

## LEIA-S

~3° spot beam

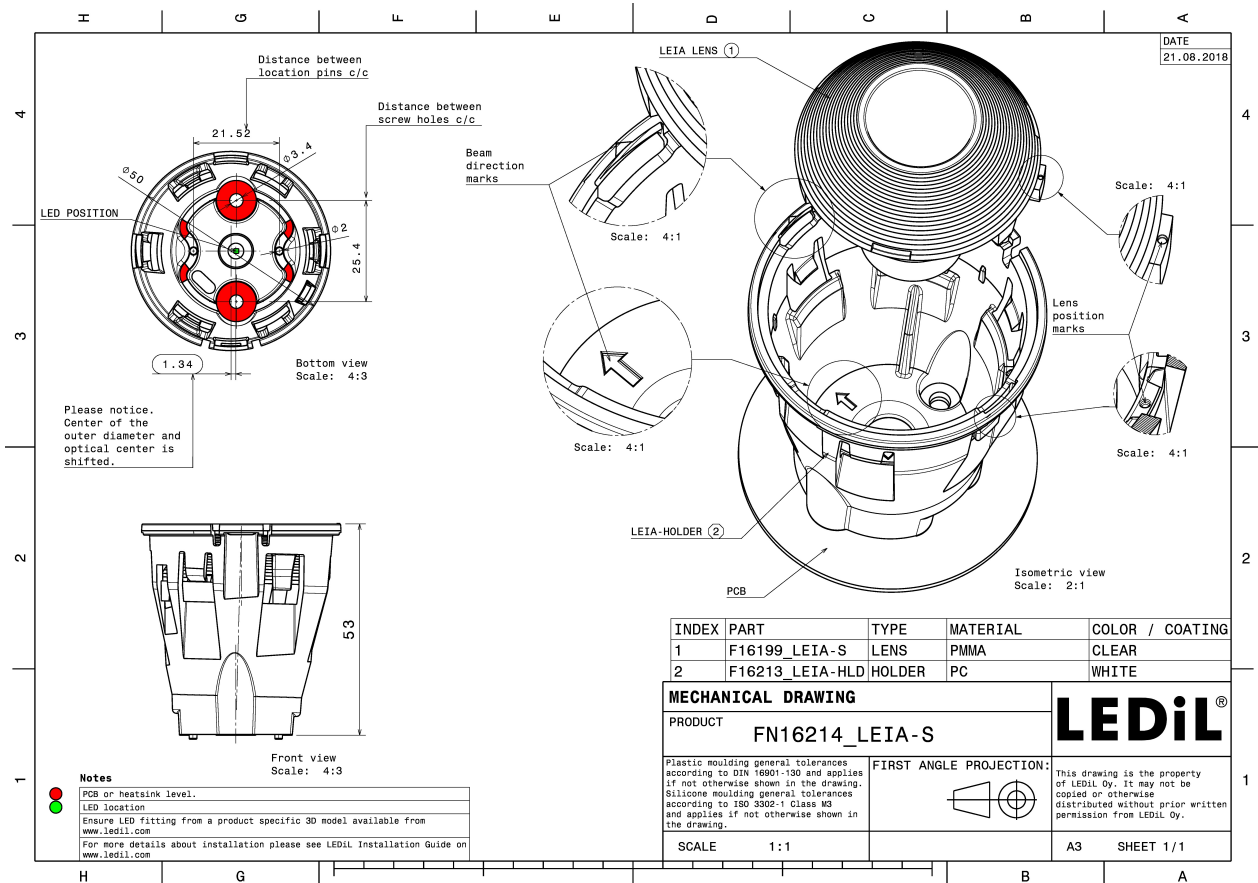
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 50.0 mm
Height	53 mm
Fastening	pin, screw
Colour	white
Box size	
Box weight	0 kg
Quantity in Box	240 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

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

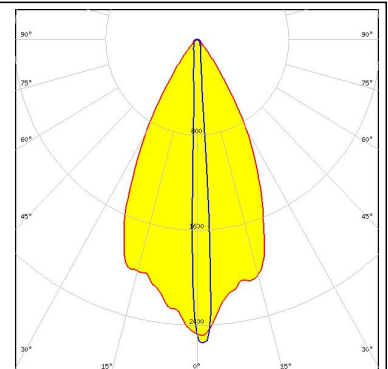




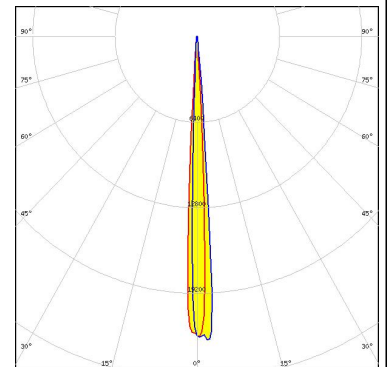
### PHOTOMETRIC DATA (MEASURED):



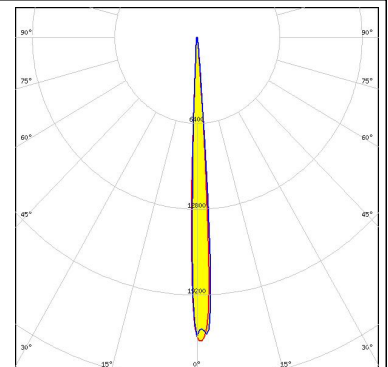
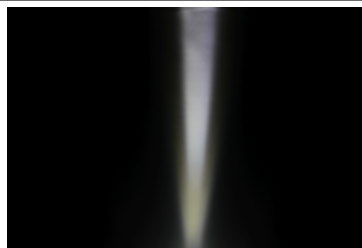
LED XHP35 HD  
FWHM 52.0 + 6.0°  
Efficiency 45 %  
Peak intensity 2.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



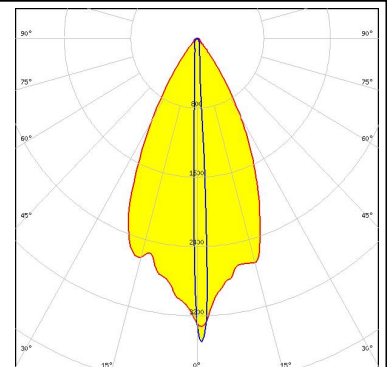
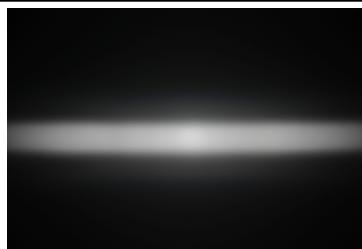
LED XHP35 HD  
FWHM 6.0°  
Efficiency 49 %  
Peak intensity 22.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XHP35 HD  
FWHM 6.0°  
Efficiency 50 %  
Peak intensity 22.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



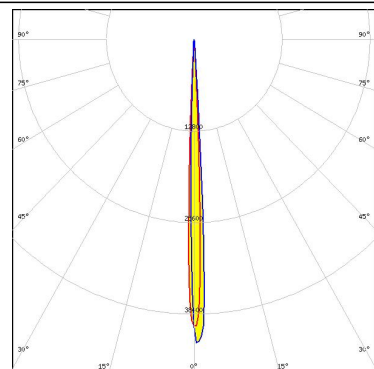
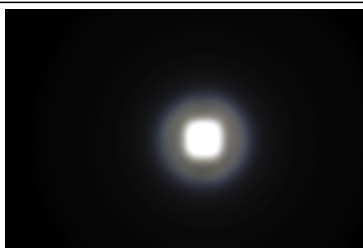
LED XHP35 HI  
FWHM 50.0 + 5.0°  
Efficiency 47 %  
Peak intensity 3.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



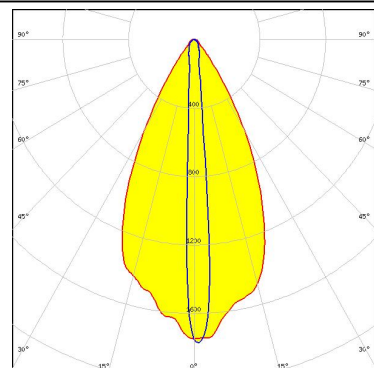
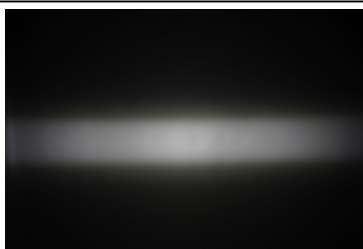
### PHOTOMETRIC DATA (MEASURED):



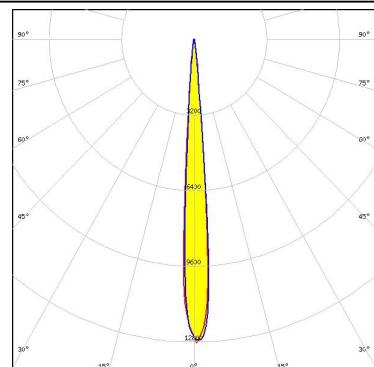
LED XHP35 HI  
FWHM 4.0°  
Efficiency 52 %  
Peak intensity 43.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



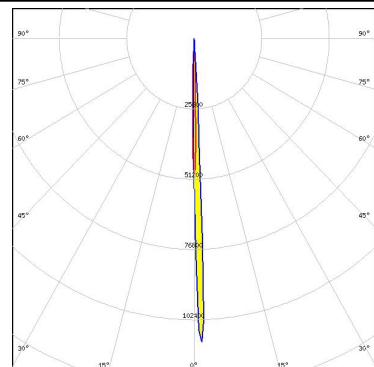
LED XHP50.2  
FWHM 52.0 + 8.0°  
Efficiency 42 %  
Peak intensity 1.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



LED XHP50.2  
FWHM 8.0°  
Efficiency 48 %  
Peak intensity 12.980 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



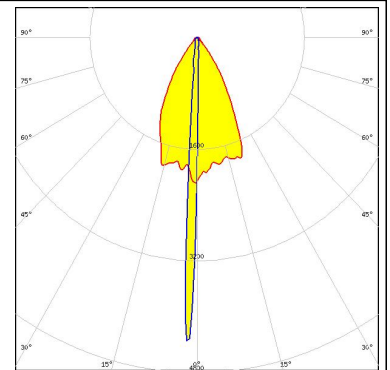
LED XP-E2  
FWHM 2.6°  
Efficiency 59 %  
Peak intensity 128.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



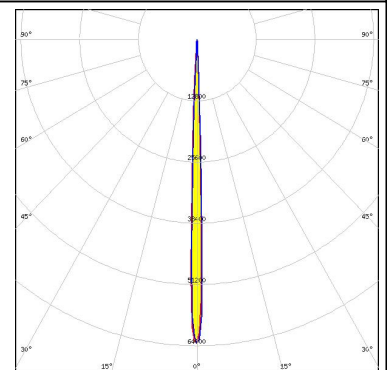
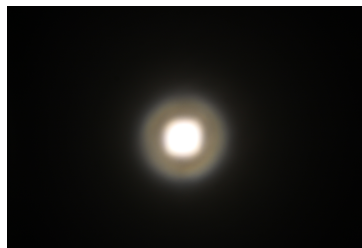
### PHOTOMETRIC DATA (MEASURED):



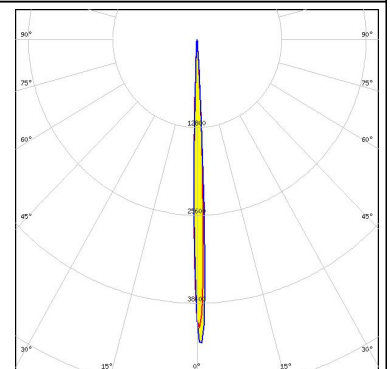
LED XP-G2  
FWHM 57.0 + 4.0°  
Efficiency 40 %  
Peak intensity 4.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



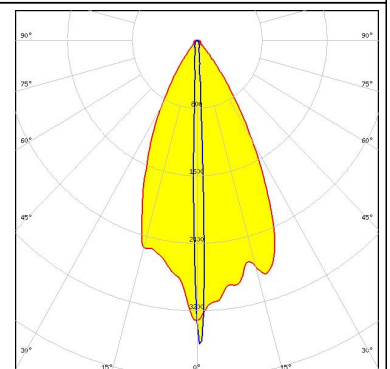
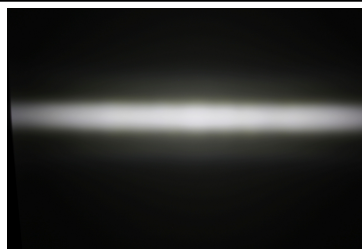
LED XP-G2  
FWHM 4.0°  
Efficiency 50 %  
Peak intensity 63.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-G3  
FWHM 4.0°  
Efficiency 51 %  
Peak intensity 48.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



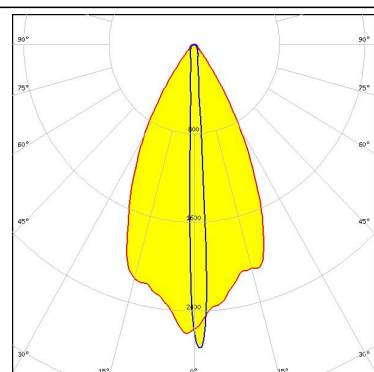
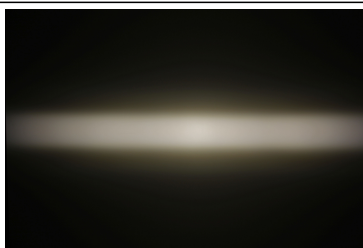
LED XP-G3  
FWHM 50.0 + 4.0°  
Efficiency 47 %  
Peak intensity 3.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



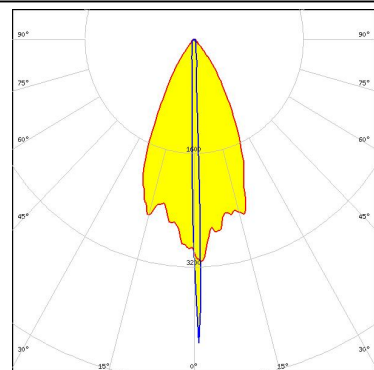
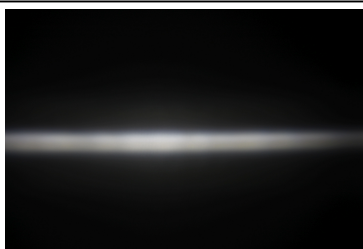
### PHOTOMETRIC DATA (MEASURED):



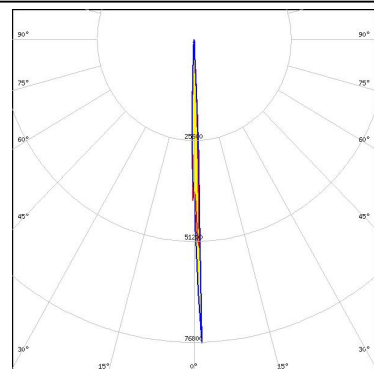
LED XP-L2  
FWHM 51.0 + 6.0°  
Efficiency 49 %  
Peak intensity 2.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



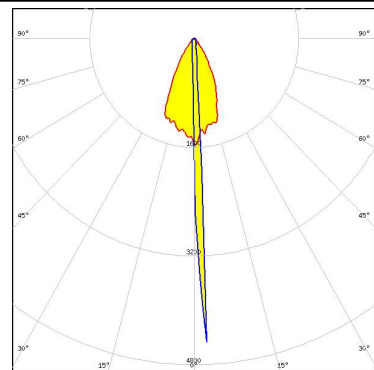
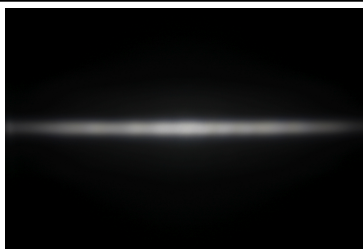
LED XQ-E HD  
FWHM 50.0 + 3.0°  
Efficiency 42 %  
Peak intensity 4.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



LED XQ-E HD  
FWHM 3.0°  
Efficiency 47 %  
Peak intensity 91.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



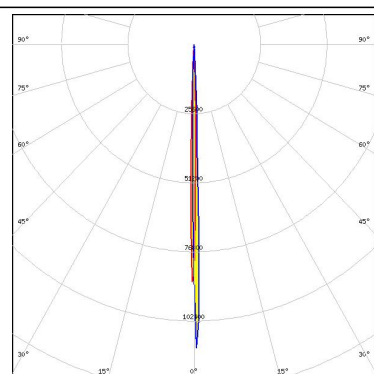
LED XQ-E HI  
FWHM 52.0 + 3.0°  
Efficiency 44 %  
Peak intensity 6.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



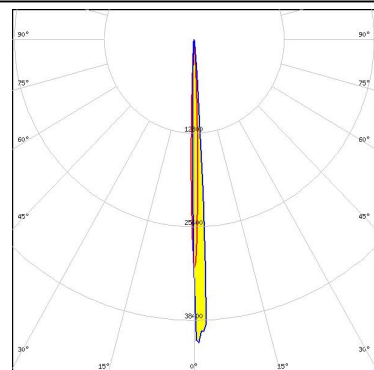
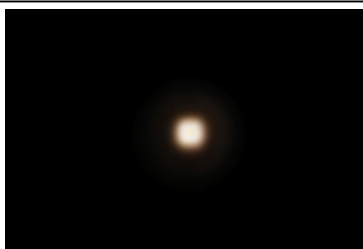
### PHOTOMETRIC DATA (MEASURED):



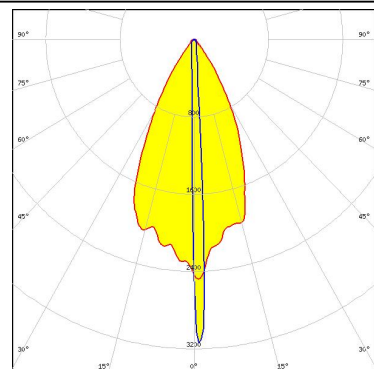
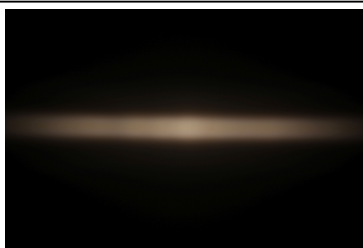
LED XQ-E HI  
FWHM 2.0°  
Efficiency 48 %  
Peak intensity 112.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



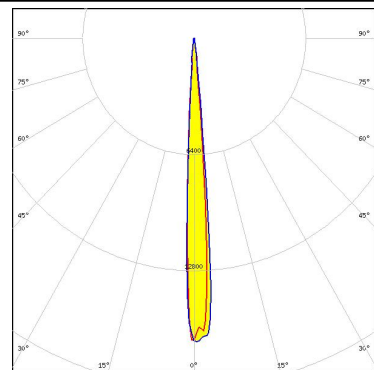
LED XT-E  
FWHM 4.0°  
Efficiency 49 %  
Peak intensity 42.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XT-E  
FWHM 50.0 + 4.0°  
Efficiency 46 %  
Peak intensity 6.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



LED LUXEON 5050  
FWHM 7.0°  
Efficiency 51 %  
Peak intensity 16.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

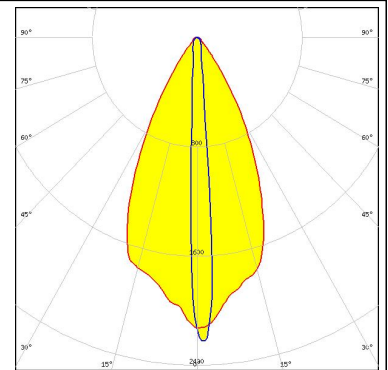




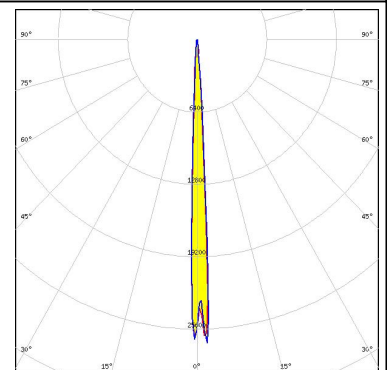
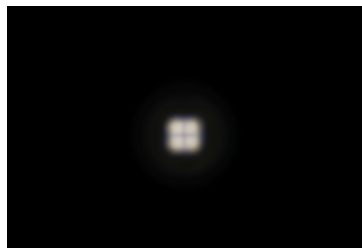
### PHOTOMETRIC DATA (MEASURED):



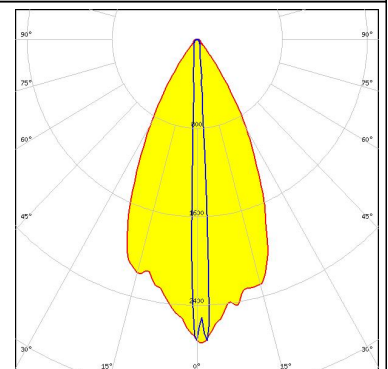
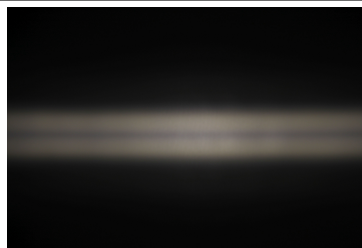
LED LUXEON 5050  
FWHM  $51.0 \pm 7.0^\circ$   
Efficiency 46 %  
Peak intensity 2.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



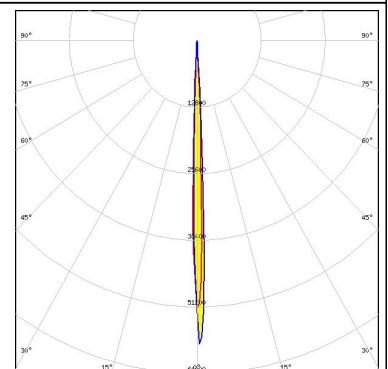
LED LUXEON MZ  
FWHM  $6.0^\circ$   
Efficiency 49 %  
Peak intensity 27.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON MZ  
FWHM  $50.0 \pm 6.0^\circ$   
Efficiency 45 %  
Peak intensity 2.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



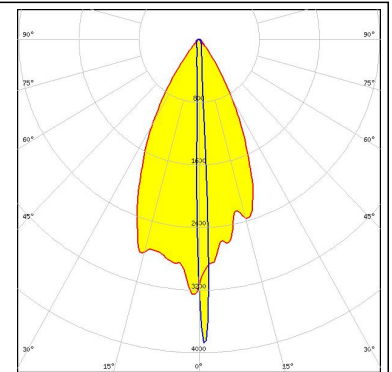
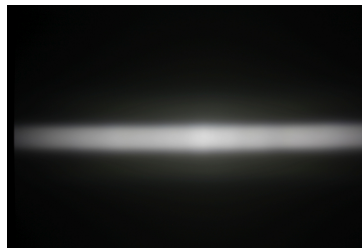
LED LUXEON TX  
FWHM  $4.0^\circ$   
Efficiency 51 %  
Peak intensity 58.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



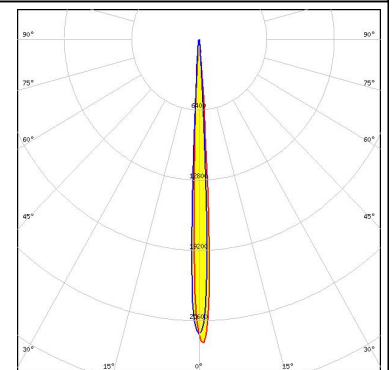
### PHOTOMETRIC DATA (MEASURED):



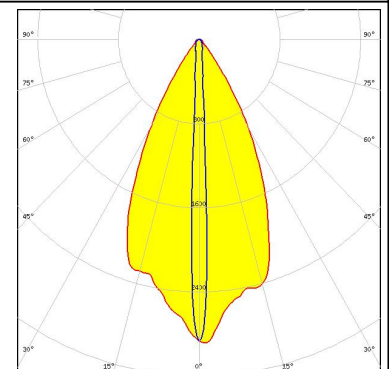
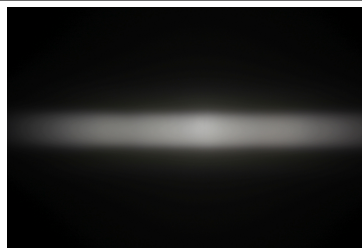
LED LUXEON TX  
FWHM 50.0 + 4.0°  
Efficiency 48 %  
Peak intensity 4.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



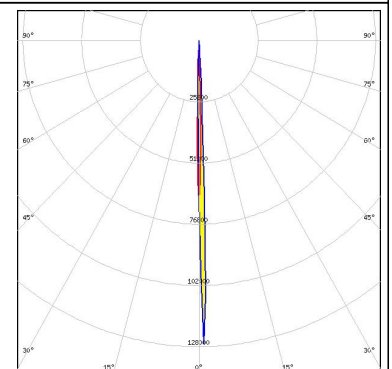
LED LUXEON V  
FWHM 6.0°  
Efficiency 53 %  
Peak intensity 27.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON V  
FWHM 51.0 + 6.0°  
Efficiency 49 %  
Peak intensity 2.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



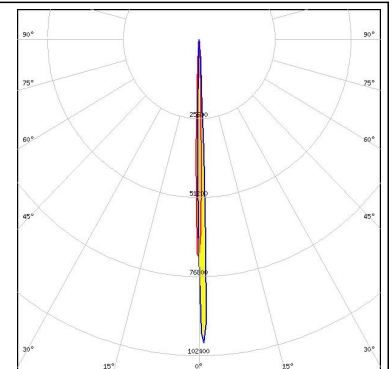
LED LUXEON Z  
FWHM 2.0°  
Efficiency 50 %  
Peak intensity 131.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



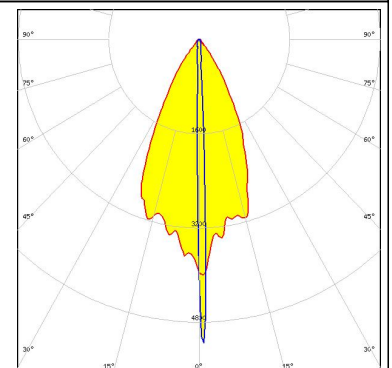
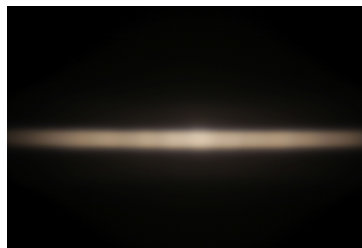
### PHOTOMETRIC DATA (MEASURED):



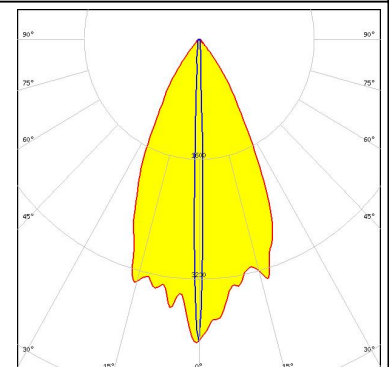
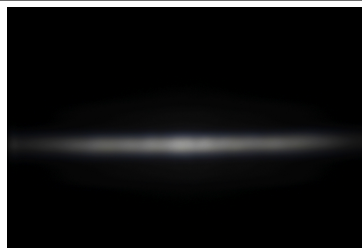
LED LUXEON Z ES  
FWHM 3.0°  
Efficiency 55 %  
Peak intensity 98.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



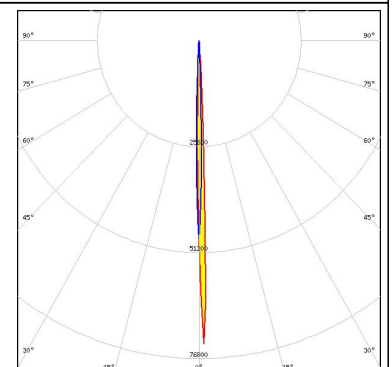
LED LUXEON Z ES  
FWHM 49.0 + 3.0°  
Efficiency 49 %  
Peak intensity 5.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



LED NCSxE17A  
FWHM 50.0 + 3.0°  
Efficiency 36 %  
Peak intensity 4.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



LED NCSxE17A  
FWHM 3.0°  
Efficiency 40 %  
Peak intensity 73.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

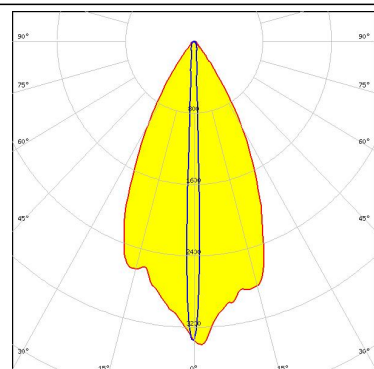
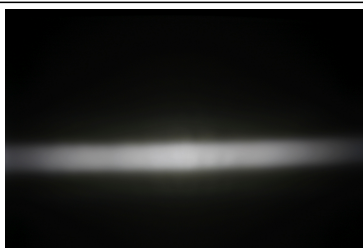




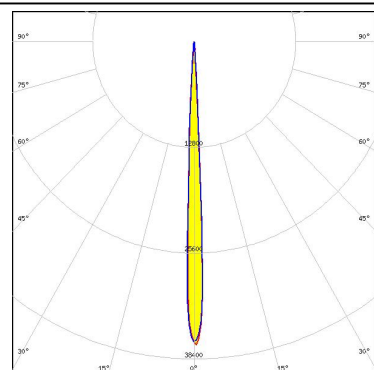
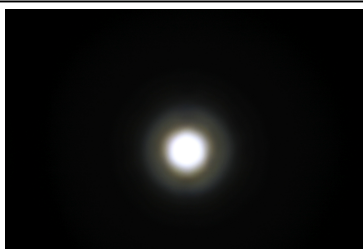
### PHOTOMETRIC DATA (MEASURED):



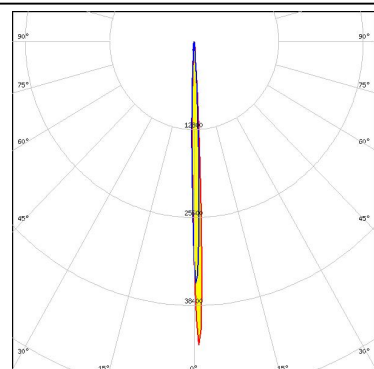
LED NVSW319B  
FWHM 50.0 + 5.0°  
Efficiency 46 %  
Peak intensity 3.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



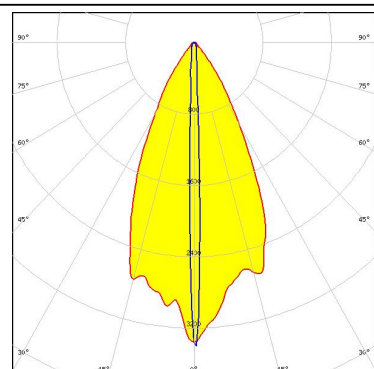
LED NVSW319B  
FWHM 5.0°  
Efficiency 52 %  
Peak intensity 36.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSxE21A  
FWHM 3.0°  
Efficiency 46 %  
Peak intensity 51.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



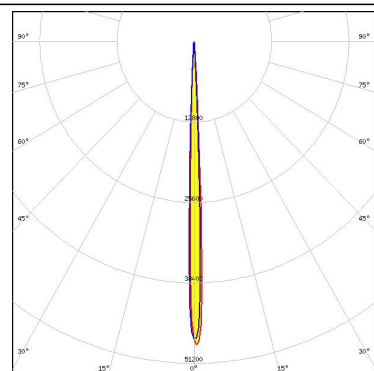
LED NVSxE21A  
FWHM 49.0 + 4.0°  
Efficiency 41 %  
Peak intensity 3.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



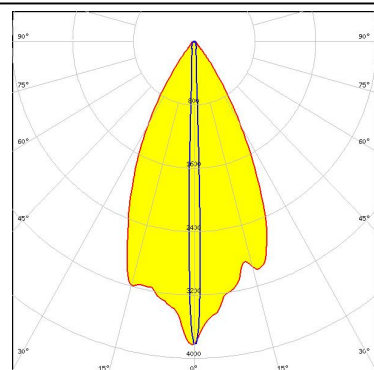
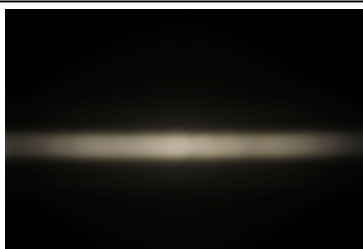
### PHOTOMETRIC DATA (MEASURED):



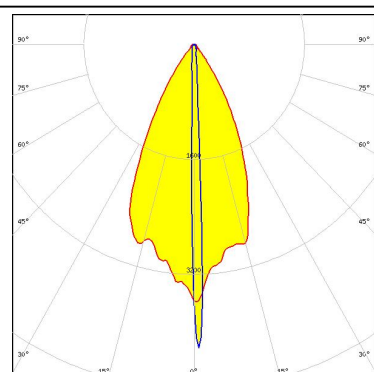
LED NVSxx19B/NVSxx19C  
FWHM 4.0°  
Efficiency 49 %  
Peak intensity 48.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



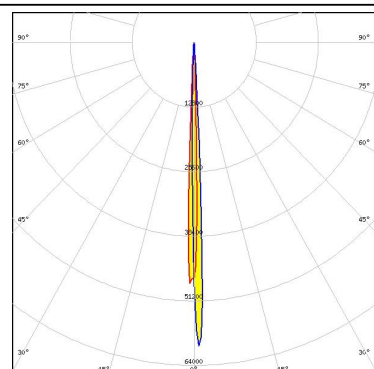
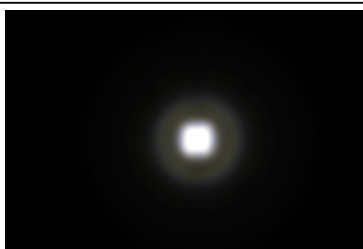
LED NVSxx19B/NVSxx19C  
FWHM 50.0 + 4.0°  
Efficiency 44 %  
Peak intensity 3.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



LED OSCONIQ P 3737 (2W version)  
FWHM 50.0 + 4.0°  
Efficiency 49 %  
Peak intensity 4.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



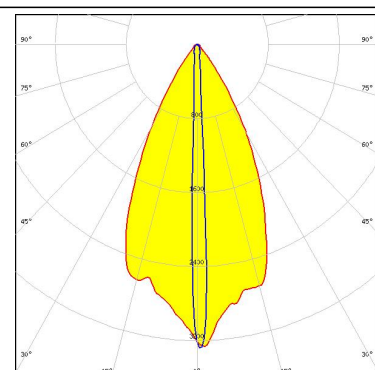
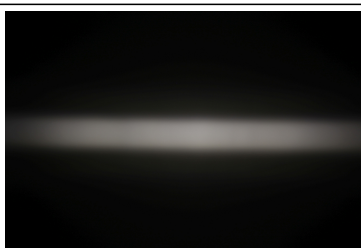
LED OSCONIQ P 3737 (2W version)  
FWHM 3.0°  
Efficiency 54 %  
Peak intensity 62.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

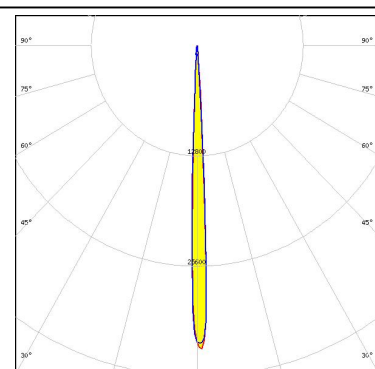
**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
FWHM 51.0 + 5.0°  
Efficiency 48 %  
Peak intensity 3.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



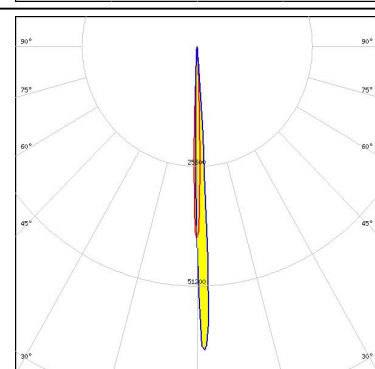
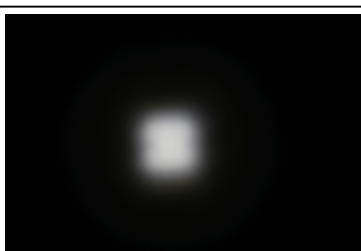
**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
FWHM 5.0°  
Efficiency 53 %  
Peak intensity 36.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



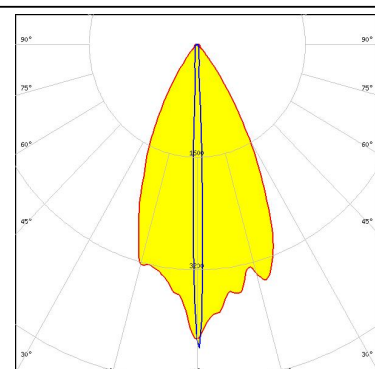
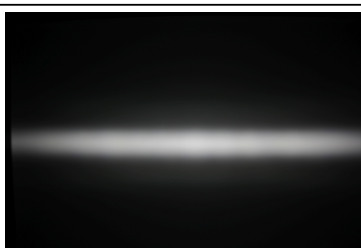
**OSRAM**  
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
FWHM 4.0°  
Efficiency 49 %  
Peak intensity 64.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**OSRAM**  
Opto Semiconductors

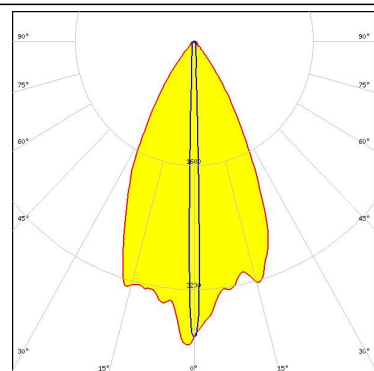
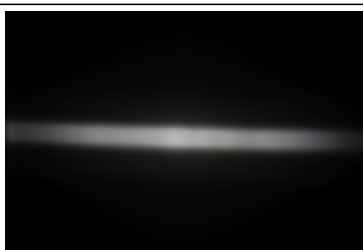
LED OSLON Square CSSRM2/CSSRM3  
FWHM 50.0 + 4.0°  
Efficiency 46 %  
Peak intensity 4.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



### PHOTOMETRIC DATA (MEASURED):

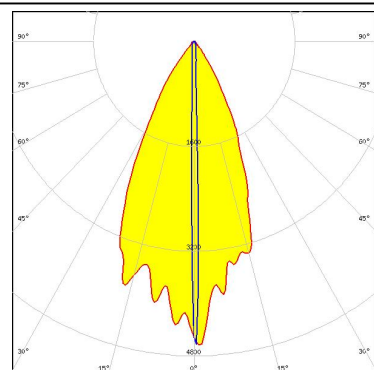
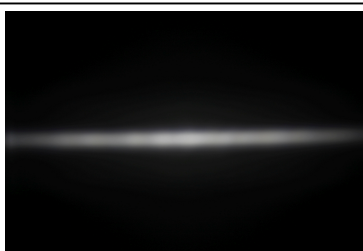
#### OSRAM Opto Semiconductors

LED OSLON Square PC  
FWHM  $52.0 \pm 4.0^\circ$   
Efficiency 42 %  
Peak intensity 3.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



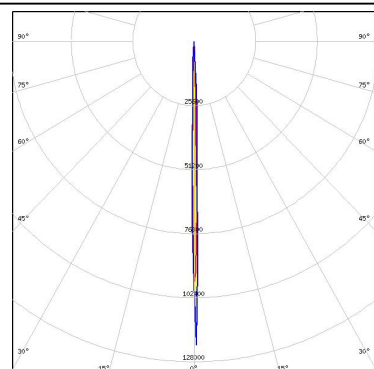
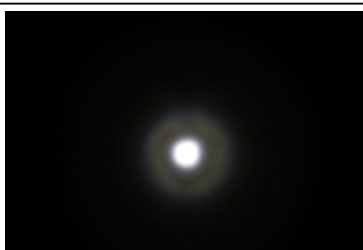
#### OSRAM Opto Semiconductors

LED OSLON SSL 150  
FWHM  $47.0 \pm 3.0^\circ$   
Efficiency 40 %  
Peak intensity 4.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



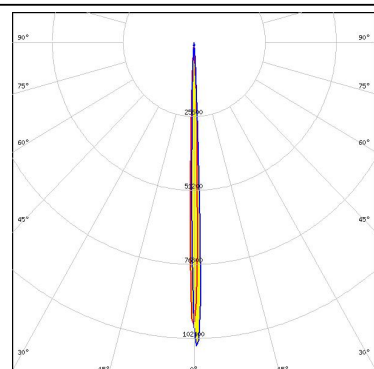
#### OSRAM Opto Semiconductors

LED OSLON SSL 150  
FWHM  $2.0^\circ$   
Efficiency 46 %  
Peak intensity 122.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM Opto Semiconductors

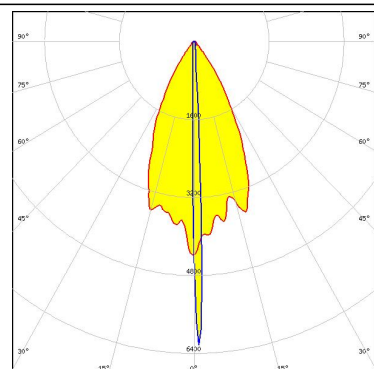
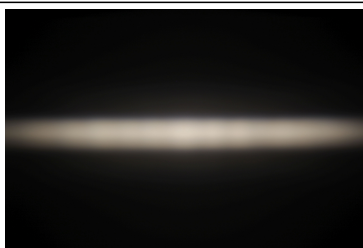
LED OSLON SSL 80  
FWHM  $3.0^\circ$   
Efficiency 62 %  
Peak intensity 106.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

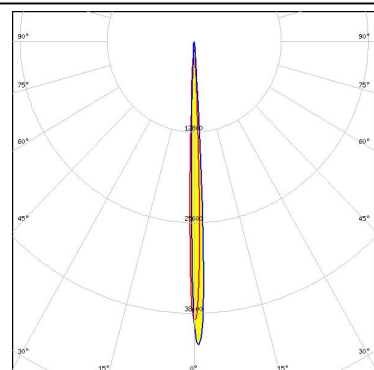
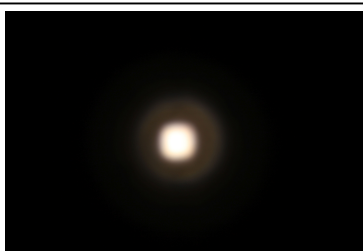
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 80  
FWHM  $51.0 \pm 3.0^\circ$   
Efficiency 56 %  
Peak intensity 6.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



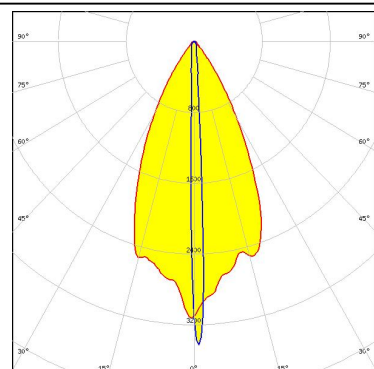
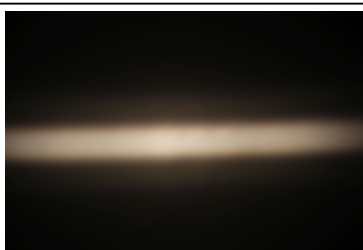
**SAMSUNG**

LED LH231B  
FWHM  $4.0^\circ$   
Efficiency 50 %  
Peak intensity 43.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



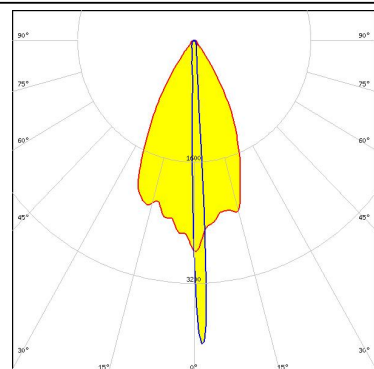
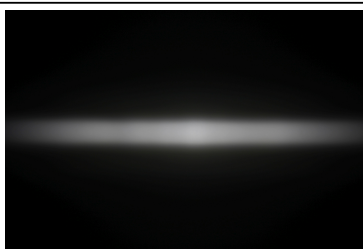
**SAMSUNG**

LED LH231B  
FWHM  $50.0 \pm 4.0^\circ$   
Efficiency 46 %  
Peak intensity 3.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



**SAMSUNG**

LED LH351B  
FWHM  $52.0 \pm 4.0^\circ$   
Efficiency 50 %  
Peak intensity 4.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O

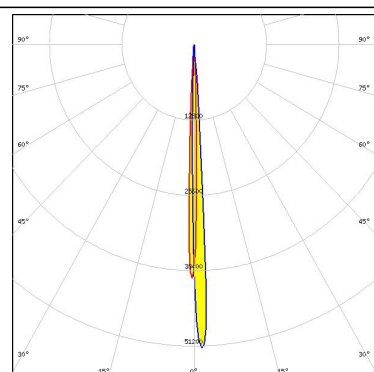




### PHOTOMETRIC DATA (MEASURED):

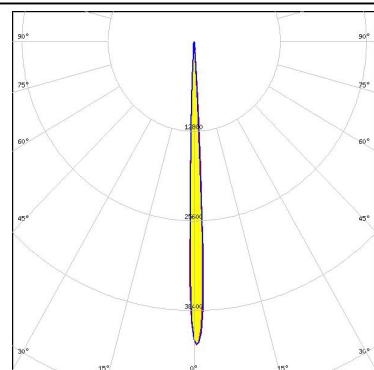
#### SAMSUNG

LED LH351B  
FWHM 4.0°  
Efficiency 55 %  
Peak intensity 54.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



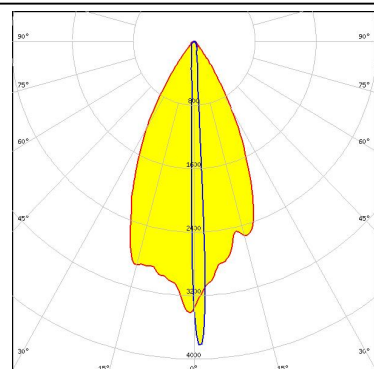
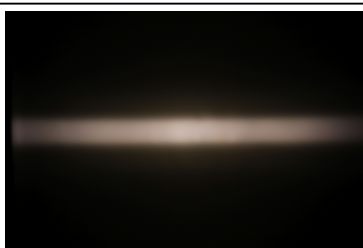
#### SAMSUNG

LED LH351C  
FWHM 4.0°  
Efficiency 57 %  
Peak intensity 46.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



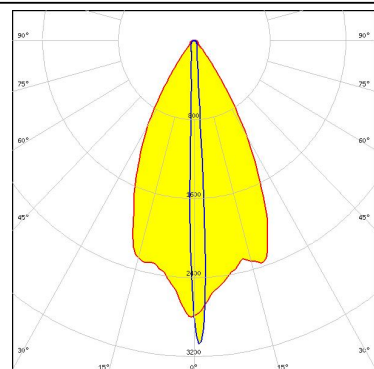
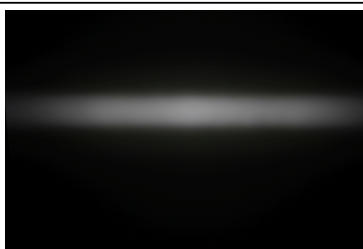
#### SAMSUNG

LED LH351C  
FWHM 50.0 + 5.0°  
Efficiency 52 %  
Peak intensity 3.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SAMSUNG

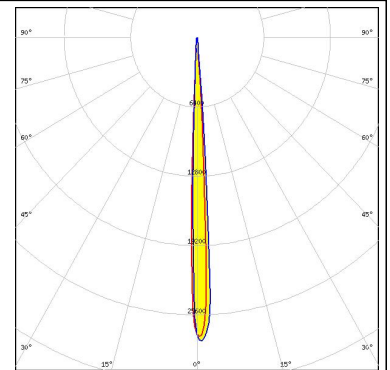
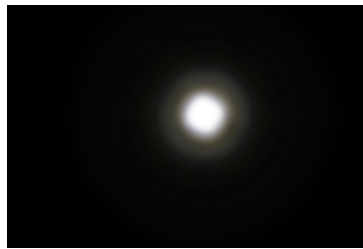
LED LH351D  
FWHM 53.0 + 5.0°  
Efficiency 50 %  
Peak intensity 3.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



## PHOTOMETRIC DATA (MEASURED):

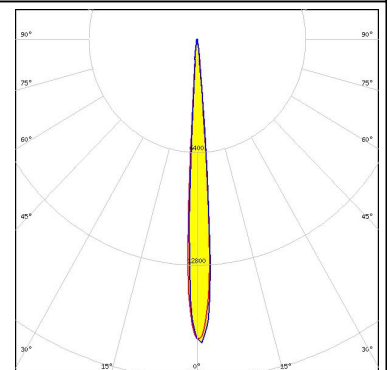
### SAMSUNG

LED LH351D  
FWHM 5.0°  
Efficiency 54 %  
Peak intensity 29.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



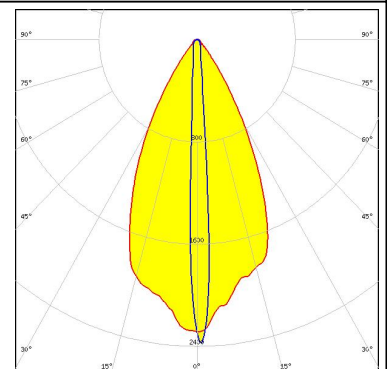
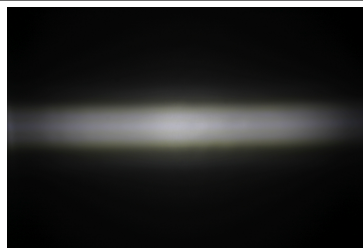
### SAMSUNG

LED LH508A  
FWHM 7.0°  
Efficiency 50 %  
Peak intensity 17.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### SAMSUNG

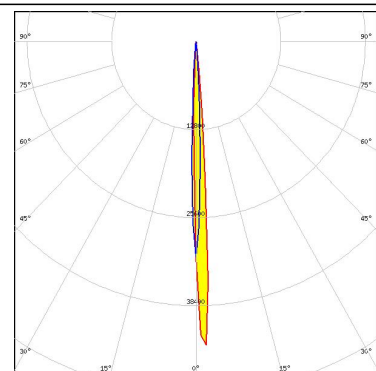
LED LH508A  
FWHM 52.0 + 7.0°  
Efficiency 45 %  
Peak intensity 2.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F16629\_LEIA-SUB-O



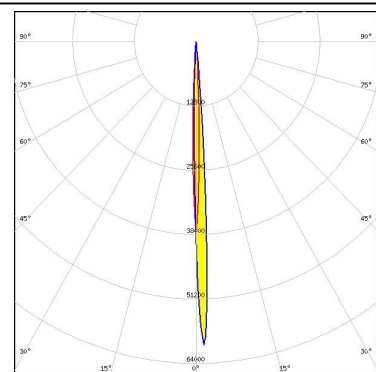
### PHOTOMETRIC DATA (SIMULATED):



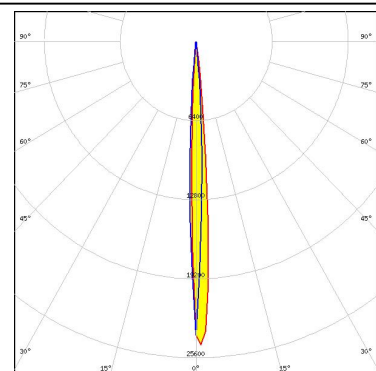
LED XHP35 HI  
FWHM 3.6°  
Efficiency 50 %  
Peak intensity 44.800 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



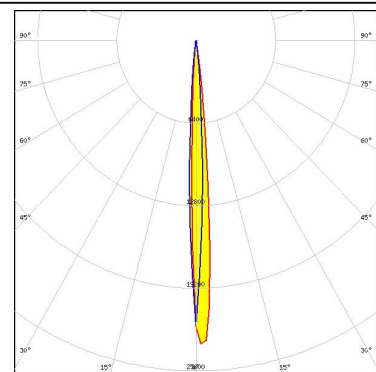
LED XP-G2  
FWHM 4.0°  
Efficiency 51 %  
Peak intensity 57.000 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-G3  
FWHM 5.8°  
Efficiency 45 %  
Peak intensity 24.600 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-L HD  
FWHM 6.3°  
Efficiency 51 %  
Peak intensity 23.510 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:

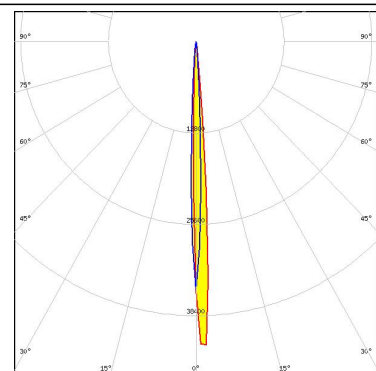




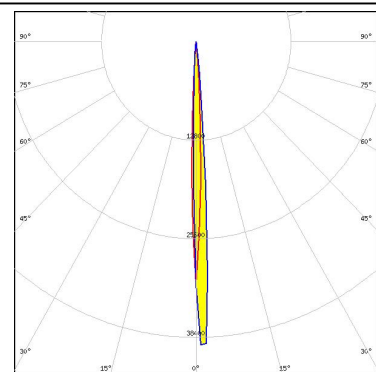
### PHOTOMETRIC DATA (SIMULATED):



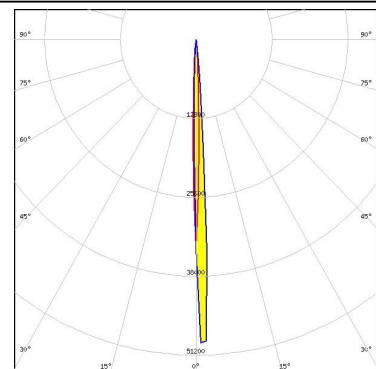
LED XP-L HI  
FWHM 4.5°  
Efficiency 53 %  
Peak intensity 42.600 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



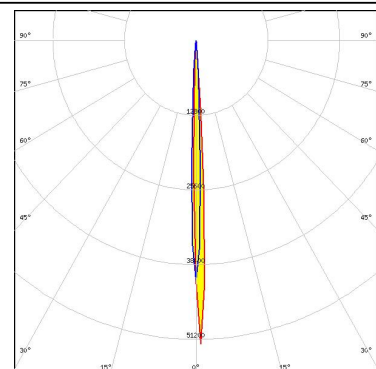
LED LUXEON V2  
FWHM 4.8°  
Efficiency 46 %  
Peak intensity 39.500 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



LED NCSxE17A  
FWHM 3.9°  
Efficiency 42 %  
Peak intensity 49.200 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



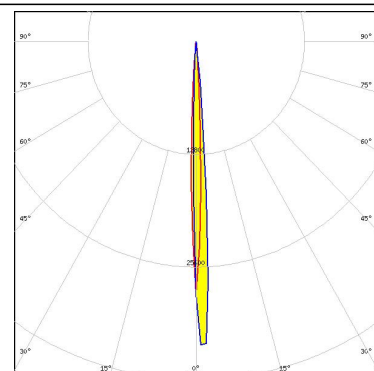
LED NF2x757G  
FWHM 4.6°  
Efficiency 50 %  
Peak intensity 52.240 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



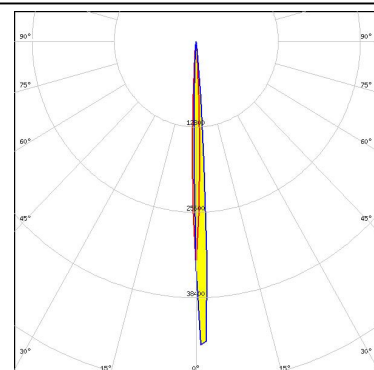
### PHOTOMETRIC DATA (SIMULATED):



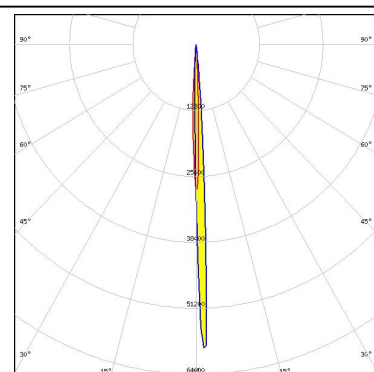
LED NVSW3x9A  
FWHM 2.4°  
Efficiency 44 %  
Peak intensity 34.500 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



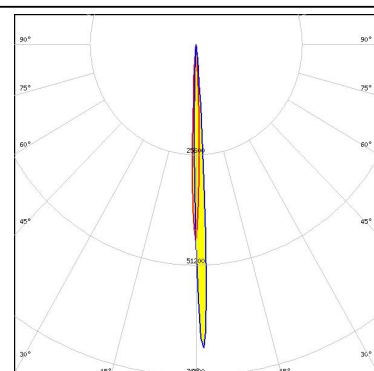
LED NVSxE21A  
FWHM 2.2°  
Efficiency 44 %  
Peak intensity 34.500 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



LED OSLOM Square CSSRM2/CSSRM3  
FWHM 4.0°  
Efficiency 47 %  
Peak intensity 55.000 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



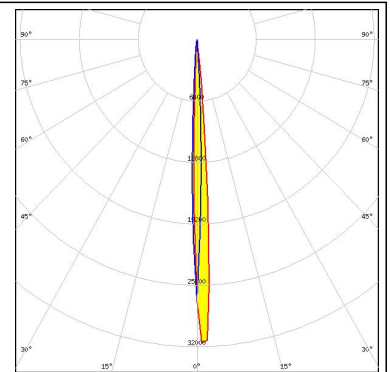
LED OSLOM Square EC  
FWHM 4.0°  
Efficiency 57 %  
Peak intensity 68.000 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



## PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM 5.0°  
Efficiency 41 %  
Peak intensity 31.610 cd/lm  
LEDs/each optic 1  
Light colour Red  
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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#### Distribution Partners

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