

## STELLA-FRESNEL

~25° beam for warehouse and outdoor lighting.  
Compatible with up to 23 mm LES size COBs.

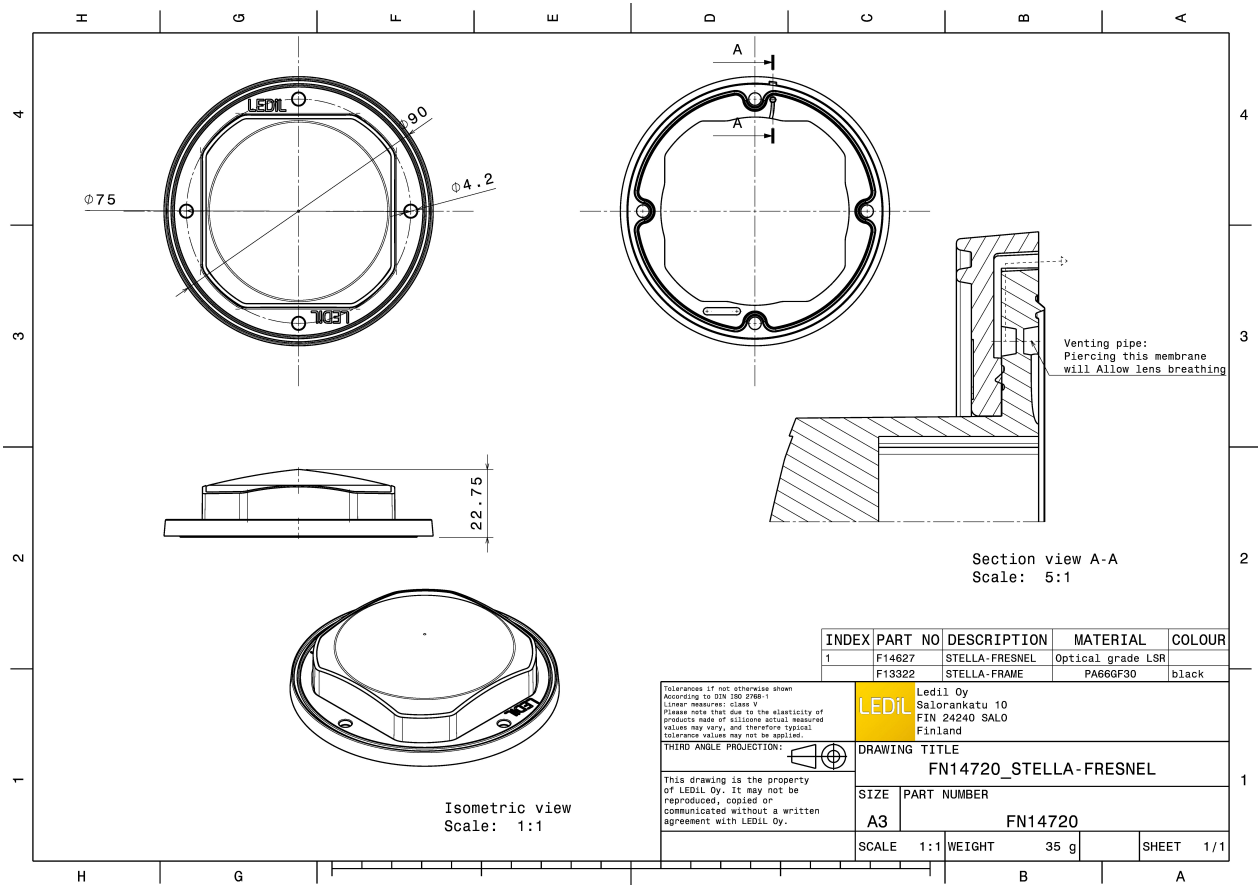
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 90.0 mm
Height	23 mm
Fastening	screw
Colour	black
Box size	480 x 280 x 300 mm
Box weight	4 kg
Quantity in Box	80 pcs
ROHS compliant	yes ⓘ


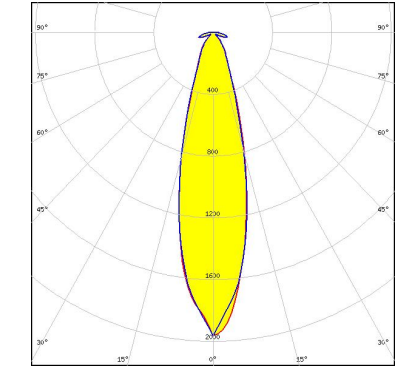
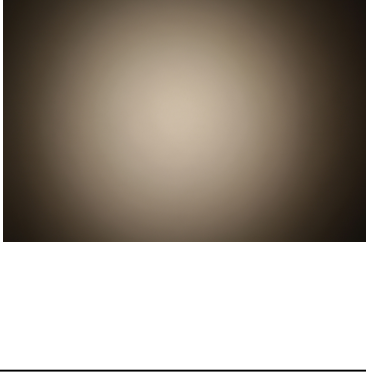
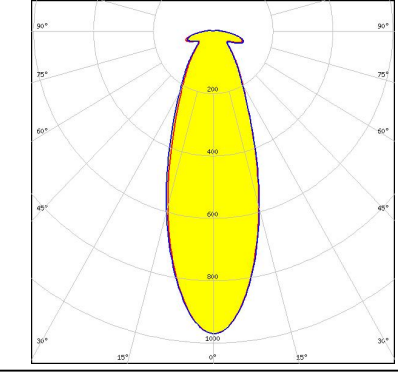
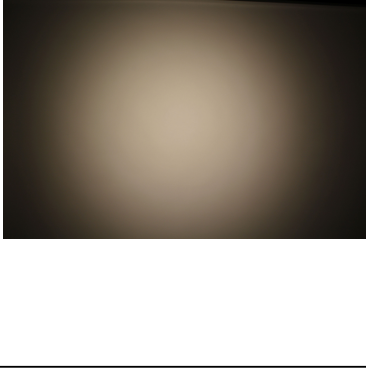
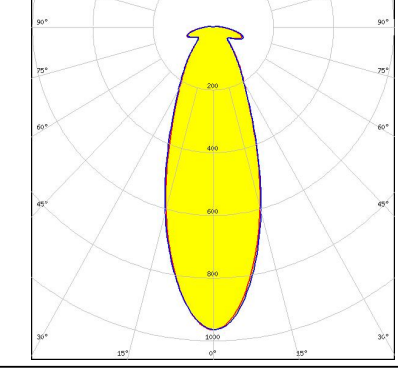

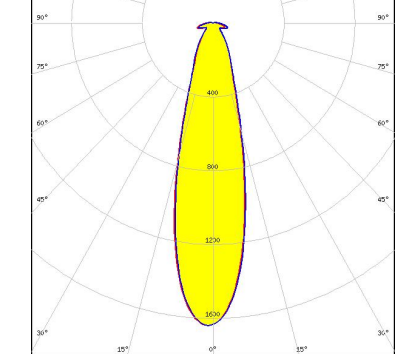


### MATERIAL SPECIFICATIONS:



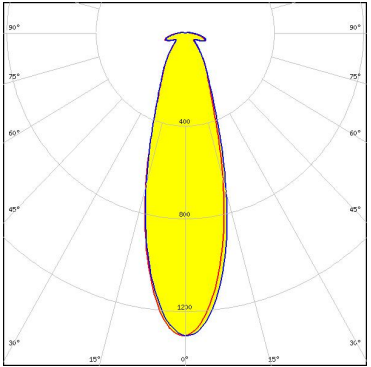


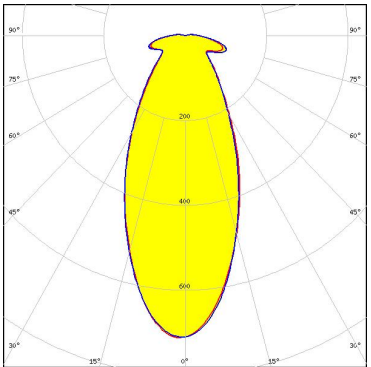

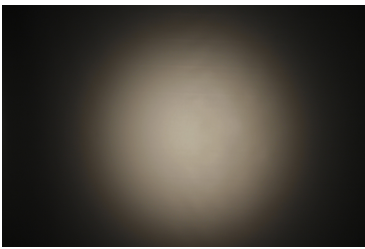
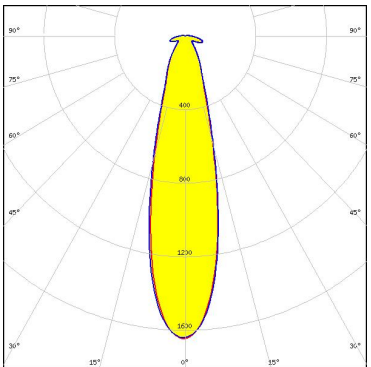

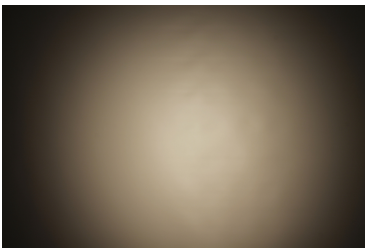
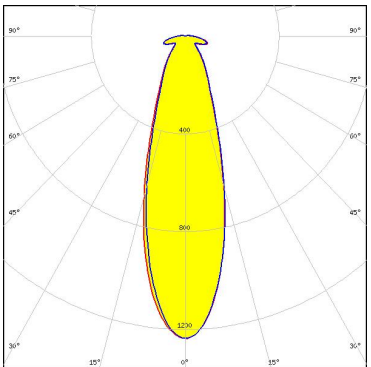
Component	Type	Material	Colour
STELLA-FRESNEL	Lens	Silicone	clear
STELLA-FRAME	Holder	PA66	black





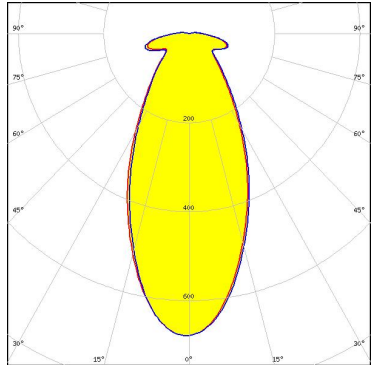
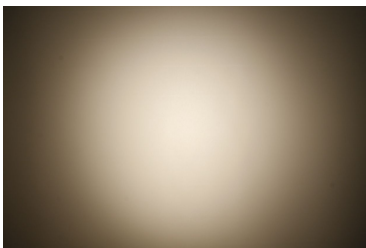
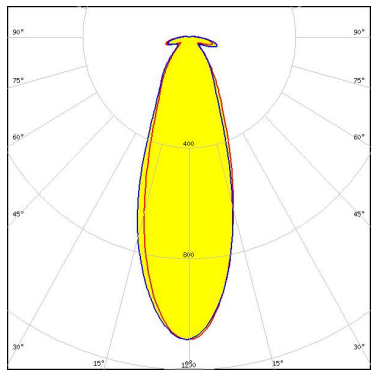


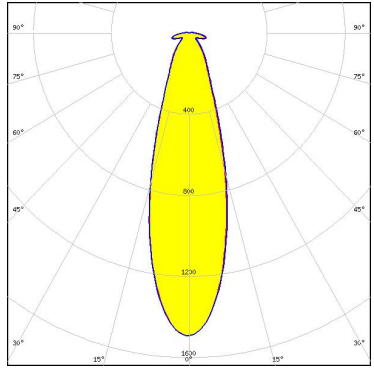

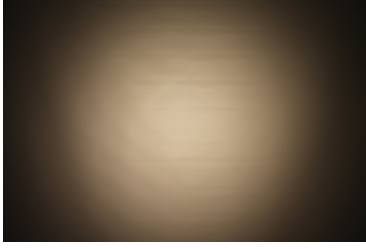
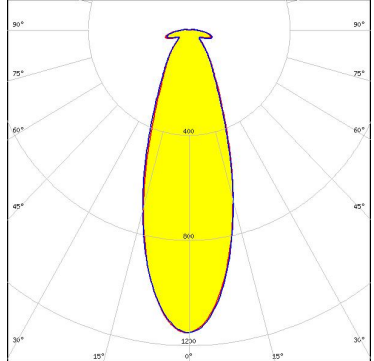
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V18 Gen7</p> <p>FWHM 32.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components:</p> <p>BJB: 47.319.2350</p>		
<p>bridgelux.</p> <p>LED V22 Gen7</p> <p>FWHM 36.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.970 cd/lm</p> <p>Required components:</p> <p>Bender Wirth: 431 Typ Z1</p>		
<p>bridgelux.</p> <p>LED V22 Gen7</p> <p>FWHM 37.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.000 cd/lm</p> <p>Required components:</p> <p>TE: 2213480-1</p>		
<p>bridgelux.</p> <p>LED Vero SE 13</p> <p>FWHM 27.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.600 cd/lm</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

 LED            Vero SE 18 FWHM         31.0° Efficiency     86 % Peak intensity 1.300 cd/lm Required components:		
 LED            Vero SE 29 FWHM         46.0° Efficiency     87 % Peak intensity 0.710 cd/lm Required components:		
 LED            VERO13 FWHM         26.0° Efficiency     84 % Peak intensity 1.600 cd/lm Required components:		
 LED            VERO18 FWHM         31.0° Efficiency     85 % Peak intensity 1.200 cd/lm Required components:		

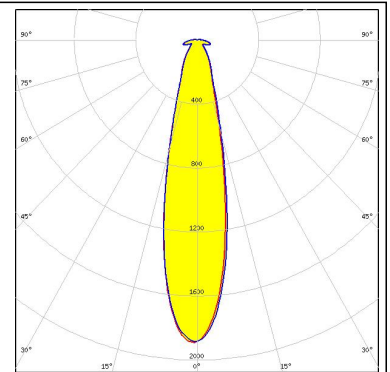
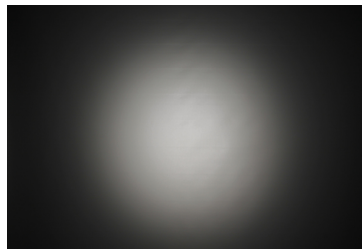
#### PHOTOMETRIC DATA (MEASURED):

<p> LED VERO29            FWHM 48.0°            Efficiency 87 %            Peak intensity 0.680 cd/lm            Required components:</p>		
<p><b>CITIZEN</b>            LED CLL04x/CLU04x            FWHM 36.0°            Efficiency 86 %            Peak intensity 1.100 cd/lm            Required components:</p>		
<p><b>CREE</b>             LED CMA2550            FWHM 30.0°            Efficiency 86 %            Peak intensity 1.500 cd/lm            Required components:</p>		
<p><b>CREE</b>             LED CMA3090            FWHM 35.0°            Efficiency 88 %            Peak intensity 1.200 cd/lm            Required components:</p>		

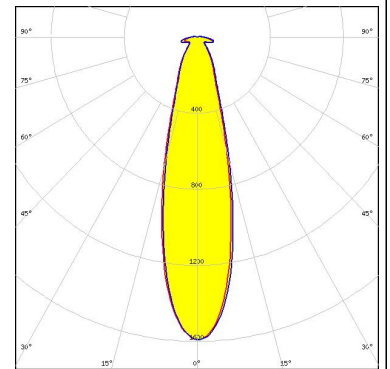
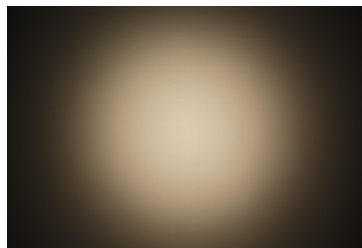
#### PHOTOMETRIC DATA (MEASURED):



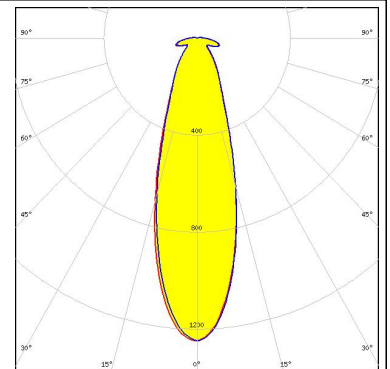
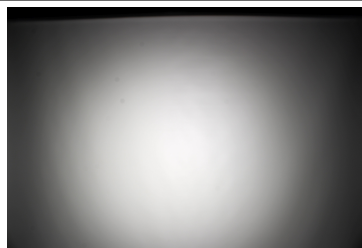
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 24.0°  
 Efficiency 84 %  
 Peak intensity 1.900 cd/lm  
 Required components:



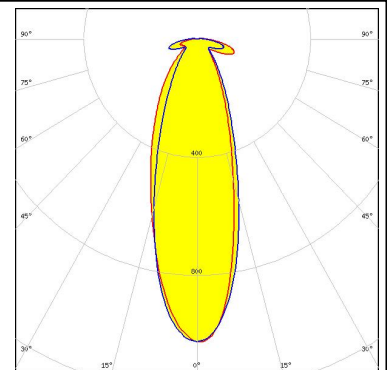
LED CXA/B 1830  
 FWHM 26.0°  
 Efficiency 85 %  
 Peak intensity 1.600 cd/lm  
 Required components:  
 C14305\_STELLA-CLAMP-CXA15-18



LED CXA/B 25xx  
 FWHM 31.0°  
 Efficiency 86 %  
 Peak intensity 1.200 cd/lm  
 Required components:



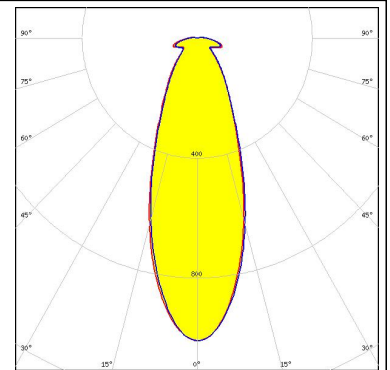
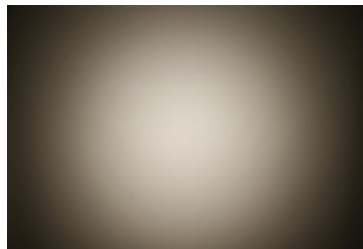
LED CXA/B 25xx  
 FWHM 33.0°  
 Efficiency 84 %  
 Peak intensity 1.000 cd/lm  
 Required components:



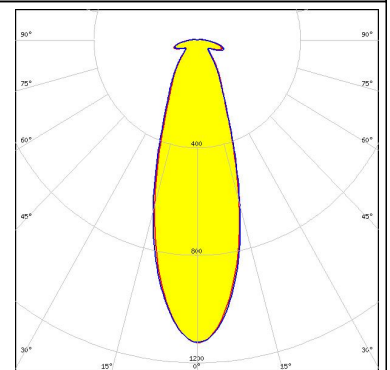
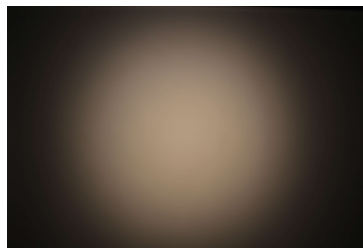
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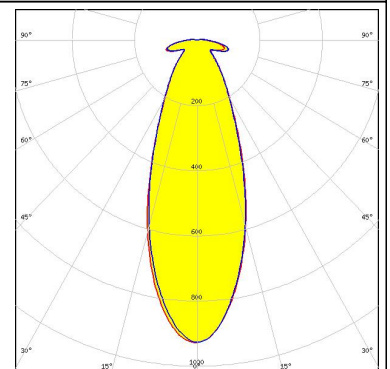
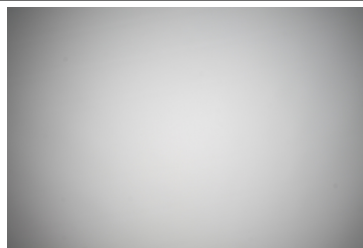
LED CXA/B 30xx  
 FWHM 37.0°  
 Efficiency 88 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 BJB: 47.319.2151



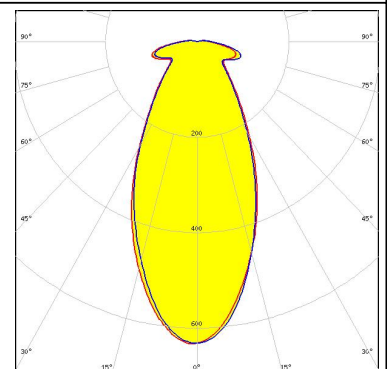
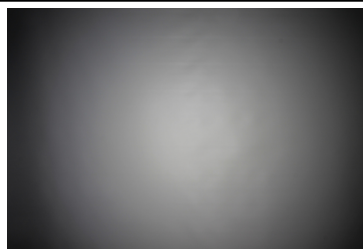
LED LUXEON CoB 1211  
 FWHM 33.0°  
 Efficiency 85 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 Bender Wirth: 431 Typ L3



LED LUXEON CoB 1216/1812  
 FWHM 39.0°  
 Efficiency 86 %  
 Peak intensity 0.930 cd/lm  
 Required components:



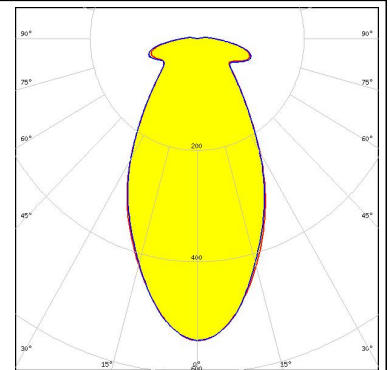
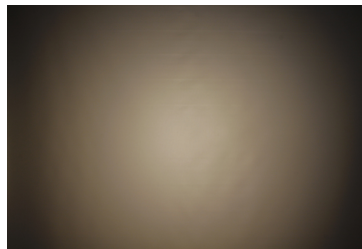
LED LUXEON CoB 1321  
 FWHM 50.0°  
 Efficiency 85 %  
 Peak intensity 0.600 cd/lm  
 Required components:



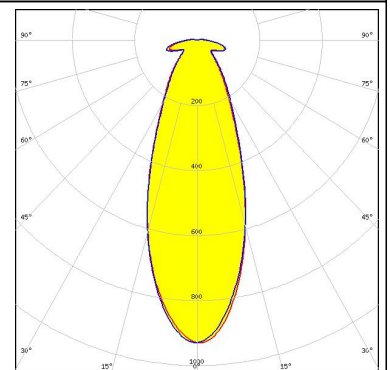
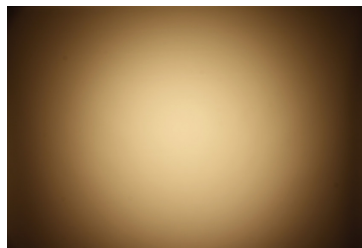
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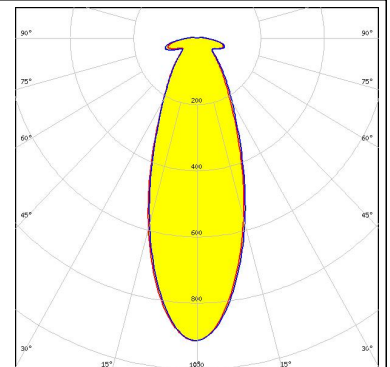
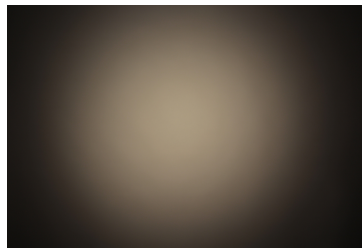
LED LUXEON CoB 1825  
 FWHM 56.0°  
 Efficiency 84 %  
 Peak intensity 0.540 cd/lm  
 Required components:



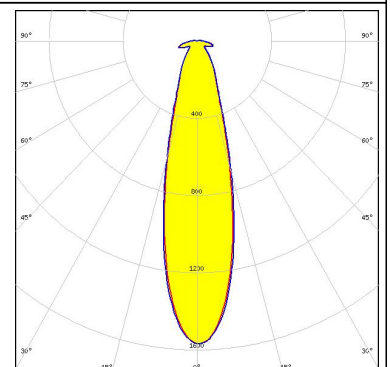
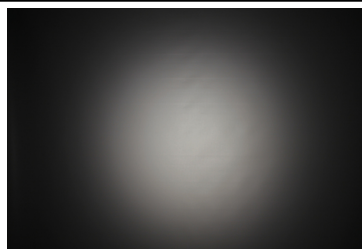
LED CXM-22  
 FWHM 38.0°  
 Efficiency 86 %  
 Peak intensity 0.930 cd/lm  
 Required components:  
 Bender Wirth: 431 Typ L3



LED COB H-Type  
 FWHM 38.0°  
 Efficiency 85 %  
 Peak intensity 0.920 cd/lm  
 Required components:



LED COB J-Type  
 FWHM 26.0°  
 Efficiency 85 %  
 Peak intensity 1.600 cd/lm  
 Required components:

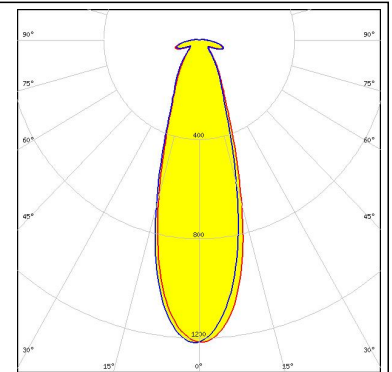
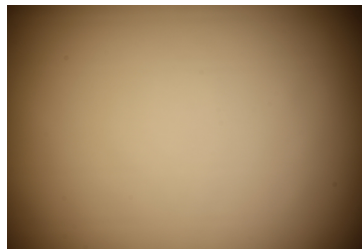




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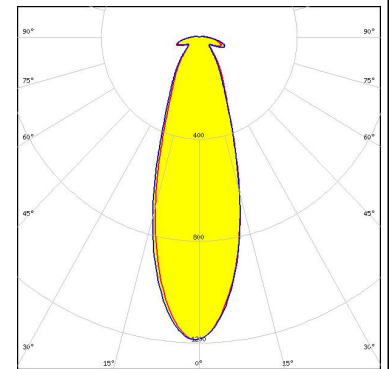
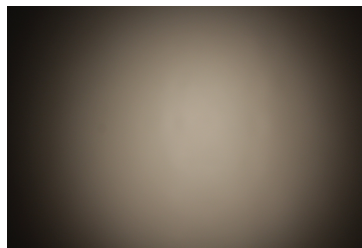
**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM 32.1°  
Efficiency 84 %  
Peak intensity 1.219 cd/lm  
Required components:



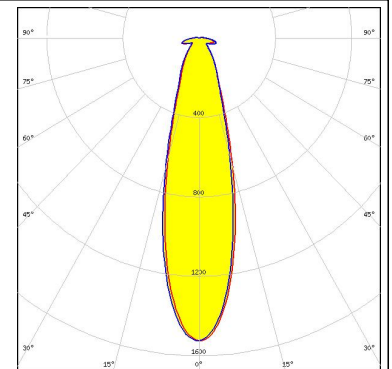
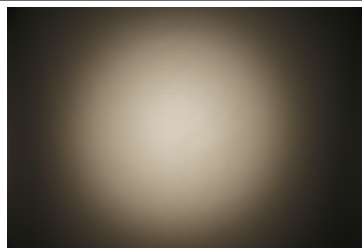
**PHILIPS**

LED Fortimo SLM L19 Poke-In  
FWHM 33.0°  
Efficiency 87 %  
Peak intensity 1.200 cd/lm  
Required components:



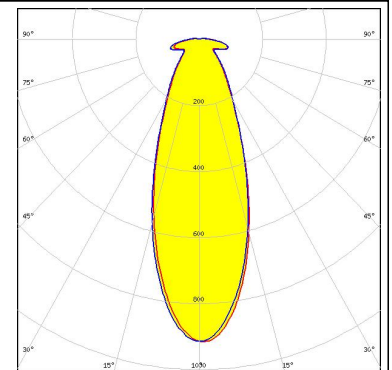
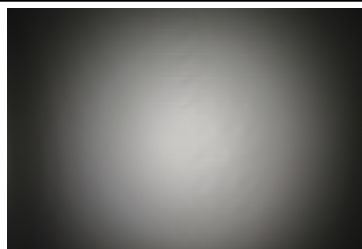
**SAMSUNG**

LED COB D Series LES 14.5 mm  
FWHM 27.0°  
Efficiency 83 %  
Peak intensity 1.500 cd/lm  
Required components:


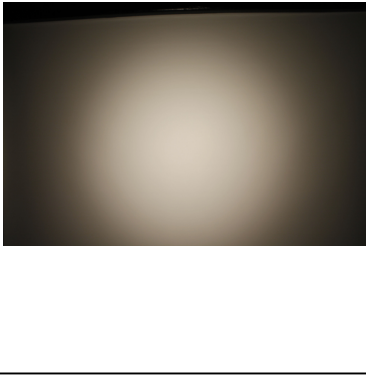

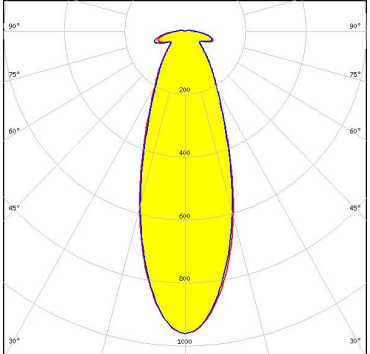


**SAMSUNG**

LED COB D Series LES 22 mm  
FWHM 37.0°  
Efficiency 84 %  
Peak intensity 0.920 cd/lm  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 14.5 FWHM 28.0° Efficiency 84 % Peak intensity 1.500 cd/lm Required components: IDEAL: 50-2103CT</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22 FWHM 36.0° Efficiency 84 % Peak intensity 0.960 cd/lm Required components: IDEAL: 50-2204CT</p>		

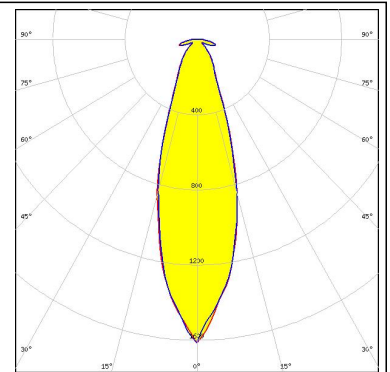
#### PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM 18.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 4.010 cd/lm</p> <p>Required components: Bender Wirth: 434 Typ Z1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.000 cd/lm</p> <p>Required components:</p>	
<p>bridgelux.</p> <p>LED V22 Gen7</p> <p>FWHM 30.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.457 cd/lm</p> <p>Required components: IDEAL: 50-2204CT</p>	
<p><b>CITIZEN</b></p> <p>LED CLL05x/CLU05x</p> <p>FWHM 46.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.840 cd/lm</p> <p>Required components:</p>	

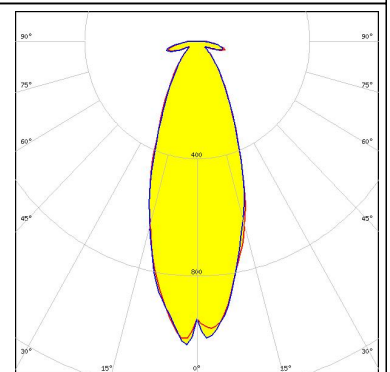
#### PHOTOMETRIC DATA (SIMULATED):



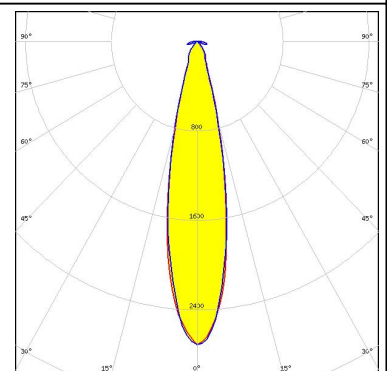
LED CMA3090  
FWHM 31.0°  
Efficiency %  
Peak intensity 1.610 cd/lm  
Required components:



LED CXA/B 3590  
FWHM 37.0°  
Efficiency 83 %  
Peak intensity 1.100 cd/lm  
Required components:



LED LUXEON CoB 1208  
FWHM 23.0°  
Efficiency 82 %  
Peak intensity 2.800 cd/lm  
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

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USA

#### 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)