° Efficiency 52 % Peak intensity 43.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XHP50.2 FWHM / FWTM 52.0 + 8.0° / 78.0 + 20.0° Efficiency 42 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		
<p>CREE LEDs</p> <p>LED XHP50.2 FWHM / FWTM 8.0° / 14.0° Efficiency 48 % Peak intensity 13 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XP-E2 FWHM / FWTM 2.6° / 5.7° Efficiency 59 % Peak intensity 128.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

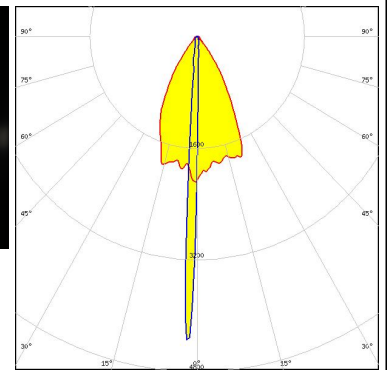
OPTICAL RESULTS (MEASURED):



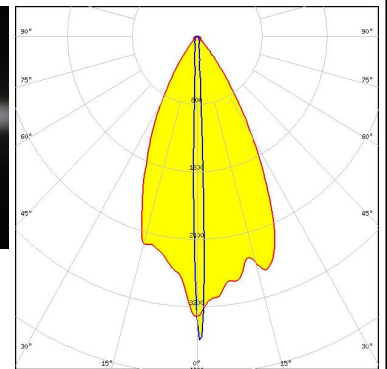
LED XP-G2
 FWHM / FWTM 4.0° / 6.0°
 Efficiency 50 %
 Peak intensity 63.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



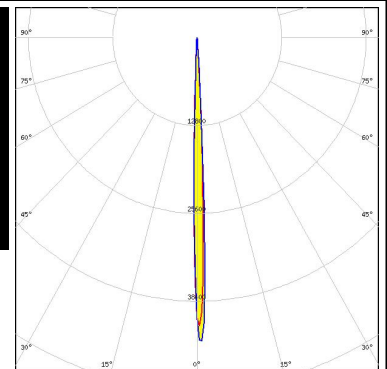
LED XP-G2
 FWHM / FWTM 57.0 + 4.0° / 82.0 + 9.0°
 Efficiency 40 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




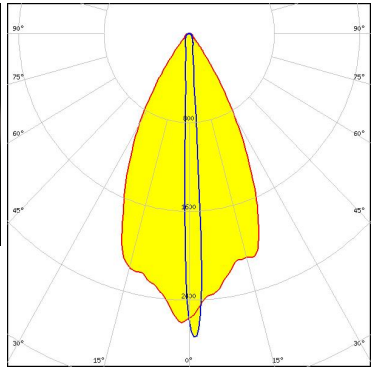

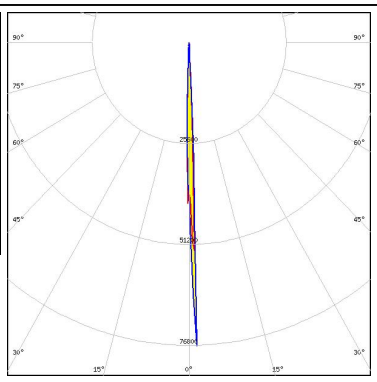

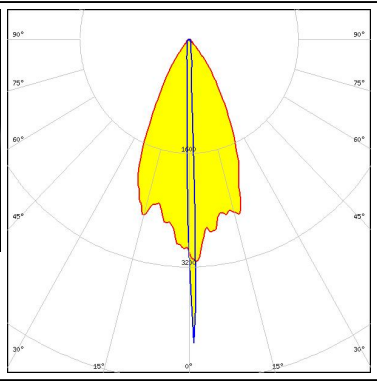

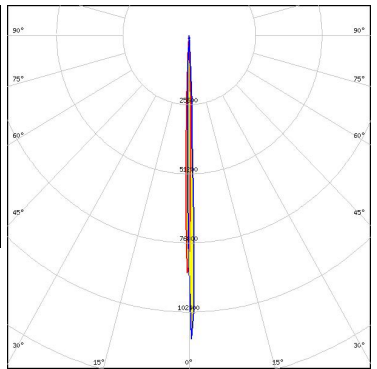
LED XP-G3
 FWHM / FWTM 50.0 + 4.0° / 76.0 + 9.0°
 Efficiency 47 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



LED XP-G3
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 51 %
 Peak intensity 48.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



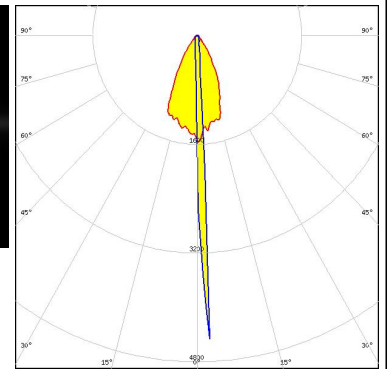
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XP-L2 FWHM / FWTM 51.0 + 6.0° / 77.0 + 16.0° Efficiency 49 % Peak intensity 2.8 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		
<p>CREE LEDs</p> <p>LED XQ-E HD FWHM / FWTM 3.0° / 6.0° Efficiency 47 % Peak intensity 91 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XQ-E HD FWHM / FWTM 50.0 + 3.0° / 76.0 + 9.0° Efficiency 42 % Peak intensity 4.6 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		
<p>CREE LEDs</p> <p>LED XQ-E HI FWHM / FWTM 2.0° / 4.0° Efficiency 48 % Peak intensity 112.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

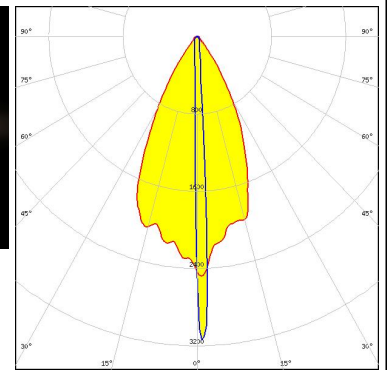
OPTICAL RESULTS (MEASURED):



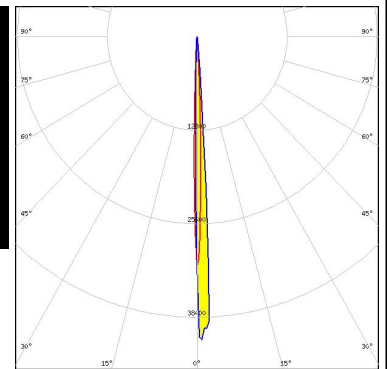
LED XQ-E HI
 FWHM / FWTM 52.0 + 3.0° / 79.0 + 9.0°
 Efficiency 44 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



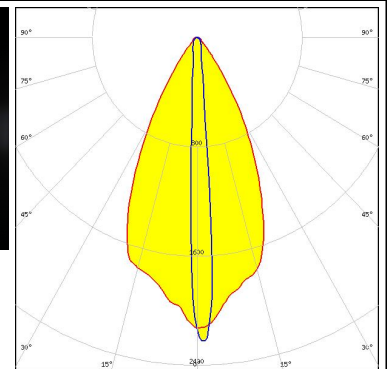
LED XT-E
 FWHM / FWTM 50.0 + 4.0° / 76.0 + 11.0°
 Efficiency 46 %
 Peak intensity 6.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



LED XT-E
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 49 %
 Peak intensity 42.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



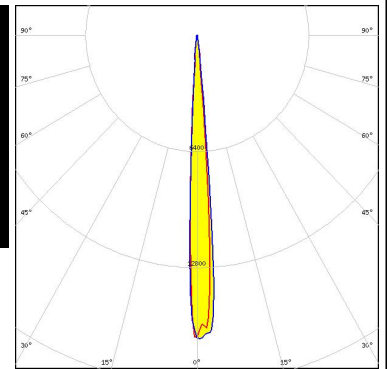
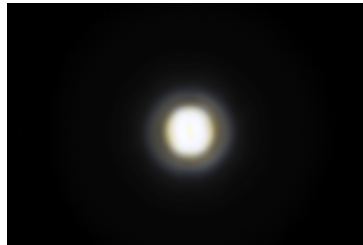
LED LUXEON 5050 Round LES
 FWHM / FWTM 51.0 + 7.0° / 78.0 + 18.0°
 Efficiency 46 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



OPTICAL RESULTS (MEASURED):

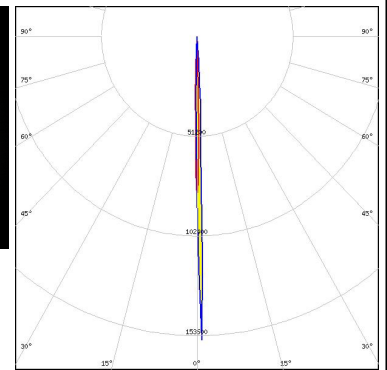
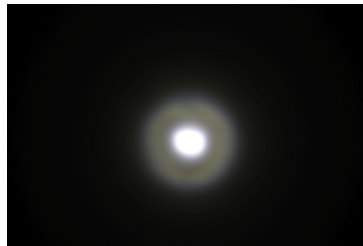
LUMILEDS

LED LUXEON 5050 Round LES
 FWHM / FWTM 7.0° / 11.0°
 Efficiency 51 %
 Peak intensity 16.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



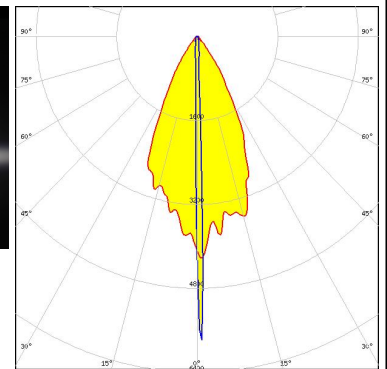
LUMILEDS

LED LUXEON CZ
 FWHM / FWTM 2.0° / 5.0°
 Efficiency 55 %
 Peak intensity 157 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



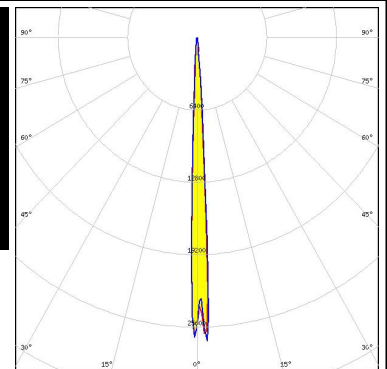
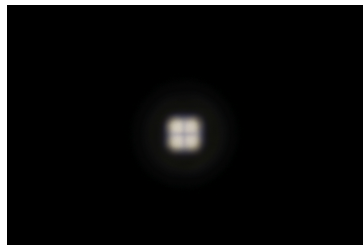
LUMILEDS

LED LUXEON CZ
 FWHM / FWTM 51.0 + 3.0° / 76.0 + 7.0°
 Efficiency 48 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



LUMILEDS

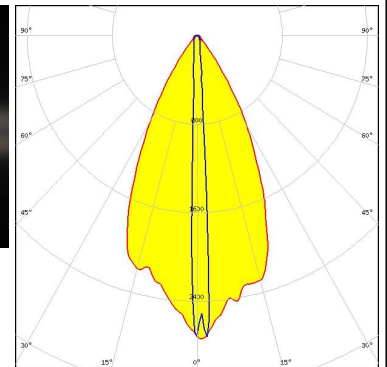
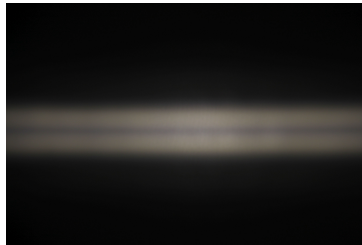
LED LUXEON MZ
 FWHM / FWTM 6.0° / 9.0°
 Efficiency 49 %
 Peak intensity 27.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

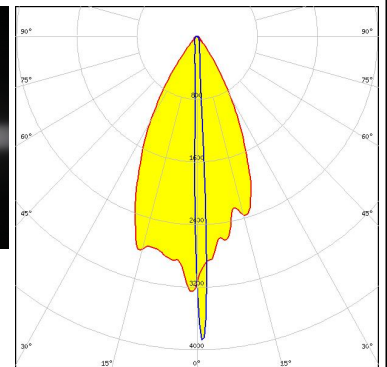
LUMILEDS

LED LUXEON MZ
 FWHM / FWTM 50.0 + 6.0° / 77.0 + 15.0°
 Efficiency 45 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



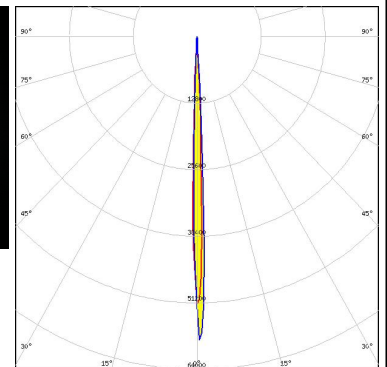
LUMILEDS

LED LUXEON TX
 FWHM / FWTM 50.0 + 4.0° / 76.0 + 9.0°
 Efficiency 48 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



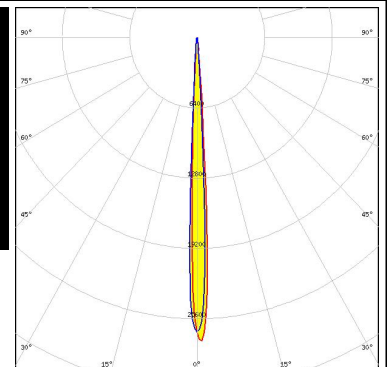
LUMILEDS

LED LUXEON TX
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 51 %
 Peak intensity 58.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

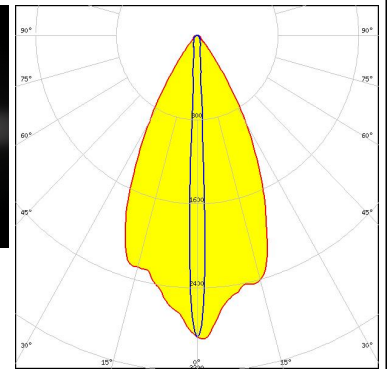
LED LUXEON V
 FWHM / FWTM 6.0° / 9.0°
 Efficiency 53 %
 Peak intensity 27.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

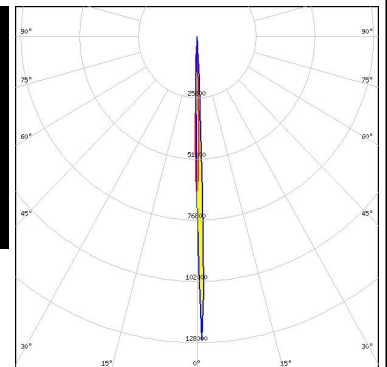
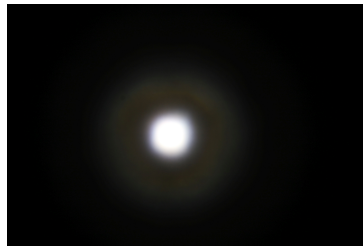
LUMILEDS

LED LUXEON V
 FWHM / FWTM 51.0 + 6.0° / 77.0 + 15.0°
 Efficiency 49 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



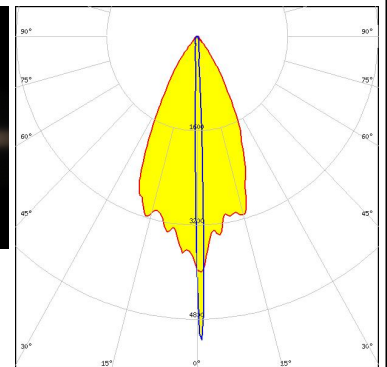
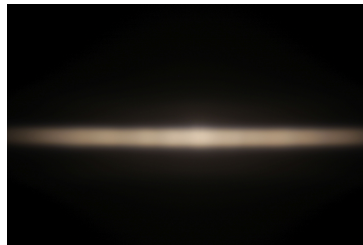
LUMILEDS

LED LUXEON Z
 FWHM / FWTM 2.0° / 5.0°
 Efficiency 50 %
 Peak intensity 131 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



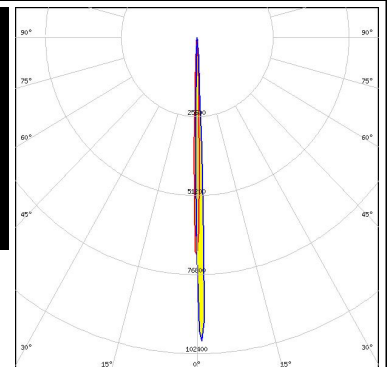
LUMILEDS

LED LUXEON Z ES
 FWHM / FWTM 49.0 + 3.0° / 76.0 + 7.0°
 Efficiency 49 %
 Peak intensity 5.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O

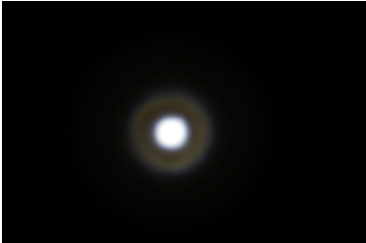
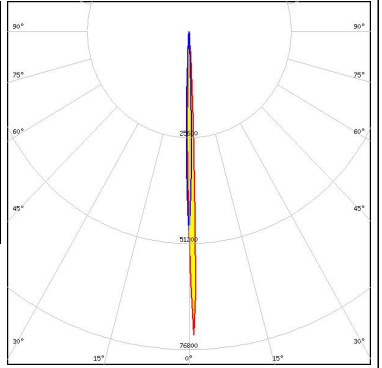

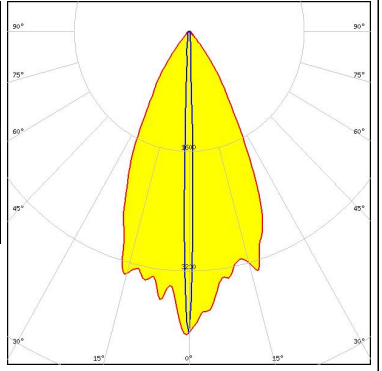

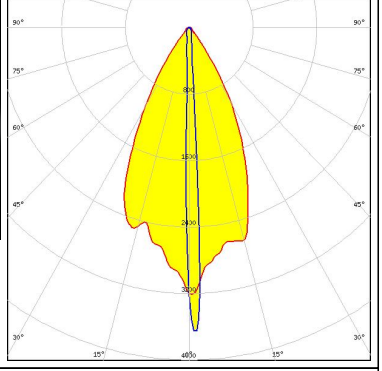
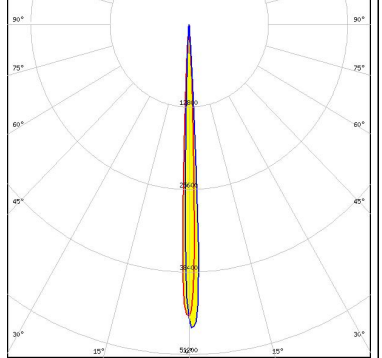


LUMILEDS

LED LUXEON Z ES
 FWHM / FWTM 3.0° / 6.0°
 Efficiency 55 %
 Peak intensity 98.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



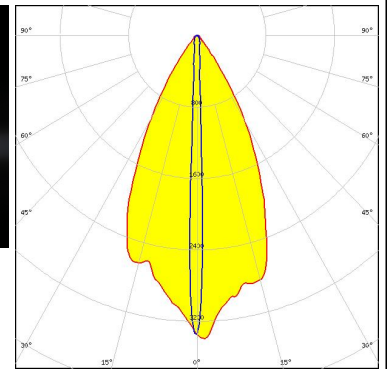
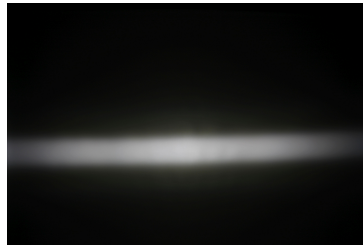
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NCSxE17A FWHM / FWTM 3.0° / 6.0° Efficiency 40 % Peak intensity 73.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NCSxE17A FWHM / FWTM 50.0 + 3.0° / 77.0 + 7.0° Efficiency 36 % Peak intensity 4.1 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 51.0 + 5.0° / 76.0 + 10.0° Efficiency 48 % Peak intensity 3.8 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 4.0° / 7.0° Efficiency 50 % Peak intensity 47.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

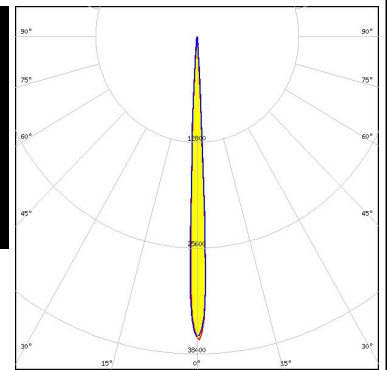
OPTICAL RESULTS (MEASURED):



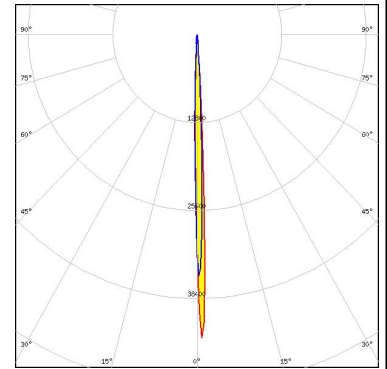
LED NVSW319B
 FWHM / FWTM 50.0 + 5.0° / 76.0 + 13.0°
 Efficiency 46 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



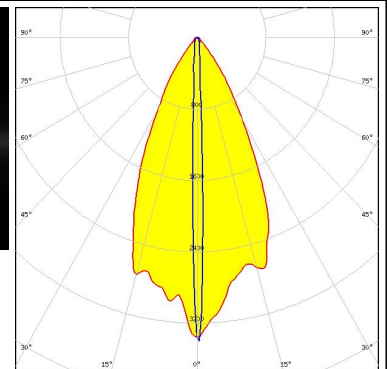
LED NVSW319B
 FWHM / FWTM 5.0° / 8.0°
 Efficiency 52 %
 Peak intensity 36.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




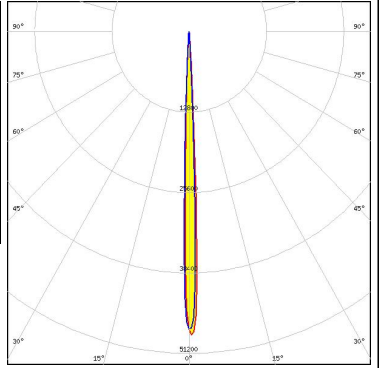

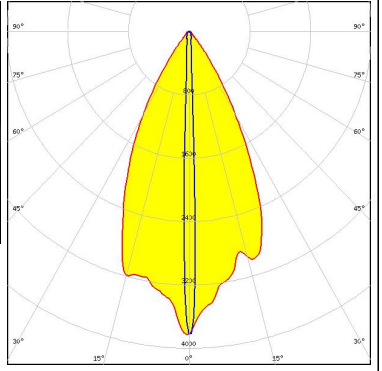

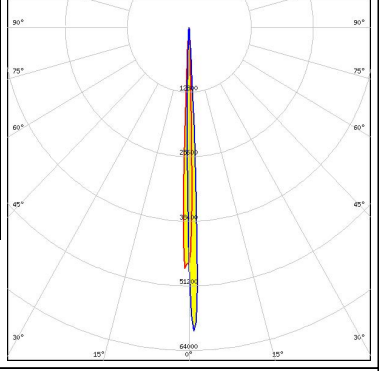

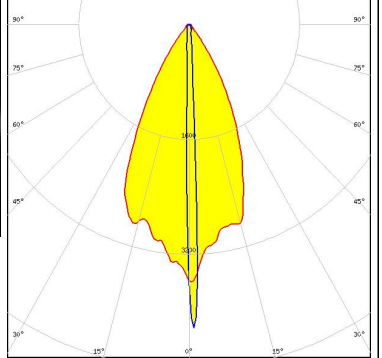
LED NVSxE21A
 FWHM / FWTM 3.0° / 7.0°
 Efficiency 46 %
 Peak intensity 51 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSxE21A
 FWHM / FWTM 49.0 + 4.0° / 77.0 + 13.0°
 Efficiency 41 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



OPTICAL RESULTS (MEASURED):

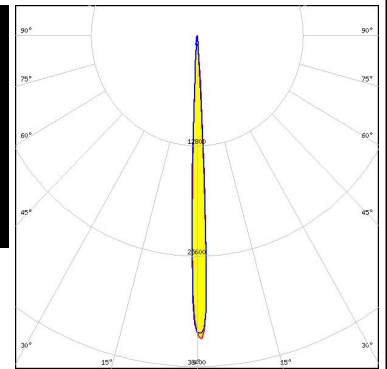
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C FWHM / FWTM 4.0° / 7.0° Efficiency 49 % Peak intensity 48.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C FWHM / FWTM 50.0 + 4.0° / 76.0 + 9.0° Efficiency 44 % Peak intensity 3.9 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSCONIQ P 3737 (2W version) FWHM / FWTM 3.0° / 7.0° Efficiency 54 % Peak intensity 62.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSCONIQ P 3737 (2W version) FWHM / FWTM 50.0 + 4.0° / 76.0 + 9.0° Efficiency 49 % Peak intensity 4.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

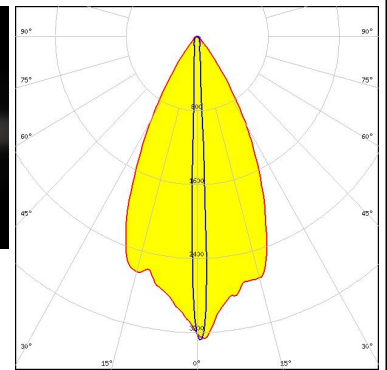
LED OSCONIQ P 3737 (3W version)
 FWHM / FWTM 5.0° / 8.0°
 Efficiency 53 %
 Peak intensity 36 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

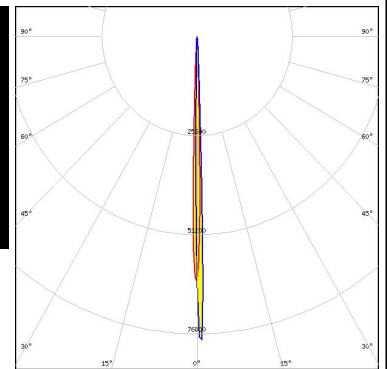
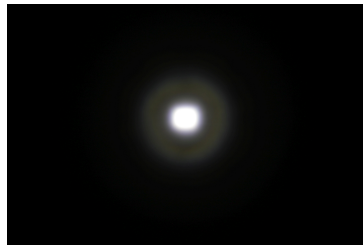
LED OSCONIQ P 3737 (3W version)
 FWHM / FWTM 51.0 + 5.0° / 76.0 + 14.0°
 Efficiency 48 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

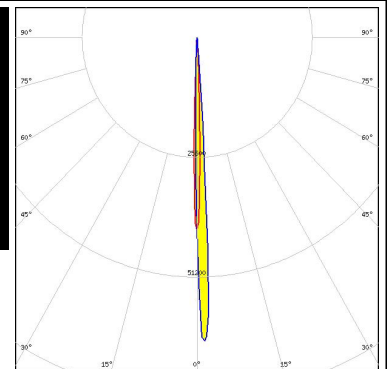
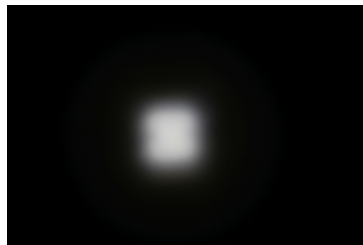
LED OSLOM Boost HX (KW CULPM1.TG)
 FWHM / FWTM 3.0° / 5.0°
 Efficiency 54 %
 Peak intensity 96.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




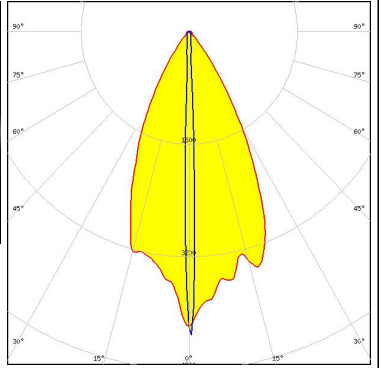

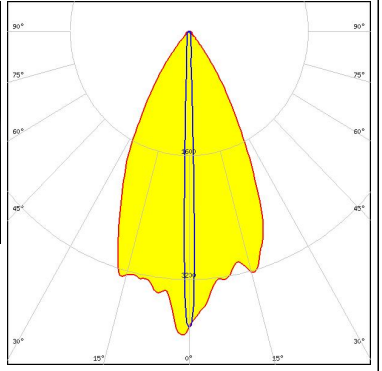

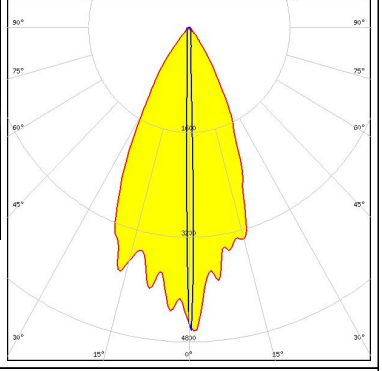

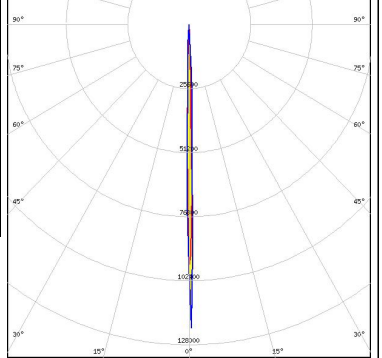
OSRAM

Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 49 %
 Peak intensity 64.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

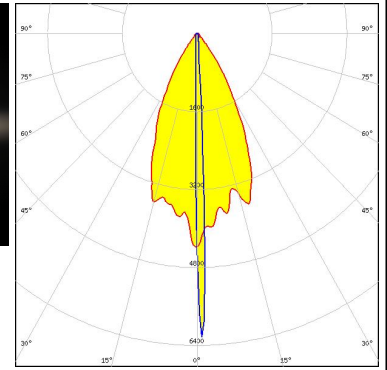
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 50.0 + 4.0° / 75.0 + 8.0°</p> <p>Efficiency 46 %</p> <p>Peak intensity 4.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F16629_LEIA-SUB-O</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square PC</p> <p>FWHM / FWTM 52.0 + 4.0° / 77.0 + 9.0°</p> <p>Efficiency 42 %</p> <p>Peak intensity 3.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F16629_LEIA-SUB-O</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 47.0 + 3.0° / 73.0 + 7.0°</p> <p>Efficiency 40 %</p> <p>Peak intensity 4.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F16629_LEIA-SUB-O</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 2.0° / 5.0°</p> <p>Efficiency 46 %</p> <p>Peak intensity 122 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

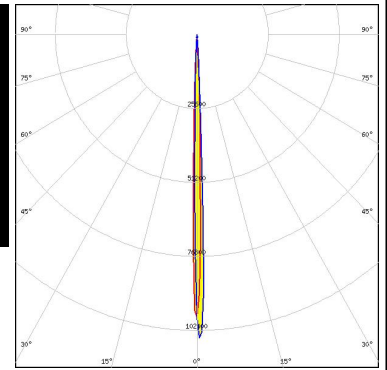
LED OSLON SSL 80
 FWHM / FWTM 51.0 + 3.0° / 77.0 + 7.0°
 Efficiency 56 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

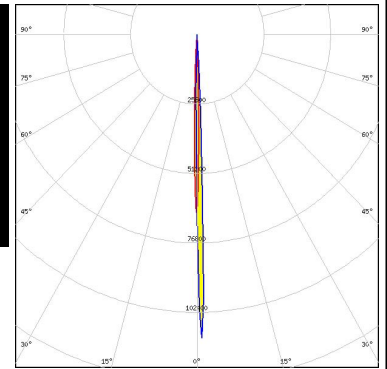
LED OSLON SSL 80
 FWHM / FWTM 3.0° / 6.0°
 Efficiency 62 %
 Peak intensity 106.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

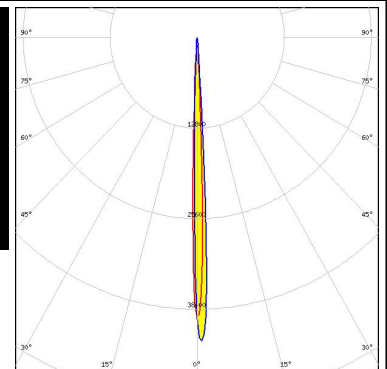
Opto Semiconductors

LED OSTAR Projection Compact (KW.CSLNM1.TG)
 FWHM / FWTM 3.0° / 5.0°
 Efficiency 49 %
 Peak intensity 120.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

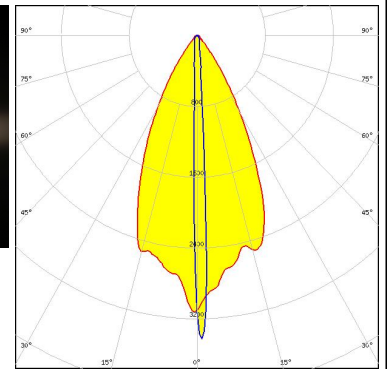
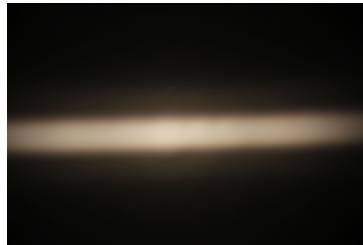
LED LH231B
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 50 %
 Peak intensity 43.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

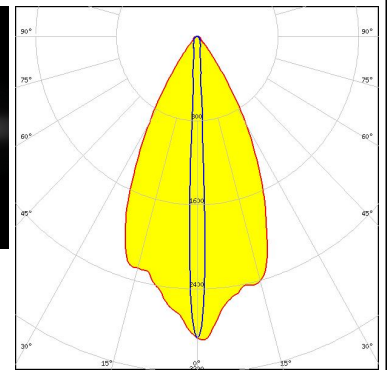
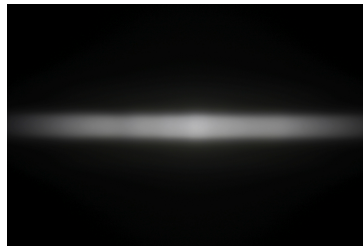
SAMSUNG

LED LH231B
 FWHM / FWTM 50.0 + 4.0° / 76.0 + 13.0°
 Efficiency 46 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



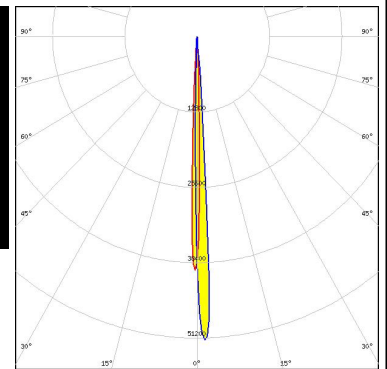
SAMSUNG

LED LH351B
 FWHM / FWTM 52.0 + 4.0° / 77.0 + 10.0°
 Efficiency 50 %
 Peak intensity 4.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



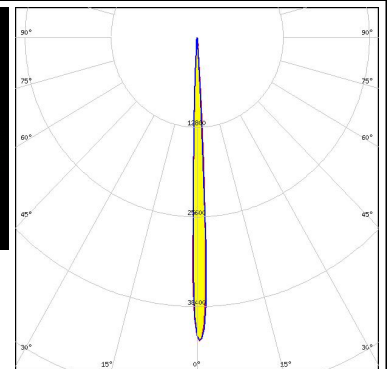
SAMSUNG

LED LH351B
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 55 %
 Peak intensity 54.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

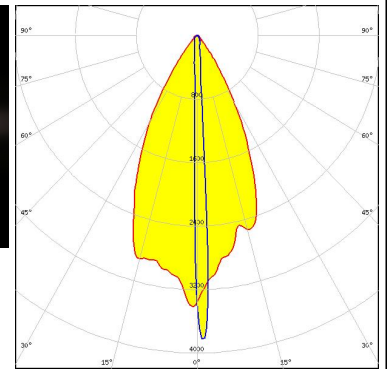
LED LH351C
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 57 %
 Peak intensity 46.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

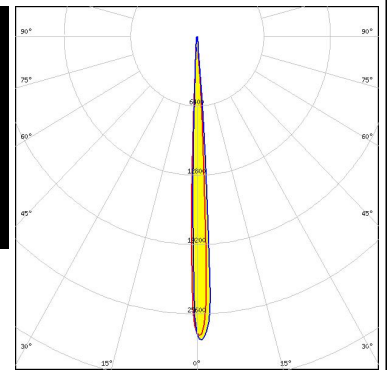
SAMSUNG

LED LH351C
 FWHM / FWTM 50.0 + 5.0° / 76.0 + 12.0°
 Efficiency 52 %
 Peak intensity 3.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



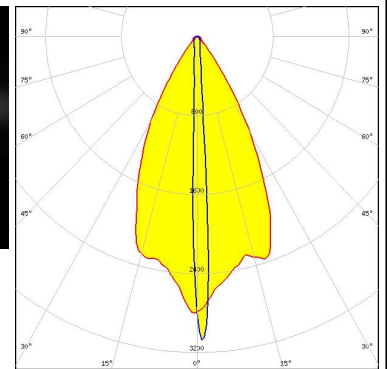
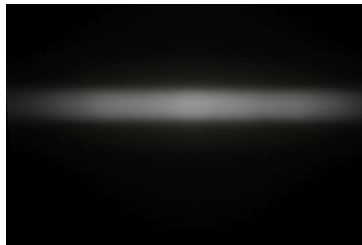
SAMSUNG

LED LH351D
 FWHM / FWTM 5.0° / 9.0°
 Efficiency 54 %
 Peak intensity 29 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



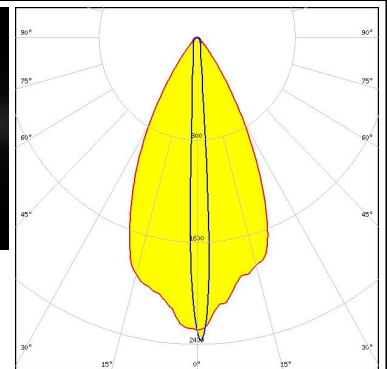
SAMSUNG

LED LH351D
 FWHM / FWTM 53.0 + 5.0° / 77.0 + 14.0°
 Efficiency 50 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O



SAMSUNG

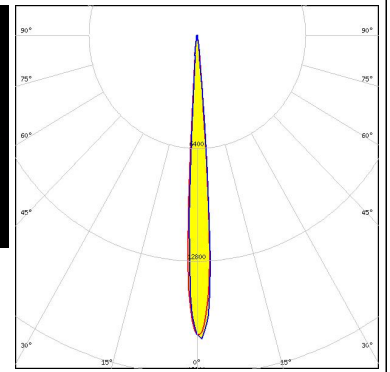
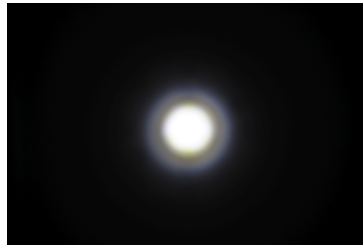
LED LH508A
 FWHM / FWTM 52.0 + 7.0° / 78.0 + 17.0°
 Efficiency 45 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F16629_LEIA-SUB-O




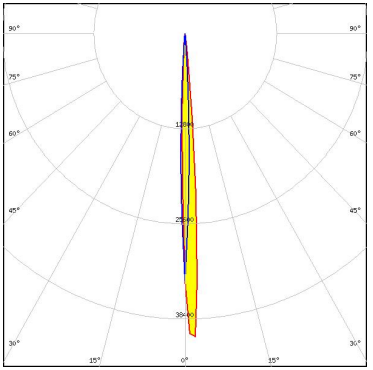

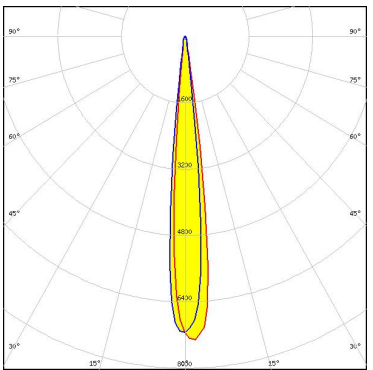

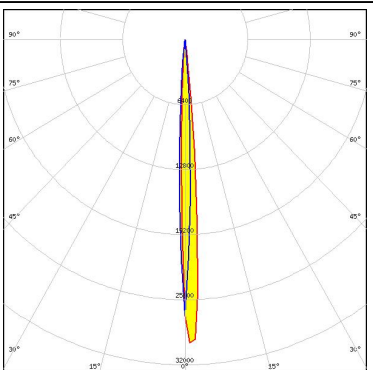

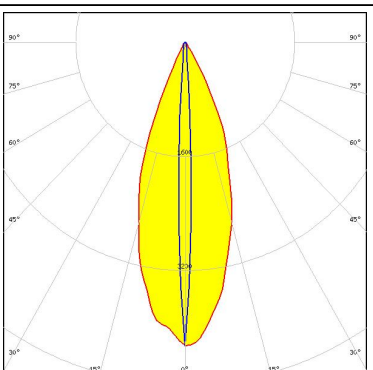
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LH508A
FWHM / FWTM 7.0° / 11.0°
Efficiency 50 %
Peak intensity 17.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



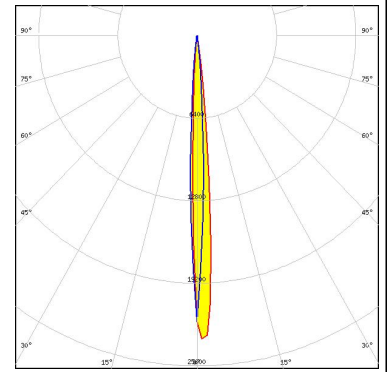
OPTICAL RESULTS (SIMULATED):

	<p>LED XE-G FWHM / FWTM 5.0° / 10.0° Efficiency 47 % Peak intensity 40.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XHP70.2 FWHM / FWTM 12.0° / 18.0° Efficiency 48 % Peak intensity 7.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XP-G2 HE FWHM / FWTM 5.0° / 11.0° Efficiency 48 % Peak intensity 29.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED XP-G2 HE FWHM / FWTM 36.0 + 5.0° / 58.0 + 12.0° Efficiency 44 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components: F16629_LEIA-SUB-O</p>	

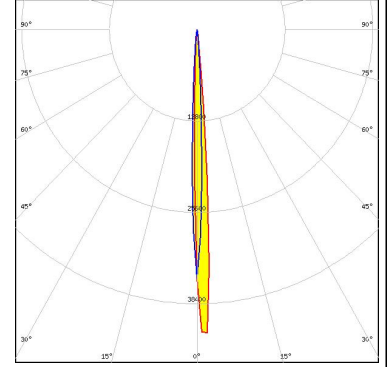
OPTICAL RESULTS (SIMULATED):



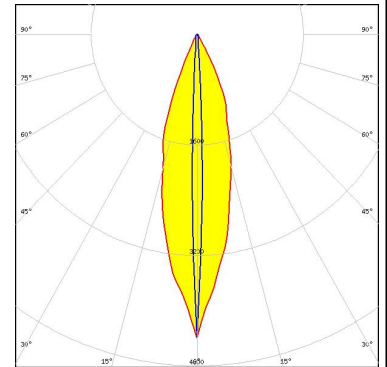
LED XP-L HD
 FWHM / FWTM 6.3° / 12.9°
 Efficiency 51 %
 Peak intensity 23.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



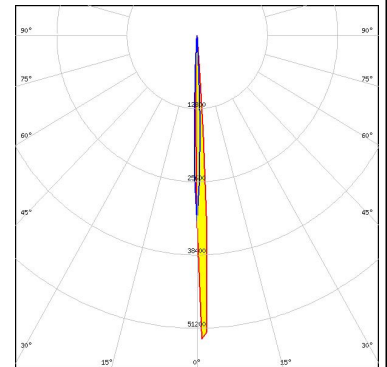
LED XP-L HI
 FWHM / FWTM 4.5° / 9.5°
 Efficiency 53 %
 Peak intensity 42.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON C
 FWHM / FWTM 27.0 + 4.0° / 54.0 + 10.0°
 Efficiency 35 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour Red
 Required components:
 F16629_LEIA-SUB-O



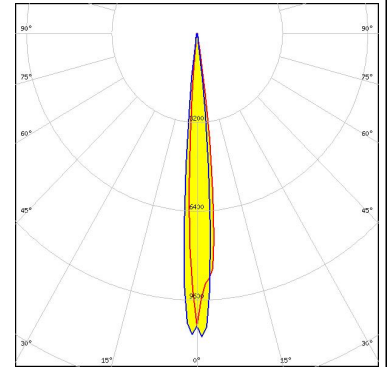
LED LUXEON C
 FWHM / FWTM 3.6° / 7.0°
 Efficiency 36 %
 Peak intensity 53.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

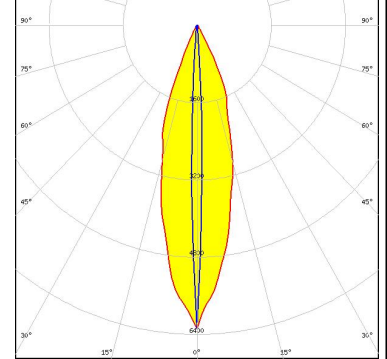
LUMILEDS

LED LUXEON CZ
 FWHM / FWTM 10.0° / 16.0°
 Efficiency 42 %
 Peak intensity 11 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:



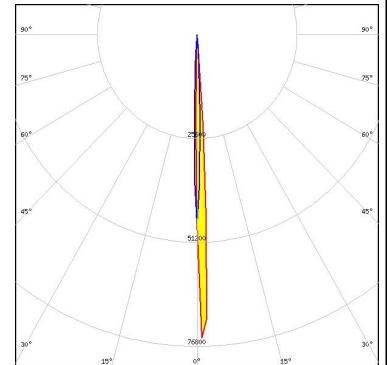
LUMILEDS

LED LUXEON CZ
 FWHM / FWTM 28.0 + 4.0° / 54.0 + 10.0°
 Efficiency 47 %
 Peak intensity 6.3 cd/lm
 LEDs/each optic 1
 Light colour Red
 Required components:
 F16629_LEIA-SUB-O



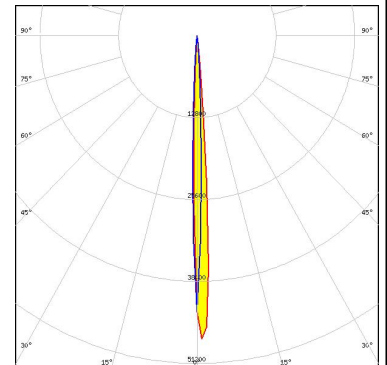
LUMILEDS

LED LUXEON Rubix
 FWHM / FWTM 4.0° / 7.0°
 Efficiency 45 %
 Peak intensity 74.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

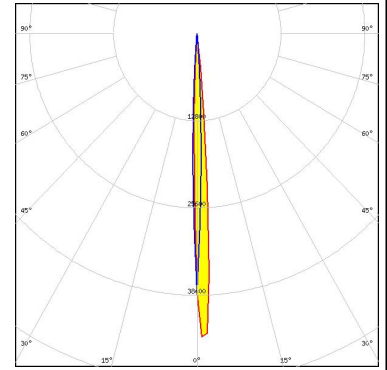
LED LUXEON Rubix
 FWHM / FWTM 5.0° / 9.0°
 Efficiency 51 %
 Peak intensity 47.4 cd/lm
 LEDs/each optic 1
 Light colour Red
 Required components:



OPTICAL RESULTS (SIMULATED):

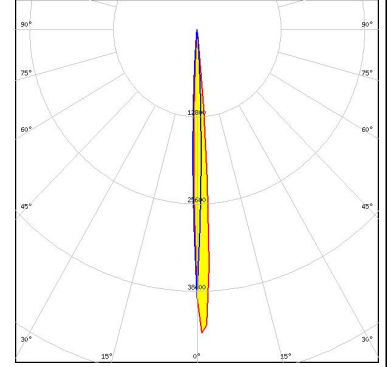
LUMILEDS

LED LUXEON Rubix
 FWHM / FWTM 5.0° / 9.0°
 Efficiency 49 %
 Peak intensity 44.5 cd/lm
 LEDs/each optic 1
 Light colour Blue
 Required components:



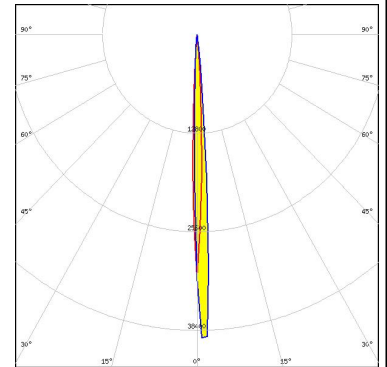
LUMILEDS

LED LUXEON Rubix
 FWHM / FWTM 5.0° / 9.0°
 Efficiency 49 %
 Peak intensity 44.5 cd/lm
 LEDs/each optic 1
 Light colour Green
 Required components:



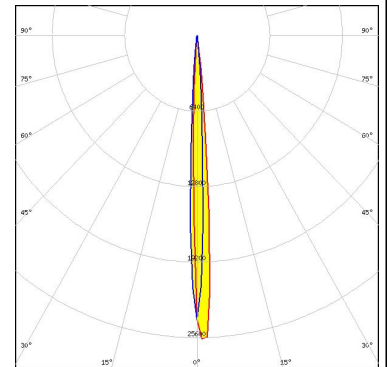
LUMILEDS

LED LUXEON V2
 FWHM / FWTM 4.8° / 9.5°
 Efficiency 46 %
 Peak intensity 39.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


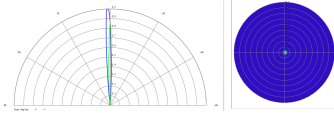
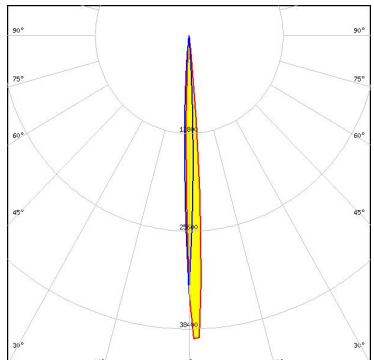

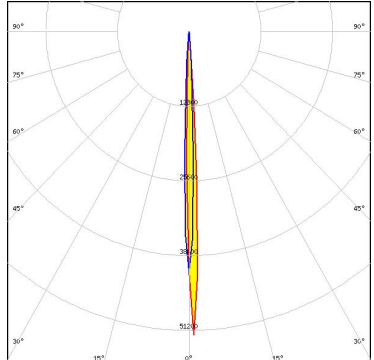

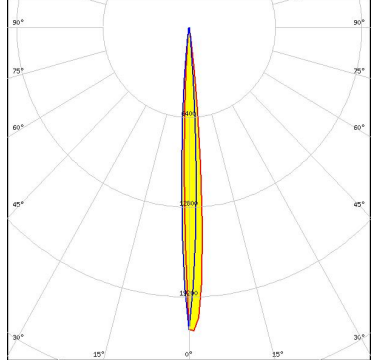

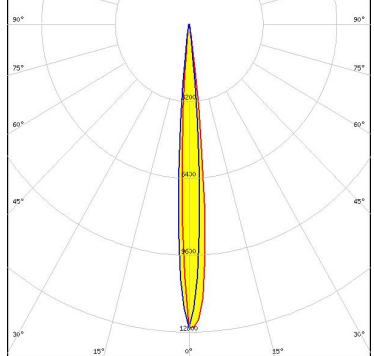


LUMINUS

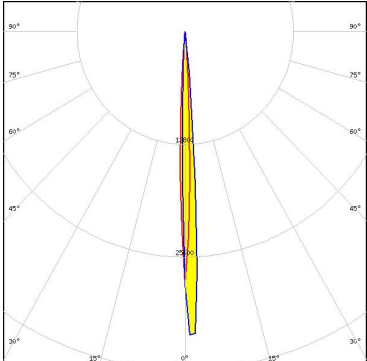
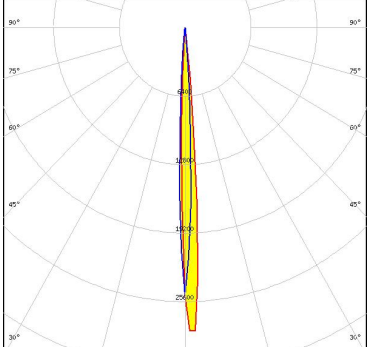
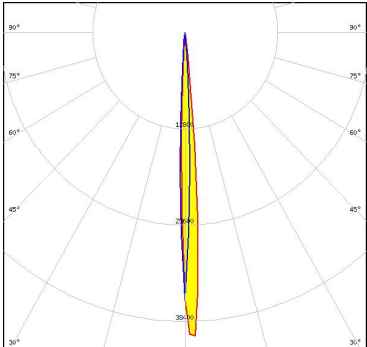
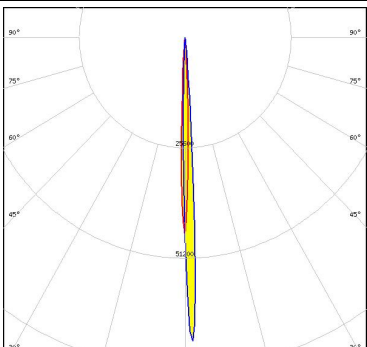
LED SBT-90
 FWHM / FWTM 6.0° / 11.0°
 Efficiency 44 %
 Peak intensity 26 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

 <p>LED SST-10-B130 FWHM / FWTM 4.0° / 9.0° Efficiency 45 % LEDs/each optic 1 Light colour IR Required components:</p>		
 <p>LED NF2x757G FWHM / FWTM 4.6° / 9.2° Efficiency 50 % Peak intensity 52.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
 <p>LED NV4WB35AM FWHM / FWTM 7.0° / 13.0° Efficiency 46 % Peak intensity 21.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
 <p>LED NV4x144A FWHM / FWTM 9.0° / 15.0° Efficiency 44 % Peak intensity 12.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NVSW3x9A FWHM / FWTM 2.4° / 4.8° Efficiency 44 % Peak intensity 34.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSW519A FWHM / FWTM 5.0° / 10.0° Efficiency 45 % Peak intensity 28.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSOLON Black Flat (LUW HWQP) FWHM / FWTM 4.5° / 11.0° Efficiency 50 % Peak intensity 40.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSOLON Square EC FWHM / FWTM 4.0° / 8.0° Efficiency 57 % Peak intensity 68 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

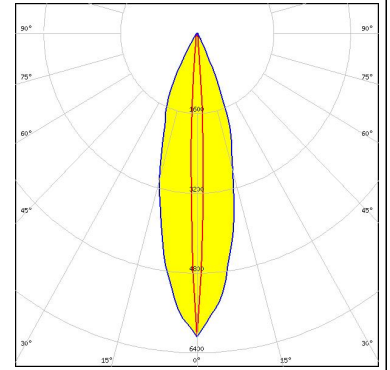
OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED: OSLOM SSL 150</p> <p>FWHM / FWTM: 5.0° / 10.0°</p> <p>Efficiency: 41 %</p> <p>Peak intensity: 31.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Red</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSTAR Stage (S2WM)</p> <p>FWHM / FWTM: 32.0 + 4.0° / 56.0 + 12.0°</p> <p>Efficiency: 47 %</p> <p>Peak intensity: 4.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components: F16629_LEIA-SUB-O</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSTAR Stage (S2WM)</p> <p>FWHM / FWTM: 6.0° / 11.0°</p> <p>Efficiency: 49 %</p> <p>Peak intensity: 35.2 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: SFH 4715AS</p> <p>FWHM / FWTM: 4.0° / 9.0°</p> <p>Efficiency: 47 %</p> <p>LEDs/each optic: 1</p> <p>Light colour: IR</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 29.0 + 4.0° / 56.0 + 12.0°
Efficiency 53 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM Opto Semiconductors

LED SFH 4716AS
FWHM / FWTM 5.0° / 9.0°
Efficiency 36 %
LEDs/each optic 1
Light colour IR
Required components:

