

## OLGA-M

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

### SPECIFICATION:

Dimensions	Ø 32.0 mm
Height	19.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

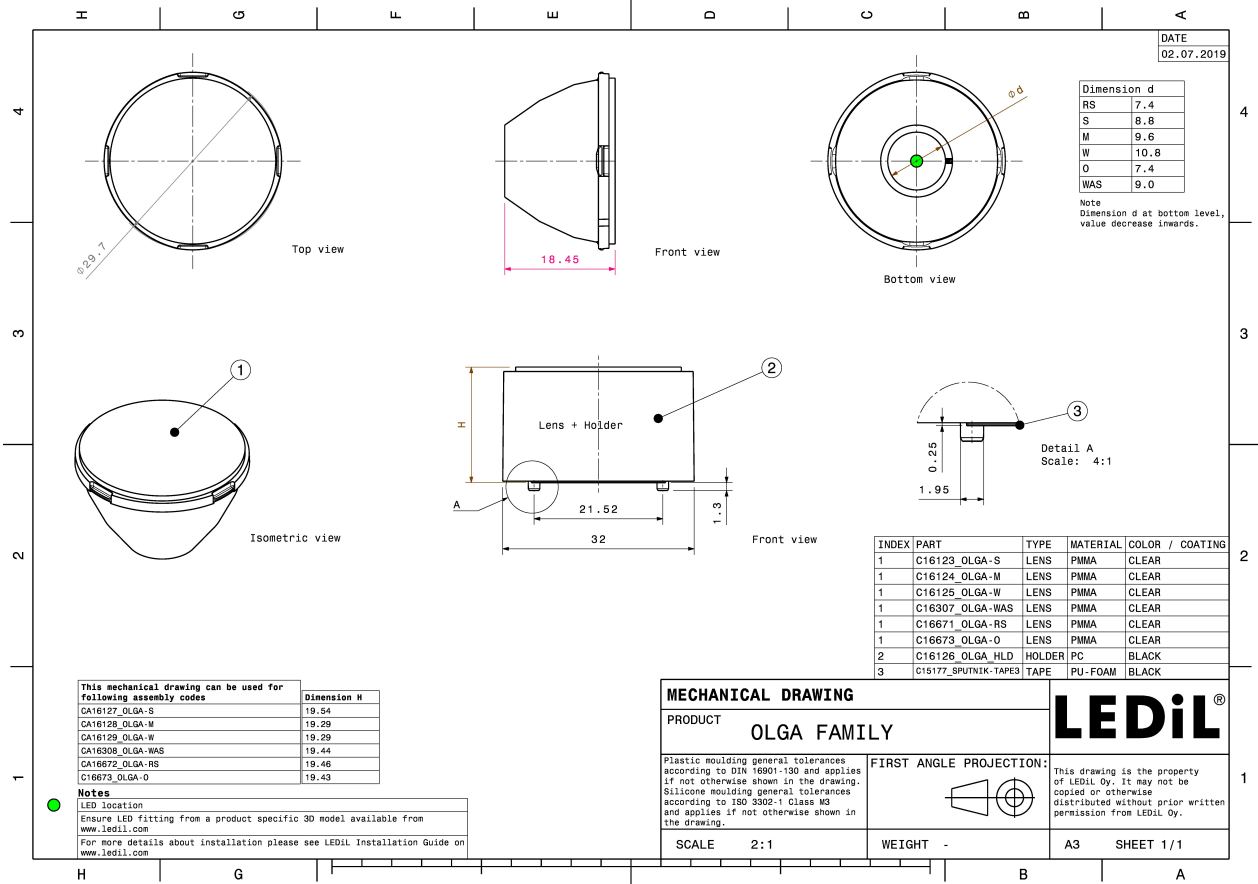
### MATERIALS:

Component	Type	Material	Colour	Finish
OLGA-M	Single lens	PMMA	clear	
OLGA-HLD	Holder	PC	black	
SPUTNIK-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA16128_OLGA-M	Single lens	792	132	66	9.8
» Box size: 476 x 273 x 292 mm					


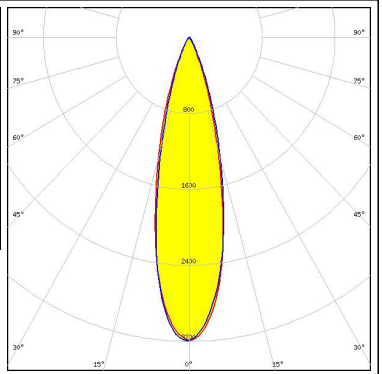

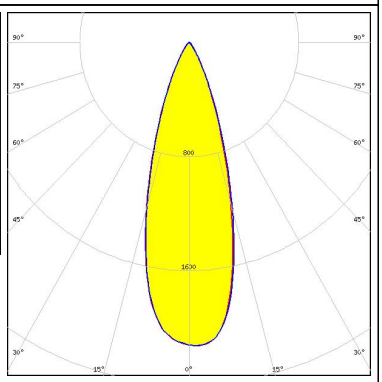

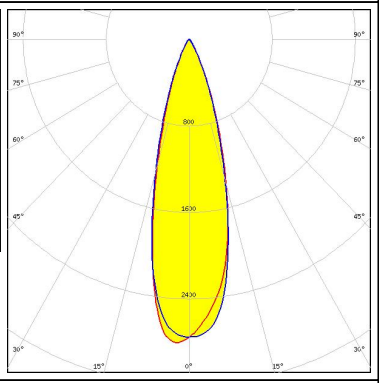

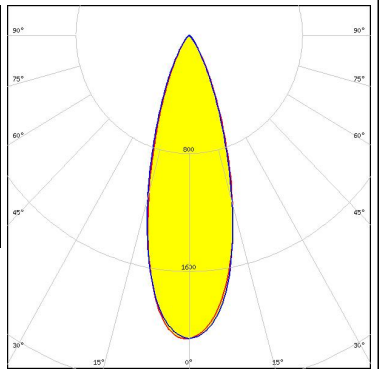




See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)



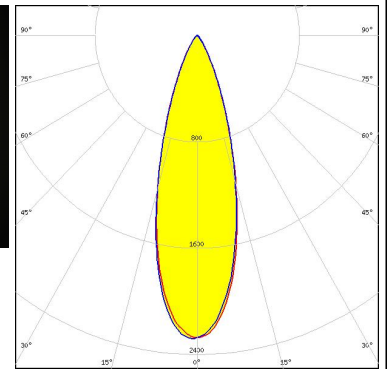
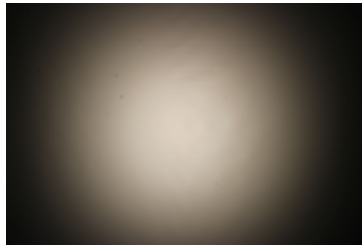
### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED                   XD16 FWHM / FWTM       26.0° / 48.0° Efficiency            80 % Peak intensity       3.2 cd/m LEDs/each optic     1 Light colour         White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED                   XHP35 HD FWHM / FWTM       32.0° / 58.0° Efficiency            80 % Peak intensity       2.1 cd/m LEDs/each optic     1 Light colour         White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED                   XHP35 HI FWHM / FWTM       28.0° / 51.0° Efficiency            84 % Peak intensity       2.8 cd/m LEDs/each optic     1 Light colour         White Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED                   XHP50 FWHM / FWTM       32.0° / 60.0° Efficiency            81 % Peak intensity       2.1 cd/m LEDs/each optic     1 Light colour         White Required components:</p>		

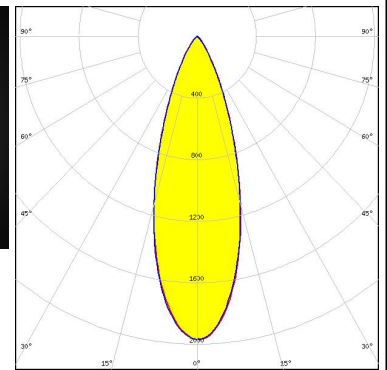
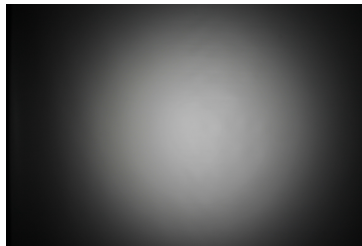
### OPTICAL RESULTS (MEASURED):



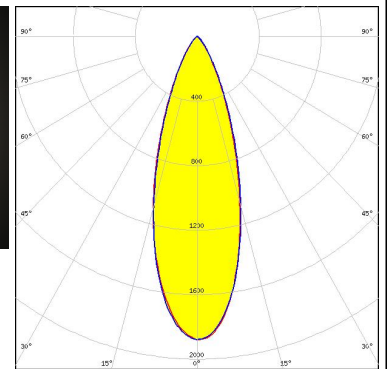
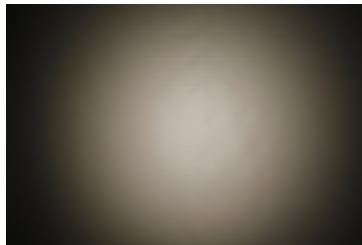
LED XHP50.2  
 FWHM / FWTM 31.0° / 58.0°  
 Efficiency 81 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



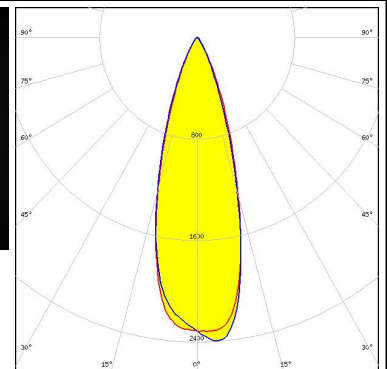
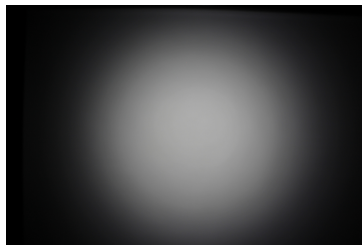
LED XHP70  
 FWHM / FWTM 33.0° / 63.0°  
 Efficiency 82 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




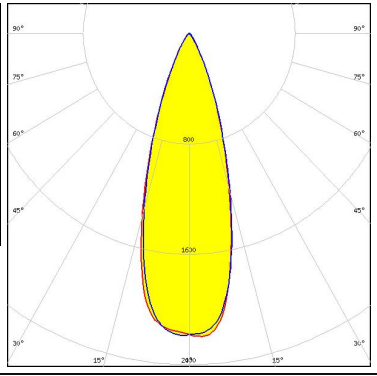

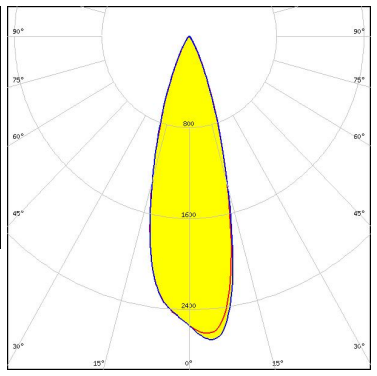

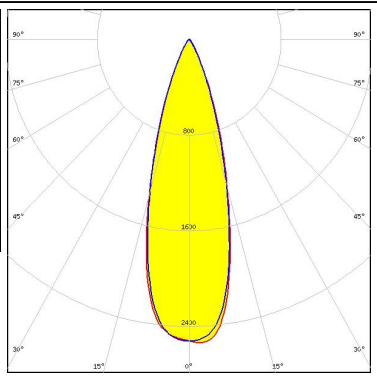

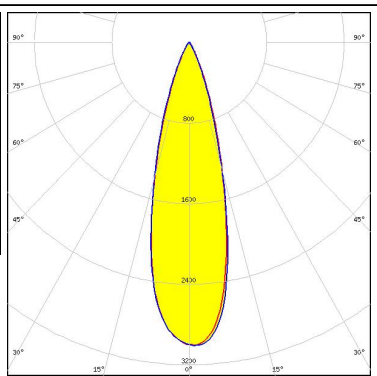
LED XHP70.2  
 FWHM / FWTM 34.0° / 64.0°  
 Efficiency 81 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XM-L  
 FWHM / FWTM 31.0° / 55.0°  
 Efficiency 83 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



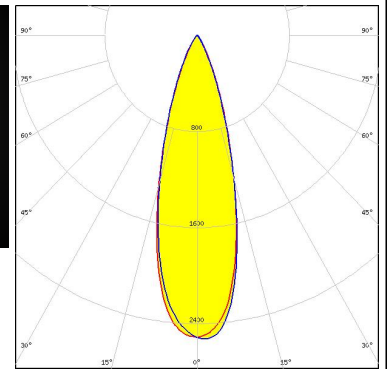
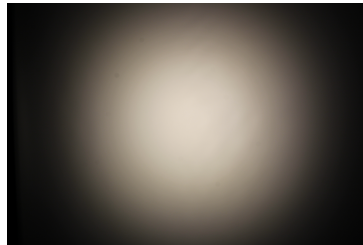
### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED XM-L3            FWHM / FWTM 33.0° / 57.0°            Efficiency 81 %            Peak intensity 2.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-G2            FWHM / FWTM 30.0° / 53.0°            Efficiency 83 %            Peak intensity 2.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-G3            FWHM / FWTM 31.0° / 54.0°            Efficiency 82 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XP-L HI            FWHM / FWTM 28.0° / 50.0°            Efficiency 85 %            Peak intensity 3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

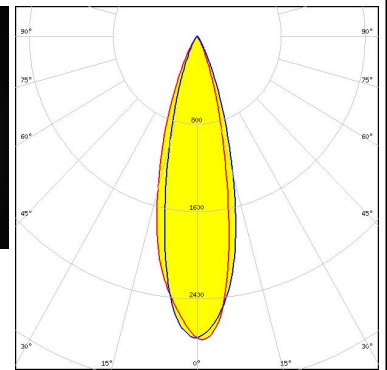
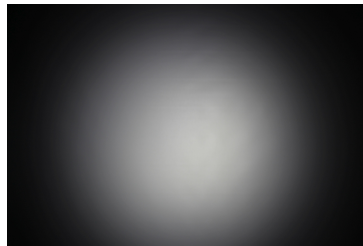
### OPTICAL RESULTS (MEASURED):



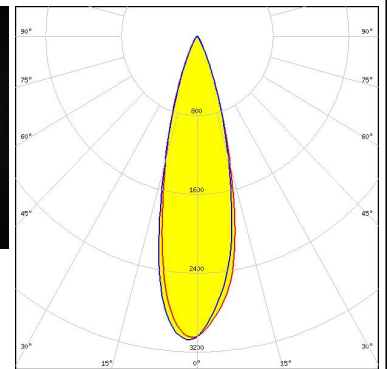
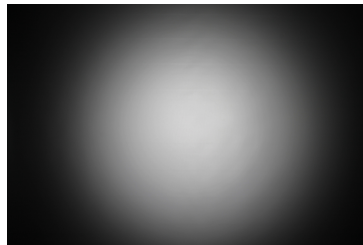
LED XP-L2  
 FWHM / FWTM 30.0° / 54.0°  
 Efficiency 81 %  
 Peak intensity 2.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



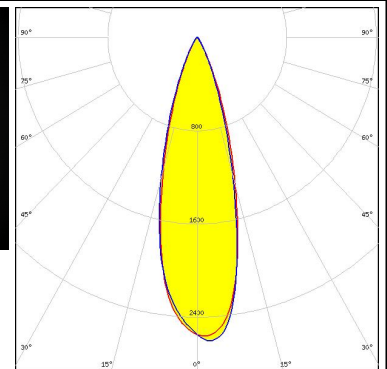
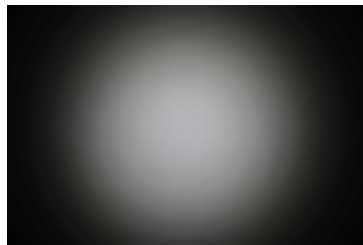
LED XQ-E HD  
 FWHM / FWTM 28.0° / 51.0°  
 Efficiency 76 %  
 Peak intensity 2.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XQ-E HI  
 FWHM / FWTM 27.0° / 49.0°  
 Efficiency 83 %  
 Peak intensity 3.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



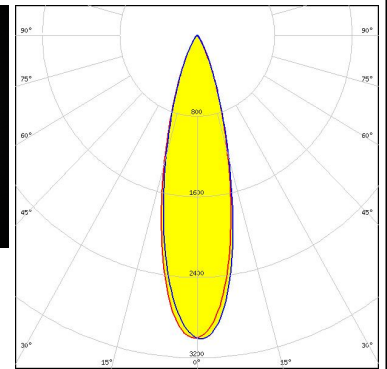
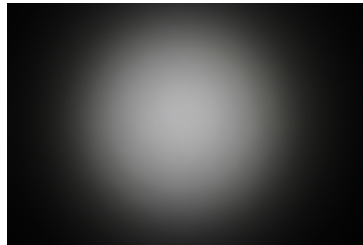
LED XT-E  
 FWHM / FWTM 29.0° / 53.0°  
 Efficiency 79 %  
 Peak intensity 2.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

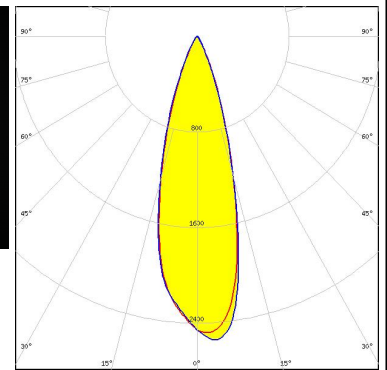
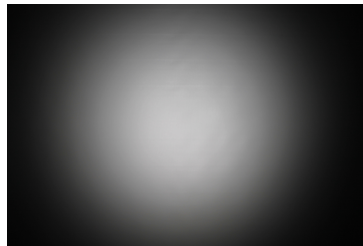
#### LUMILEDS

LED LUXEON 5050 Round LES  
 FWHM / FWTM 27.0° / 52.0°  
 Efficiency 86 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



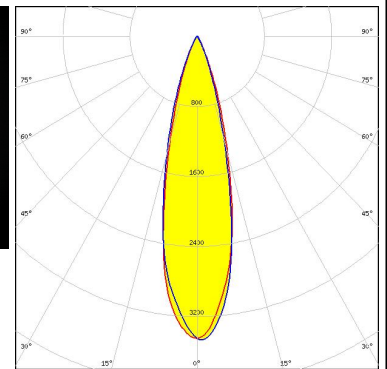
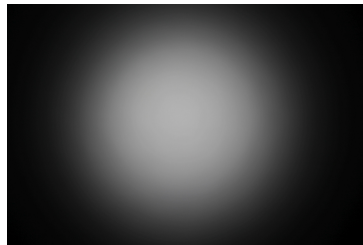
#### LUMILEDS

LED LUXEON C  
 FWHM / FWTM 29.0° / 52.0°  
 Efficiency 76 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



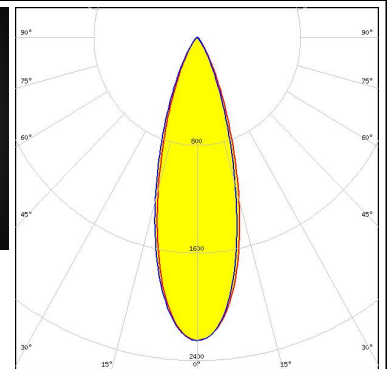
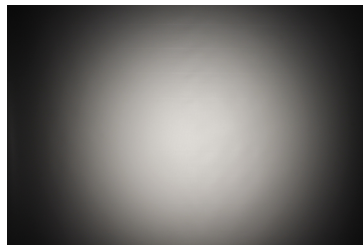
#### LUMILEDS

LED LUXEON CZ  
 FWHM / FWTM 26.0° / 47.0°  
 Efficiency 85 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

LED LUXEON M/MX  
 FWHM / FWTM 31.0° / 59.0°  
 Efficiency 84 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

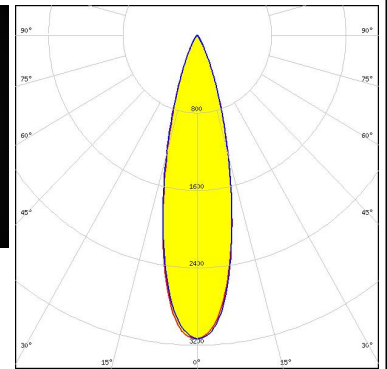
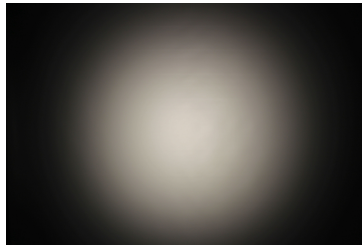




### OPTICAL RESULTS (MEASURED):

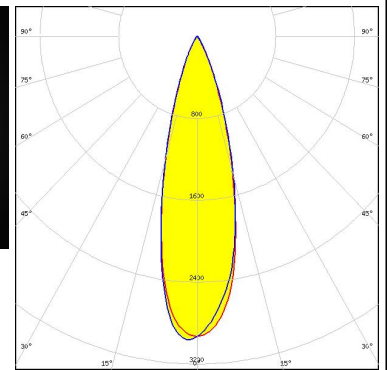
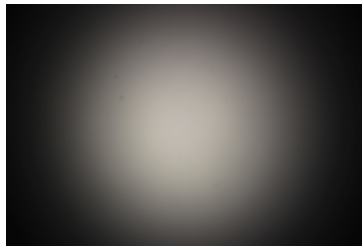
#### LUMILEDS

LED LUXEON MZ  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 85 %  
 Peak intensity 3.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



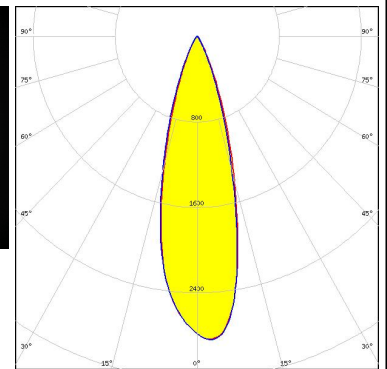
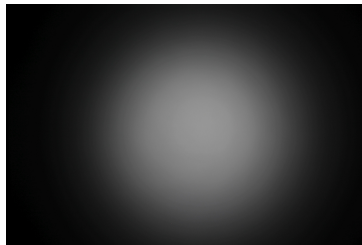
#### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 28.0° / 51.0°  
 Efficiency 83 %  
 Peak intensity 3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



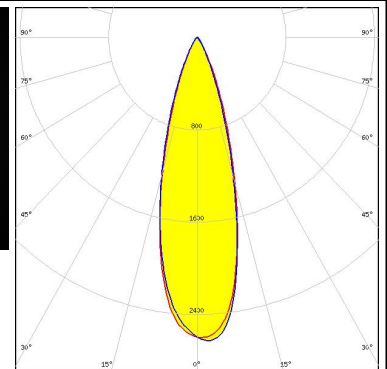
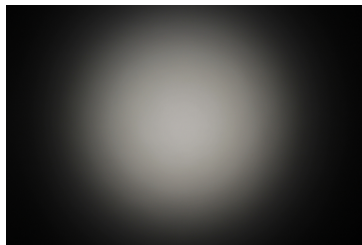
#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 29.0° / 51.0°  
 Efficiency 83 %  
 Peak intensity 2.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

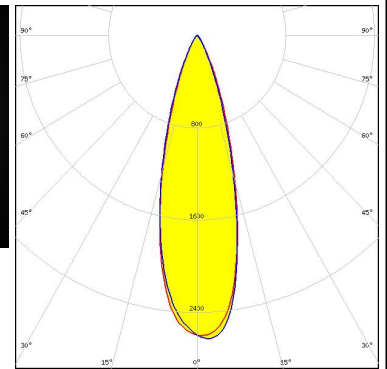
LED LUXEON V  
 FWHM / FWTM 28.0° / 53.0°  
 Efficiency 82 %  
 Peak intensity 2.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

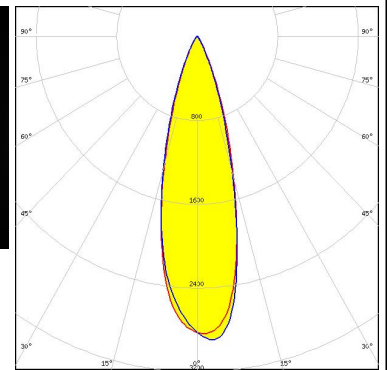
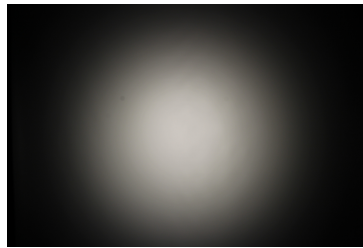
#### LUMILEDS

LED LUXEON V  
FWHM / FWTM 29.0° / 54.0°  
Efficiency 82 %  
Peak intensity 2.6 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



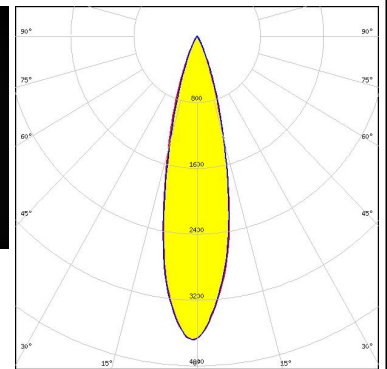
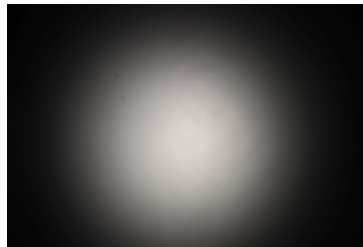
#### LUMILEDS

LED LUXEON V2  
FWHM / FWTM 29.0° / 51.0°  
Efficiency 83 %  
Peak intensity 2.9 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



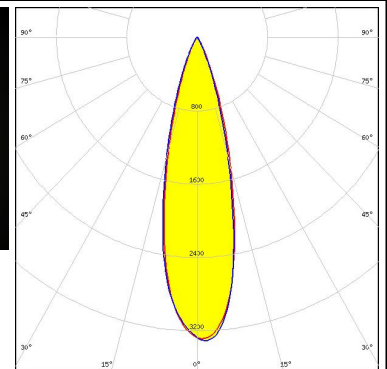
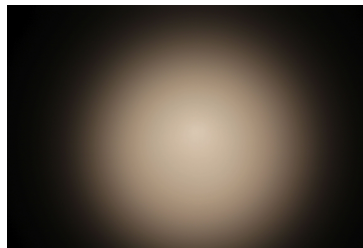
#### LUMILEDS

LED LUXEON Z  
FWHM / FWTM 25.0° / 46.0°  
Efficiency 85 %  
Peak intensity 3.7 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



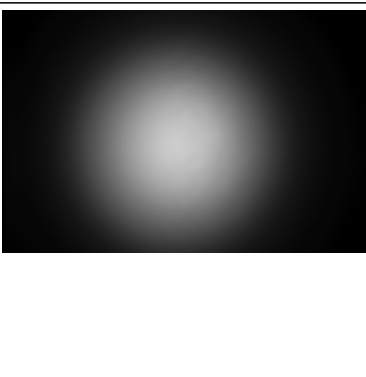
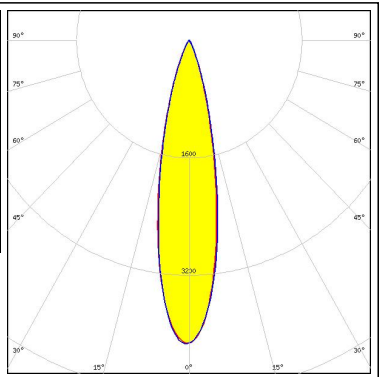

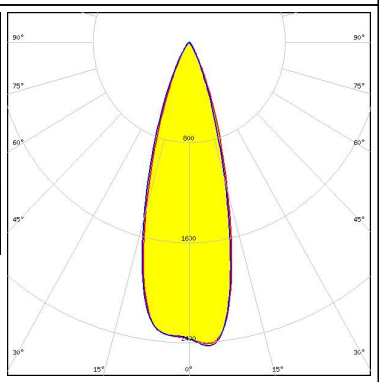

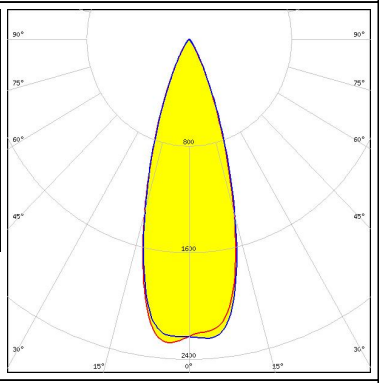

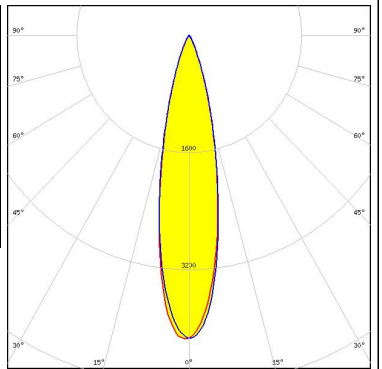
#### LUMILEDS

LED LUXEON Z ES  
FWHM / FWTM 27.0° / 49.0°  
Efficiency 85 %  
Peak intensity 3.3 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:


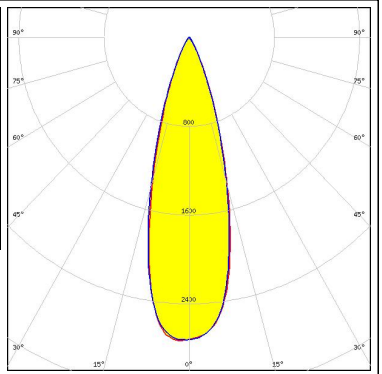

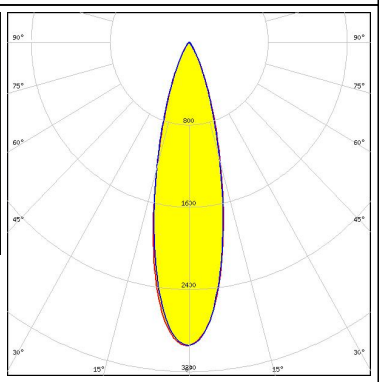

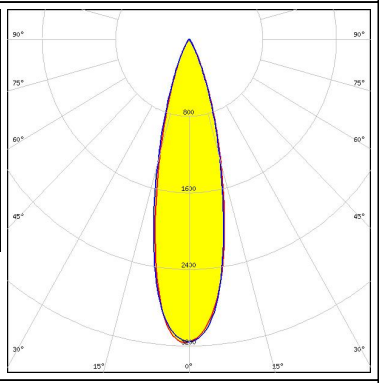

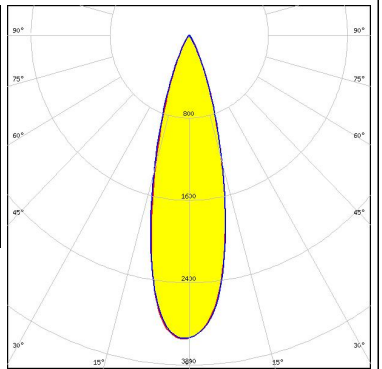




### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NCSxE17A            FWHM / FWTM 23.0° / 44.0°            Efficiency 85 %            Peak intensity 4.1 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW219D            FWHM / FWTM 31.0° / 54.0°            Efficiency 83 %            Peak intensity 2.4 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW319B            FWHM / FWTM 34.0° / 56.0°            Efficiency 84 %            Peak intensity 2.3 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM / FWTM 23.0° / 44.0°            Efficiency 85 %            Peak intensity 4.2 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

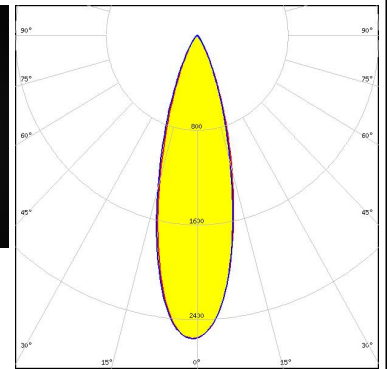
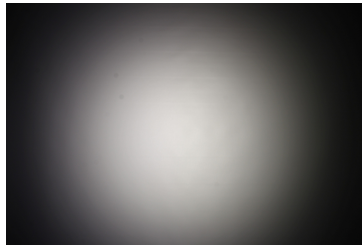
#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 30.0° / 52.0°            Efficiency 84 %            Peak intensity 2.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S8            FWHM / FWTM 27.0° / 53.0°            Efficiency 85 %            Peak intensity 3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3737 (2W version)            FWHM / FWTM 26.0° / 49.0°            Efficiency 83 %            Peak intensity 3.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3737 (3W version)            FWHM / FWTM 28.0° / 51.0°            Efficiency 84 %            Peak intensity 3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

### OPTICAL RESULTS (MEASURED):

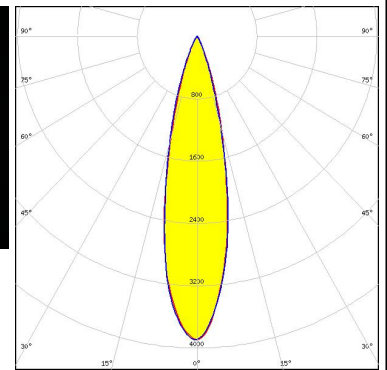
#### OSRAM Opto Semiconductors

LED OSCONIQ P 7070  
 FWHM / FWTM 29.0° / 55.0°  
 Efficiency 83 %  
 Peak intensity 2.6 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:



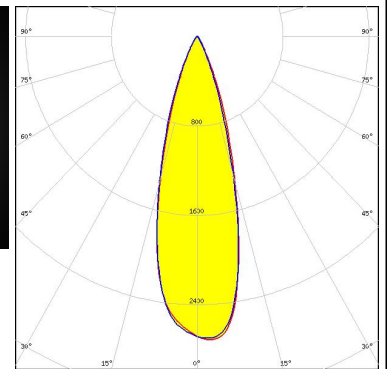
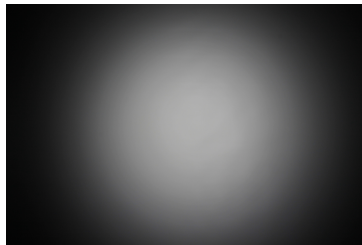
#### OSRAM Opto Semiconductors

LED OSLON Black Flat (LUW HWQP)  
 FWHM / FWTM 24.0° / 45.0°  
 Efficiency 85 %  
 Peak intensity 3.9 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:



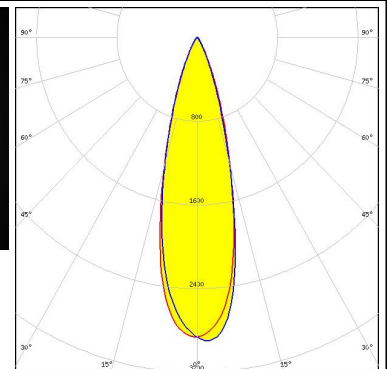
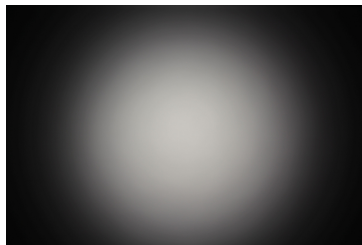
#### OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 30.0° / 52.0°  
 Efficiency 84 %  
 Peak intensity 2.7 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM Opto Semiconductors

LED OSLON Square EC  
 FWHM / FWTM 28.0° / 51.0°  
 Efficiency 81 %  
 Peak intensity 2.9 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:

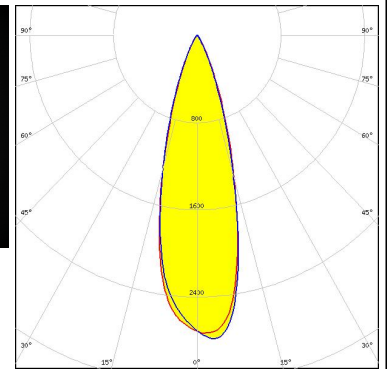
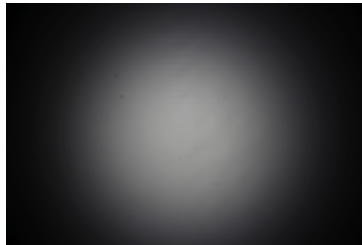


### OPTICAL RESULTS (MEASURED):

#### OSRAM<sup>®</sup>

Opto Semiconductors

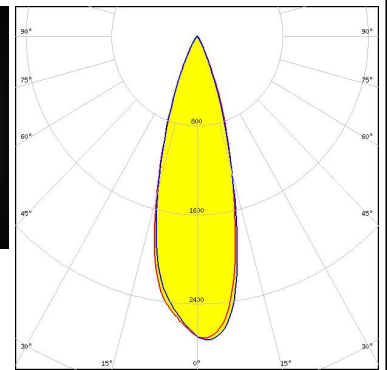
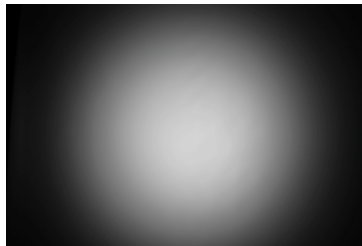
LED OSLON Square PC  
 FWHM / FWTM 29.0° / 52.0°  
 Efficiency 82 %  
 Peak intensity 2.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM<sup>®</sup>

Opto Semiconductors

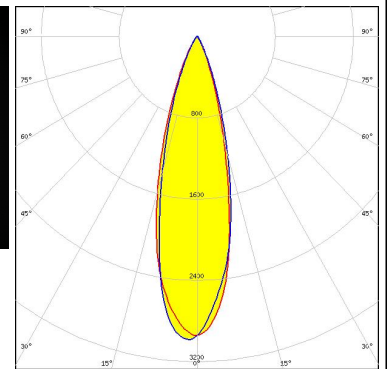
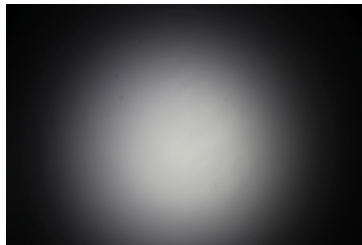
LED OSLON SSL 150  
 FWHM / FWTM 30.0° / 51.0°  
 Efficiency 82 %  
 Peak intensity 2.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM<sup>®</sup>

Opto Semiconductors

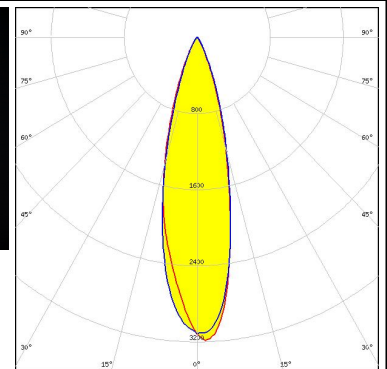
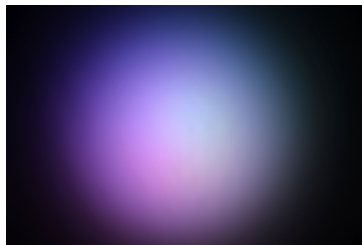
LED OSLON SSL 80  
 FWHM / FWTM 28.0° / 51.0°  
 Efficiency 82 %  
 Peak intensity 2.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM<sup>®</sup>

Opto Semiconductors

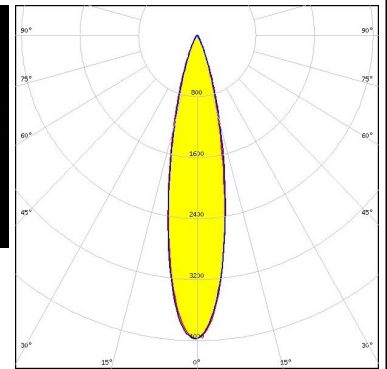
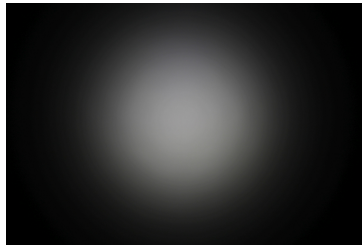
LED OSTAR Stage (S2WN)  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 84 %  
 Peak intensity 3.2 cd/m  
 LEDs/each optic 1  
 Light colour RGBW  
 Required components:



#### OPTICAL RESULTS (MEASURED):

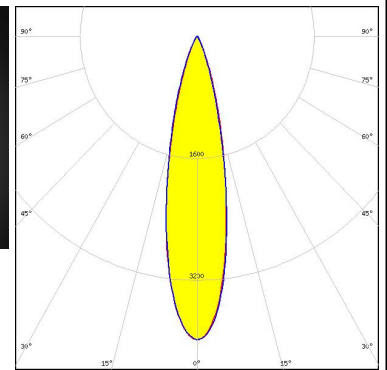
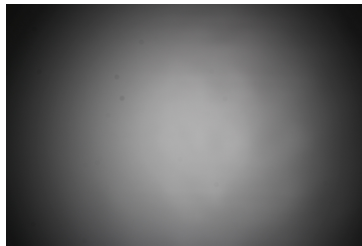
### SAMSUNG

LED LH181A  
 FWHM / FWTM 22.0° / 44.0°  
 Efficiency 81 %  
 Peak intensity 4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



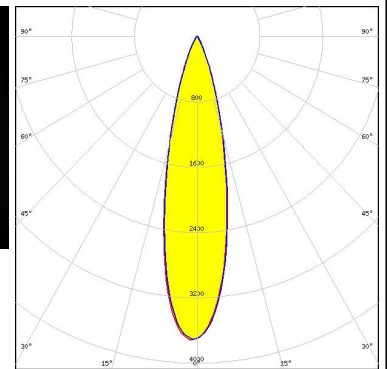
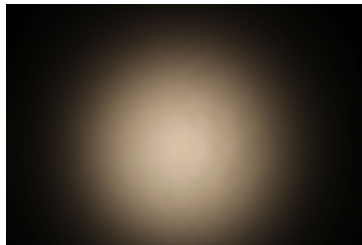
### SAMSUNG

LED LH181B  
 FWHM / FWTM 23.0° / 45.0°  
 Efficiency 85 %  
 Peak intensity 3.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



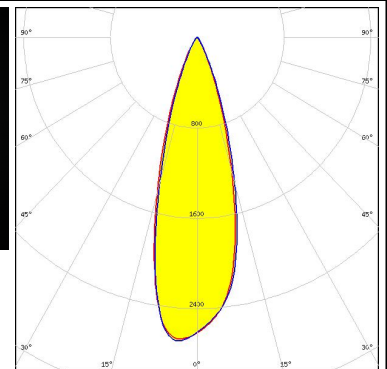
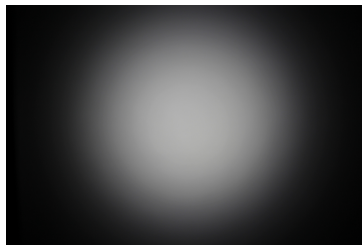
### SAMSUNG

LED LH231B  
 FWHM / FWTM 24.0° / 47.0°  
 Efficiency 86 %  
 Peak intensity 3.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

LED LH351B  
 FWHM / FWTM 30.0° / 53.0°  
 Efficiency 84 %  
 Peak intensity 2.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

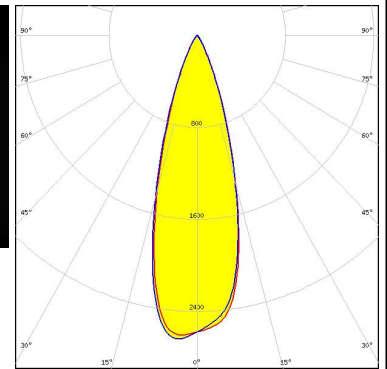
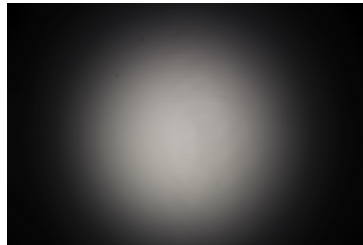




### OPTICAL RESULTS (MEASURED):

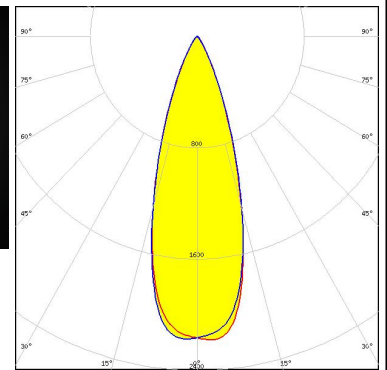
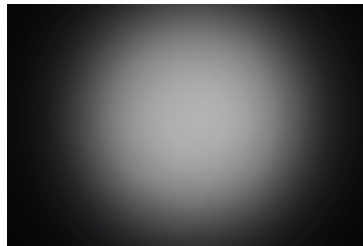
#### SAMSUNG

LED LH351C  
FWHM / FWTM 31.0° / 53.0°  
Efficiency 85 %  
Peak intensity 2.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



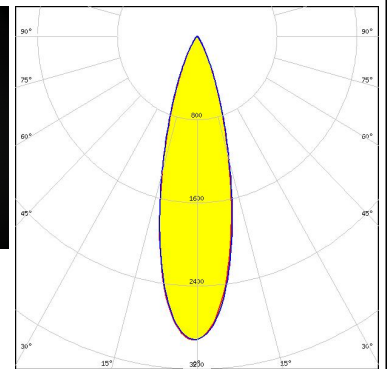
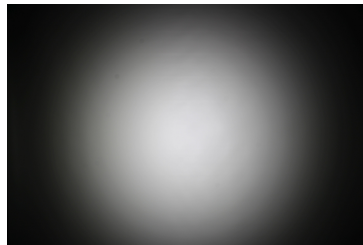
#### SAMSUNG

LED LH351D  
FWHM / FWTM 33.0° / 57.0°  
Efficiency 83 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



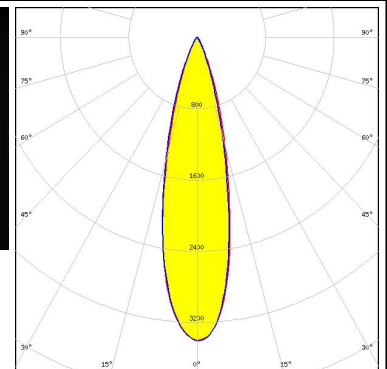
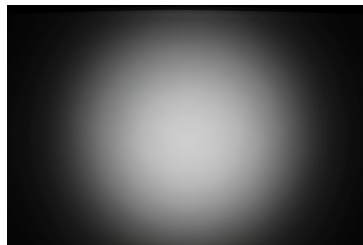
#### SAMSUNG

LED LH508A  
FWHM / FWTM 28.0° / 53.0°  
Efficiency 85 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SAMSUNG

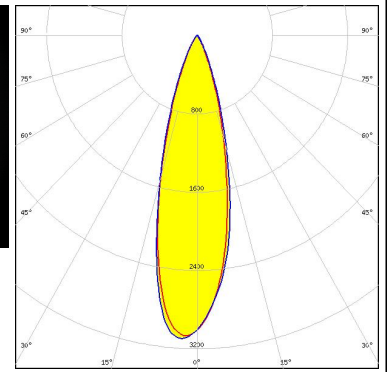
LED LM302A  
FWHM / FWTM 25.0° / 48.0°  
Efficiency 85 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### OPTICAL RESULTS (MEASURED):

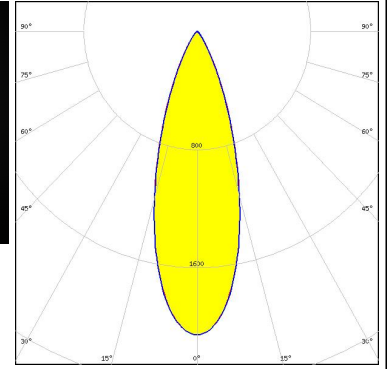
#### SAMSUNG

LED LM561B  
 FWHM / FWTM 27.0° / 51.0°  
 Efficiency 85 %  
 Peak intensity 3.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



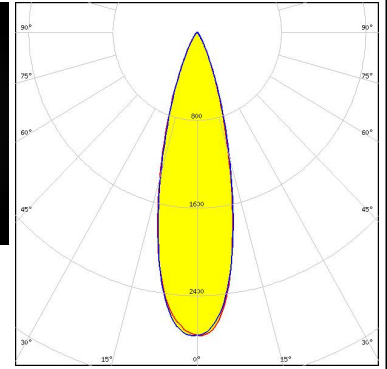
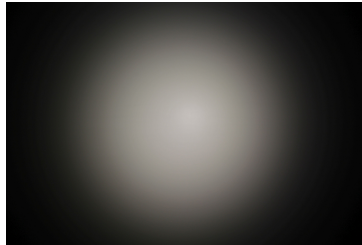
SEOUL SEMICONDUCTOR

LED WICOP 5050  
 FWHM / FWTM 33.0° / 60.0°  
 Efficiency 80 %  
 Peak intensity 2.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

LED Z5M3  
 FWHM / FWTM 28.0° / 52.0°  
 Efficiency 82 %  
 Peak intensity 2.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

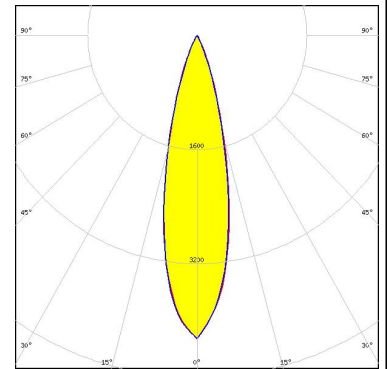




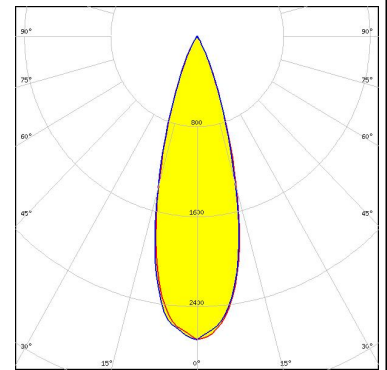
### OPTICAL RESULTS (SIMULATED):



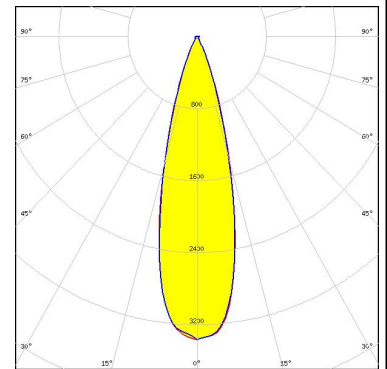
LED J Series 5050 Round LES  
 FWHM / FWTM 25.0° / 46.0°  
 Efficiency 92 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



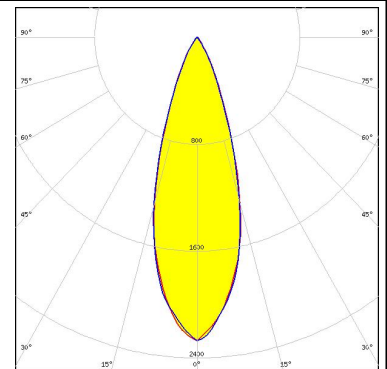
LED XHP50.3 HD  
 FWHM / FWTM 31.0 + 30.0° / 52.0°  
 Efficiency 83 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XHP50.3 HI  
 FWHM / FWTM 28.0° / 48.0°  
 Efficiency 95 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



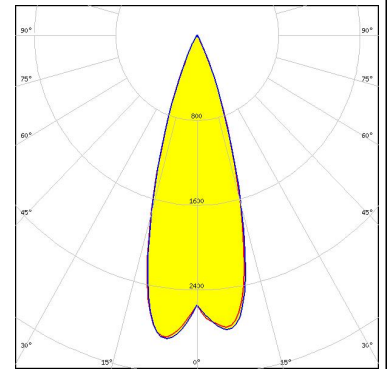
LED XHP70.3 HD  
 FWHM / FWTM 33.0 + 32.0° / 58.0°  
 Efficiency 82 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



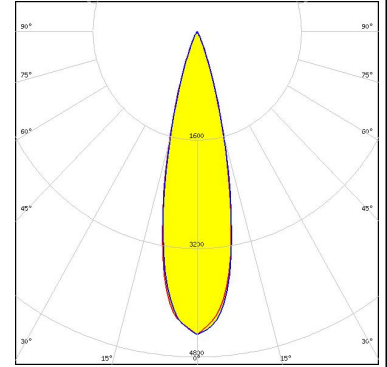
### OPTICAL RESULTS (SIMULATED):



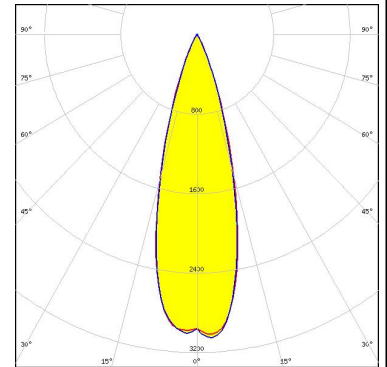
**LED** XP-G2 HE  
**FWHM / FWTM** 33.0° / 50.0°  
**Efficiency** 89 %  
**Peak intensity** 2.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



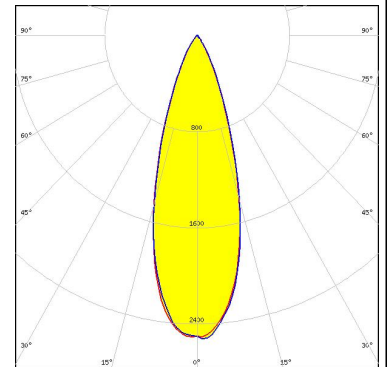
**LED** SST-20  
**FWHM / FWTM** 26.0° / 42.0°  
**Efficiency** 91 %  
**Peak intensity** 4.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** SST-70X-WCS  
**FWHM / FWTM** 30.0° / 50.0° + 48.0°  
**Efficiency** 85 %  
**Peak intensity** 3.1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



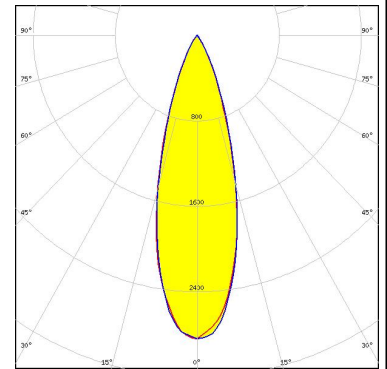
**LED** COB S-Type (LES 7)  
**FWHM / FWTM** 32.0° / 58.0°  
**Efficiency** 91 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



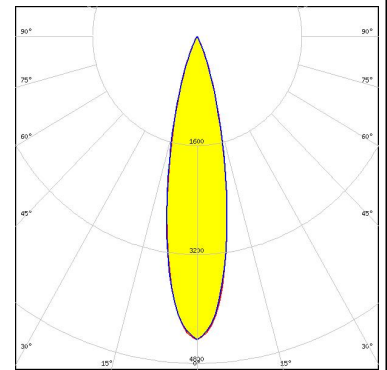
### OPTICAL RESULTS (SIMULATED):



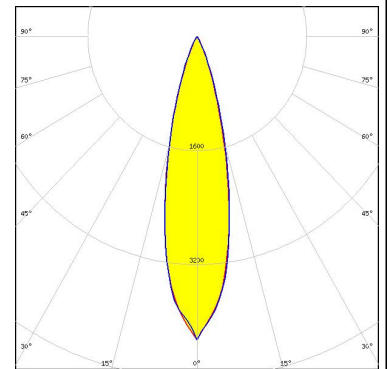
LED COB T-Type  
 FWHM / FWTM 30.0° / 56.0°  
 Efficiency 91 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



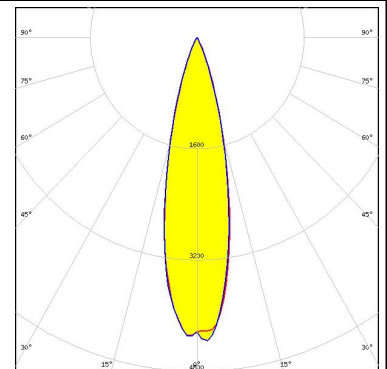
LED NCSxE17A  
 FWHM / FWTM 24.0° / 44.0°  
 Efficiency 88 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 4  
 Light colour White  
 Required components:



LED NFMW48xA  
 FWHM / FWTM 25.0° / 47.0°  
 Efficiency 92 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



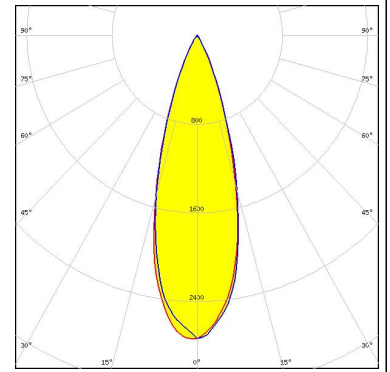
LED NV4WB35AM  
 FWHM / FWTM 25.0° / 44.0°  
 Efficiency 91 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):



LED	NV4x144A
FWHM / FWTM	31.0° / 54.0°
Efficiency	86 %
Peak intensity	2.7 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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

### 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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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

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