

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	

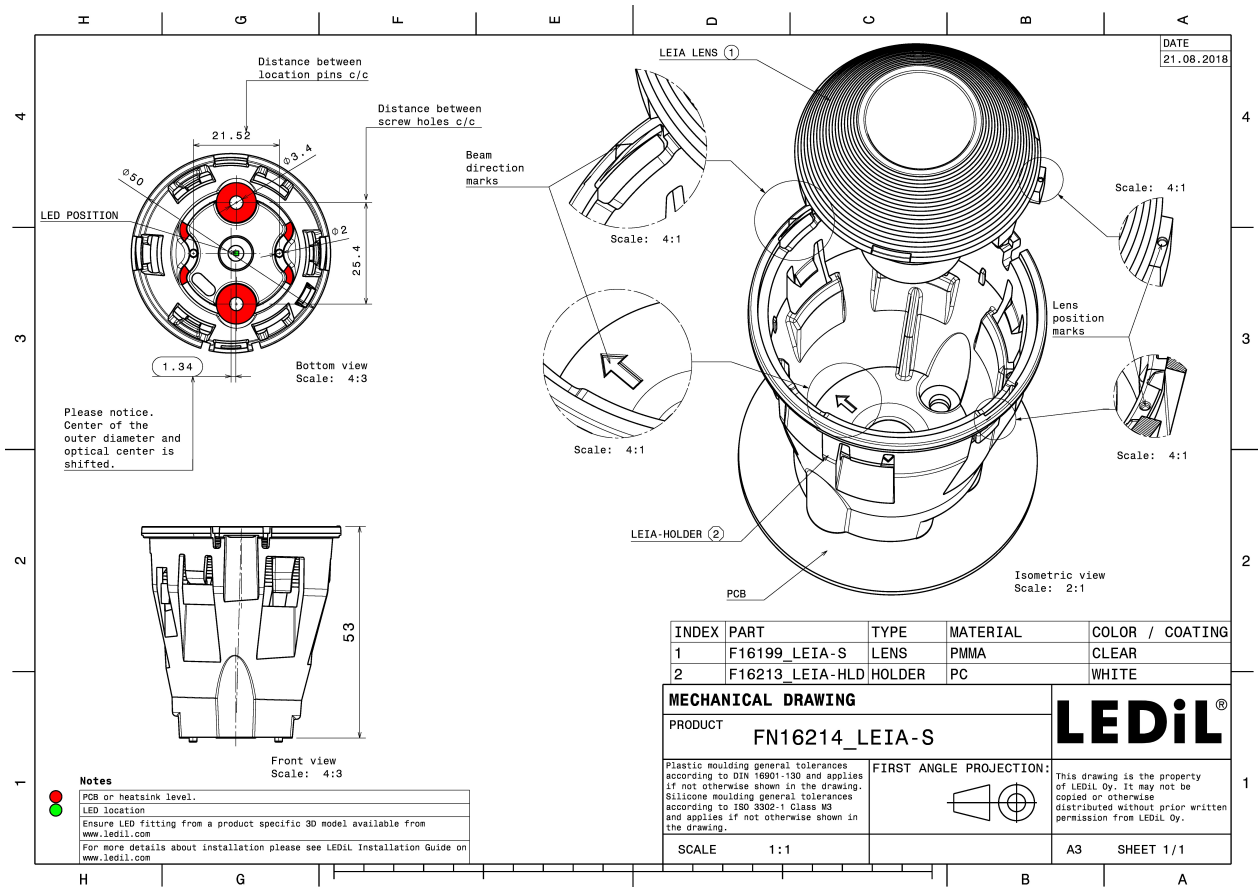


ORDERING INFORMATION:

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					

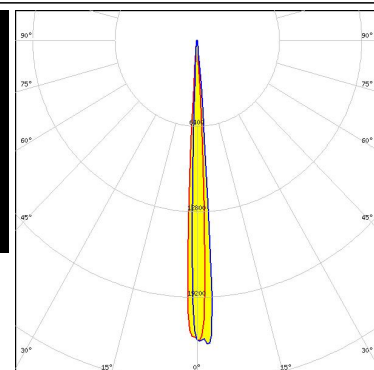


See also our general installation guide: www.ledil.com/installation_guide

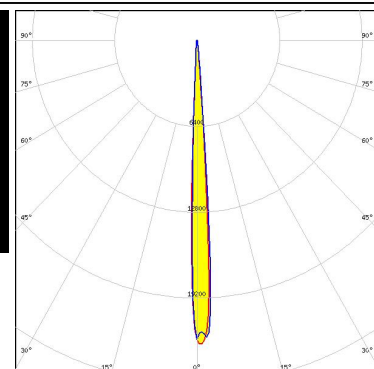
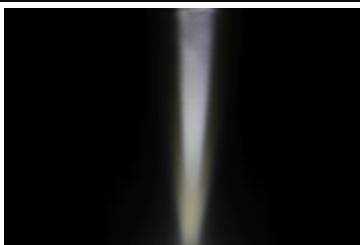
OPTICAL RESULTS (MEASURED):



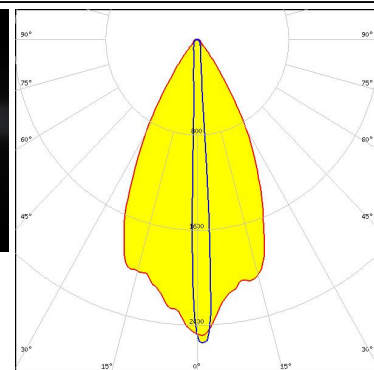
LED XHP35 HD
FWHM / FWTM 6.0° / 9.0°
Efficiency 49 %
Peak intensity 22.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



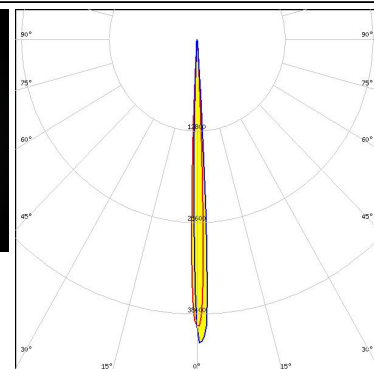
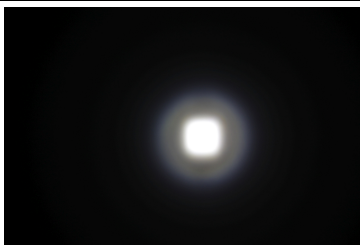
LED XHP35 HD
FWHM / FWTM 6.0° / 9.0°
Efficiency 50 %
Peak intensity 22.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



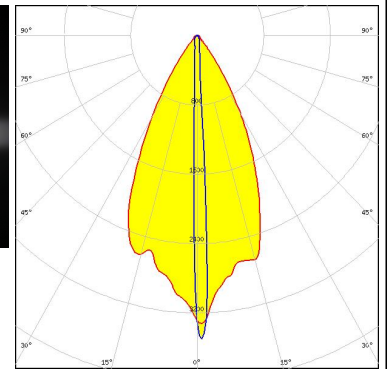
LED XHP35 HI
FWHM / FWTM 4.0° / 7.0°
Efficiency 52 %
Peak intensity 43.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



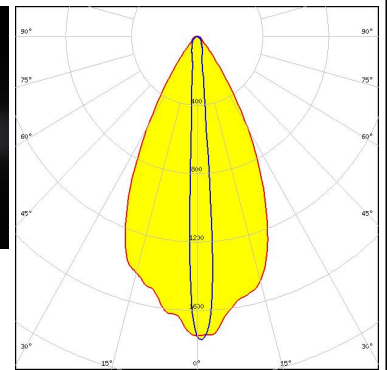
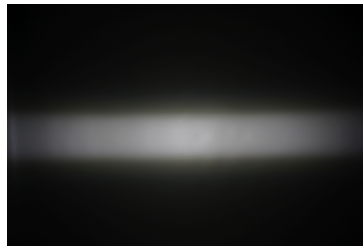
OPTICAL RESULTS (MEASURED):



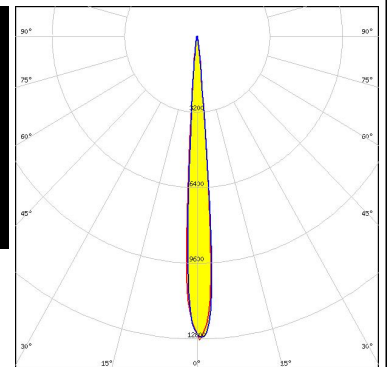
LED XHP35 HI
FWHM / FWTM 50.0 + 5.0° / 76.0 + 11.0°
Efficiency 47 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



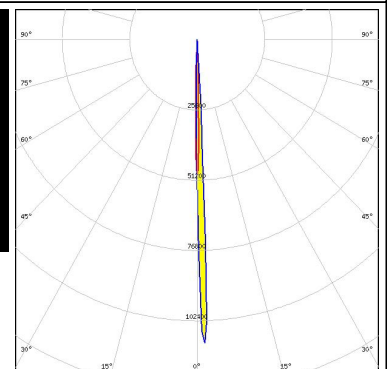
LED XHP50.2
FWHM / FWTM 52.0 + 8.0° / 78.0 + 20.0°
Efficiency 42 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



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:



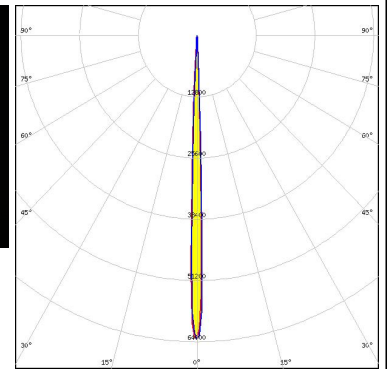
LED XP-E2
FWHM / FWTM 2.6° / 5.7°
Efficiency 59 %
Peak intensity 128.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



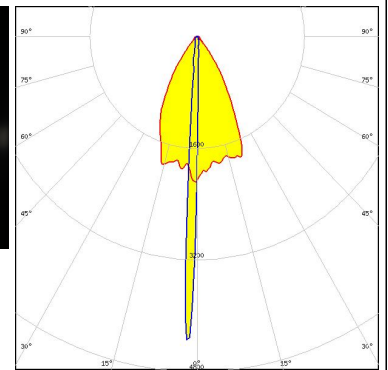
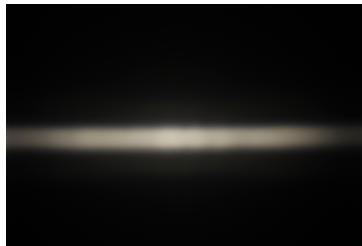
OPTICAL RESULTS (MEASURED):



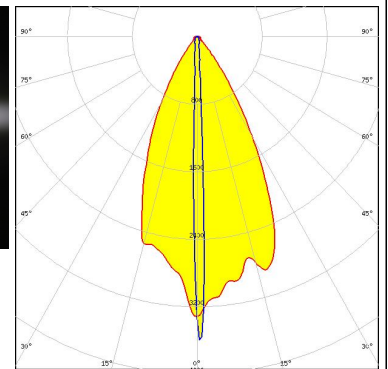
LED XP-G2
FWHM / FWTM 4.0° / 6.0°
Efficiency 50 %
Peak intensity 63.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



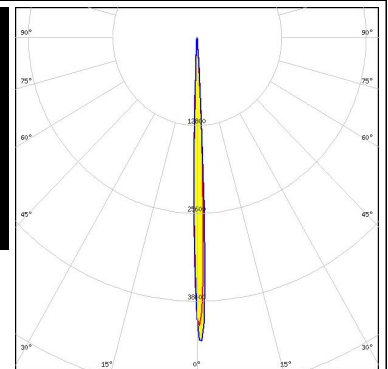
LED XP-G2
FWHM / FWTM 57.0 + 4.0° / 82.0 + 9.0°
Efficiency 40 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



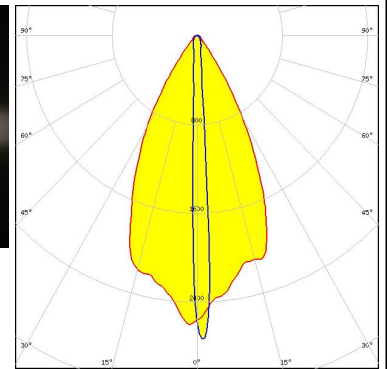
LED XP-G3
FWHM / FWTM 4.0° / 7.0°
Efficiency 51 %
Peak intensity 48.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



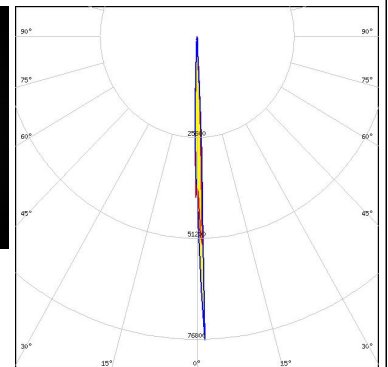
OPTICAL RESULTS (MEASURED):



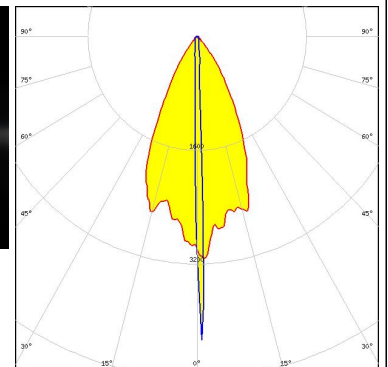
LED XP-L2
FWHM / FWTM 51.0 + 6.0° / 77.0 + 16.0°
Efficiency 49 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



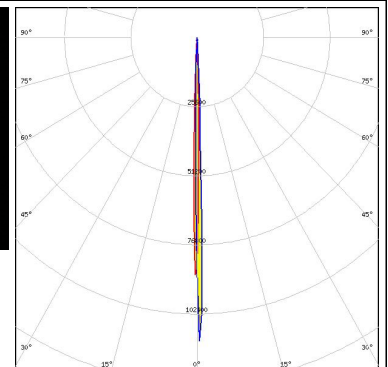
LED XQ-E HD
FWHM / FWTM 3.0° / 6.0°
Efficiency 47 %
Peak intensity 91 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



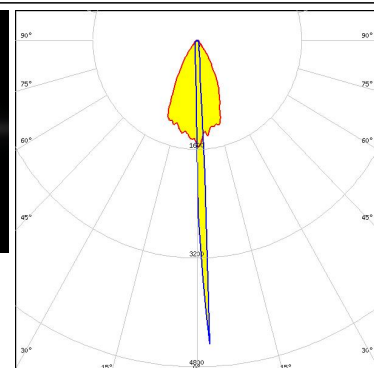
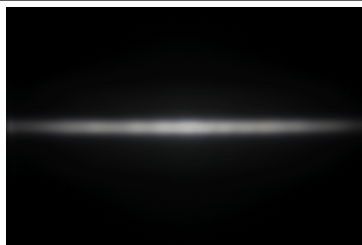
LED XQ-E HI
FWHM / FWTM 2.0° / 4.0°
Efficiency 48 %
Peak intensity 112.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



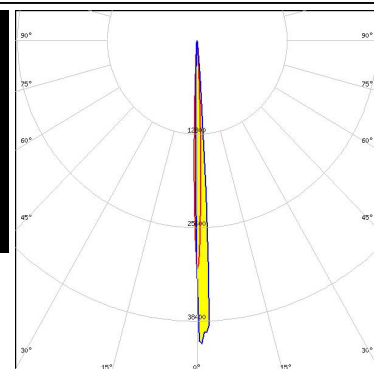
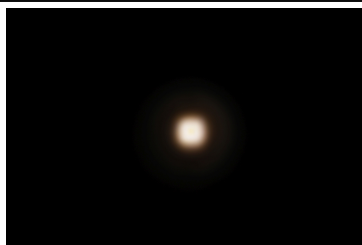
OPTICAL RESULTS (MEASURED):



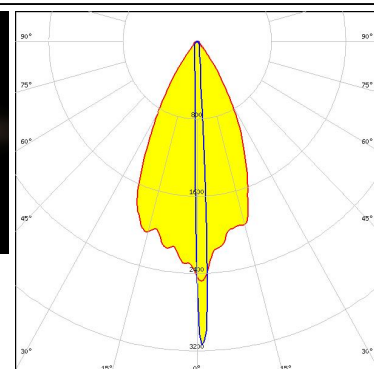
LED XQ-E HI
FWHM / FWTM 52.0 + 3.0° / 79.0 + 9.0°
Efficiency 44 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



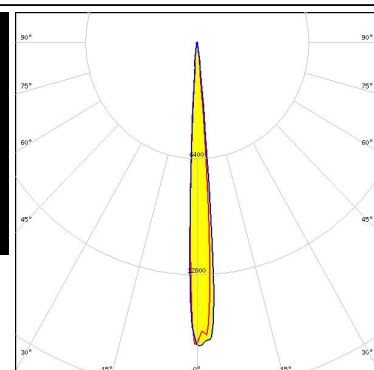
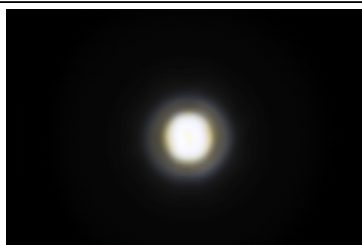
LED XT-E
FWHM / FWTM 4.0° / 7.0°
Efficiency 49 %
Peak intensity 42.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



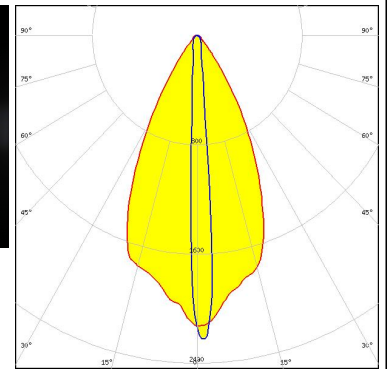
LED LUXEON 5050 Round LES
FWHM / FWTM 7.0° / 11.0°
Efficiency 51 %
Peak intensity 16.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



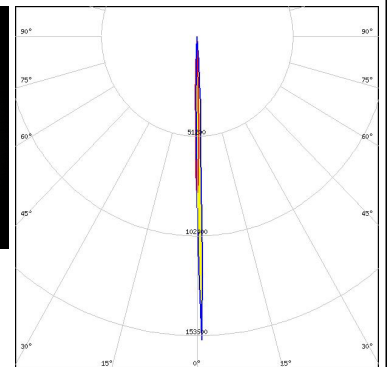
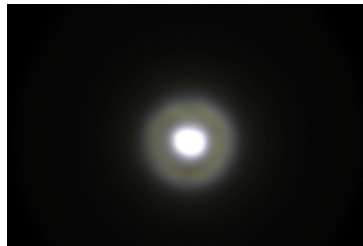
OPTICAL RESULTS (MEASURED):



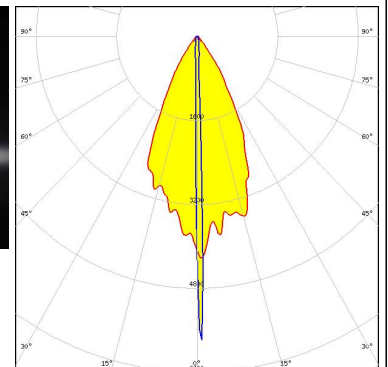
LED LUXEON 5050 Round LES
FWHM / FWTM 51.0 + 7.0° / 78.0 + 18.0°
Efficiency 46 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



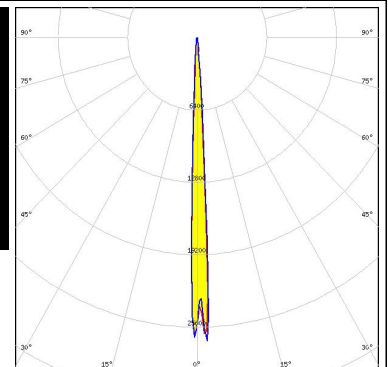
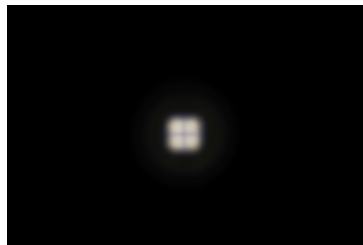
LED LUXEON CZ
FWHM / FWTM 2.0° / 5.0°
Efficiency 55 %
Peak intensity 157 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



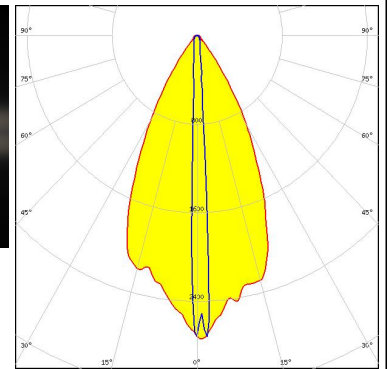
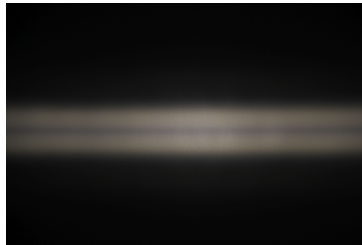
LED LUXEON MZ
FWHM / FWTM 6.0° / 9.0°
Efficiency 49 %
Peak intensity 27.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

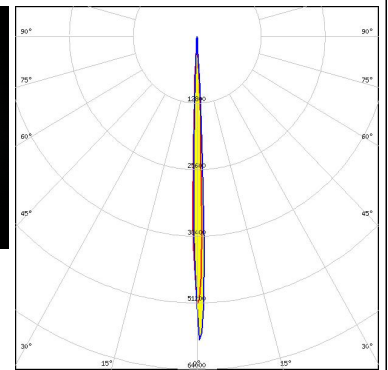
LUMILEDS

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



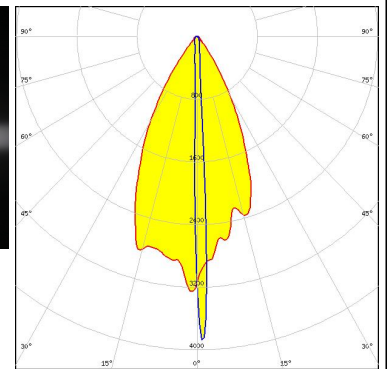
LUMILEDS

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



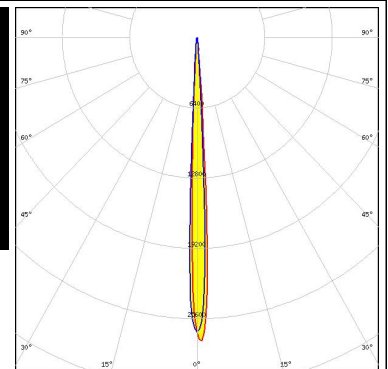
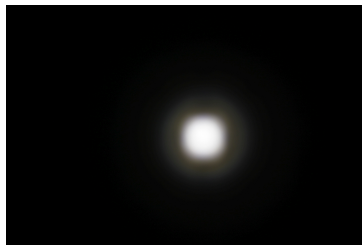
LUMILEDS

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

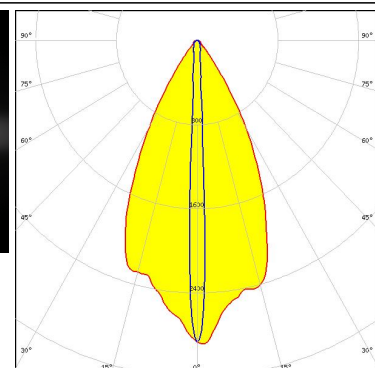
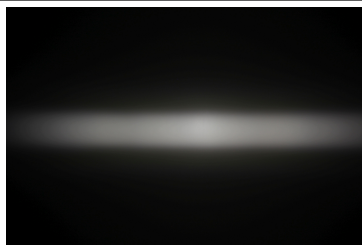
LED LUXEON V
FWHM / FWTM 6.0° / 9.0°
Efficiency 53 %
Peak intensity 27.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

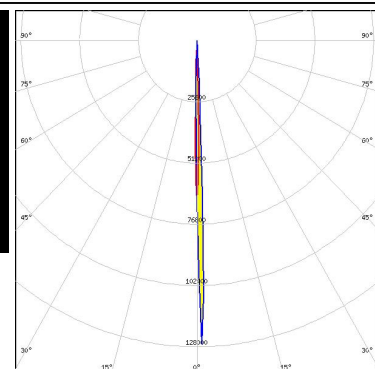
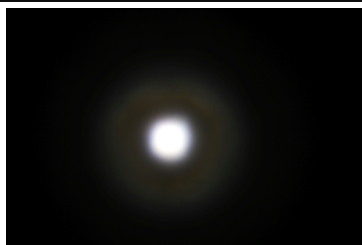
LUMILEDS

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



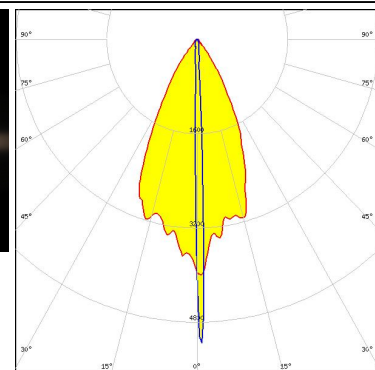
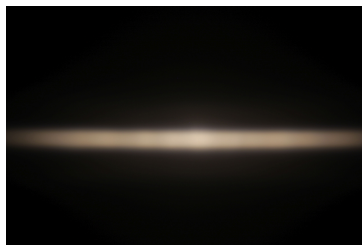
LUMILEDS

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:



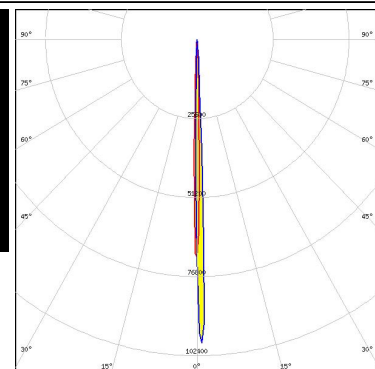
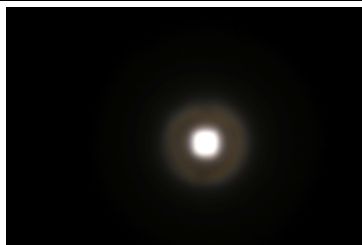
LUMILEDS

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

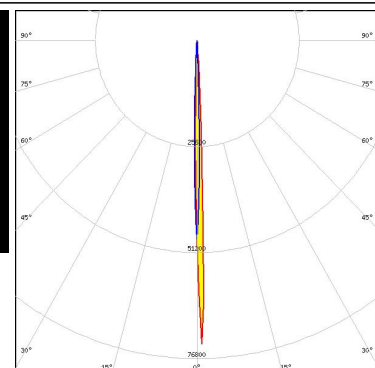
LED LUXEON Z ES
FWHM / FWTM 3.0° / 6.0°
Efficiency 55 %
Peak intensity 98.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



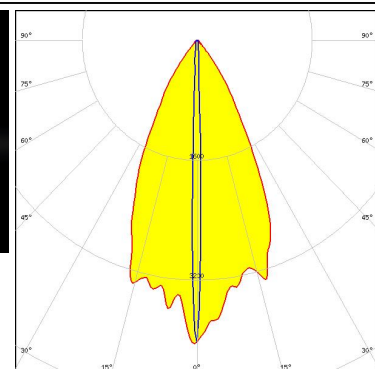
OPTICAL RESULTS (MEASURED):



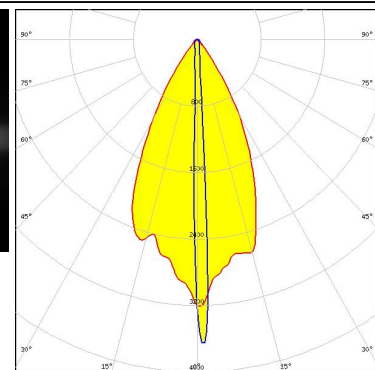
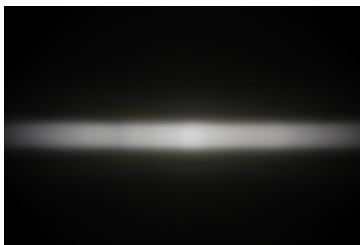
LED NCSxE17A
FWHM / FWTM 3.0° / 6.0°
Efficiency 40 %
Peak intensity 73.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



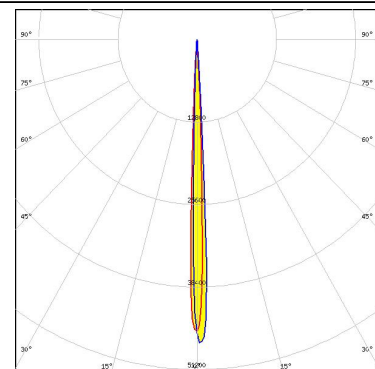
LED NCSxE17A
FWHM / FWTM 50.0 + 3.0° / 77.0 + 7.0°
Efficiency 36 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



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



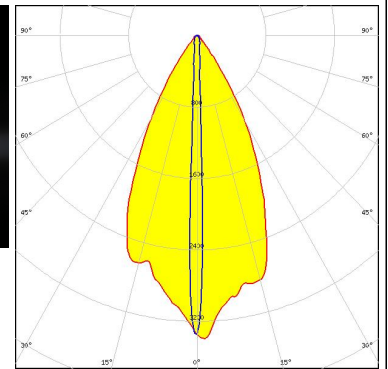
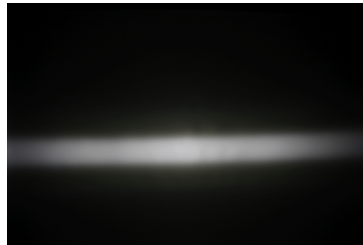
LED NVSW219F
FWHM / FWTM 4.0° / 7.0°
Efficiency 50 %
Peak intensity 47.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



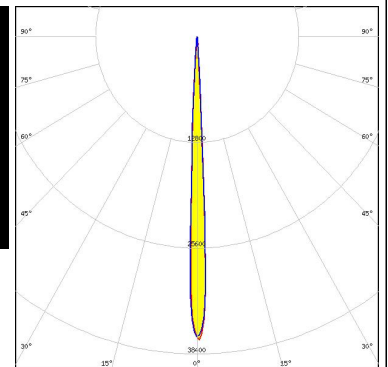
OPTICAL RESULTS (MEASURED):



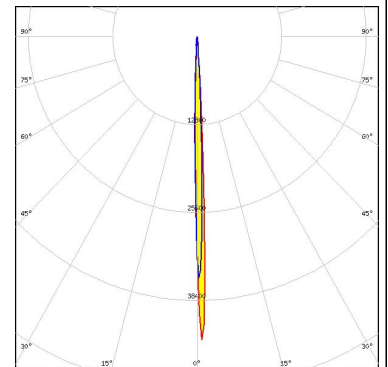
LED NVSW319B
FWHM / FWTM 50.0 + 5.0° / 76.0 + 13.0°
Efficiency 46 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



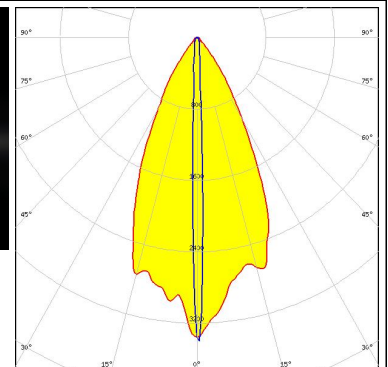
LED NVSW319B
FWHM / FWTM 5.0° / 8.0°
Efficiency 52 %
Peak intensity 36.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



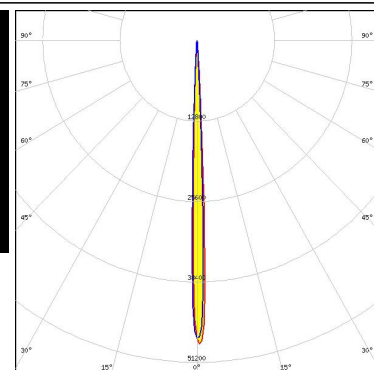
LED NVSxE21A
FWHM / FWTM 49.0 + 4.0° / 77.0 + 13.0°
Efficiency 41 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



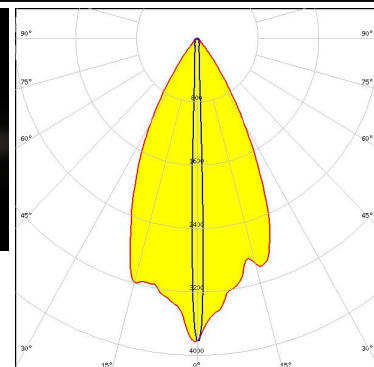
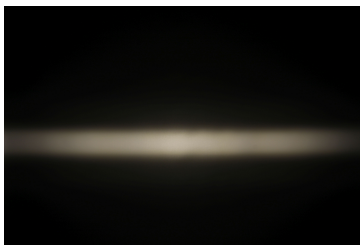
OPTICAL RESULTS (MEASURED):



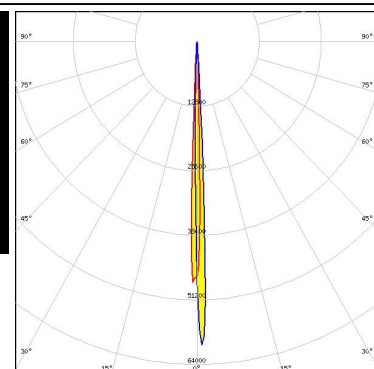
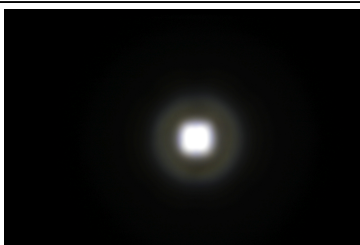
LED NVSxx19B/NVSxx19C
FWHM / FWTM 4.0° / 7.0°
Efficiency 49 %
Peak intensity 48.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



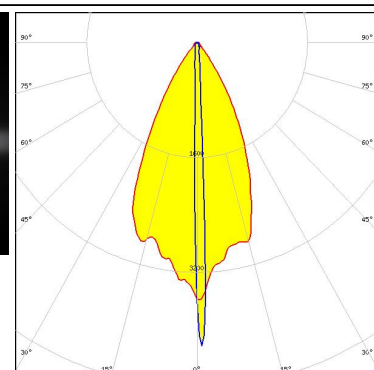
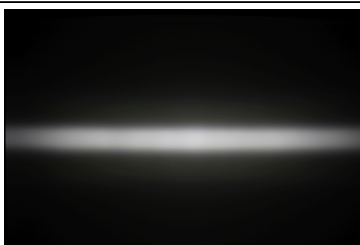
LED NVSxx19B/NVSxx19C
FWHM / FWTM 50.0 + 4.0° / 76.0 + 9.0°
Efficiency 44 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



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:



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:

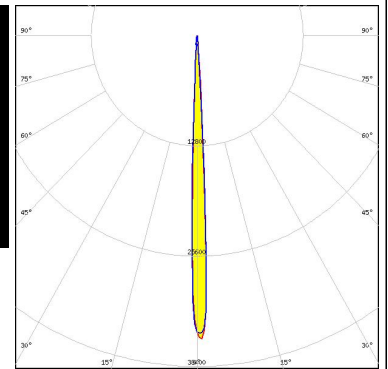


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

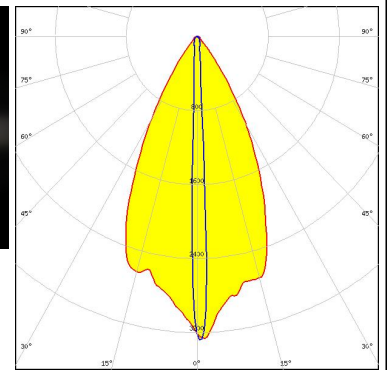
LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 5.0° / 8.0°
Efficiency 53 %
Peak intensity 36 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

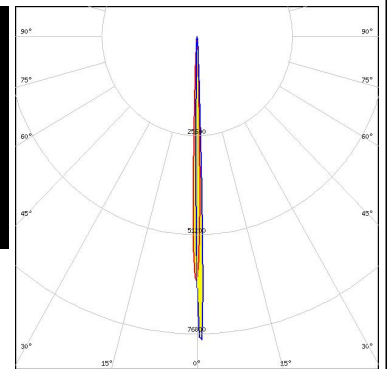
LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 51.0 + 5.0° / 76.0 + 14.0°
Efficiency 48 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

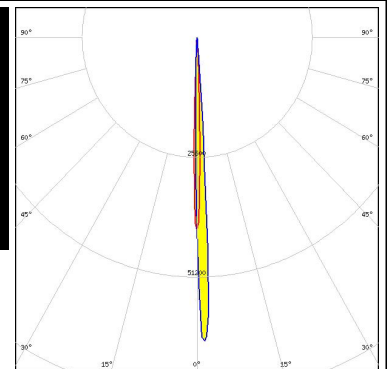
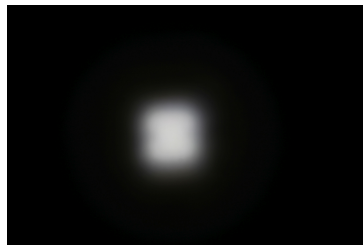
LED OSLON Boost HX (KW CULPM1.TG)
FWHM / FWTM 3.0° / 5.0°
Efficiency 54 %
Peak intensity 96.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED OSLON 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:

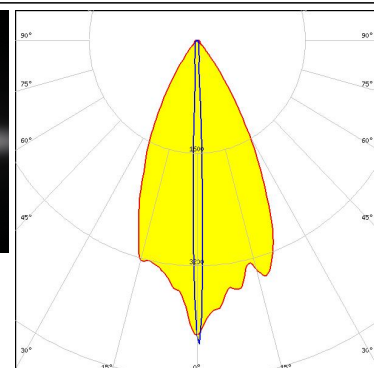


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

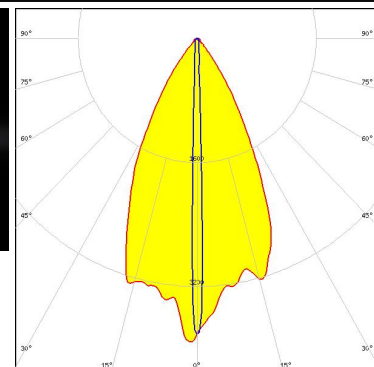
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 50.0 + 4.0° / 75.0 + 8.0°
Efficiency 46 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

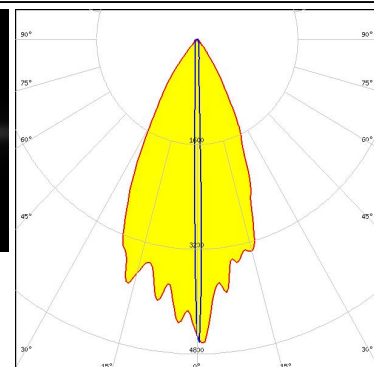
LED OSLON Square PC
FWHM / FWTM 52.0 + 4.0° / 77.0 + 9.0°
Efficiency 42 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

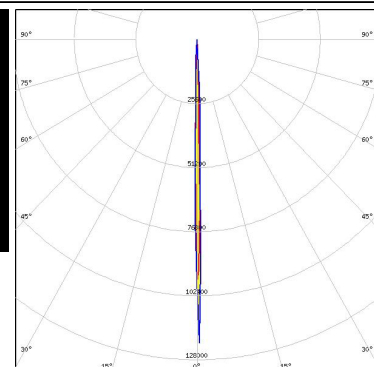
LED OSLON SSL 150
FWHM / FWTM 47.0 + 3.0° / 73.0 + 7.0°
Efficiency 40 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

LED OSLON SSL 150
FWHM / FWTM 2.0° / 5.0°
Efficiency 46 %
Peak intensity 122 cd/lm
LEDs/each optic 1
Light colour White
Required components:

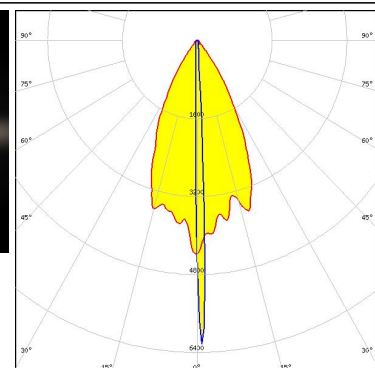
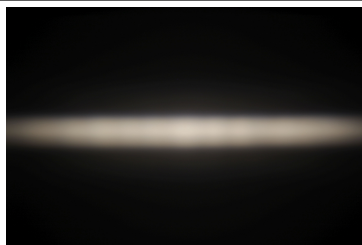


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

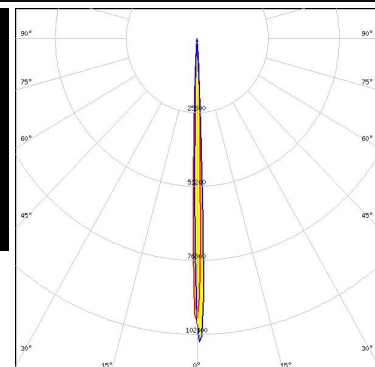
LED OSLON SSL 80
FWHM / FWTM 51.0 + 3.0° / 77.0 + 7.0°
Efficiency 56 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

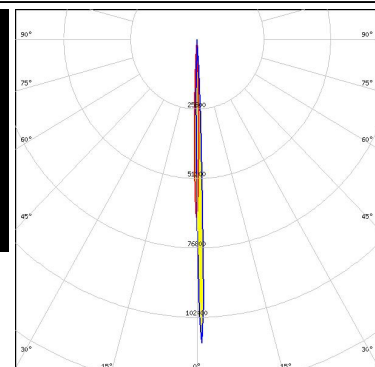
LED OSLON SSL 80
FWHM / FWTM 3.0° / 6.0°
Efficiency 62 %
Peak intensity 106.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

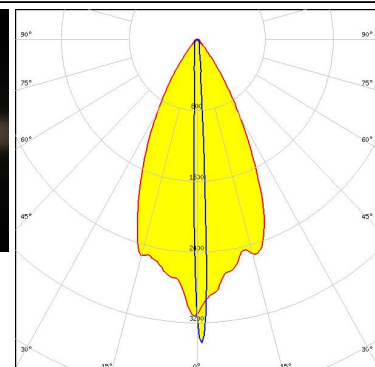
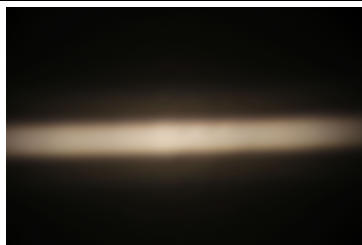
Opto Semiconductors

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

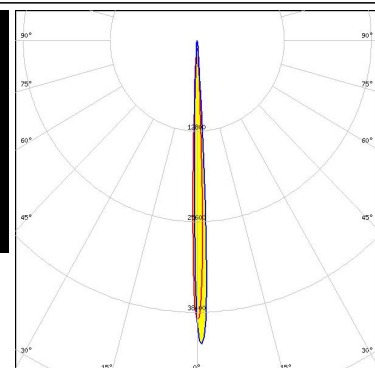
LED LH231B
FWHM / FWTM 50.0 + 4.0° / 76.0 + 13.0°
Efficiency 46 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OPTICAL RESULTS (MEASURED):

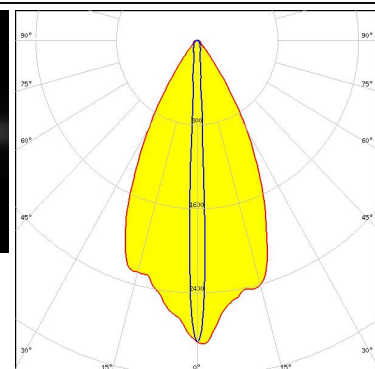
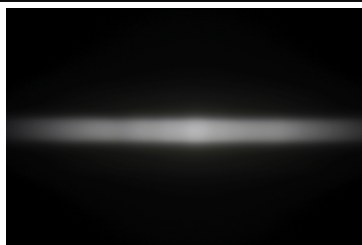
SAMSUNG

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:



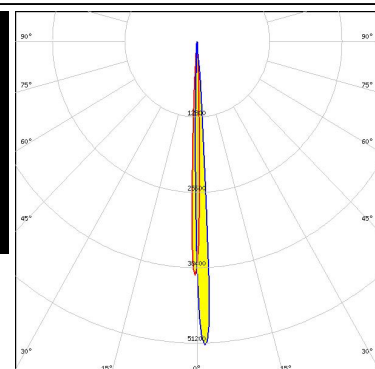
SAMSUNG

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-0



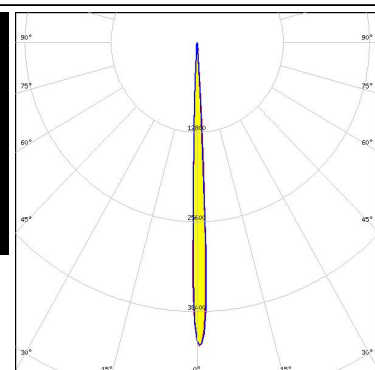
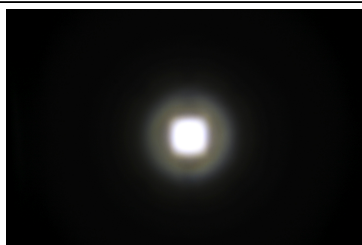
SAMSUNG

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

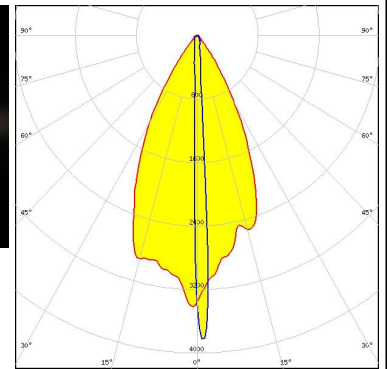
LED LH351C
FWHM / FWTM 4.0° / 7.0°
Efficiency 57 %
Peak intensity 46.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

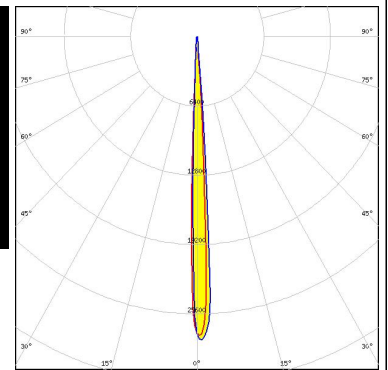
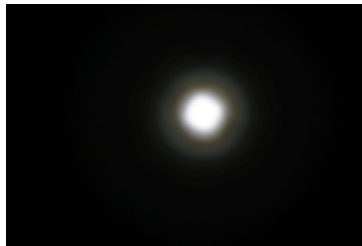
SAMSUNG

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:



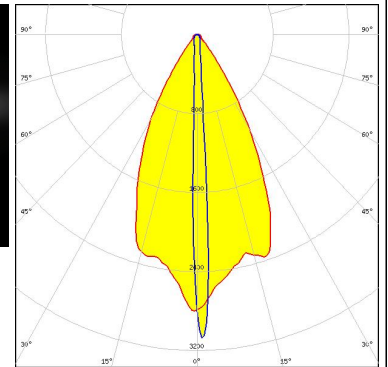
SAMSUNG

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



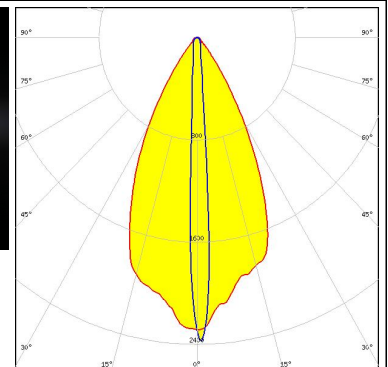
SAMSUNG

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

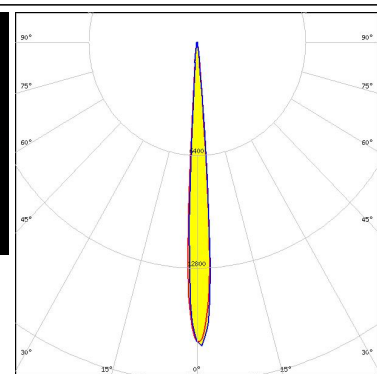
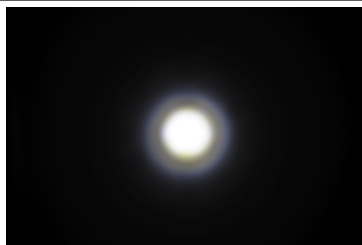
LED LH508A
FWHM / FWTM 52.0 + 7.0° / 78.0 + 17.0°
Efficiency 45 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OPTICAL RESULTS (MEASURED):

SAMSUNG

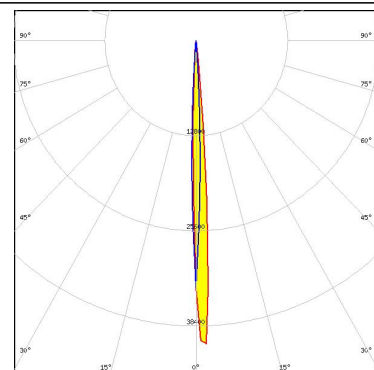
LED LH508A
FWHM / FWTM 7.0° / 11.0°
Efficiency 50 %
Peak intensity 17.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



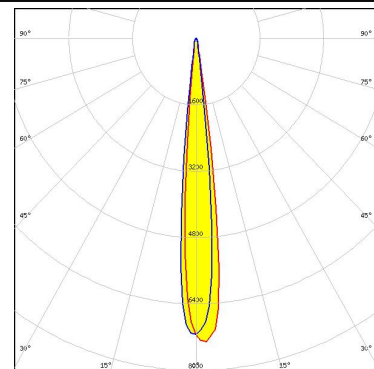
OPTICAL RESULTS (SIMULATED):



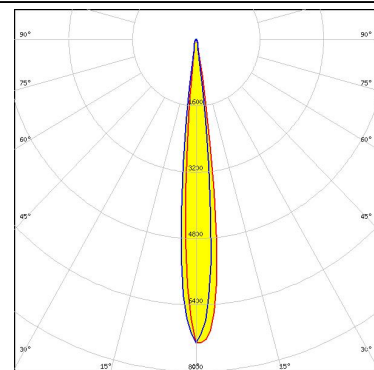
LED XE-G
FWHM / FWTM 5.0° / 10.0°
Efficiency 47 %
Peak intensity 40.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



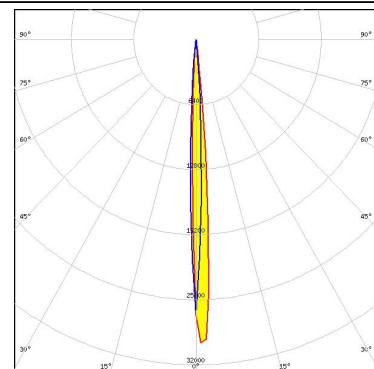
LED XHP70.2
FWHM / FWTM 12.0° / 18.0°
Efficiency 48 %
Peak intensity 7.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XHP70.3 HD
FWHM / FWTM 11.0° / 19.0°
Efficiency 47 %
Peak intensity 7.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



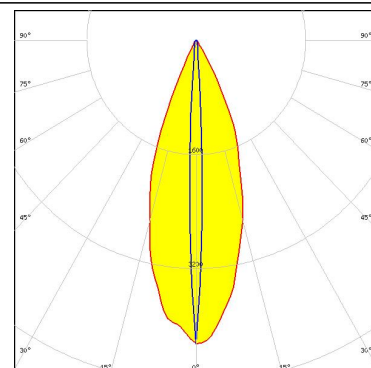
LED XP-G2 HE
FWHM / FWTM 5.0° / 11.0°
Efficiency 48 %
Peak intensity 29.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



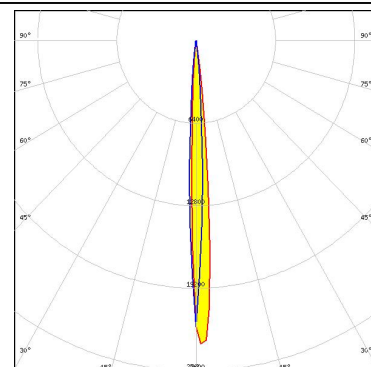
OPTICAL RESULTS (SIMULATED):



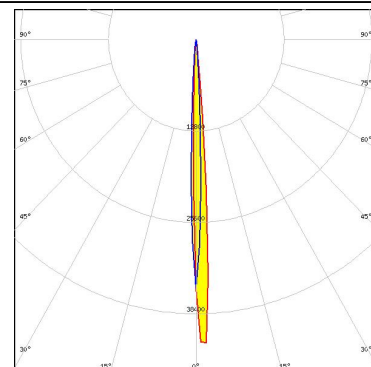
LED XP-G2 HE
FWHM / FWTM 36.0 + 5.0° / 58.0 + 12.0°
Efficiency 44 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



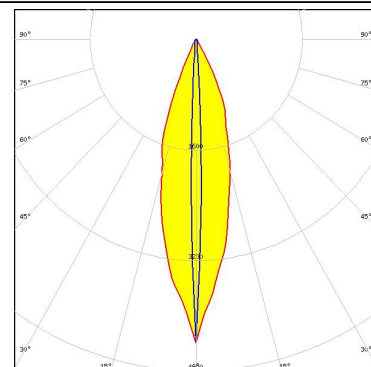
LED XP-L HD
FWHM / FWTM 6.3° / 12.9°
Efficiency 51 %
Peak intensity 23.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



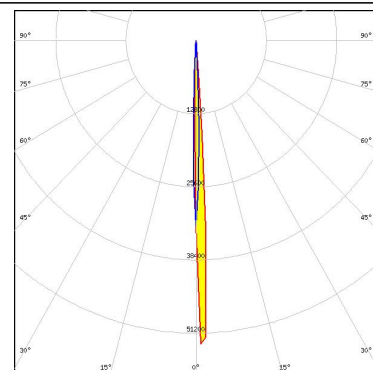
LED LUXEON C
FWHM / FWTM 27.0 + 4.0° / 54.0 + 10.0°
Efficiency 35 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour Red
Required components:
F16629_LEIA-SUB-O



OPTICAL RESULTS (SIMULATED):

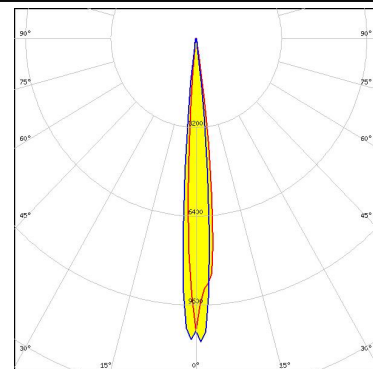
LUMILEDS

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:



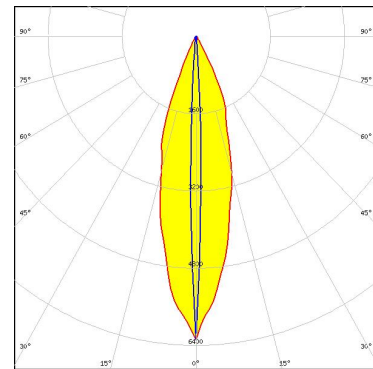
LUMILEDS

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:



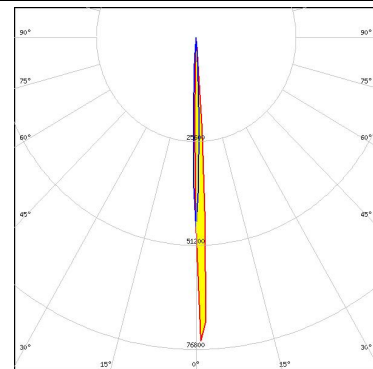
LUMILEDS

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

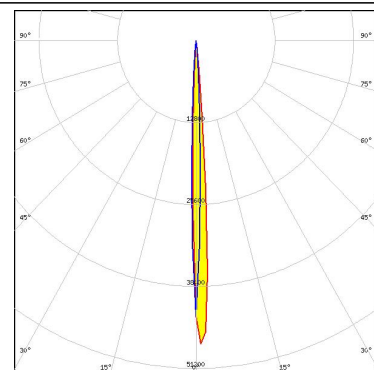
LED LUXEON Rubix
FWHM / FWTM 4.0° / 7.0°
Efficiency 45 %
Peak intensity 74.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

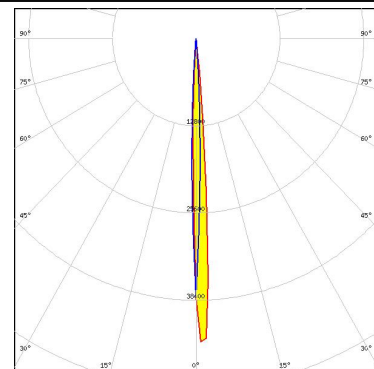
LUMILEDS

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:



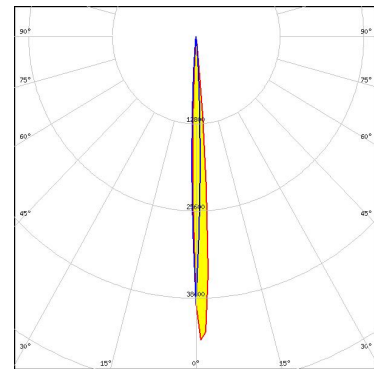
LUMILEDS

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:



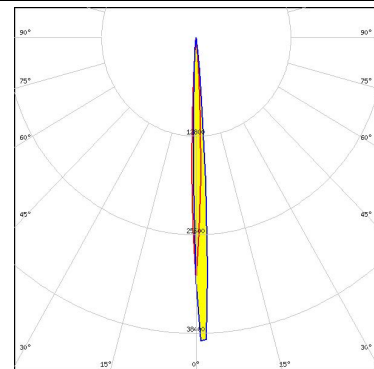
LUMILEDS

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

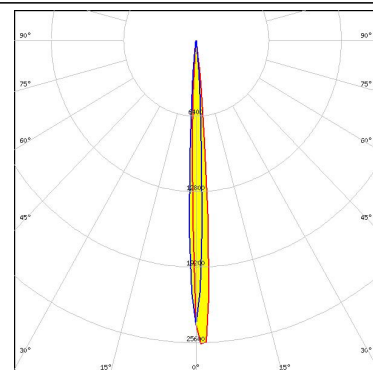
LED LUXEON V2
FWHM / FWTM 4.8° / 9.5°
Efficiency 46 %
Peak intensity 39.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



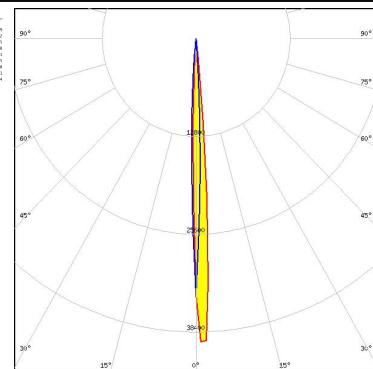
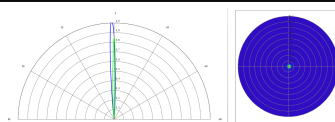
OPTICAL RESULTS (SIMULATED):



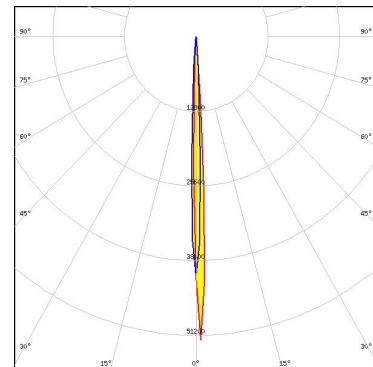
LED SBT-90
FWHM / FWTM 6.0° / 11.0°
Efficiency 44 %
Peak intensity 26 cd/lm
LEDs/each optic 1
Light colour White
Required components:



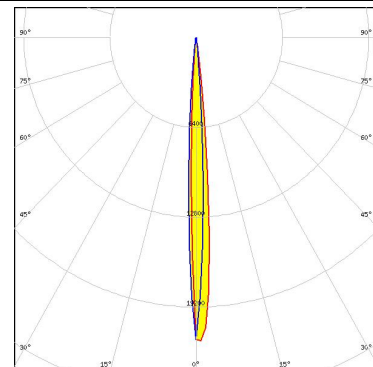
LED SST-10-B130
FWHM / FWTM 4.0° / 9.0°
Efficiency 45 %
LEDs/each optic 1
Light colour IR
Required components:



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:



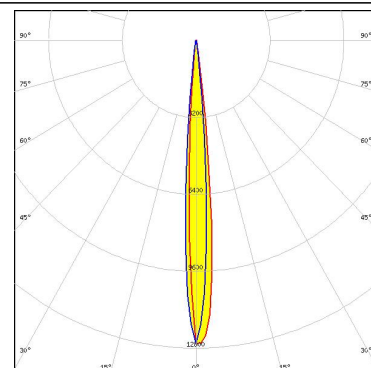
LED NV4WB35AM
FWHM / FWTM 7.0° / 13.0°
Efficiency 46 %
Peak intensity 21.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



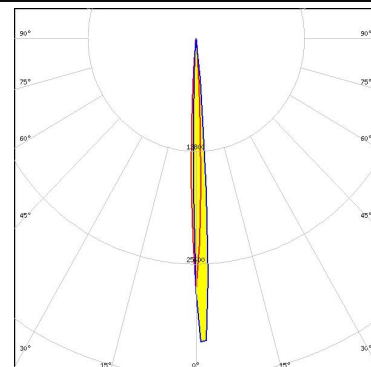
OPTICAL RESULTS (SIMULATED):



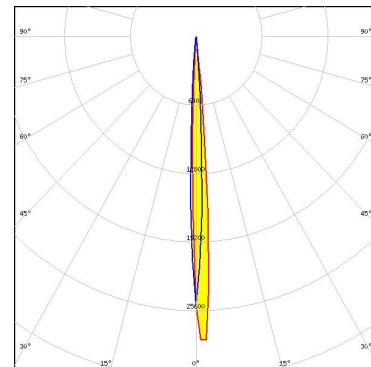
LED NV4x144A
FWHM / FWTM 9.0° / 15.0°
Efficiency 44 %
Peak intensity 12.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



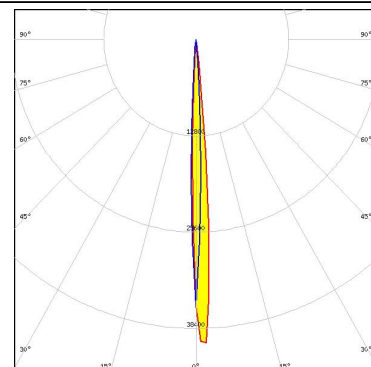
LED NVSW3x9A
FWHM / FWTM 2.4° / 4.8°
Efficiency 44 %
Peak intensity 34.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



LED OSLOM 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:

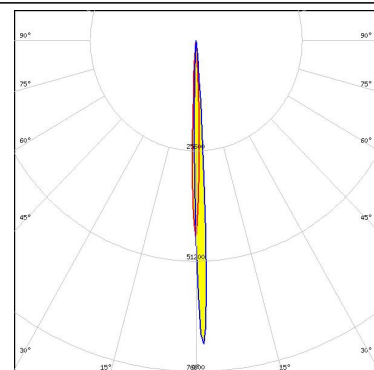


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

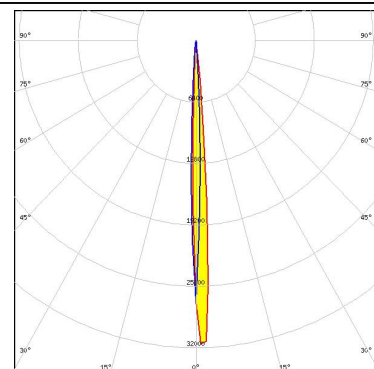
LED OSLON Square EC
FWHM / FWTM 4.0° / 8.0°
Efficiency 57 %
Peak intensity 68 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

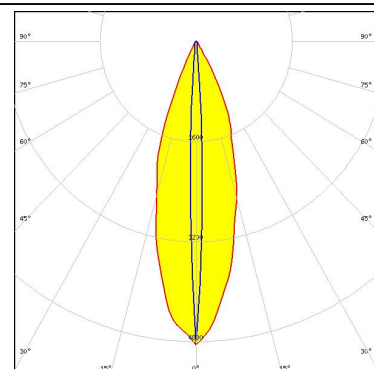
LED OSLON SSL 150
FWHM / FWTM 5.0° / 10.0°
Efficiency 41 %
Peak intensity 31.6 cd/lm
LEDs/each optic 1
Light colour Red
Required components:



OSRAM

Opto Semiconductors

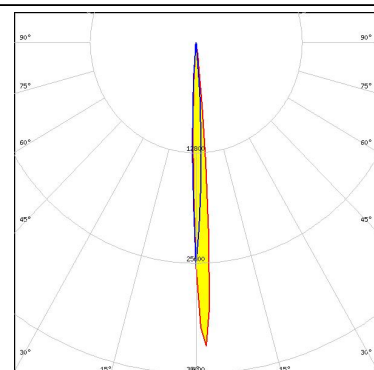
LED OSTAR Stage (S2WM)
FWHM / FWTM 32.0 + 4.0° / 56.0 + 12.0°
Efficiency 47 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

LED OSTAR Stage (S2WM)
FWHM / FWTM 6.0° / 11.0°
Efficiency 49 %
Peak intensity 35.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

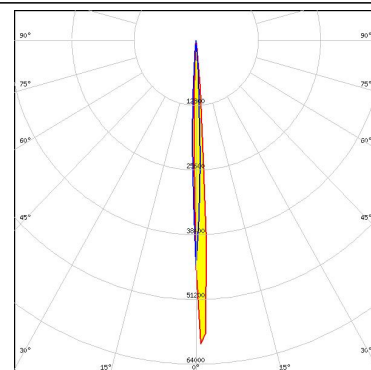


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

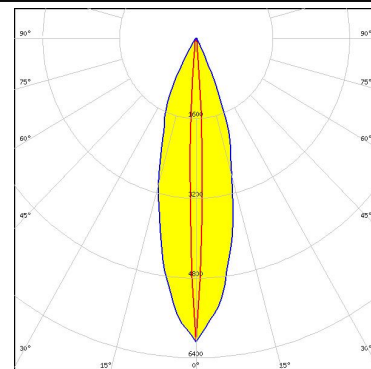
LED SFH 4715AS
FWHM / FWTM 4.0° / 9.0°
Efficiency 47 %
LEDs/each optic 1
Light colour IR
Required components:



OSRAM

Opto Semiconductors

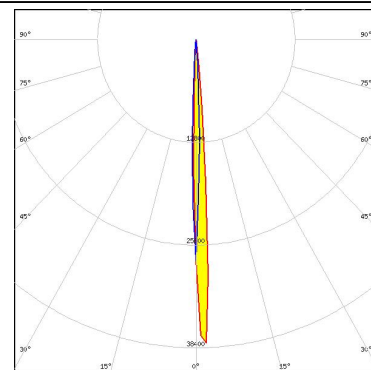
LED SFH 4715AS
FWHM / FWTM 29.0 + 4.0° / 56.0 + 12.0°
Efficiency 53 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

Opto Semiconductors

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



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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