

## OLGA-RS

~9° spot beam beam. Optimized for high-power 3535 size LED packages. Assembly with holder and installation tape.

### SPECIFICATION:

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

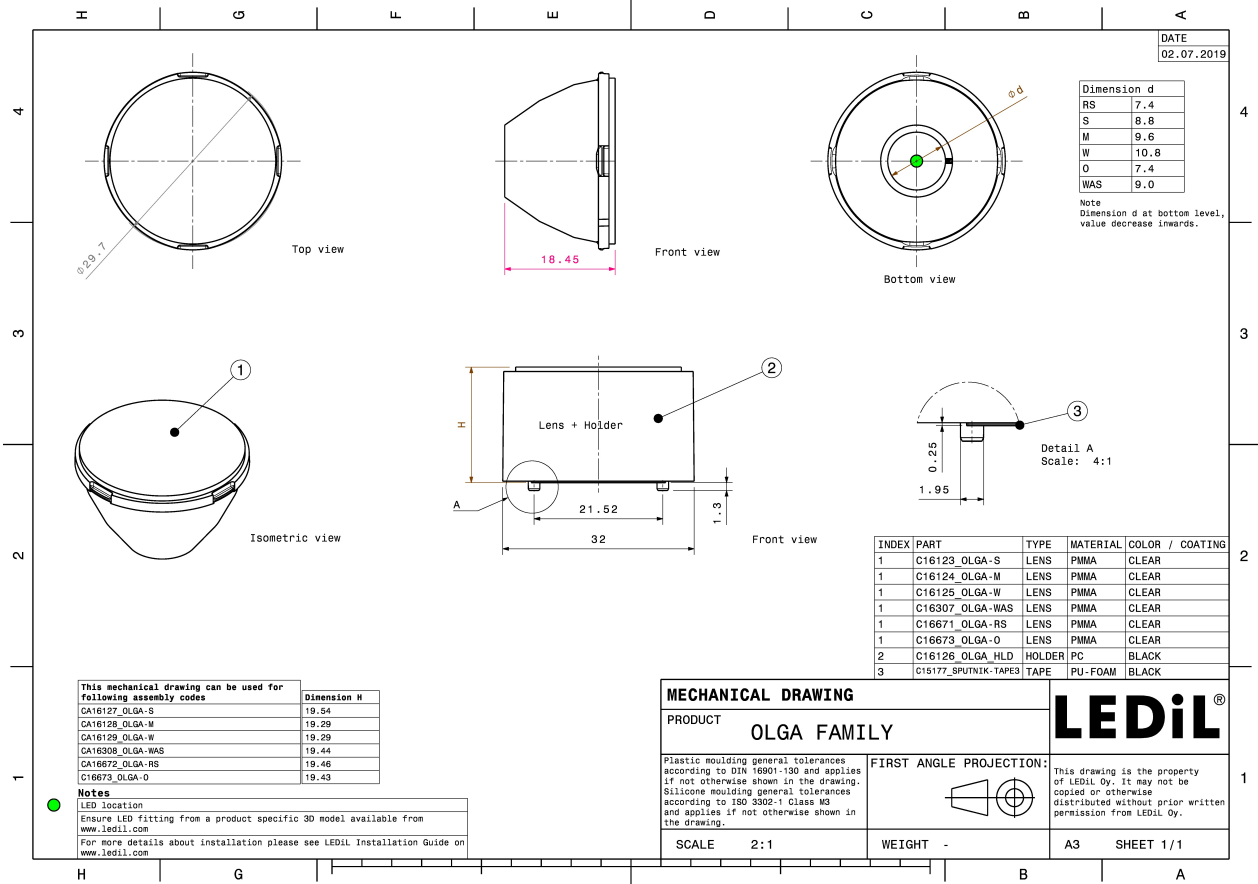


### MATERIALS:

Component	Type	Material	Colour	Finish
OLGA-RS	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)
CA16672_OLGA-RS	Single lens	792	132	66	9.8
» Box size: 476 x 273 x 292 mm					

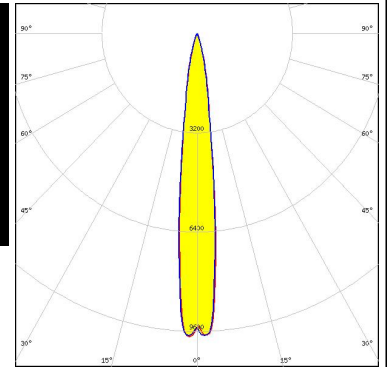


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

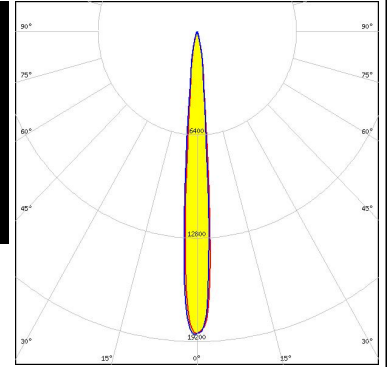
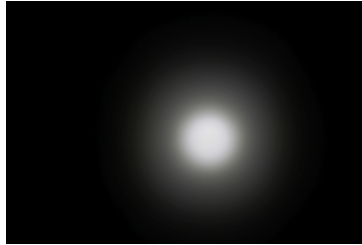
#### CREE → LED

LED XHP35 HD  
 FWHM / FWTM 13.0° / 29.0°  
 Efficiency 84 %  
 Peak intensity 9.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



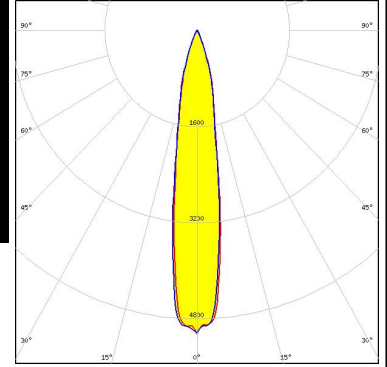
#### CREE → LED

LED XHP35 HI  
 FWHM / FWTM 9.0° / 22.0°  
 Efficiency 87 %  
 Peak intensity 18.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



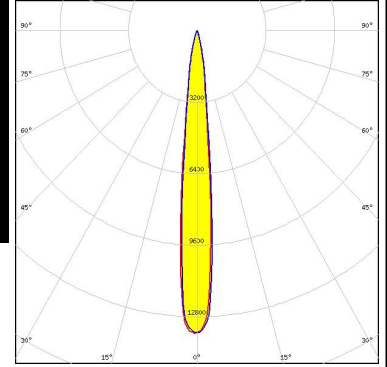
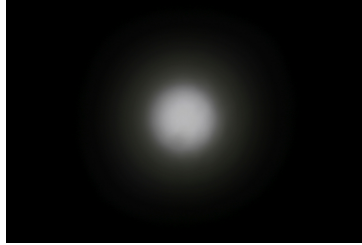
#### CREE → LED

LED XHP50.2  
 FWHM / FWTM 17.0° / 41.0°  
 Efficiency 78 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

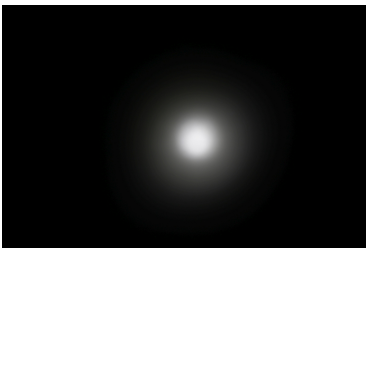
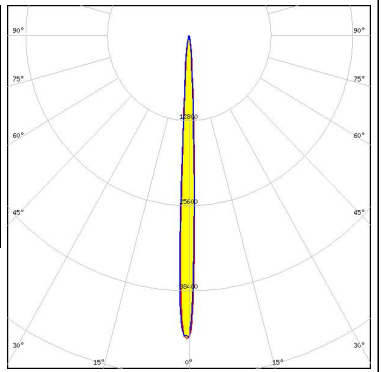

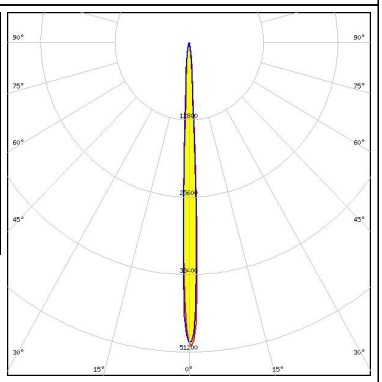

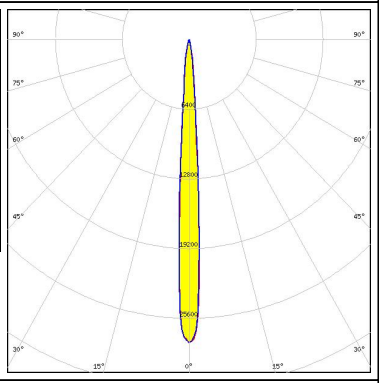

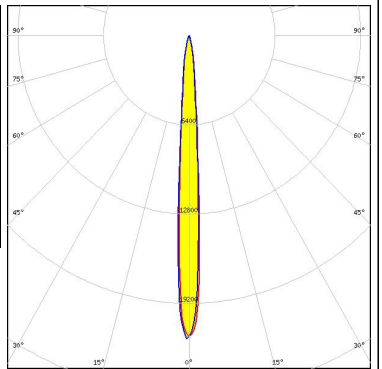


#### CREE → LED


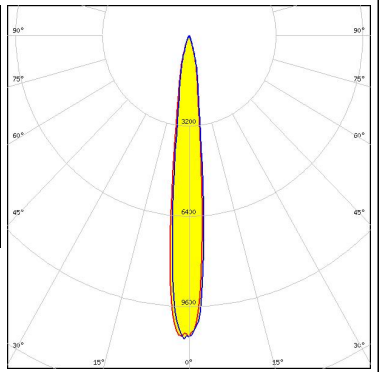

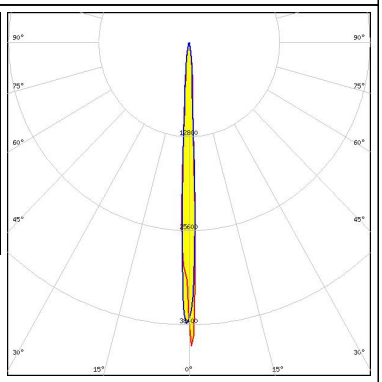

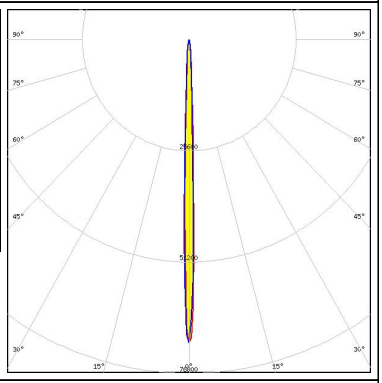

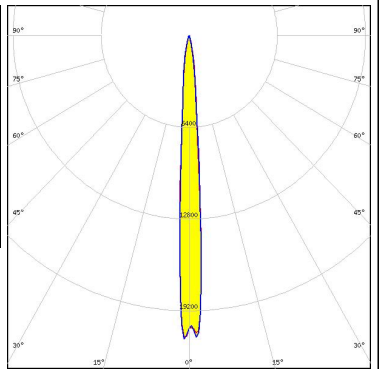
LED XM-L3  
 FWHM / FWTM 11.0° / 25.0°  
 Efficiency 86 %  
 Peak intensity 13.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

<p><b>CREE → LED</b></p> <p>LED                    XP-E            FWHM / FWTM    5.0° / 12.0°            Efficiency            87 %            Peak intensity     45.6 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE → LED</b></p> <p>LED                    XP-E2            FWHM / FWTM    4.9° / 11.6°            Efficiency            86 %            Peak intensity     50.2 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE → LED</b></p> <p>LED                    XP-G2            FWHM / FWTM    7.0° / 17.0°            Efficiency            86 %            Peak intensity     28 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE → LED</b></p> <p>LED                    XP-G3            FWHM / FWTM    8.0° / 20.0°            Efficiency            85 %            Peak intensity     21.8 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		

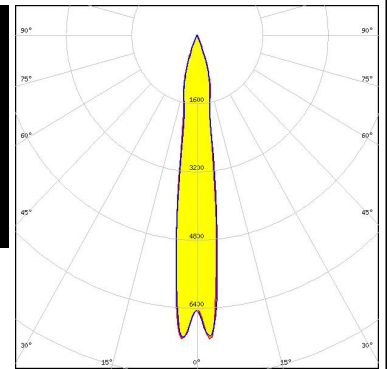
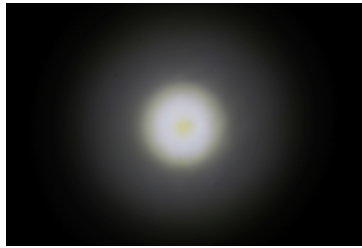
#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> → <b>LED</b></p> <p>LED            XP-L2            FWHM / FWTM    12.0° / 29.0°            Efficiency        83 %            Peak intensity    10.7 cd/lm            LEDs/each optic   1            Light colour      White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED            XQ-E HD            FWHM / FWTM    5.0° / 13.0°            Efficiency        79 %            Peak intensity    42 cd/lm            LEDs/each optic   1            Light colour      White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED            XQ-E HI            FWHM / FWTM    3.0° / 9.0°            Efficiency        84 %            Peak intensity    70 cd/lm            LEDs/each optic   1            Light colour      White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED            XT-E            FWHM / FWTM    8.0° / 19.0°            Efficiency        83 %            Peak intensity    21.2 cd/lm            LEDs/each optic   1            Light colour      White            Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

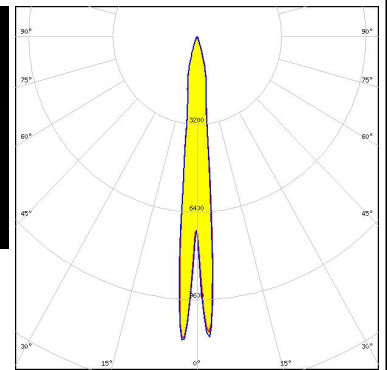
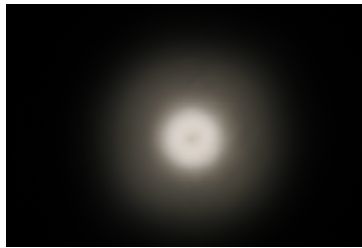
##### LUMILEDS

LED LUXEON 5050 Round LES  
 FWHM / FWTM 14.0° / 38.0°  
 Efficiency 86 %  
 Peak intensity 7.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



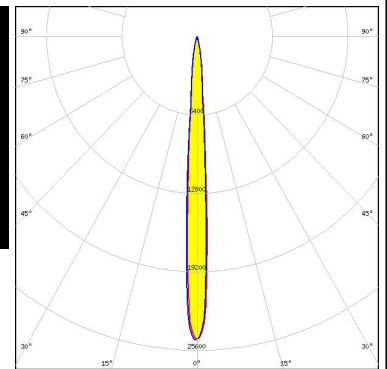
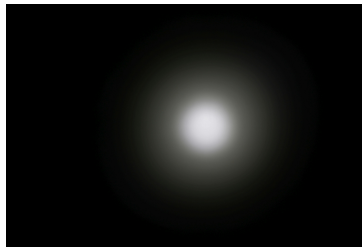
##### LUMILEDS

LED LUXEON MZ  
 FWHM / FWTM 11.0° / 30.0°  
 Efficiency 85 %  
 Peak intensity 11.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



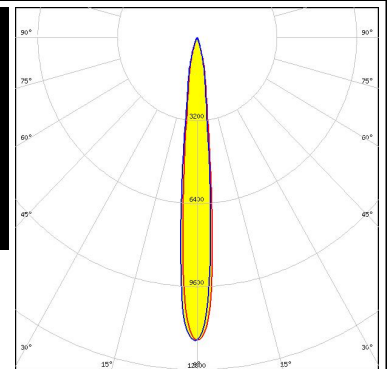
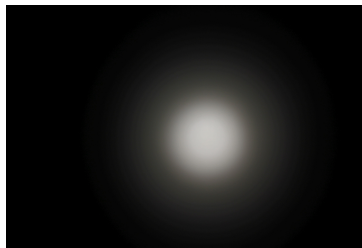
##### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 7.0° / 18.0°  
 Efficiency 86 %  
 Peak intensity 24.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

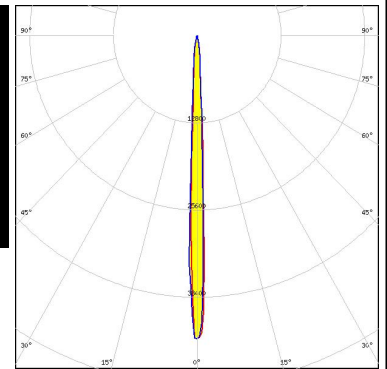
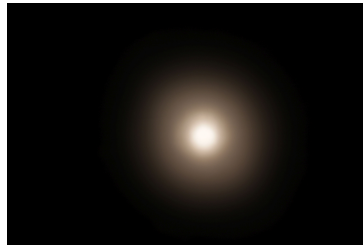
LED LUXEON V  
 FWHM / FWTM 11.0° / 28.0°  
 Efficiency 84 %  
 Peak intensity 11.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

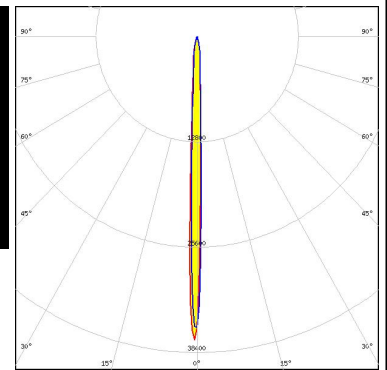
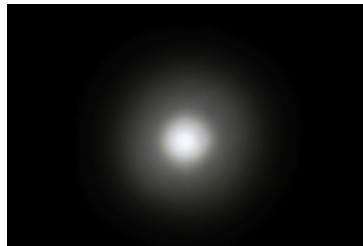
##### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 5.0° / 12.0°  
 Efficiency 87 %  
 Peak intensity 44.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



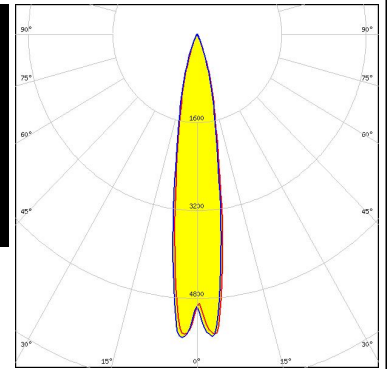
##### NICHIA

LED NCSxE17A  
 FWHM / FWTM 4.0° / 13.0°  
 Efficiency 83 %  
 Peak intensity 37.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



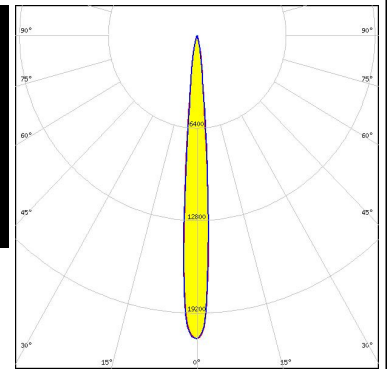
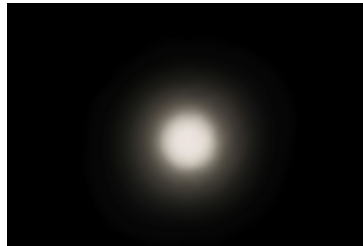
##### NICHIA

LED NV4x144A  
 FWHM / FWTM 18.0° / 39.0°  
 Efficiency 83 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

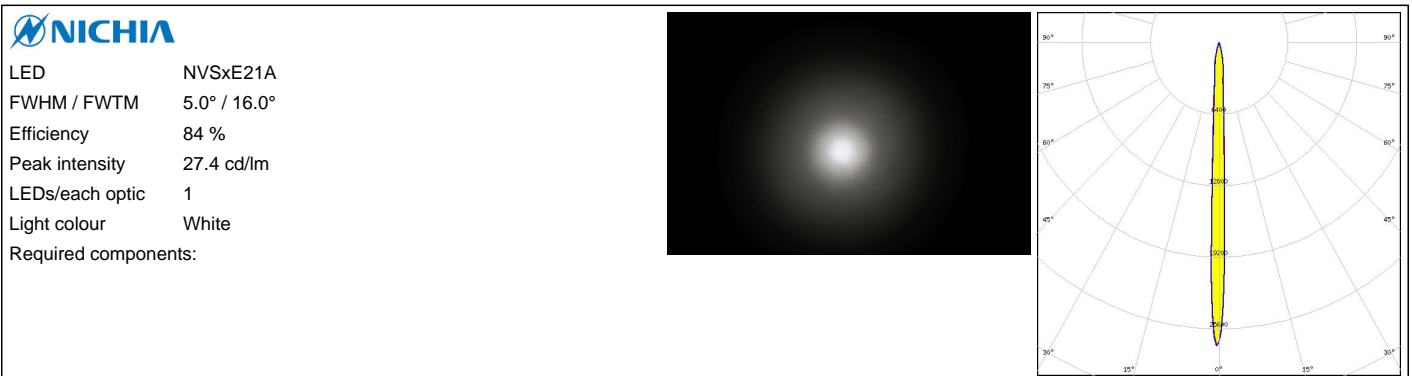


##### NICHIA

LED NVSW219D  
 FWHM / FWTM 9.0° / 19.0°  
 Efficiency 87 %  
 Peak intensity 21 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):



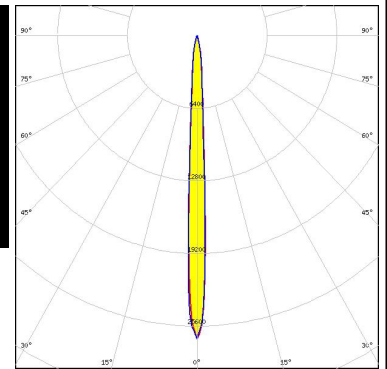
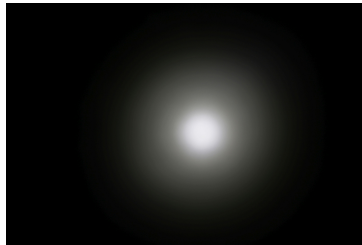


#### OPTICAL RESULTS (MEASURED):

##### OSRAM

Opto Semiconductors

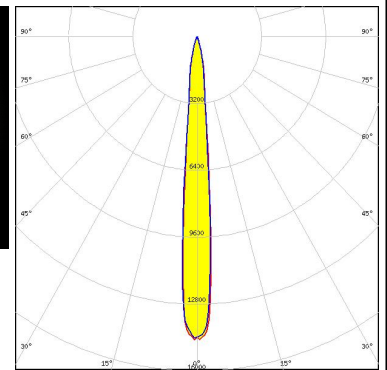
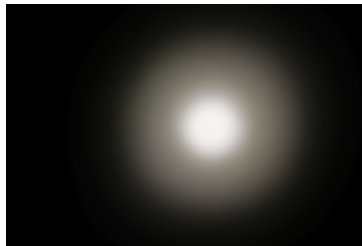
LED OSCONIQ P 3737 (2W version)  
 FWHM / FWTM 6.0° / 17.0°  
 Efficiency 86 %  
 Peak intensity 26.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

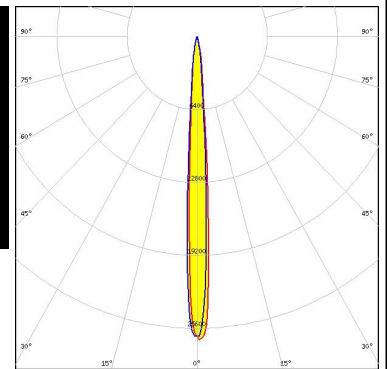
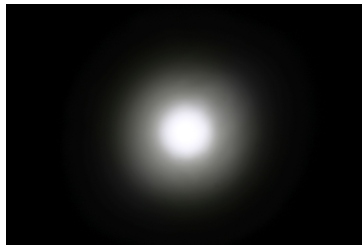
LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 10.0° / 25.0°  
 Efficiency 85 %  
 Peak intensity 14.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

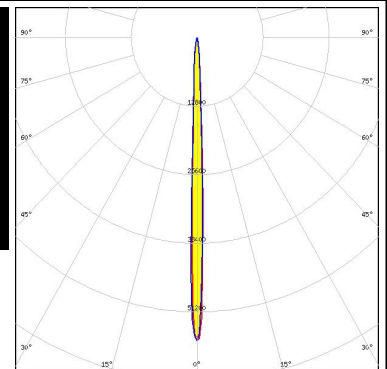
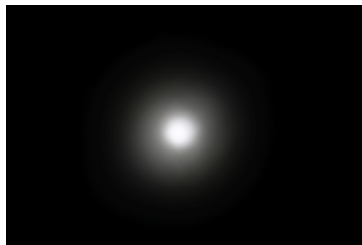
LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM 7.0° / 17.0°  
 Efficiency 86 %  
 Peak intensity 26.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

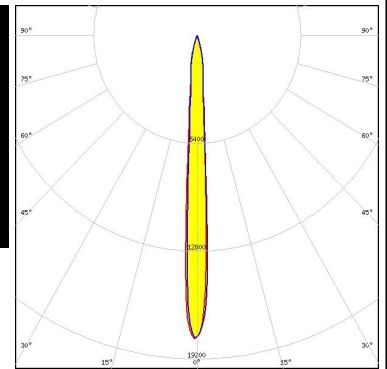
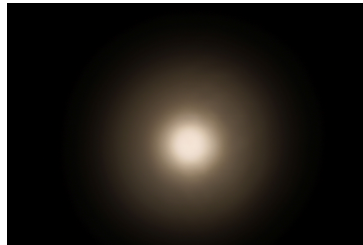
LED OSLOM SSL 150  
 FWHM / FWTM 4.0° / 11.0°  
 Efficiency 87 %  
 Peak intensity 57 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

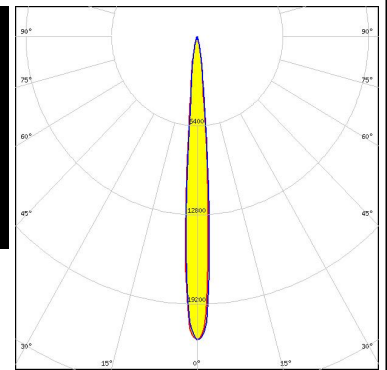
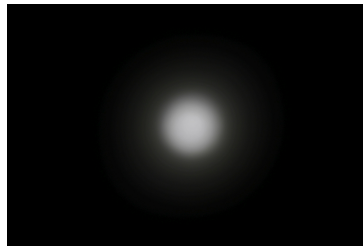
### SAMSUNG

LED LH231B  
 FWHM / FWTM 7.0° / 24.0°  
 Efficiency 86 %  
 Peak intensity 18 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



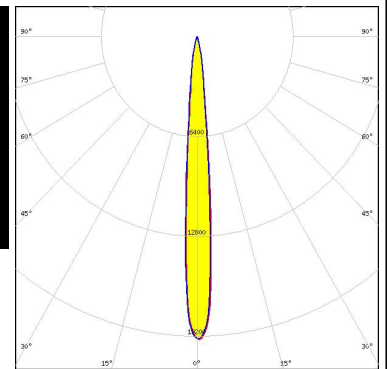
### SAMSUNG

LED LH351B  
 FWHM / FWTM 8.0° / 19.0°  
 Efficiency 86 %  
 Peak intensity 21.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



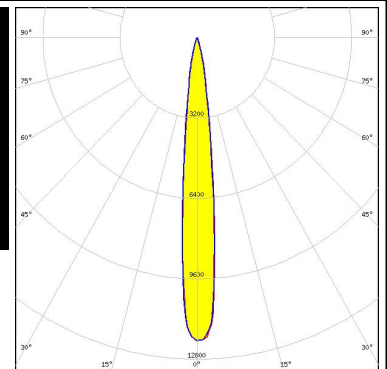
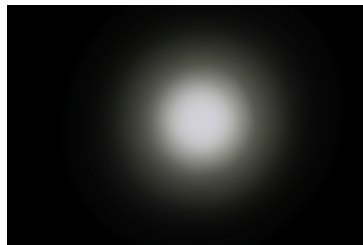
### SAMSUNG

LED LH351C  
 FWHM / FWTM 9.0° / 21.0°  
 Efficiency 87 %  
 Peak intensity 19.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

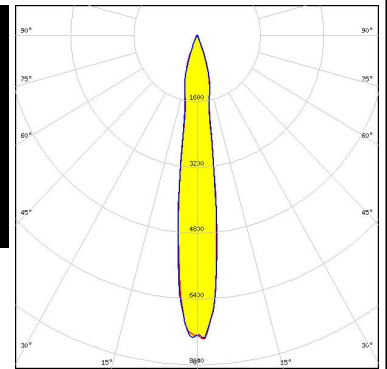
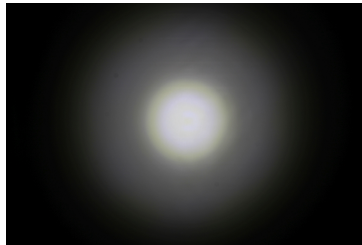
LED LH351D  
 FWHM / FWTM 12.0° / 26.0°  
 Efficiency 86 %  
 Peak intensity 12.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

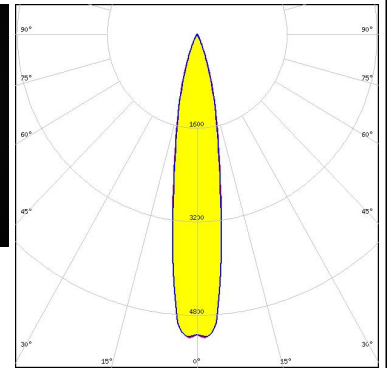
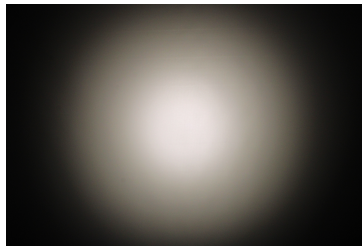
### SAMSUNG

LED LH508A  
 FWHM / FWTM 14.0° / 38.0°  
 Efficiency 86 %  
 Peak intensity 7.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



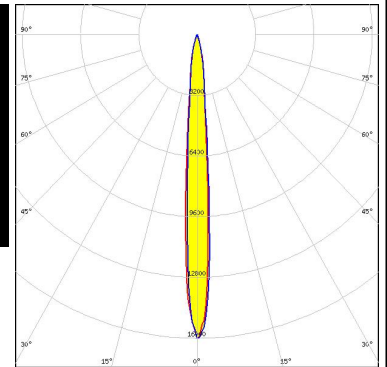
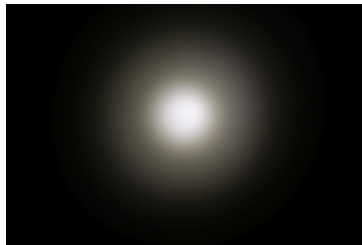
SEOUL SEMICONDUCTOR

LED WICOP 5050  
 FWHM / FWTM 18.0° / 40.0°  
 Efficiency 87 %  
 Peak intensity 5.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:


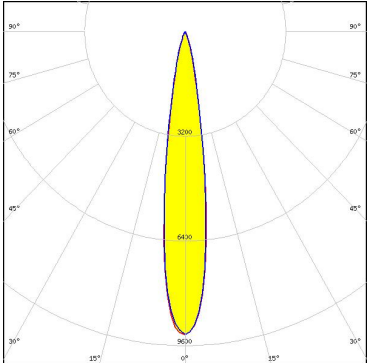

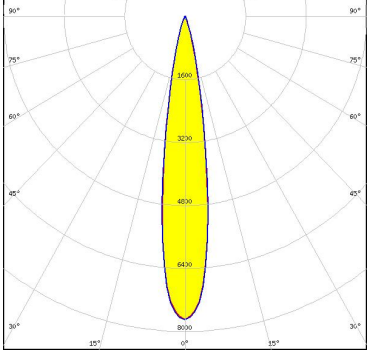

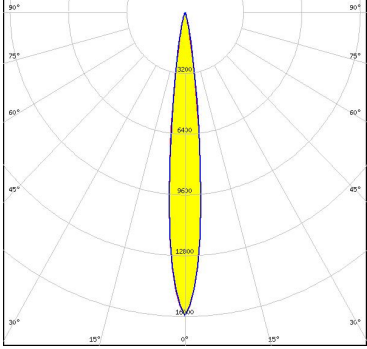

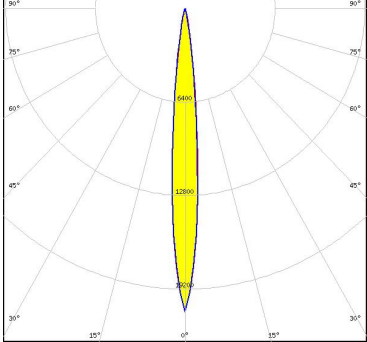


SEOUL SEMICONDUCTOR

LED Z5M3  
 FWHM / FWTM 9.0° / 23.0°  
 Efficiency 83 %  
 Peak intensity 16 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



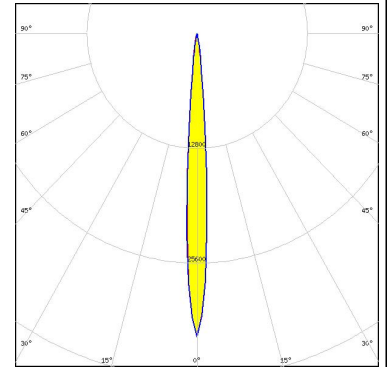
### OPTICAL RESULTS (SIMULATED):

<p> LED V4 HD Gen 7</p> <p>FWHM / FWTM 16.0° / 31.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 9.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> LED XHP50.3 HD</p> <p>FWHM / FWTM 16.0 + 18.0° / 32.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 7.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> LED XM-L</p> <p>FWHM / FWTM 12.0° / 23.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 16 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> LED XP-G2 HE</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 20.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

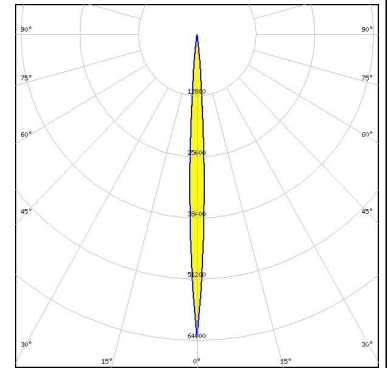
#### CREE LED

LED XP-L HI  
 FWHM / FWTM 8.0° / 15.0°  
 Efficiency 92 %  
 Peak intensity 33 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



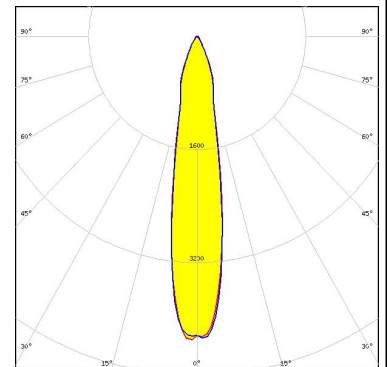
#### CREE LED

LED XP-P  
 FWHM / FWTM 6.0° / 12.0°  
 Efficiency 96 %  
 Peak intensity 63.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



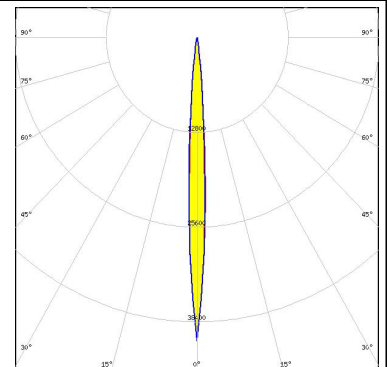
#### LUMILEDS

LED LUXEON 7070  
 FWHM / FWTM 19.0° / 49.0°  
 Efficiency 95 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

LED LUXEON C  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 89 %  
 Peak intensity 41 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



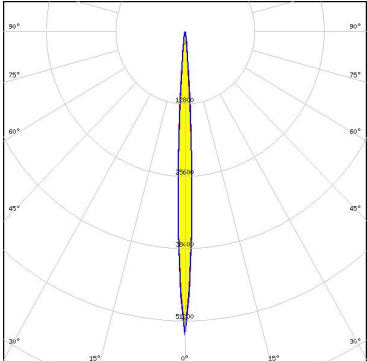
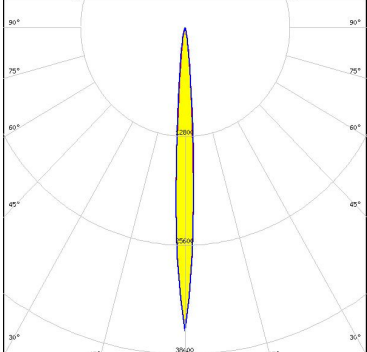
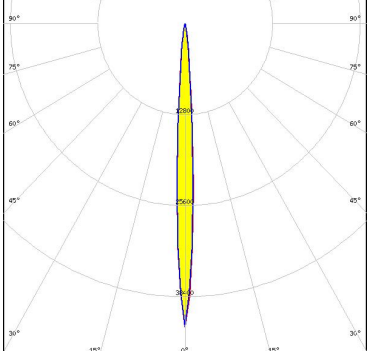
#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON CZ            FWHM / FWTM: 6.0° / 12.0°            Efficiency: 93 %            Peak intensity: 63.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED: SST-40            FWHM / FWTM: 12.0° / 24.0°            Efficiency: 93 %            Peak intensity: 14.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED: SST-70X-WCS            FWHM / FWTM: 14.0° / 28.0°            Efficiency: 94 %            Peak intensity: 10.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: COB S-Type (LES 7)            FWHM / FWTM: 16.0° / 52.0°            Efficiency: 84 %            Peak intensity: 3.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED COB T-Type            FWHM / FWTM 16.0° / 48.0°            Efficiency 86 %            Peak intensity 4.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NV4WB35AM            FWHM / FWTM 12.0° / 26.0°            Efficiency 93 %            Peak intensity 13.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NV4WB35AM            FWHM / FWTM 12.0° / 26.0°            Efficiency 94 %            Peak intensity 13.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSOLON PURE 1010            FWHM / FWTM 14.0° / 36.0°            Efficiency 88 %            Peak intensity 8.1 cd/lm            LEDs/each optic 9            Light colour White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: SFH 4170S            FWHM / FWTM: 6.0° / 12.0°            Efficiency: 82 %            LEDs/each optic: 1            Light colour: IR            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: SFH 4715AS            FWHM / FWTM: 7.0° / 16.0°            Efficiency: 92 %            LEDs/each optic: 1            Light colour: IR            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: SFH 4716AS            FWHM / FWTM: 6.0° / 14.0°            Efficiency: 93 %            LEDs/each optic: 1            Light colour: IR            Required components:</p>	



### 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

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

#### 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

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)