


LEIA-S

~3° spot beam

TECHNICAL SPECIFICATIONS:

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

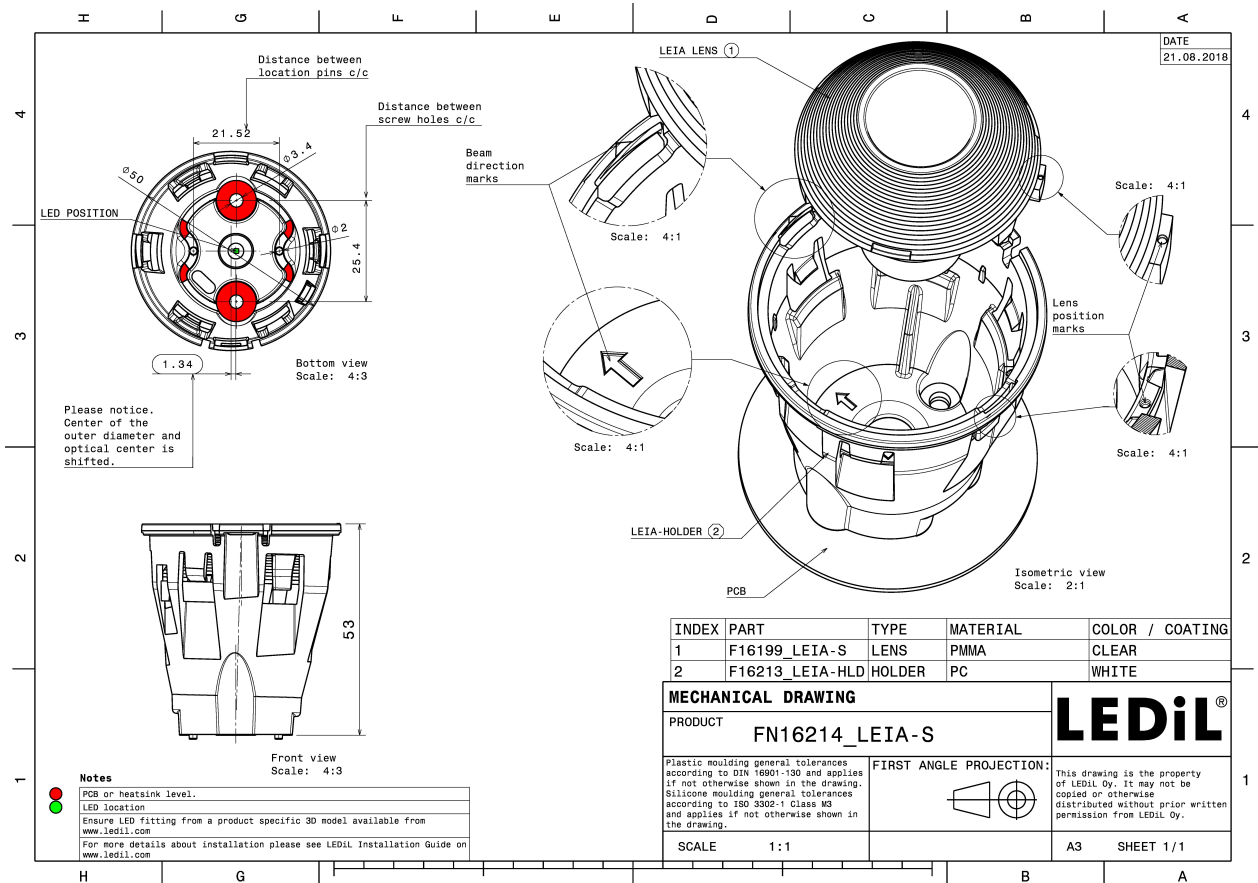
MATERIAL SPECIFICATIONS:

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



ORDERING INFORMATION:

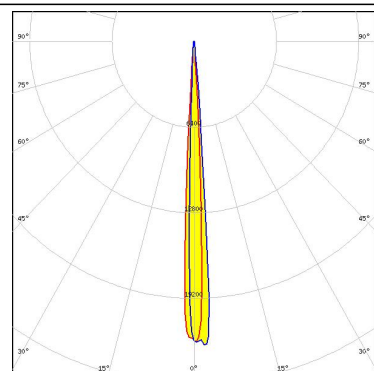
Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN16214_LEIA-S	Single lens	240	80	40	0.0
» Box size:					



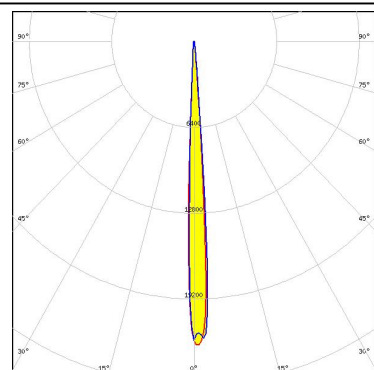
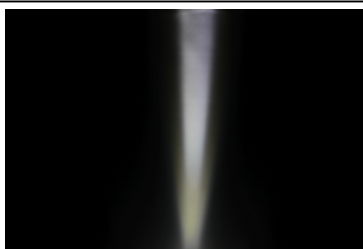
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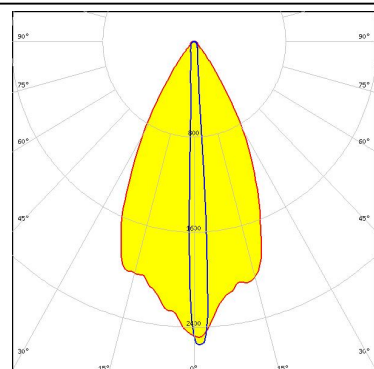
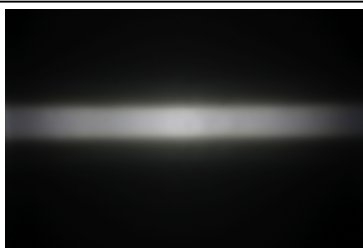
LED XHP35 HD
FWHM 6.0°
Efficiency 49 %
Peak intensity 22.8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



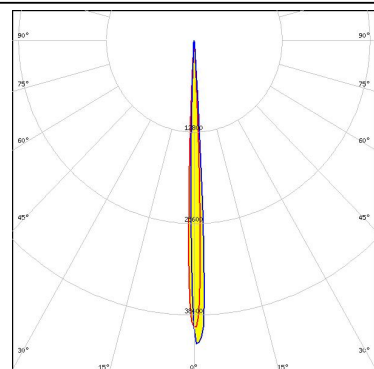
LED XHP35 HD
FWHM 6.0°
Efficiency 50 %
Peak intensity 22.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LED XHP35 HD
FWHM 52.0 + 6.0°
Efficiency 45 %
Peak intensity 2.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



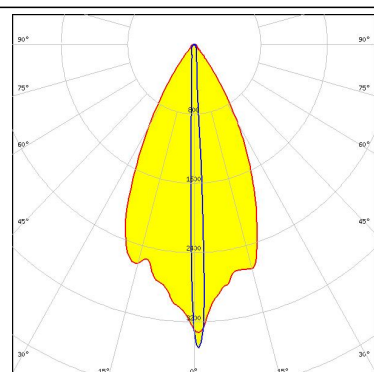
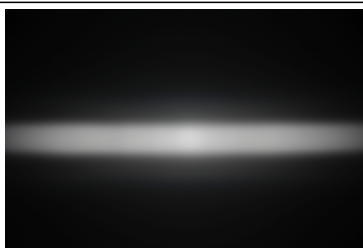
LED XHP35 HI
FWHM 4.0°
Efficiency 52 %
Peak intensity 43.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



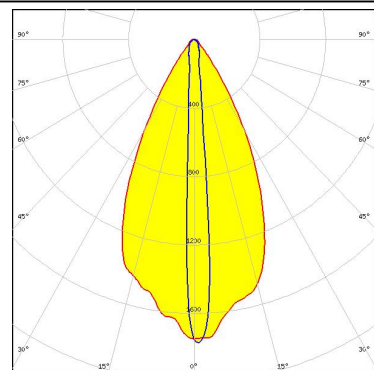
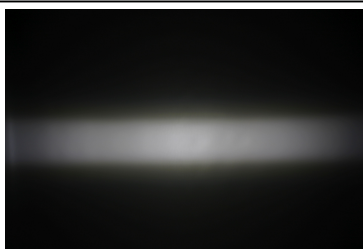
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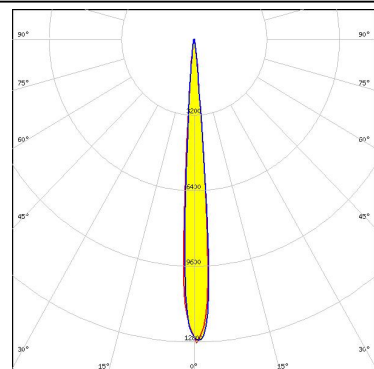
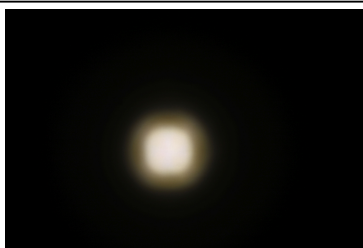
LED XHP35 HI
FWHM 50.0 + 5.0°
Efficiency 47 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



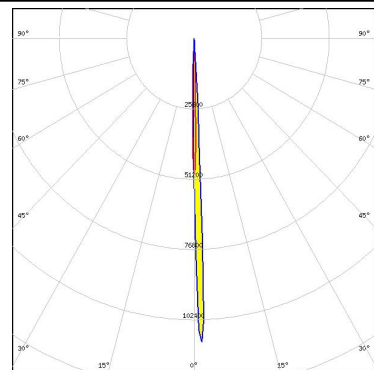
LED XHP50.2
FWHM 52.0 + 8.0°
Efficiency 42 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



LED XHP50.2
FWHM 8.0°
Efficiency 48 %
Peak intensity 13 cd/lm
LEDs/each optic 1
Light colour White
Required components:



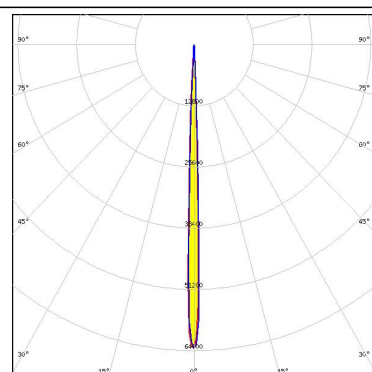
LED XP-E2
FWHM 2.6°
Efficiency 59 %
Peak intensity 128.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



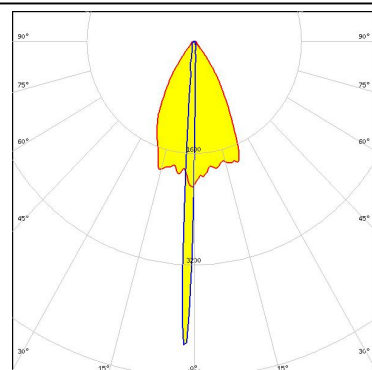
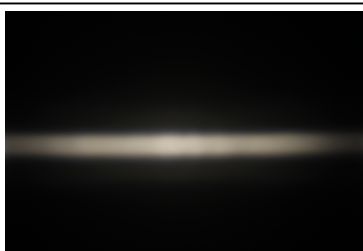
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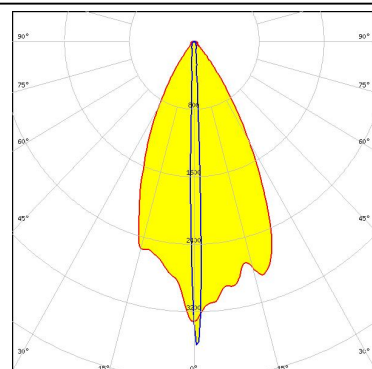
LED XP-G2
FWHM 4.0°
Efficiency 50 %
Peak intensity 63.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



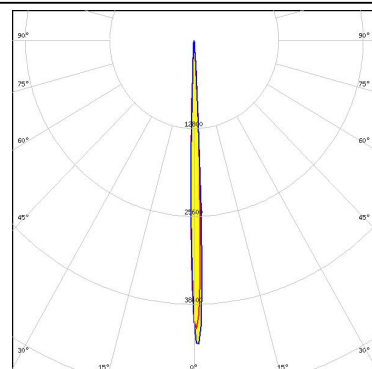
LED XP-G2
FWHM 57.0 + 4.0°
Efficiency 40 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



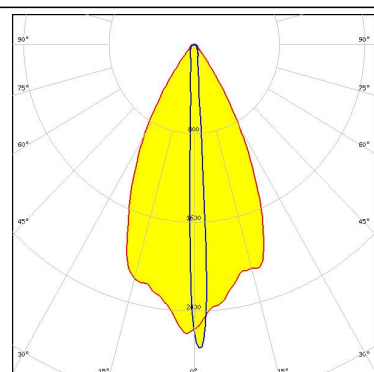
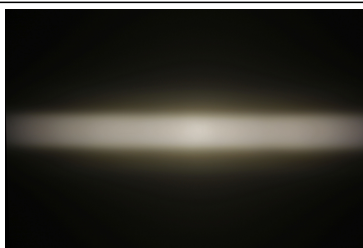
LED XP-G3
FWHM 4.0°
Efficiency 51 %
Peak intensity 48.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



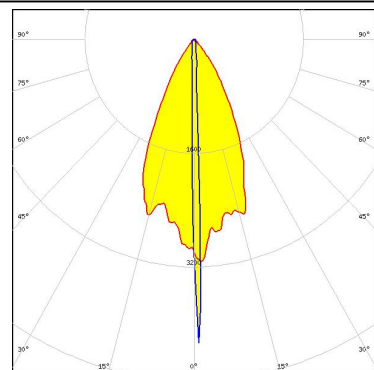
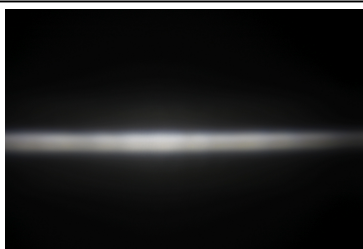
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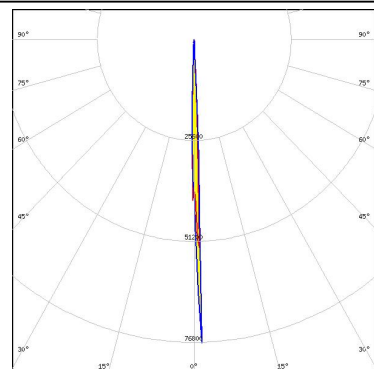
LED XP-L2
FWHM 51.0 + 6.0°
Efficiency 49 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



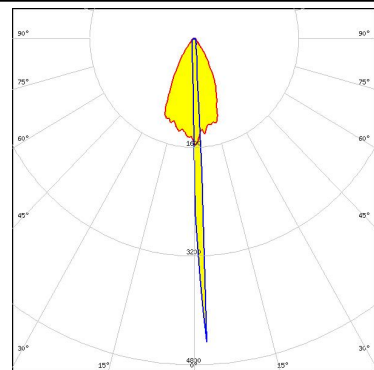
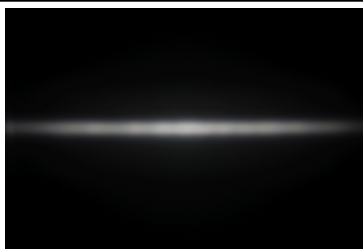
LED XQ-E HD
FWHM 50.0 + 3.0°
Efficiency 42 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



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



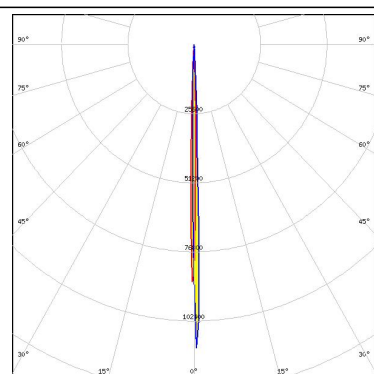
LED XQ-E HI
FWHM 52.0 + 3.0°
Efficiency 44 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



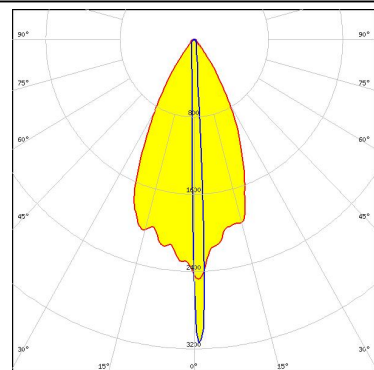
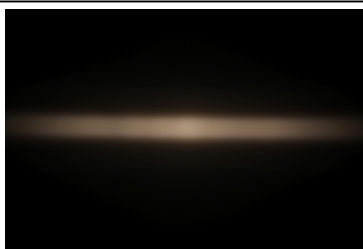
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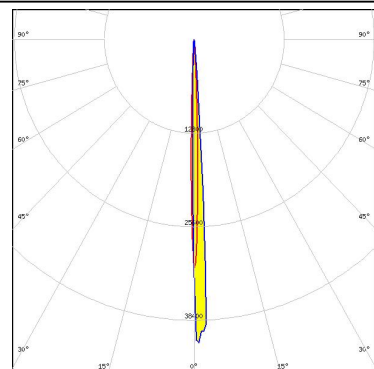
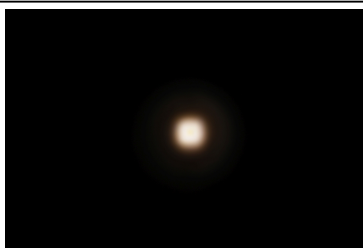
LED XQ-E HI
FWHM 2.0°
Efficiency 48 %
Peak intensity 112.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



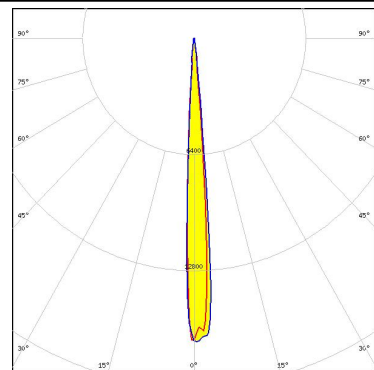
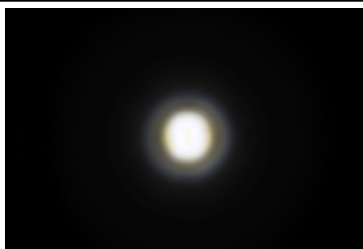
LED XT-E
FWHM 50.0 + 4.0°
Efficiency 46 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



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



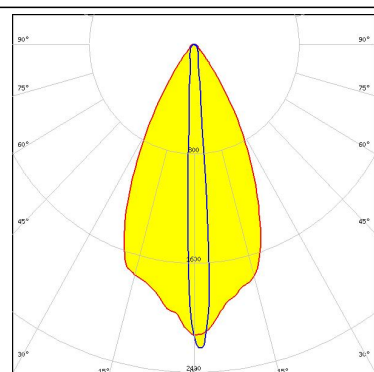
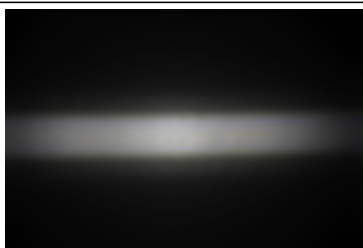
LED LUXEON 5050 Round LES
FWHM 7.0°
Efficiency 51 %
Peak intensity 16.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



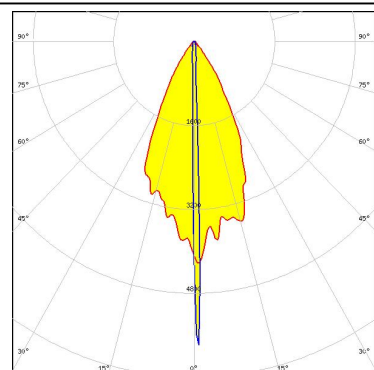
PHOTOMETRIC DATA (MEASURED):



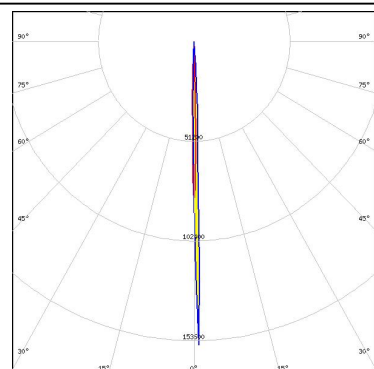
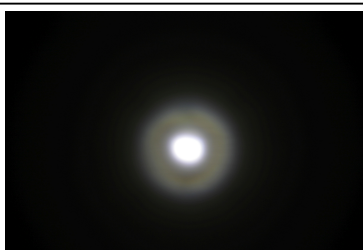
LED LUXEON 5050 Round LES
FWHM $51.0 \pm 7.0^\circ$
Efficiency 46 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



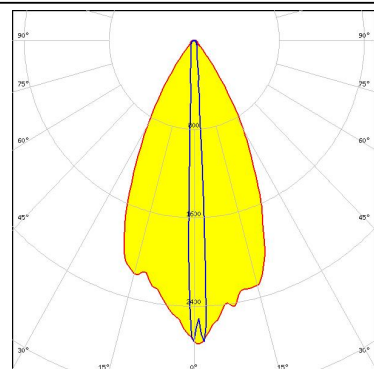
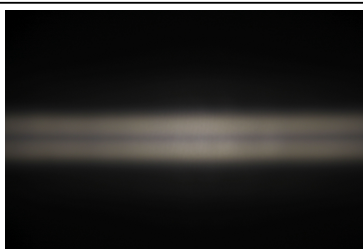
LED LUXEON CZ
FWHM $51.0 \pm 3.0^\circ$
Efficiency 48 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



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



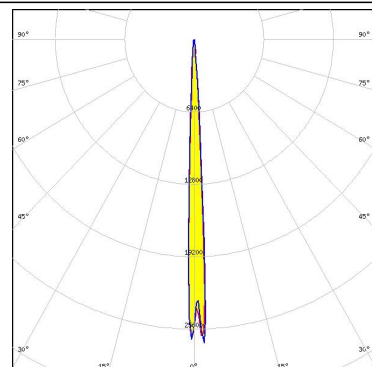
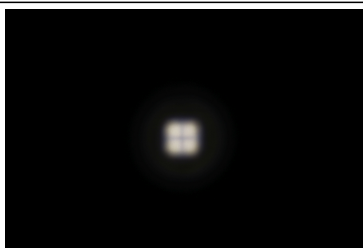
LED LUXEON MZ
FWHM $50.0 \pm 6.0^\circ$
Efficiency 45 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



PHOTOMETRIC DATA (MEASURED):

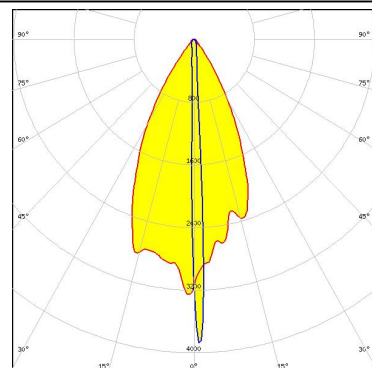
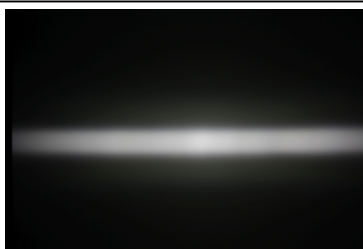
LUMILEDS

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



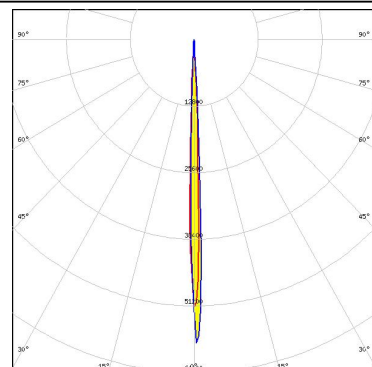
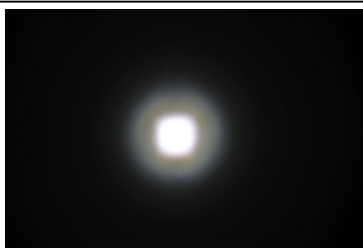
LUMILEDS

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



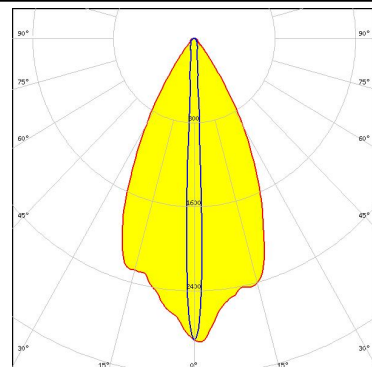
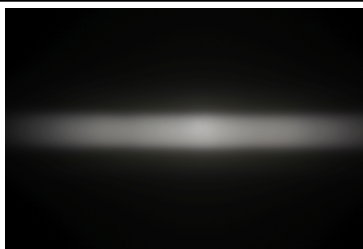
LUMILEDS

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



LUMILEDS

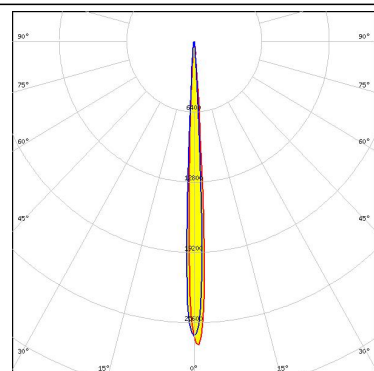
LED LUXEON V
FWHM 51.0 + 6.0°
Efficiency 49 %
Peak intensity 2.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



PHOTOMETRIC DATA (MEASURED):

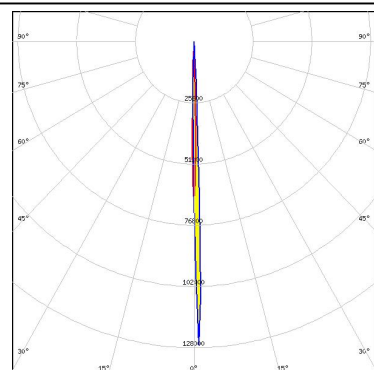
LUMILEDS

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



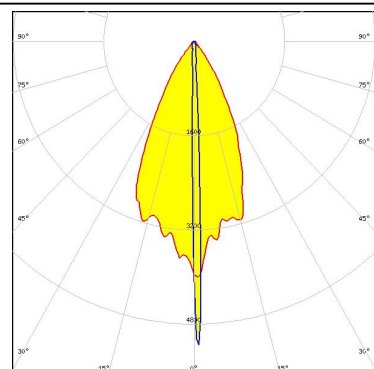
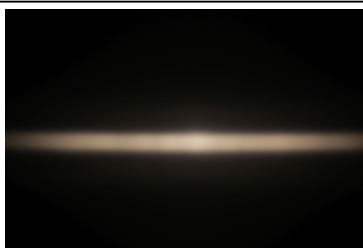
LUMILEDS

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



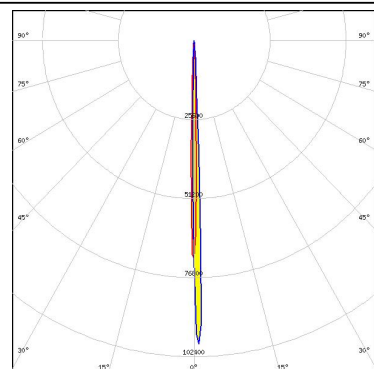
LUMILEDS

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



LUMILEDS

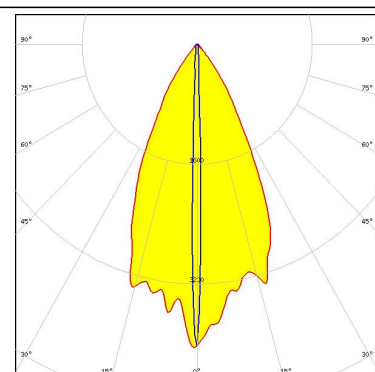
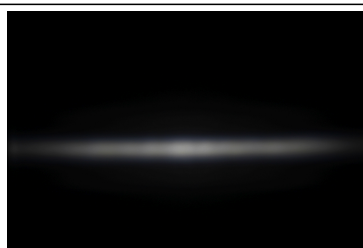
LED LUXEON Z ES
FWHM 3.0°
Efficiency 55 %
Peak intensity 98.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



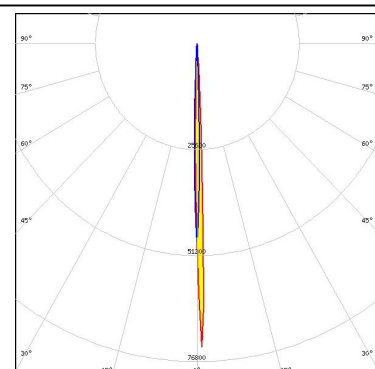
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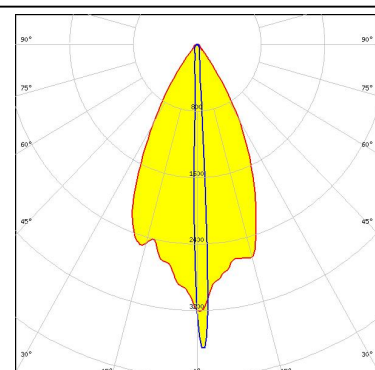
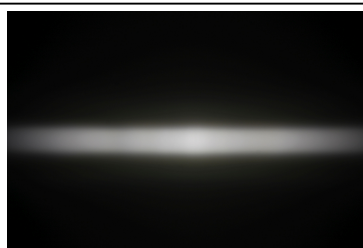
LED NCSxE17A
FWHM 50.0 + 3.0°
Efficiency 36 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



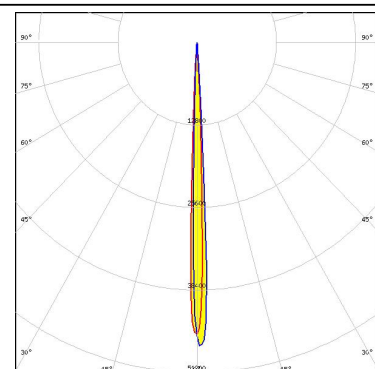
LED NCSxE17A
FWHM 3.0°
Efficiency 40 %
Peak intensity 73.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSW219F
FWHM 51.0 + 5.0°
Efficiency 48 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



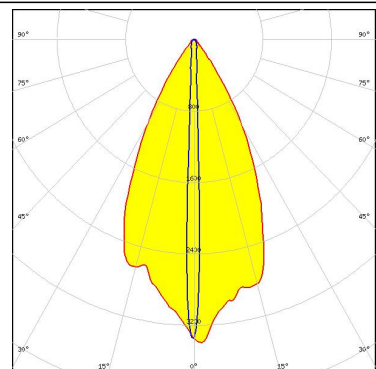
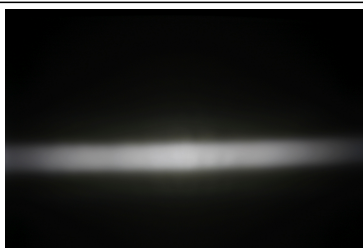
LED NVSW219F
FWHM 4.0°
Efficiency 50 %
Peak intensity 47.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



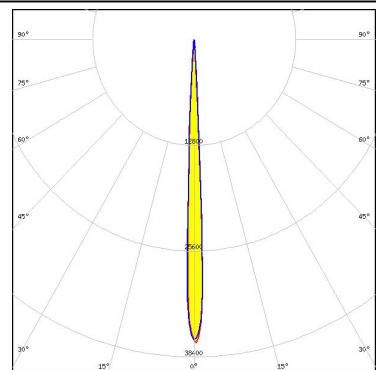
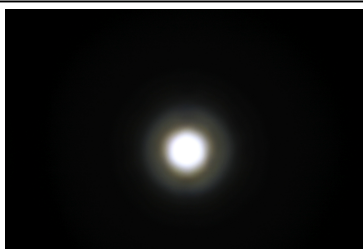
PHOTOMETRIC DATA (MEASURED):



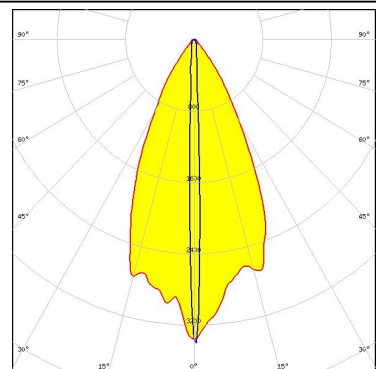
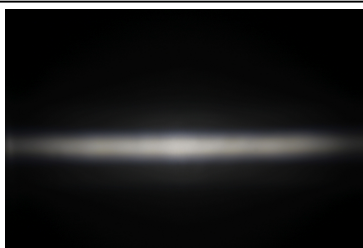
LED NVSW319B
FWHM 50.0 + 5.0°
Efficiency 46 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



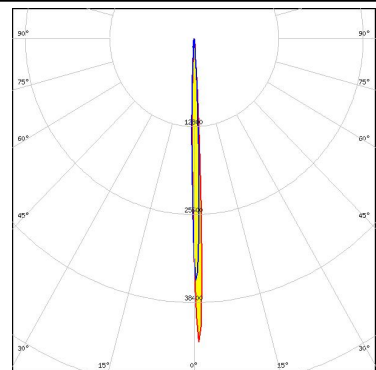
LED NVSW319B
FWHM 5.0°
Efficiency 52 %
Peak intensity 36.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



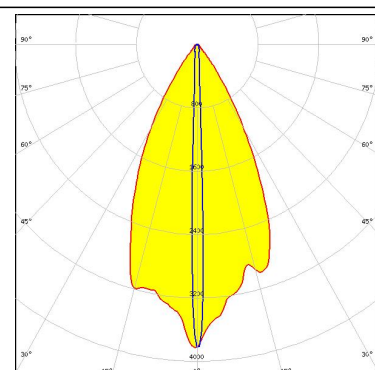
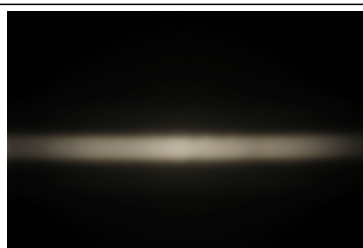
LED NVSxE21A
FWHM 3.0°
Efficiency 46 %
Peak intensity 51 cd/lm
LEDs/each optic 1
Light colour White
Required components:



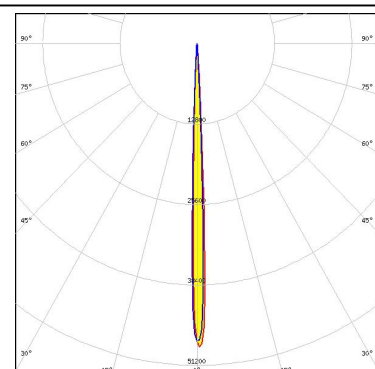
PHOTOMETRIC DATA (MEASURED):



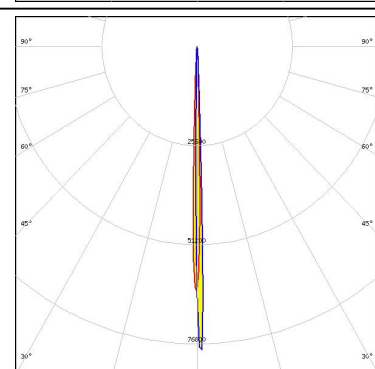
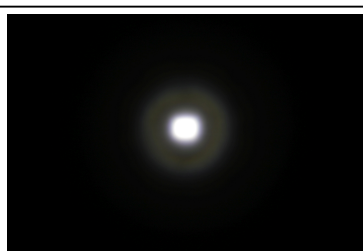
LED NVSxx19B/NVSxx19C
FWHM 50.0 + 4.0°
Efficiency 44 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



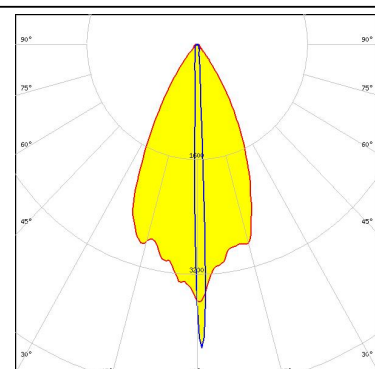
LED NVSxx19B/NVSxx19C
FWHM 4.0°
Efficiency 49 %
Peak intensity 48.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED KW CULPM1.TG
FWHM 3.0°
Efficiency 54 %
Peak intensity 96.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



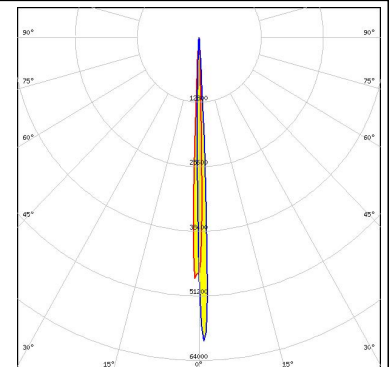
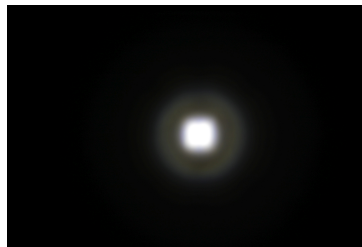
LED OSCONIQ P 3737 (2W version)
FWHM 50.0 + 4.0°
Efficiency 49 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

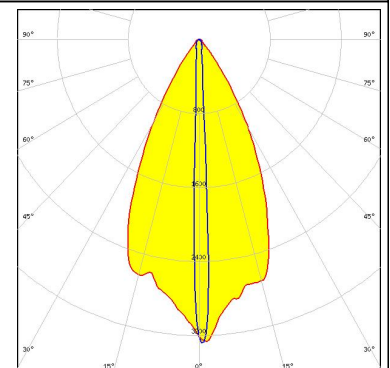
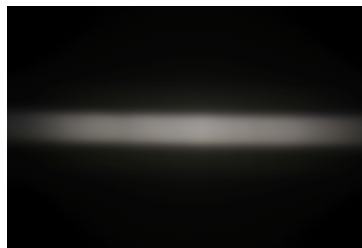
OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)
FWHM 3.0°
Efficiency 54 %
Peak intensity 62.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



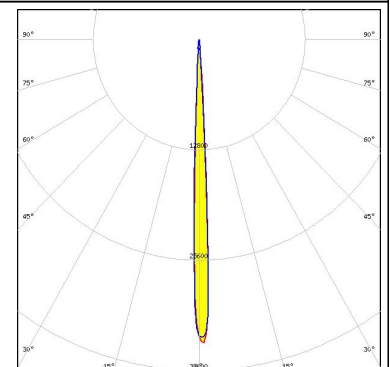
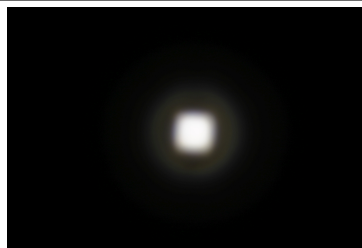
OSRAM Opto Semiconductors

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



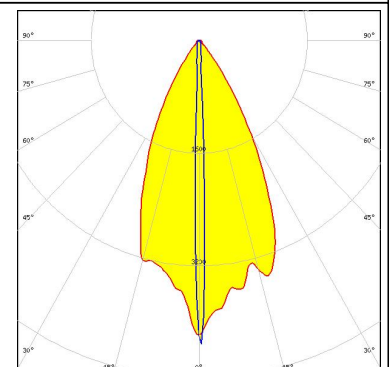
OSRAM Opto Semiconductors

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



OSRAM Opto Semiconductors

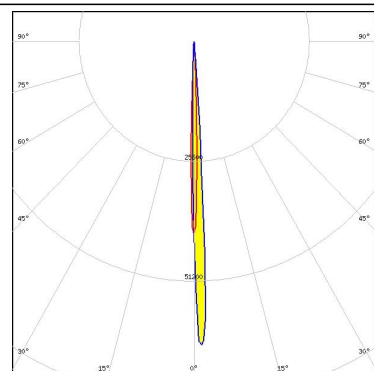
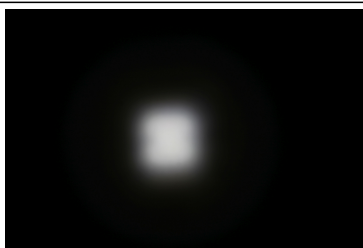
LED OSLON Square CSSRM2/CSSRM3
FWHM 50.0 + 4.0°
Efficiency 46 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



PHOTOMETRIC DATA (MEASURED):

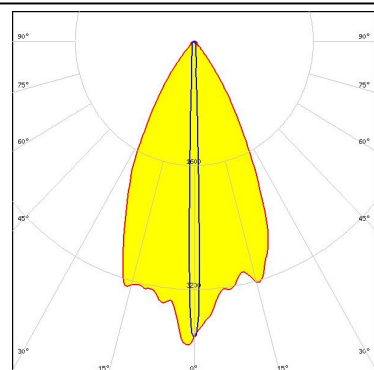
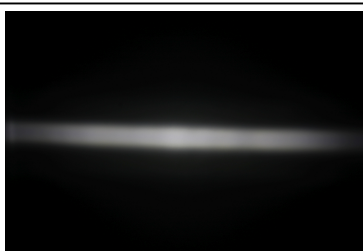
OSRAM
Opto Semiconductors

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



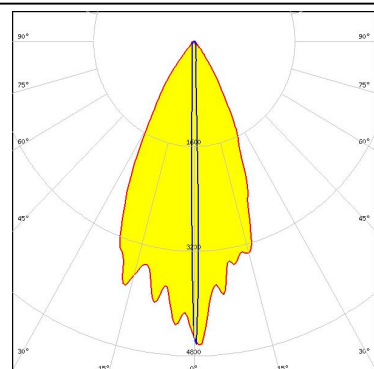
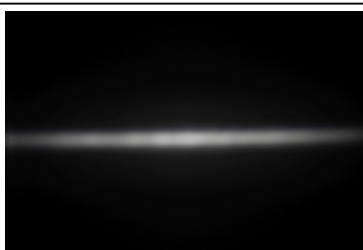
OSRAM
Opto Semiconductors

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



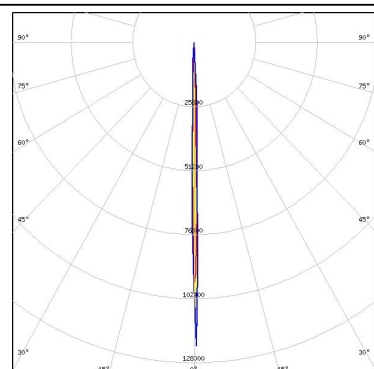
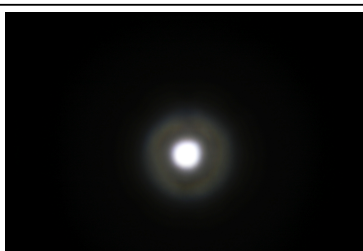
OSRAM
Opto Semiconductors

LED OSLON SSL 150
FWHM 47.0 + 3.0°
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 2.0°
Efficiency 46 %
Peak intensity 122 cd/lm
LEDs/each optic 1
Light colour White
Required components:

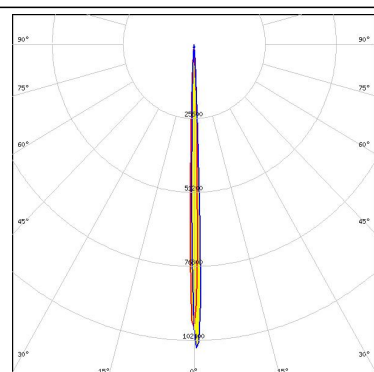


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

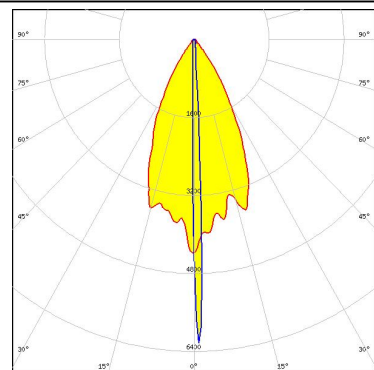
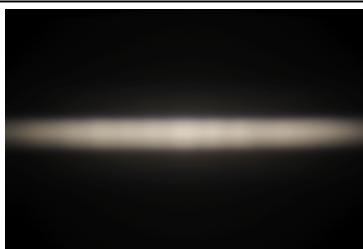
LED OSLON SSL 80
FWHM 3.0°
Efficiency 62 %
Peak intensity 106.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

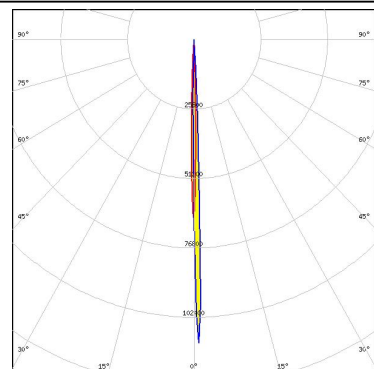
LED OSLON SSL 80
FWHM 51.0 + 3.0°
Efficiency 56 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



OSRAM

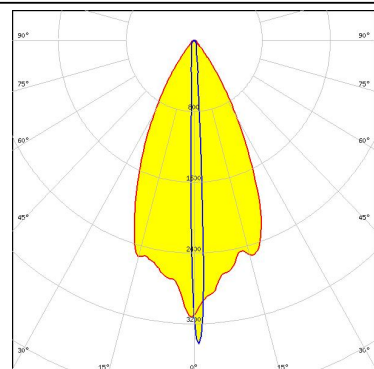
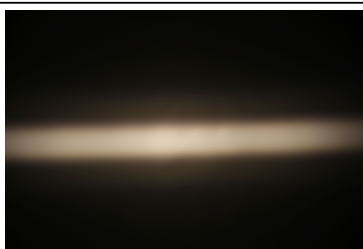
Opto Semiconductors

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



SAMSUNG

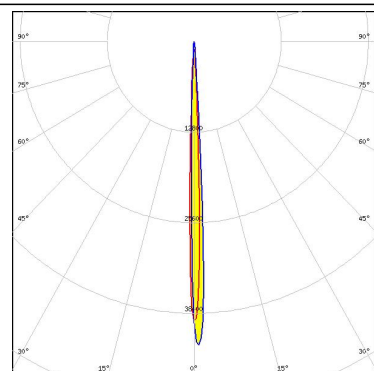
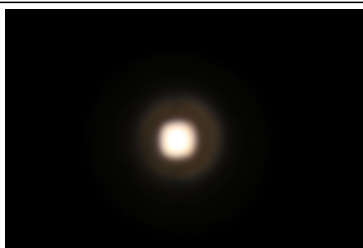
LED LH231B
FWHM 50.0 + 4.0°
Efficiency 46 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



PHOTOMETRIC DATA (MEASURED):

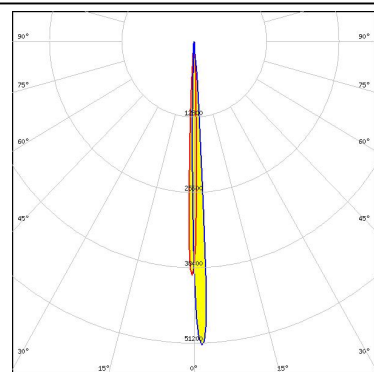
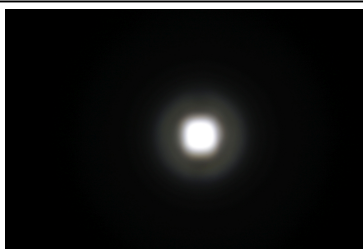
SAMSUNG

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



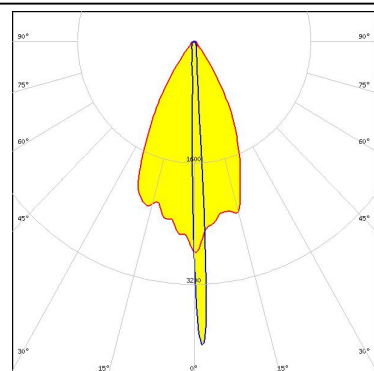
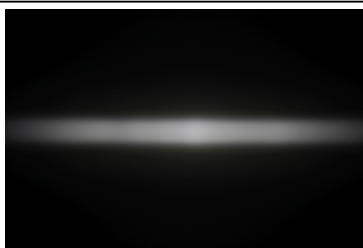
SAMSUNG

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



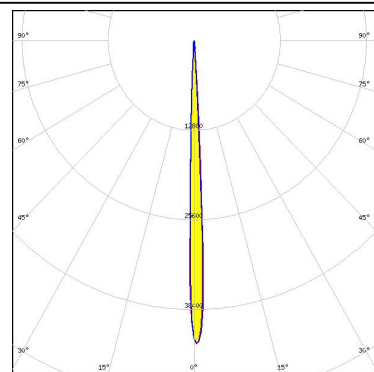
SAMSUNG

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



SAMSUNG

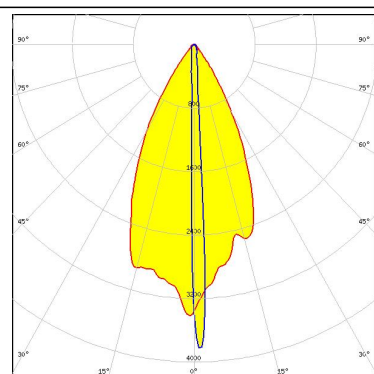
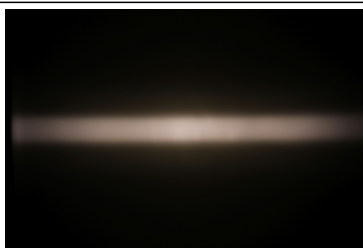
LED LH351C
FWHM 4.0°
Efficiency 57 %
Peak intensity 46.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

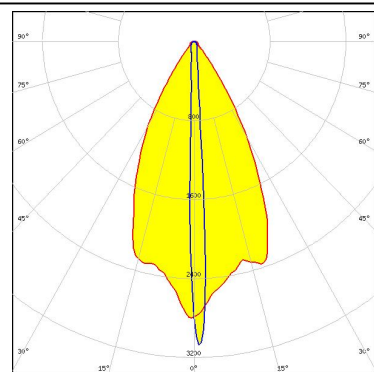
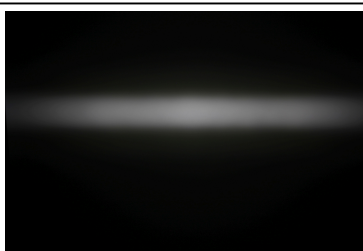
SAMSUNG

LED LH351C
FWHM $50.0 \pm 5.0^\circ$
Efficiency 52 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



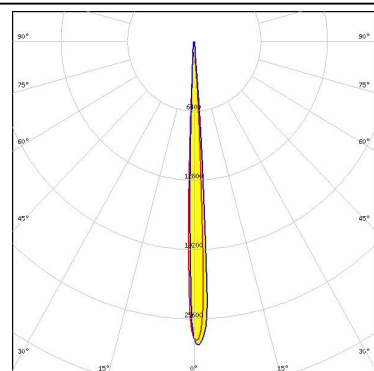
SAMSUNG

LED LH351D
FWHM $53.0 \pm 5.0^\circ$
Efficiency 50 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



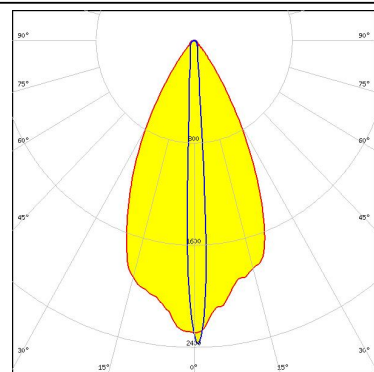
SAMSUNG

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



SAMSUNG

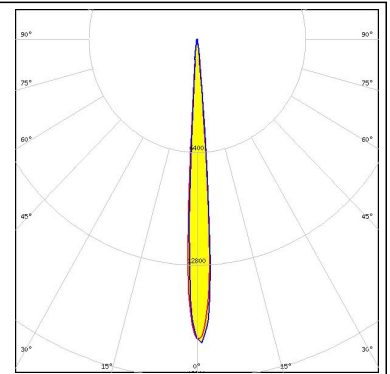
LED LH508A
FWHM $52.0 \pm 7.0^\circ$
Efficiency 45 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



PHOTOMETRIC DATA (MEASURED):

SAMSUNG

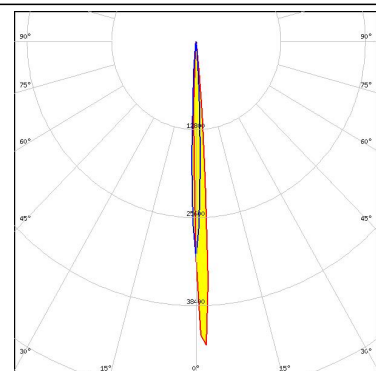
LED LH508A
FWHM 7.0°
Efficiency 50 %
Peak intensity 17.3 cd/Im
LEDs/each optic 1
Light colour White
Required components:



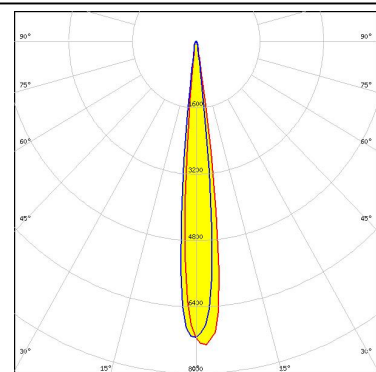
PHOTOMETRIC DATA (SIMULATED):



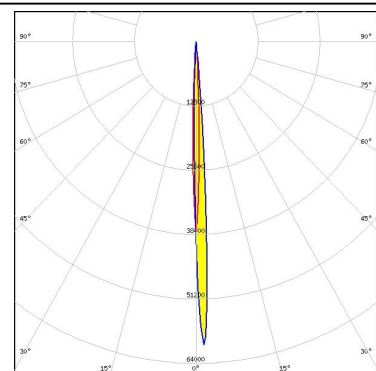
LED XHP35 HI
FWHM 3.6°
Efficiency 50 %
Peak intensity 44.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



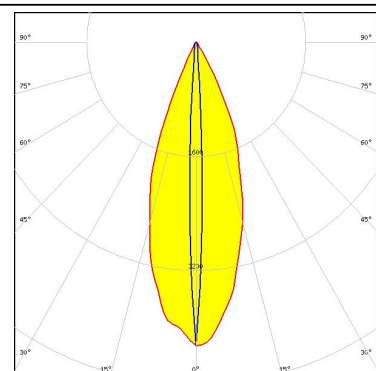
LED XHP70.2
FWHM 12.0°
Efficiency 48 %
Peak intensity 7.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-G2
FWHM 4.0°
Efficiency 51 %
Peak intensity 57 cd/lm
LEDs/each optic 1
Light colour White
Required components:



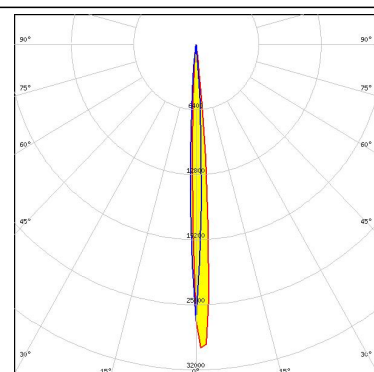
LED XP-G2 HE
FWHM 36.0 + 5.0°
Efficiency 44 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F16629_LEIA-SUB-O



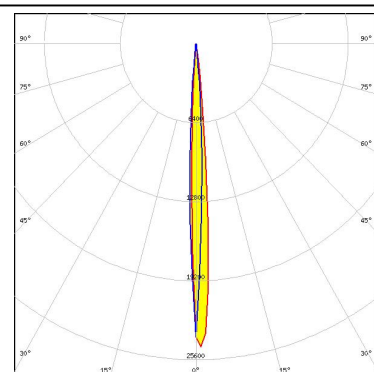
PHOTOMETRIC DATA (SIMULATED):



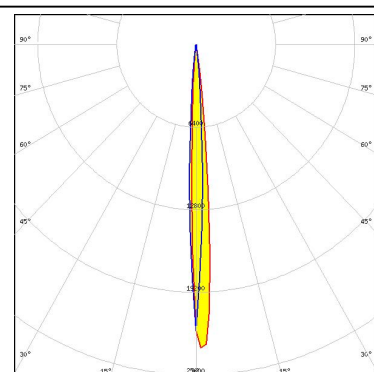
LED XP-G2 HE
FWHM 5.0°
Efficiency 48 %
Peak intensity 29.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



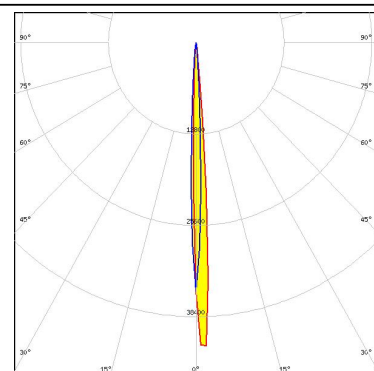
LED XP-G3
FWHM 5.8°
Efficiency 45 %
Peak intensity 24.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



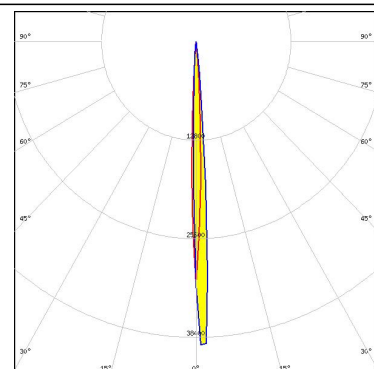
LED XP-L HI
FWHM 4.5°
Efficiency 53 %
Peak intensity 42.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



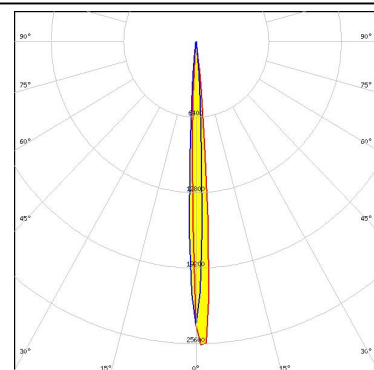
PHOTOMETRIC DATA (SIMULATED):



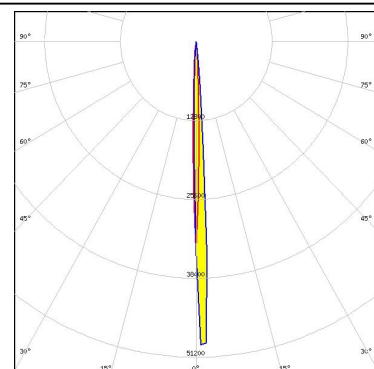
LED LUXEON V2
FWHM 4.8°
Efficiency 46 %
Peak intensity 39.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



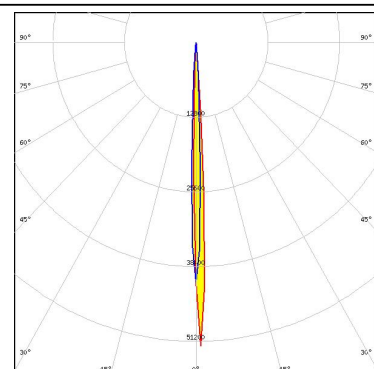
LED SBT-90
FWHM 6.0°
Efficiency 44 %
Peak intensity 26 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NCSxE17A
FWHM 3.9°
Efficiency 42 %
Peak intensity 49.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



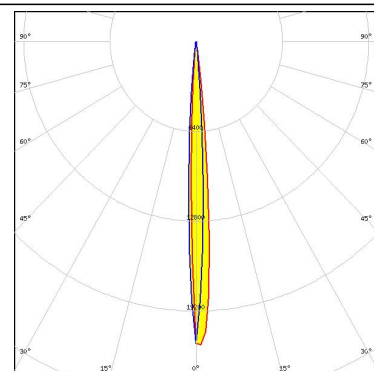
LED NF2x757G
FWHM 4.6°
Efficiency 50 %
Peak intensity 52.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



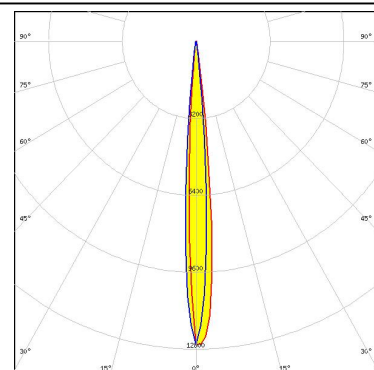
PHOTOMETRIC DATA (SIMULATED):



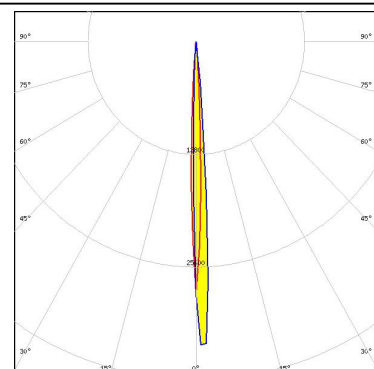
LED NV4WB35AM
FWHM 7.0°
Efficiency 46 %
Peak intensity 21.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



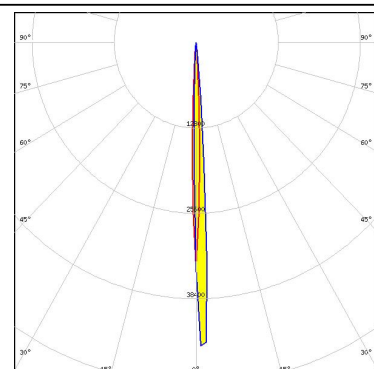
LED NV4x144A
FWHM 9.0°
Efficiency 44 %
Peak intensity 12.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



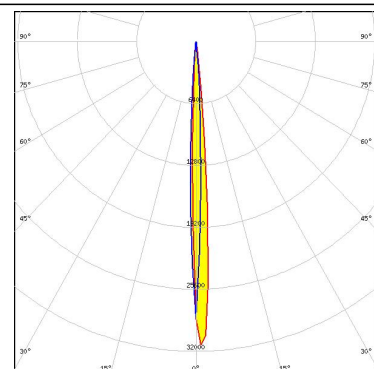
LED NVSxE21A
FWHM 2.2°
Efficiency 44 %
Peak intensity 34.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

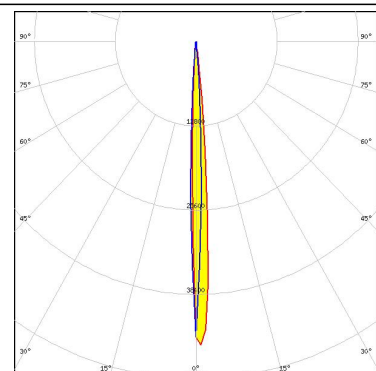
LED OSCONIQ P 3737 (3W version)
FWHM 5.0°
Efficiency 47 %
Peak intensity 31.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

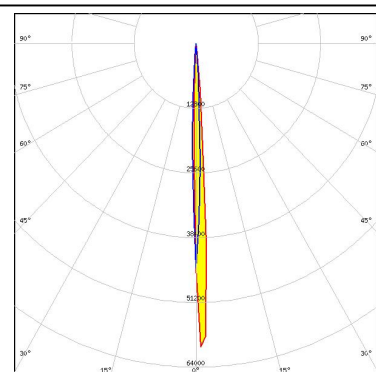
OSRAM
Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)
FWHM 5.0°
Efficiency 74 %
Peak intensity 46.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



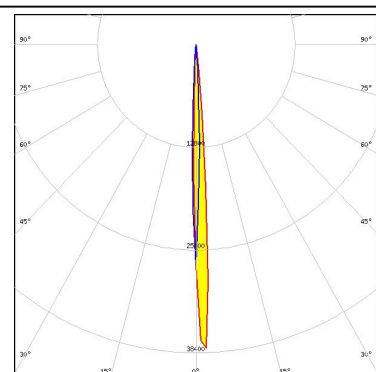
OSRAM
Opto Semiconductors

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



OSRAM
Opto Semiconductors

LED SFH 4716AS
FWHM 5.0°
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:

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

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

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