

## OLGA-M

~30° spot beam beam. Assembly with holder and installation tape.

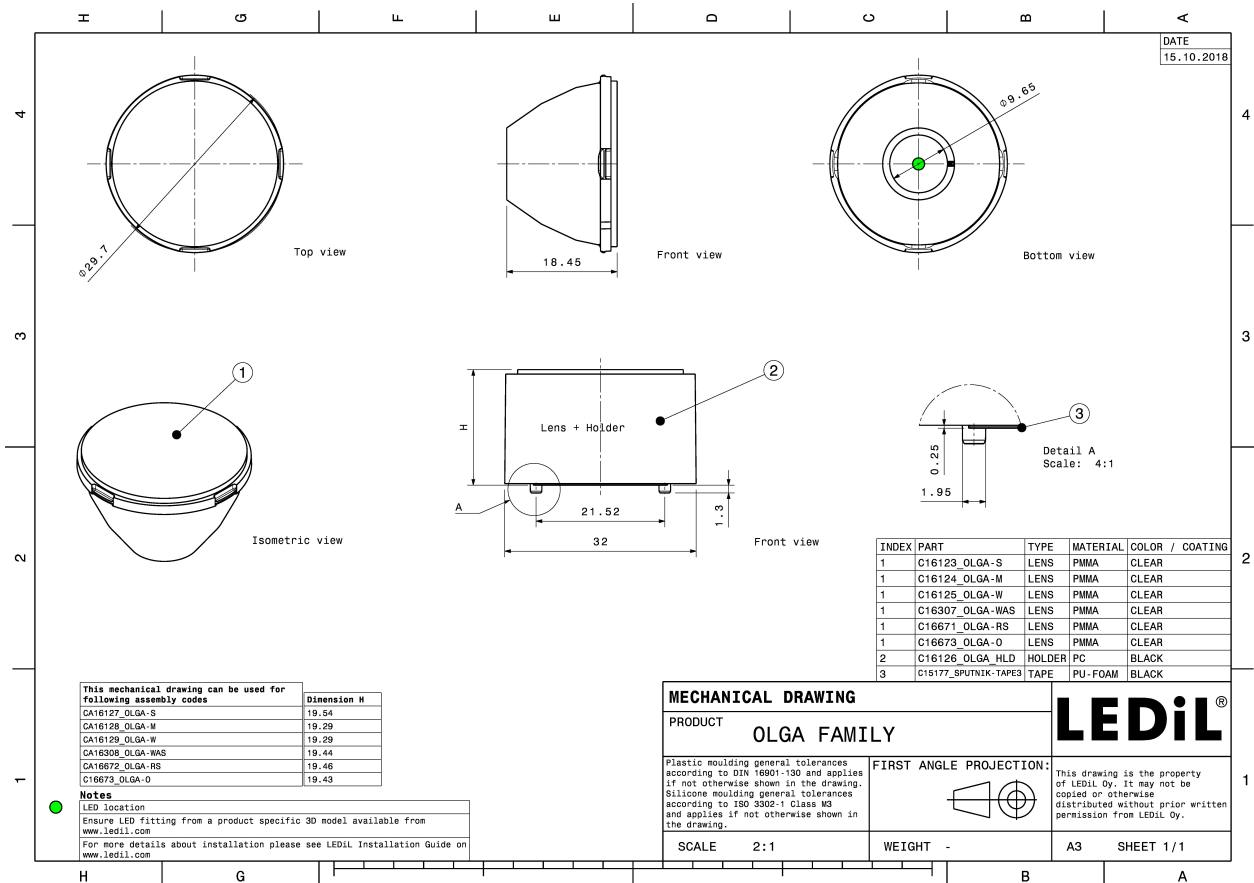
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 32.0 mm
Height	19.1 mm
Fastening	tape, pin
Colour	black
Box size	476 x 273 x 292 mm
Box weight	9.8 kg
Quantity in Box	792 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

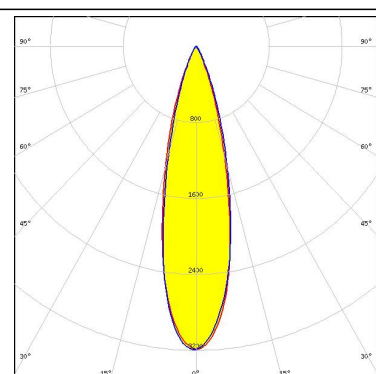
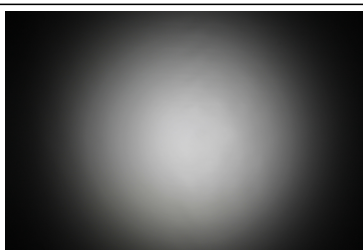
Component	Type	Material	Colour
OLGA-M	Single lens	PMMA	clear
OLGA-HLD	Holder	PC	black
SPUTNIK-TAPE3	Tape	PU tape	black



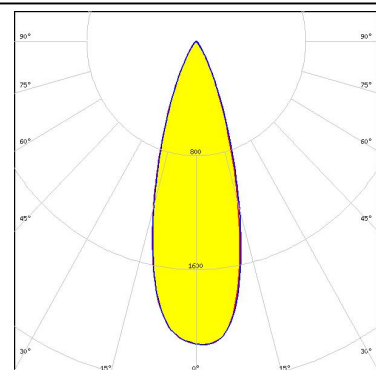
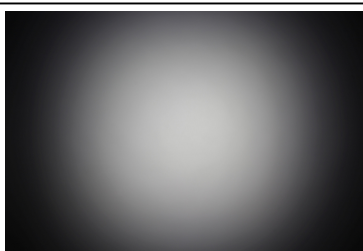
### PHOTOMETRIC DATA (MEASURED):



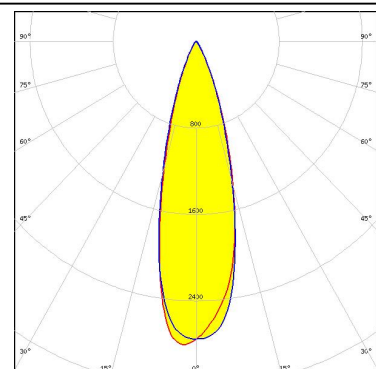
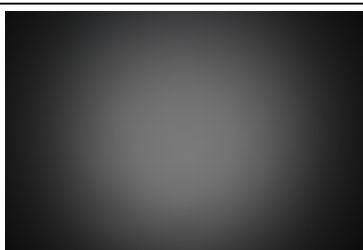
LED XD16  
FWHM 26.0°  
Efficiency 80 %  
Peak intensity 3.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



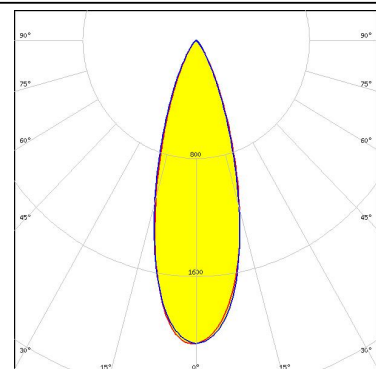
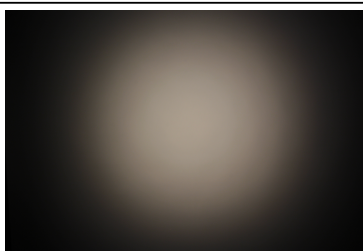
LED XHP35 HD  
FWHM 32.0°  
Efficiency 80 %  
Peak intensity 2.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XHP35 HI  
FWHM 28.0°  
Efficiency 84 %  
Peak intensity 2.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



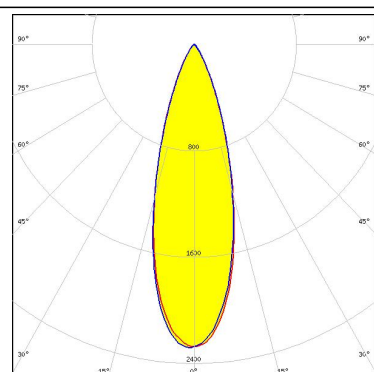
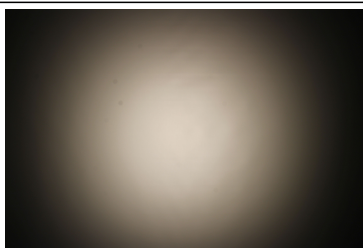
LED XHP50  
FWHM 32.0°  
Efficiency 81 %  
Peak intensity 2.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



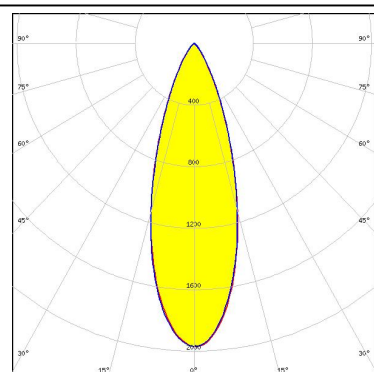
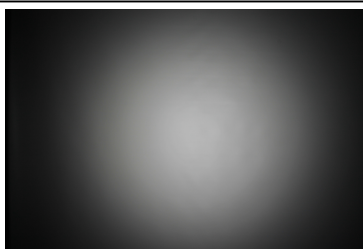
### PHOTOMETRIC DATA (MEASURED):



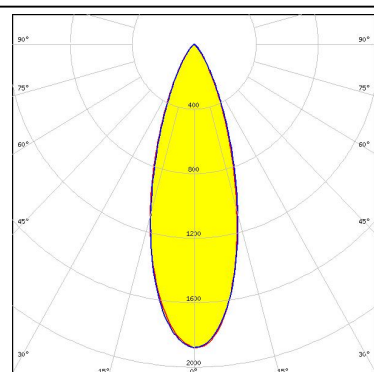
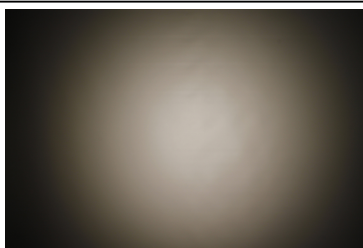
LED XHP50.2  
FWHM 31.0°  
Efficiency 81 %  
Peak intensity 2.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



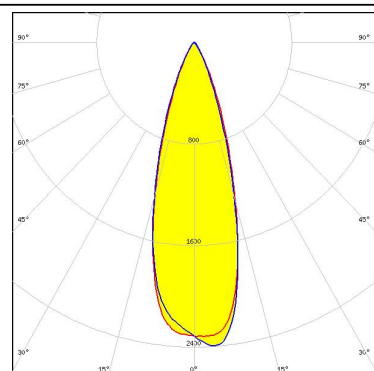
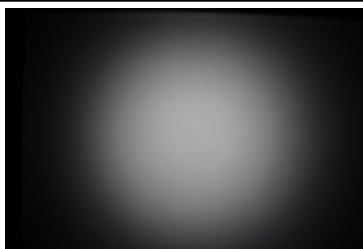
LED XHP70  
FWHM 33.0°  
Efficiency 82 %  
Peak intensity 2.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XHP70.2  
FWHM 34.0°  
Efficiency 81 %  
Peak intensity 1.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XM-L  
FWHM 31.0°  
Efficiency 83 %  
Peak intensity 2.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

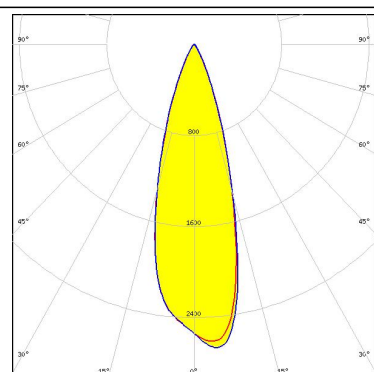
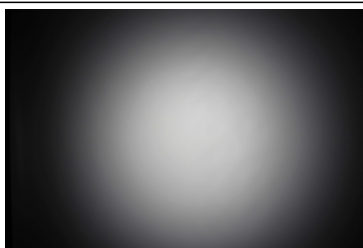




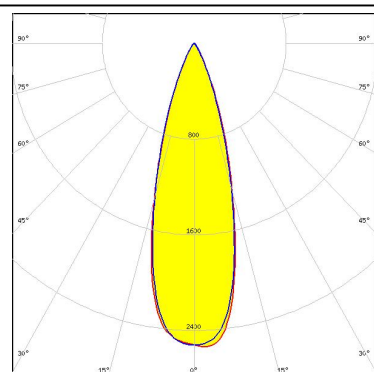
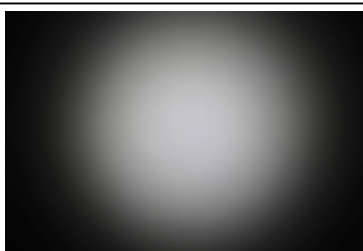
### PHOTOMETRIC DATA (MEASURED):



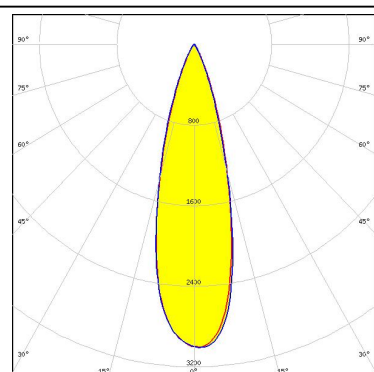
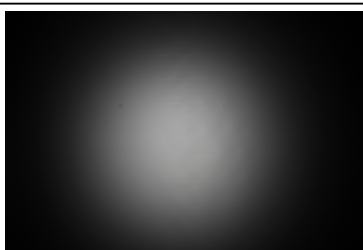
LED XP-G2  
FWHM 30.0°  
Efficiency 83 %  
Peak intensity 2.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



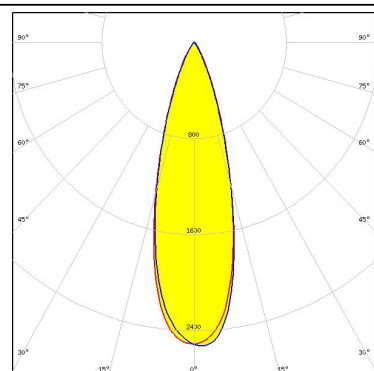
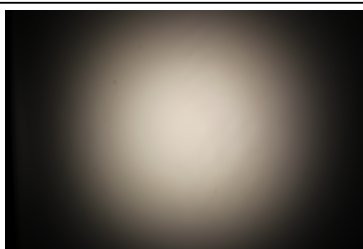
LED XP-G3  
FWHM 31.0°  
Efficiency 82 %  
Peak intensity 2.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-L HI  
FWHM 28.0°  
Efficiency 85 %  
Peak intensity 3.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



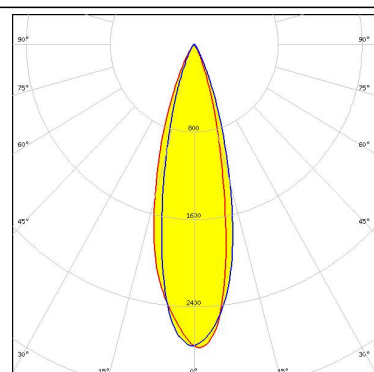
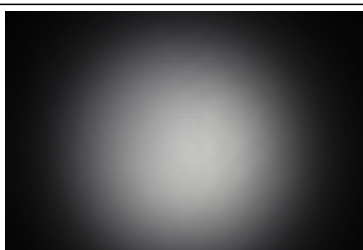
LED XP-L2  
FWHM 30.0°  
Efficiency 81 %  
Peak intensity 2.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



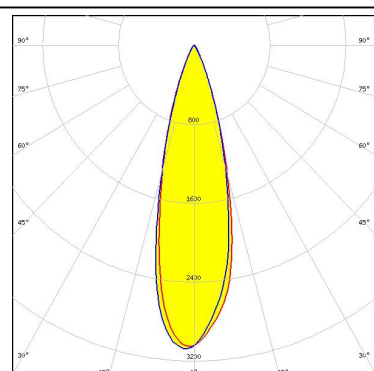
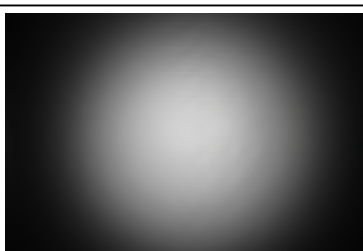
#### PHOTOMETRIC DATA (MEASURED):



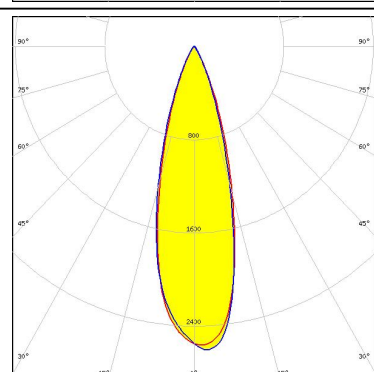
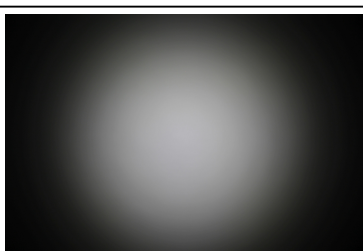
LED XQ-E HD  
FWHM 28.0°  
Efficiency 76 %  
Peak intensity 2.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



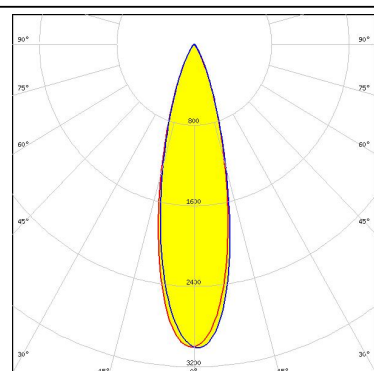
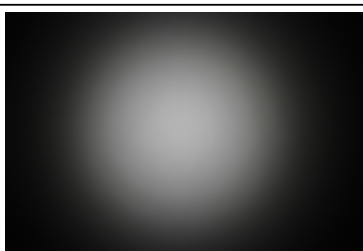
LED XQ-E HI  
FWHM 27.0°  
Efficiency 83 %  
Peak intensity 3.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XT-E  
FWHM 29.0°  
Efficiency 79 %  
Peak intensity 2.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



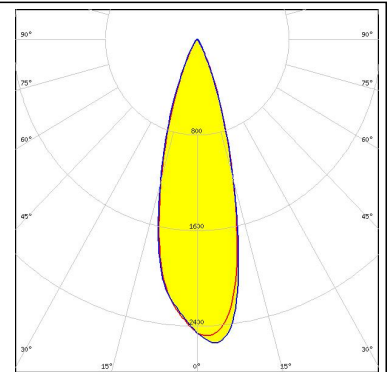
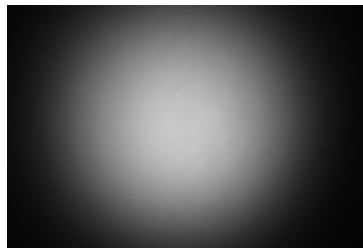
LED LUXEON 5050  
FWHM 27.0°  
Efficiency 86 %  
Peak intensity 3.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



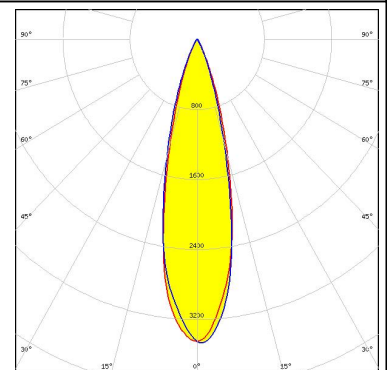
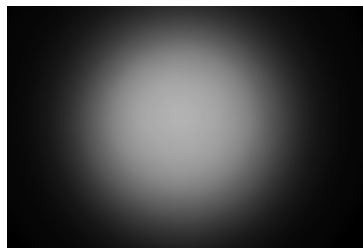
### PHOTOMETRIC DATA (MEASURED):



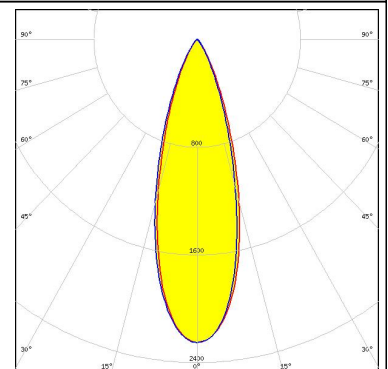
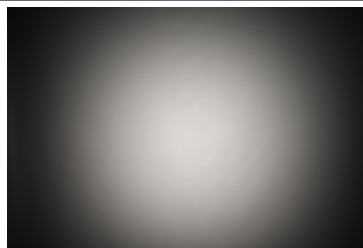
LED LUXEON C  
FWHM 29.0°  
Efficiency 76 %  
Peak intensity 2.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



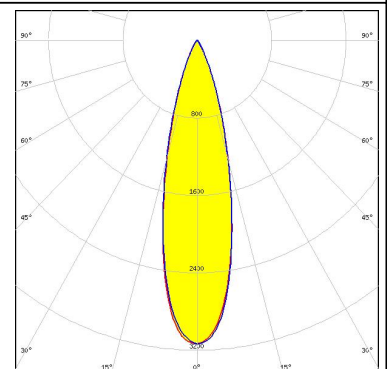
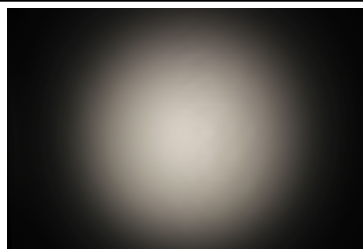
LED LUXEON CZ  
FWHM 26.0°  
Efficiency 85 %  
Peak intensity 3.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON M/MX  
FWHM 31.0°  
Efficiency 84 %  
Peak intensity 2.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



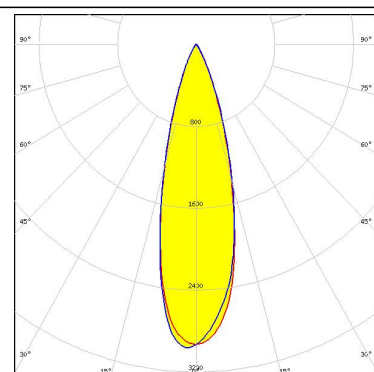
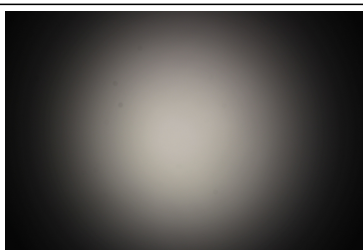
LED LUXEON MZ  
FWHM 26.0°  
Efficiency 85 %  
Peak intensity 3.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

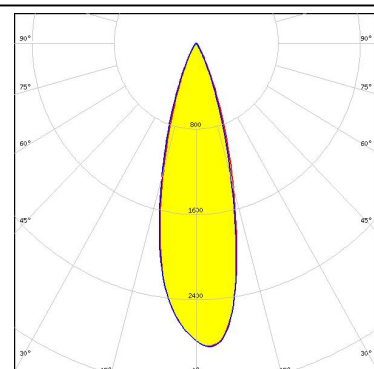
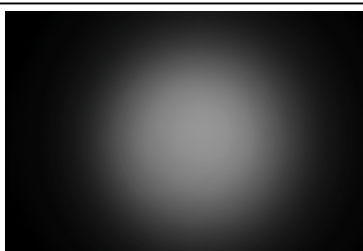
#### LUMILEDS

LED LUXEON Rebel ES  
FWHM 28.0°  
Efficiency 83 %  
Peak intensity 3.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



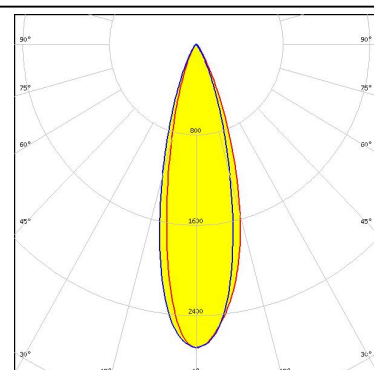
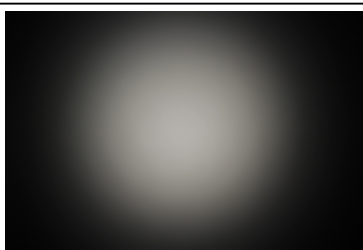
#### LUMILEDS

LED LUXEON TX  
FWHM 29.0°  
Efficiency 83 %  
Peak intensity 2.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



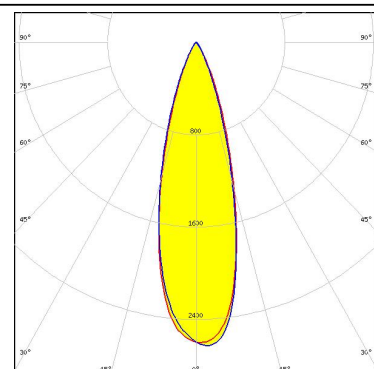
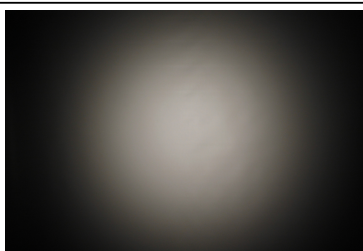
#### LUMILEDS

LED LUXEON V  
FWHM 28.0°  
Efficiency 82 %  
Peak intensity 2.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### LUMILEDS

LED LUXEON V  
FWHM 29.0°  
Efficiency 82 %  
Peak intensity 2.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

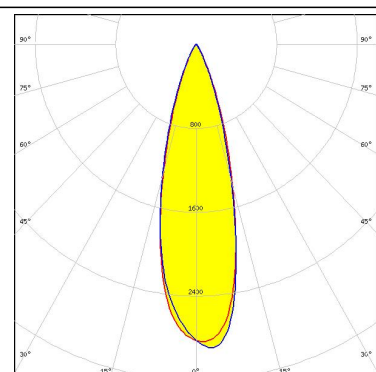
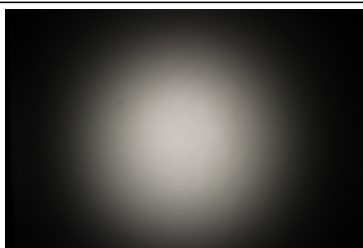




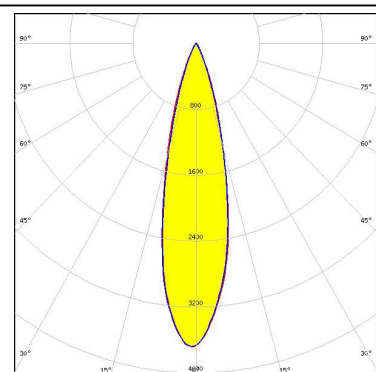
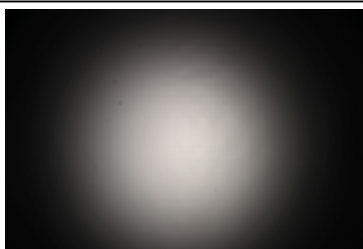
### PHOTOMETRIC DATA (MEASURED):



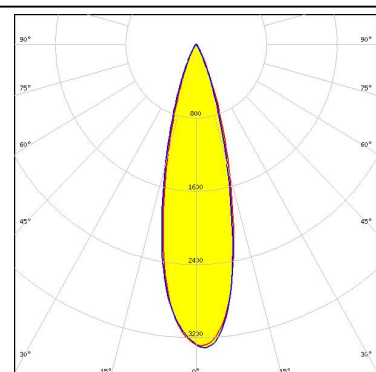
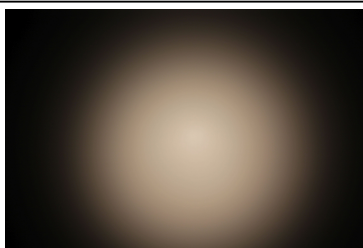
LED LUXEON V2  
FWHM 29.0°  
Efficiency 83 %  
Peak intensity 2.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



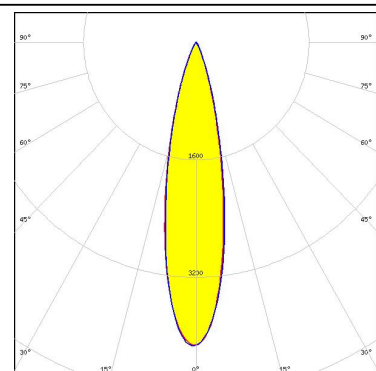
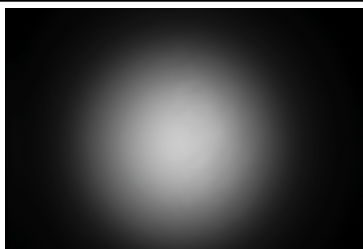
LED LUXEON Z  
FWHM 25.0°  
Efficiency 85 %  
Peak intensity 3.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON Z ES  
FWHM 27.0°  
Efficiency 85 %  
Peak intensity 3.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NCSxE17A  
FWHM 23.0°  
Efficiency 85 %  
Peak intensity 4.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

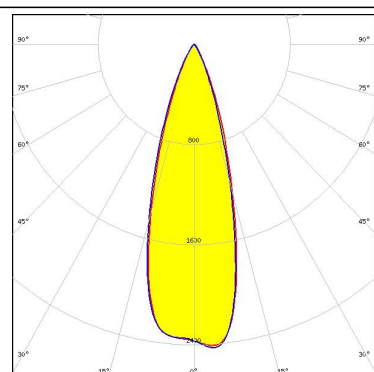
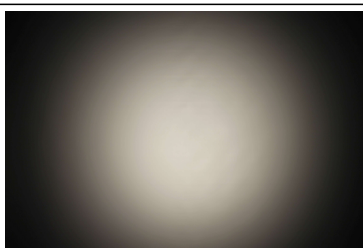




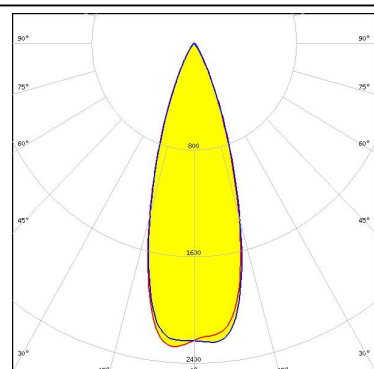
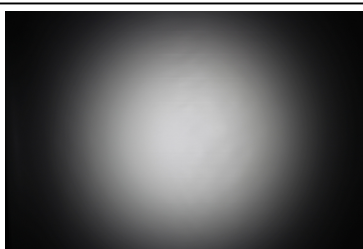
### PHOTOMETRIC DATA (MEASURED):



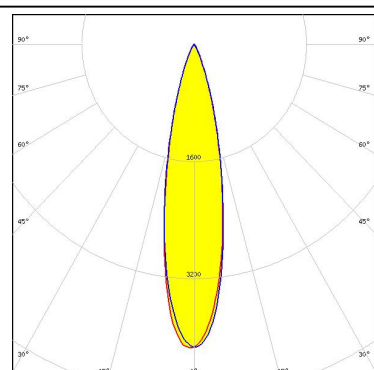
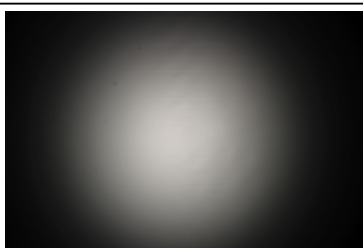
LED NVSW219D  
FWHM 31.0°  
Efficiency 83 %  
Peak intensity 2.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



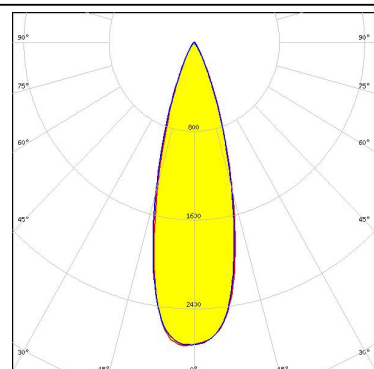
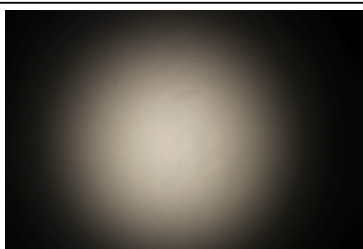
LED NVSW319B  
FWHM 34.0°  
Efficiency 84 %  
Peak intensity 2.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSxE21A  
FWHM 23.0°  
Efficiency 85 %  
Peak intensity 4.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



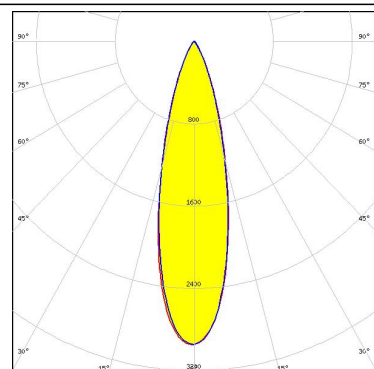
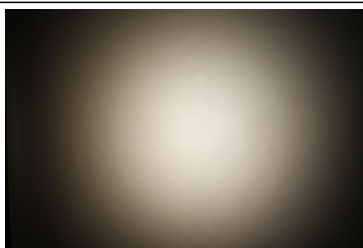
LED NVSxx19B/NVSxx19C  
FWHM 30.0°  
Efficiency 84 %  
Peak intensity 2.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

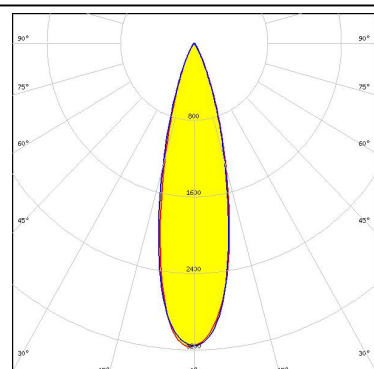
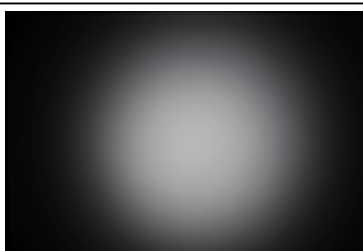
#### OSRAM Opto Semiconductors

LED Duris S8  
FWHM 27.0°  
Efficiency 85 %  
Peak intensity 2.950 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



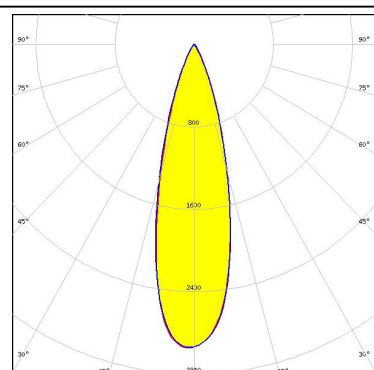
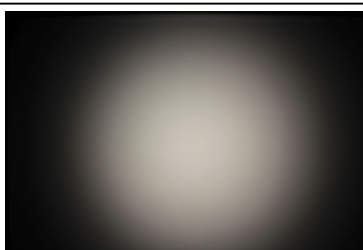
#### OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)  
FWHM 26.0°  
Efficiency 83 %  
Peak intensity 3.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



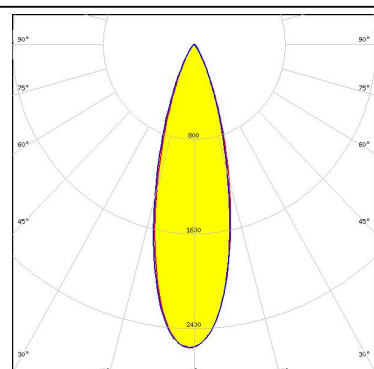
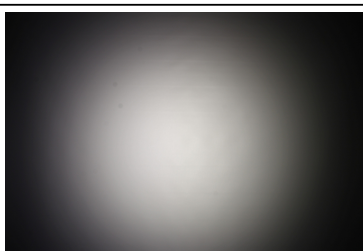
#### OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
FWHM 28.0°  
Efficiency 84 %  
Peak intensity 3.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM Opto Semiconductors

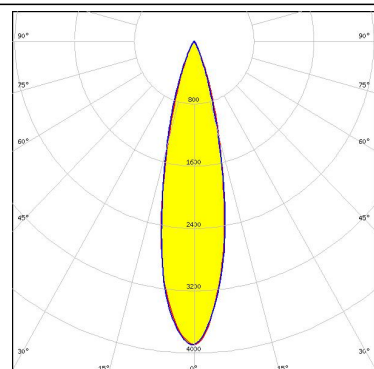
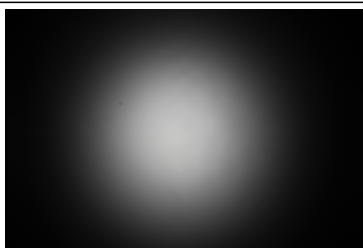
LED OSCONIQ P 7070  
FWHM 29.0°  
Efficiency 83 %  
Peak intensity 2.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

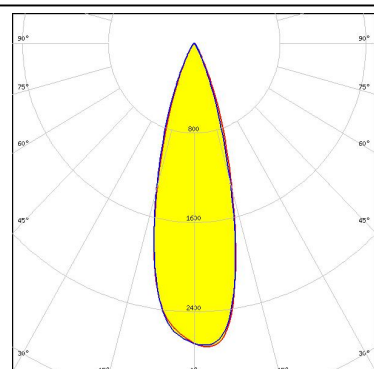
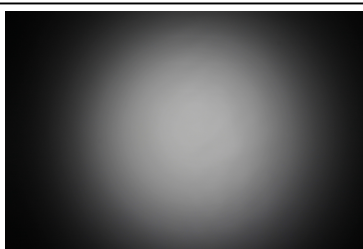
**OSRAM**  
Opto Semiconductors

LED OSLON Black Flat  
FWHM 24.0°  
Efficiency 85 %  
Peak intensity 3.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



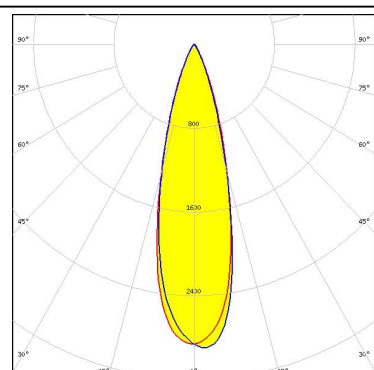
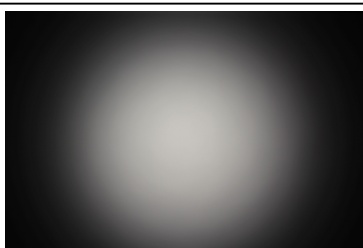
**OSRAM**  
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
FWHM 30.0°  
Efficiency 84 %  
Peak intensity 2.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



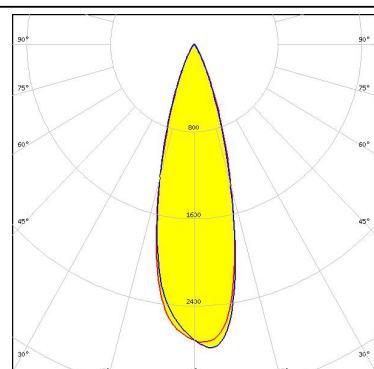
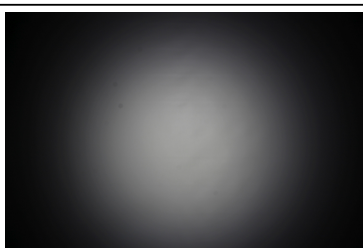
**OSRAM**  
Opto Semiconductors

LED OSLON Square EC  
FWHM 28.0°  
Efficiency 81 %  
Peak intensity 2.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**OSRAM**  
Opto Semiconductors

LED OSLON Square PC  
FWHM 29.0°  
Efficiency 82 %  
Peak intensity 2.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

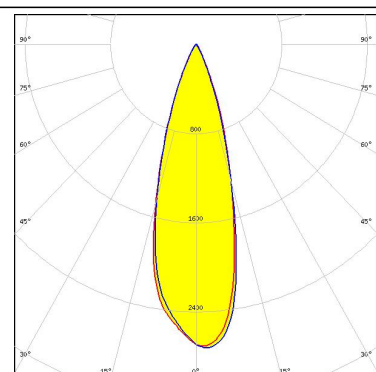
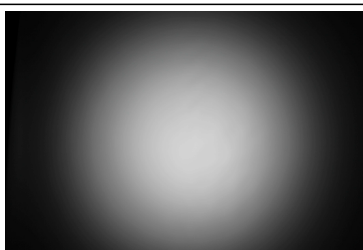


### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

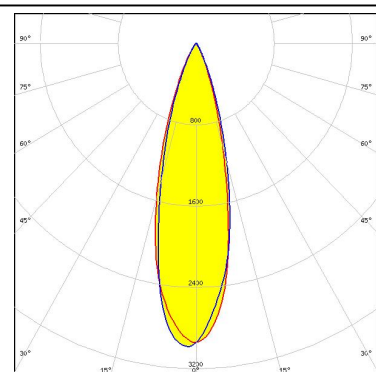
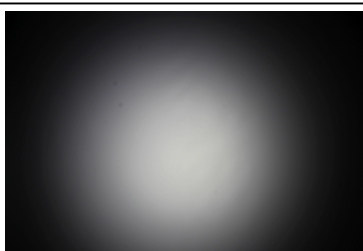
LED OSLON SSL 150  
FWHM 30.0°  
Efficiency 82 %  
Peak intensity 2.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

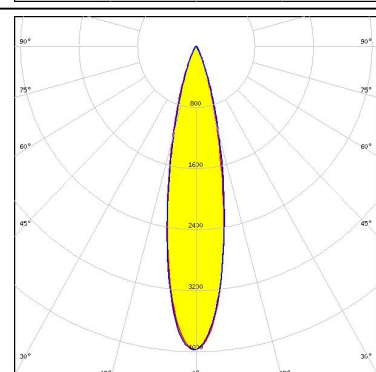
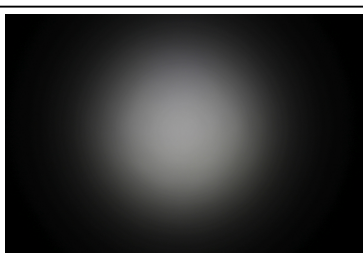
Opto Semiconductors

LED OSLON SSL 80  
FWHM 28.0°  
Efficiency 82 %  
Peak intensity 2.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



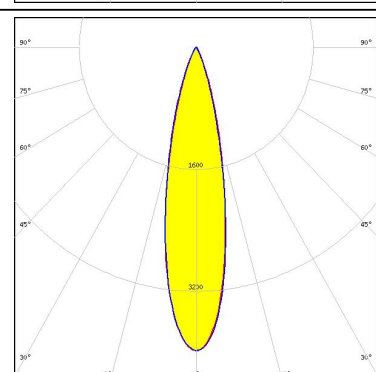
#### SAMSUNG

LED LH181A  
FWHM 22.0°  
Efficiency 81 %  
Peak intensity 4.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SAMSUNG

LED LH181B  
FWHM 23.0°  
Efficiency 85 %  
Peak intensity 3.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

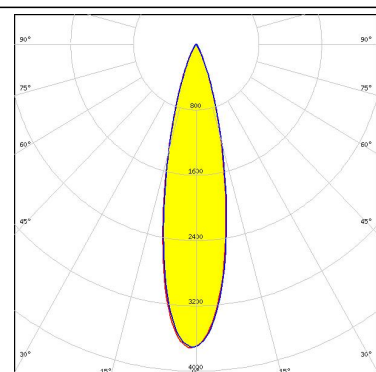
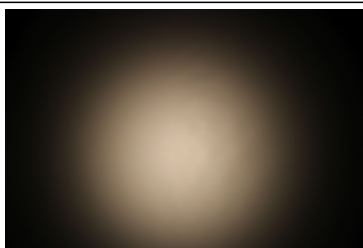




### PHOTOMETRIC DATA (MEASURED):

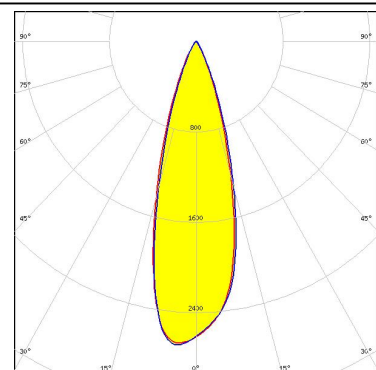
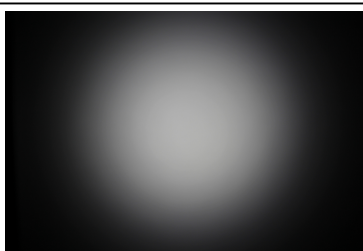
#### SAMSUNG

LED LH231B  
FWHM 24.0°  
Efficiency 86 %  
Peak intensity 3.700 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



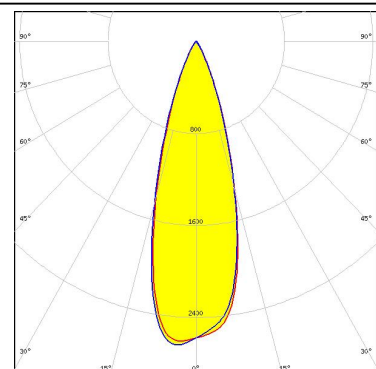
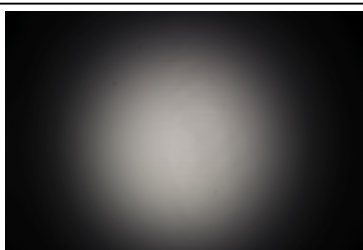
#### SAMSUNG

LED LH351B  
FWHM 30.0°  
Efficiency 84 %  
Peak intensity 2.700 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



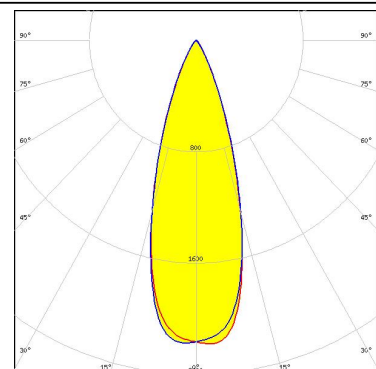
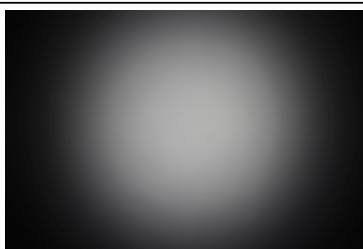
#### SAMSUNG

LED LH351C  
FWHM 31.0°  
Efficiency 85 %  
Peak intensity 2.700 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



#### SAMSUNG

LED LH351D  
FWHM 33.0°  
Efficiency 83 %  
Peak intensity 2.200 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:

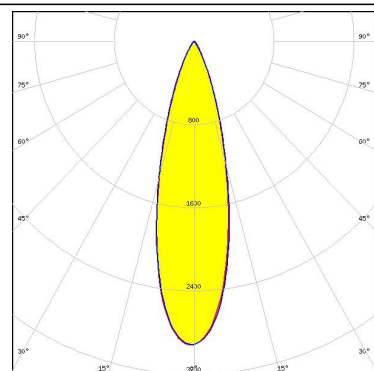
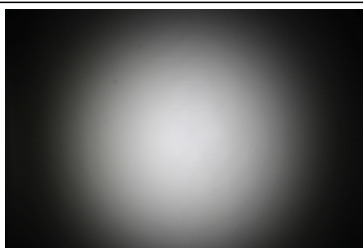




### PHOTOMETRIC DATA (MEASURED):

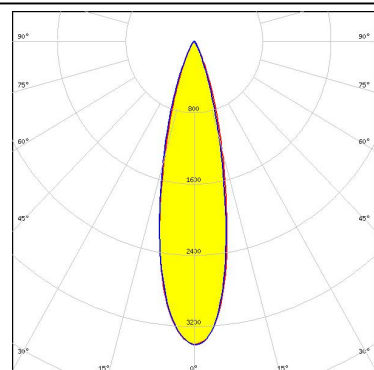
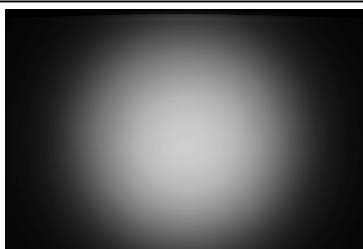
#### SAMSUNG

LED LH508A  
FWHM 28.0°  
Efficiency 85 %  
Peak intensity 2.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



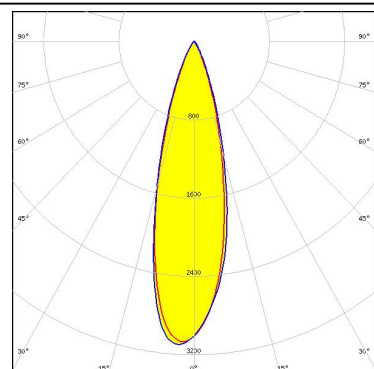
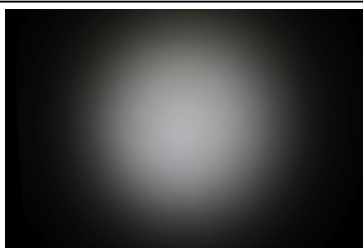
#### SAMSUNG

LED LM302A  
FWHM 25.0°  
Efficiency 85 %  
Peak intensity 3.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



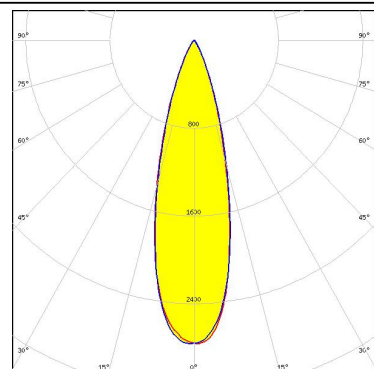
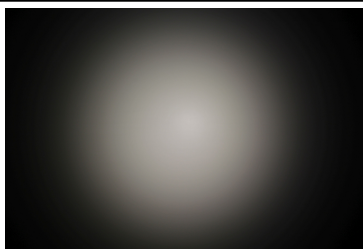
#### SAMSUNG

LED LM561B  
FWHM 27.0°  
Efficiency 85 %  
Peak intensity 3.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOL SEMICONDUCTOR

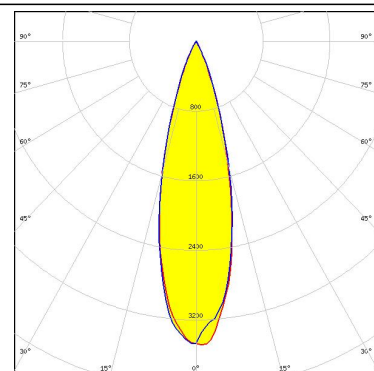
LED Z5M3  
FWHM 28.0°  
Efficiency 82 %  
Peak intensity 2.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



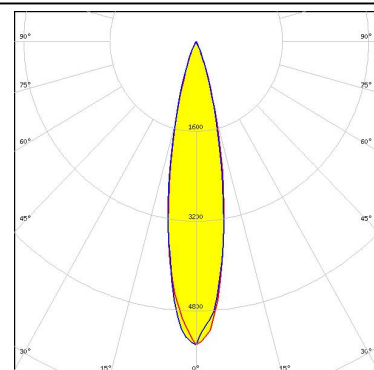
### PHOTOMETRIC DATA (SIMULATED):



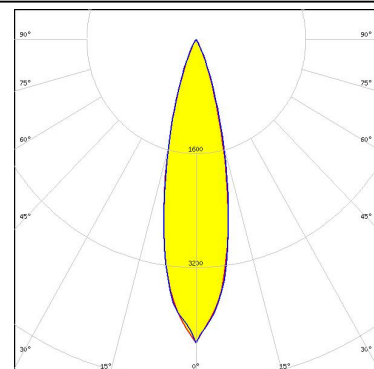
LED XHP50  
FWHM 28.0°  
Efficiency 91 %  
Peak intensity 3.549 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



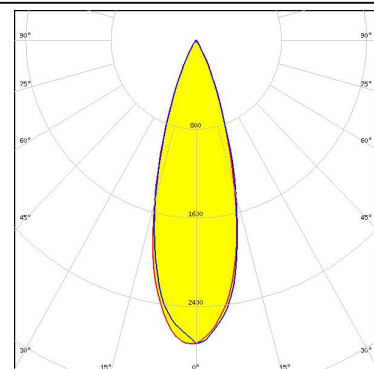
LED LUXEON MZ  
FWHM 22.0°  
Efficiency 91 %  
Peak intensity 5.407 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NFMW48xA  
FWHM 25.0°  
Efficiency 92 %  
Peak intensity 4.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NV4x144A  
FWHM 31.0°  
Efficiency 86 %  
Peak intensity 2.740 cd/lm  
LEDs/each optic 1  
Light colour White  
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.

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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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