

## STELLA-HB-WWW

~100° very wide beam for warehouse and outdoor lighting. Compatible with up to 30 mm LES size COBs.

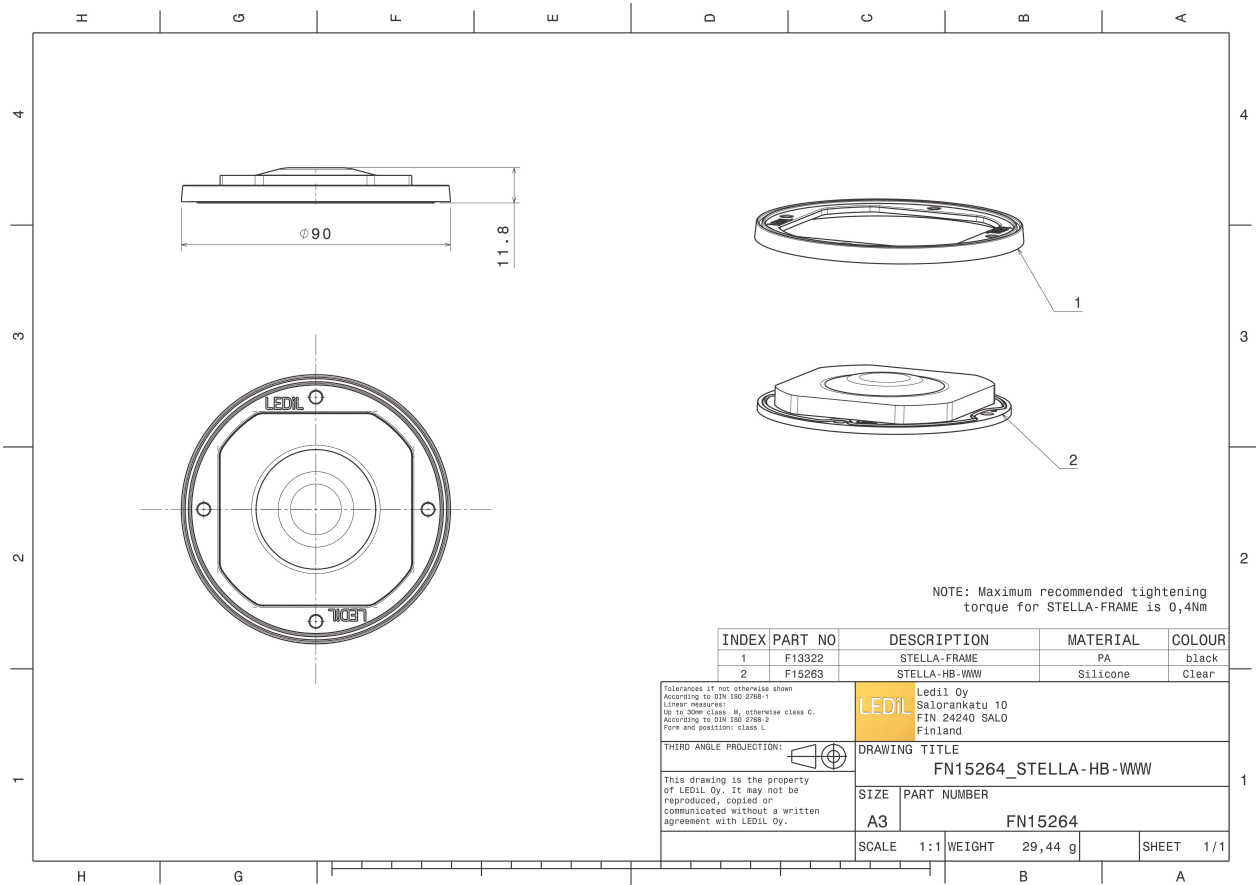
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 90.0 mm
Height	11.3 mm
Fastening	screw
Colour	black
Box size	480 x 280 x 300 mm
Box weight	5 kg
Quantity in Box	135 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

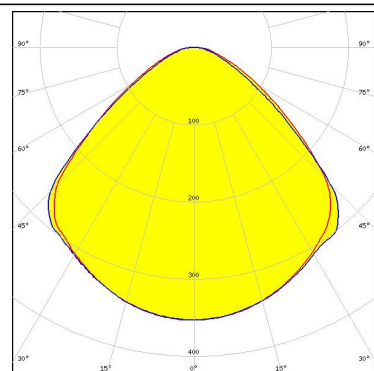
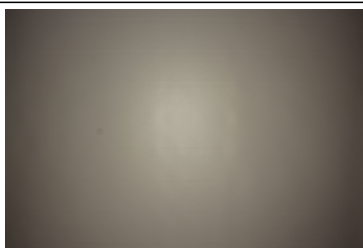
Component	Type	Material	Colour
STELLA-HB-WWW	Single lens	Silicone	clear
STELLA-FRAME	Holder	PA66	black



### PHOTOMETRIC DATA (MEASURED):

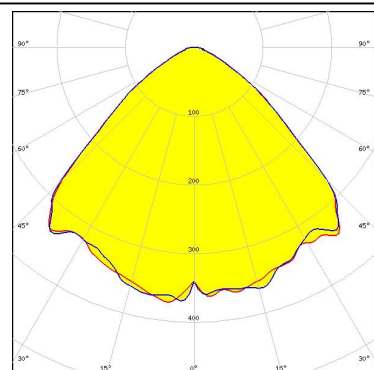
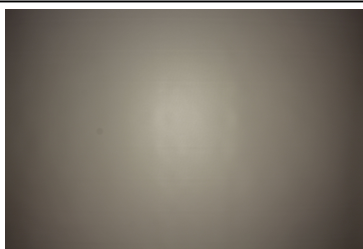
bridgelux.

LED V18 Gen7  
FWHM 101.0°  
Efficiency 88 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



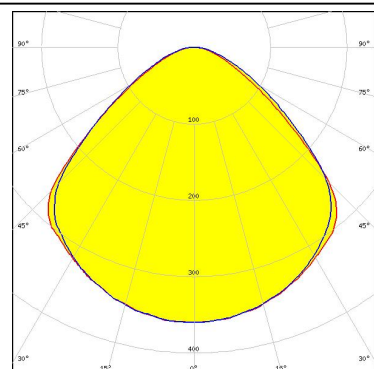
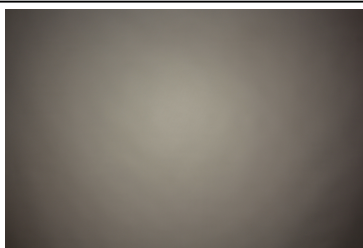
bridgelux.

LED V18 Gen7  
FWHM 102.0°  
Efficiency 87 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
BJB: 47.319.2350



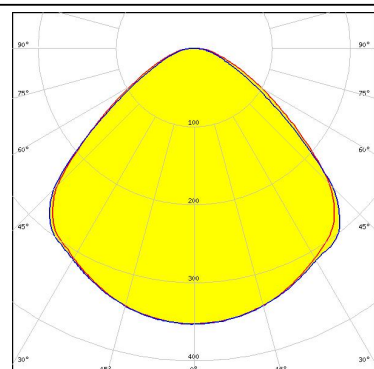
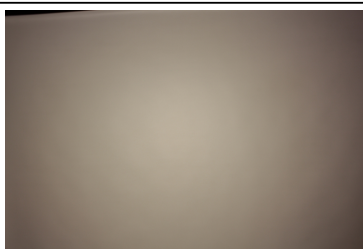
bridgelux.

LED V18 Gen7  
FWHM 102.0°  
Efficiency 90 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 439 Typ L3



bridgelux.

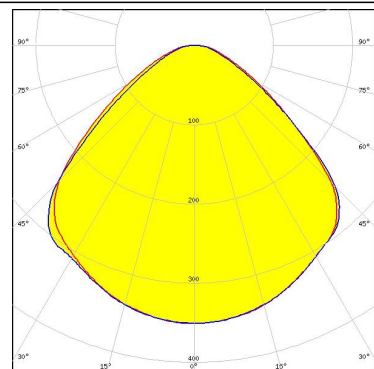
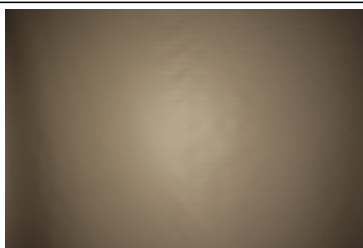
LED V22 Gen7  
FWHM 102.0°  
Efficiency 89 %  
Peak intensity 0.350 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 431 Typ Z1



### PHOTOMETRIC DATA (MEASURED):

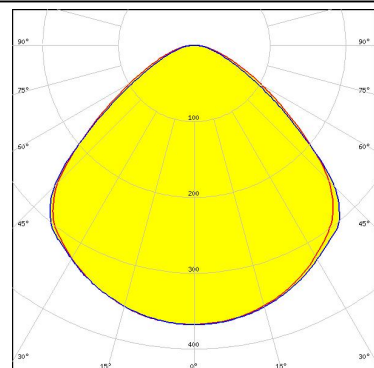
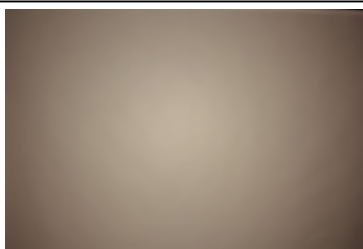
bridgelux.

LED V22 Gen7  
FWHM 101.0°  
Efficiency 87 %  
Peak intensity 0.350 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



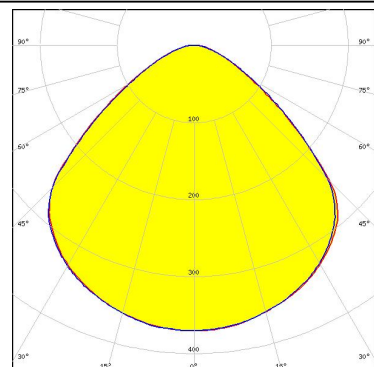
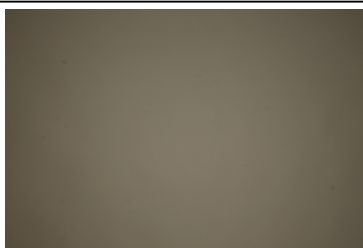
bridgelux.

LED V22 Gen7  
FWHM 102.0°  
Efficiency 92 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213480-1



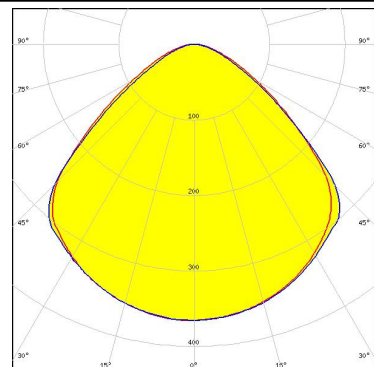
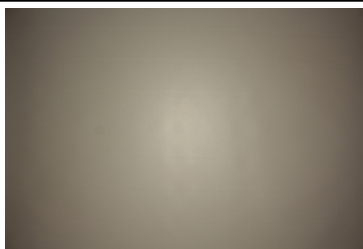
bridgelux.

LED Vero SE 13  
FWHM 101.0°  
Efficiency 90 %  
Peak intensity 0.370 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



bridgelux.

LED Vero SE 18  
FWHM 101.0°  
Efficiency 90 %  
Peak intensity 0.370 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

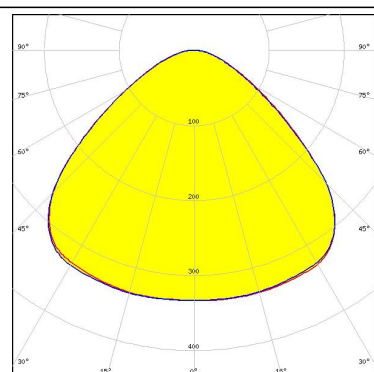
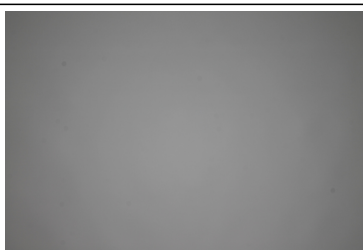




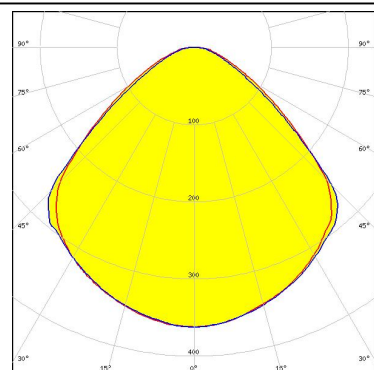
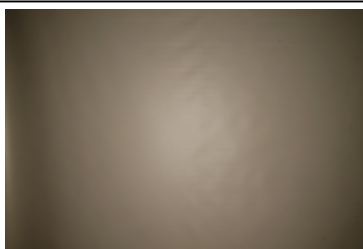
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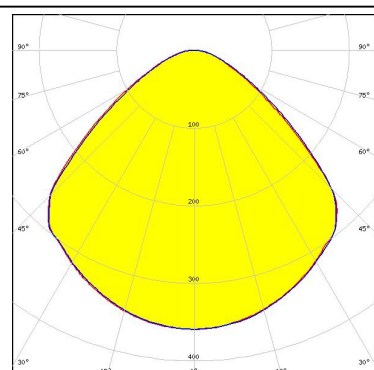
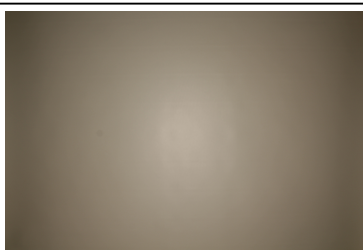
LED Vero SE 29  
FWHM 105.0°  
Efficiency 92 %  
Peak intensity 0.340 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



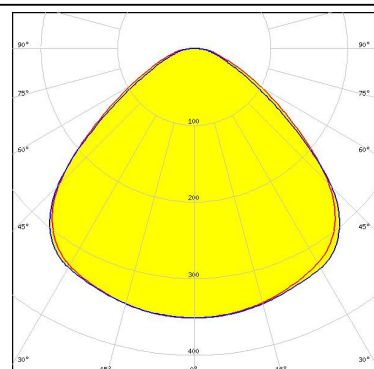
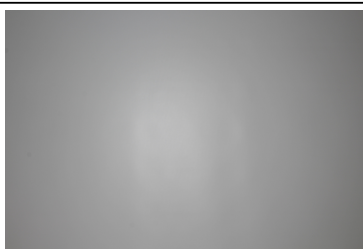
LED VERO13  
FWHM 100.0°  
Efficiency 88 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED VERO18  
FWHM 102.0°  
Efficiency 89 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



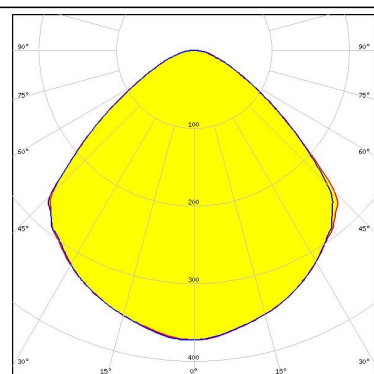
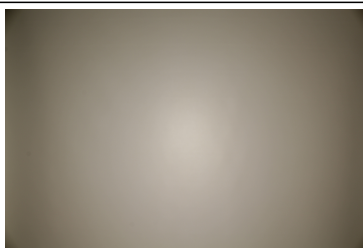
LED VERO29  
FWHM 103.0°  
Efficiency 91 %  
Peak intensity 0.350 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

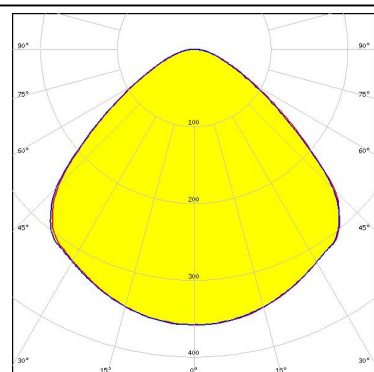
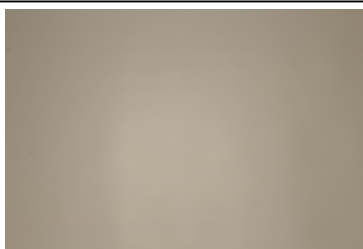
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 100.0°  
 Efficiency 88 %  
 Peak intensity 0.370 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



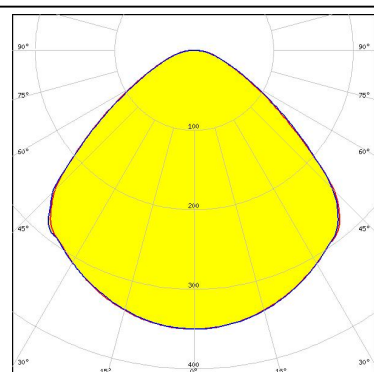
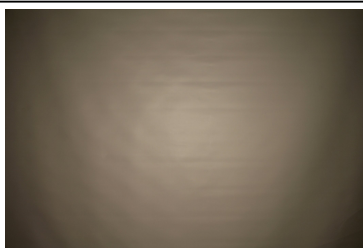
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 102.0°  
 Efficiency 89 %  
 Peak intensity 0.360 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



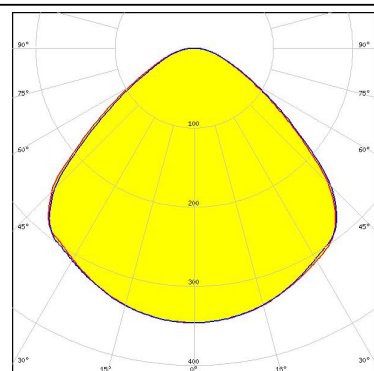
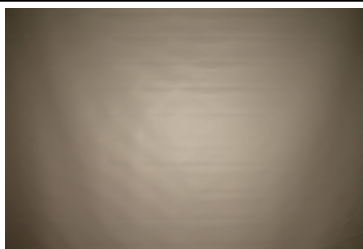
#### CREE

LED CMA2550  
 FWHM 102.0°  
 Efficiency 88 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

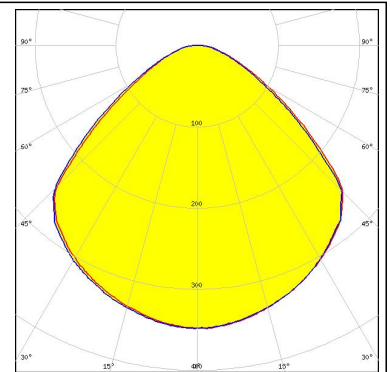
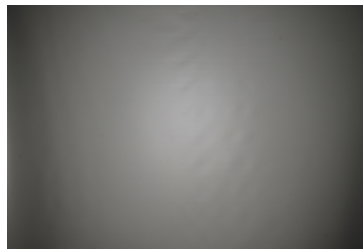
LED CMA3090  
 FWHM 102.0°  
 Efficiency 88 %  
 Peak intensity 0.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



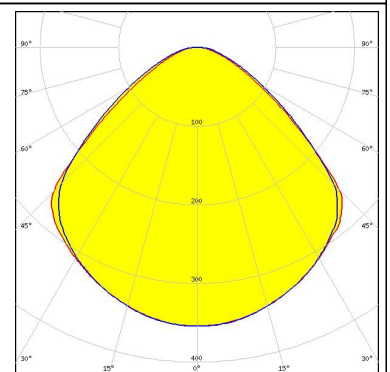
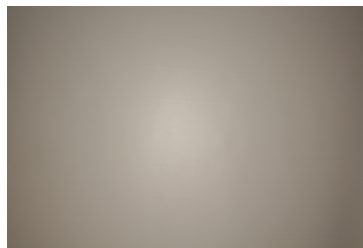
#### PHOTOMETRIC DATA (MEASURED):



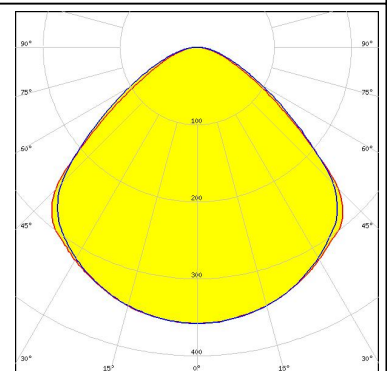
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 102.0°  
 Efficiency 87 %  
 Peak intensity 0.350 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



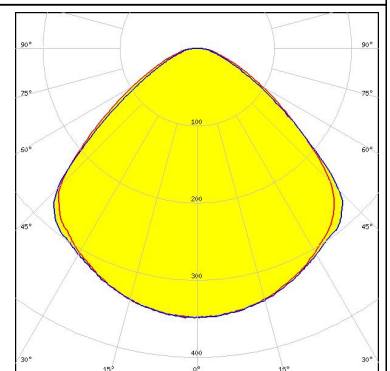
LED CXA/B 1830  
 FWHM 102.0°  
 Efficiency 88 %  
 Peak intensity 0.350 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14305\_STELLA-CLAMP-CXA15-18



LED CXA/B 25xx  
 FWHM 101.0°  
 Efficiency 90 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 439 Typ L3



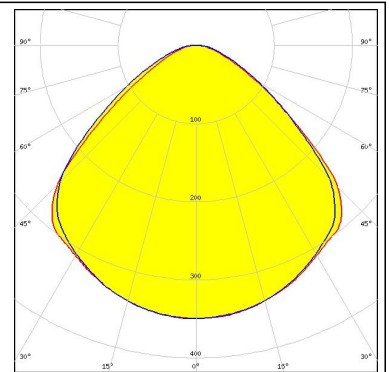
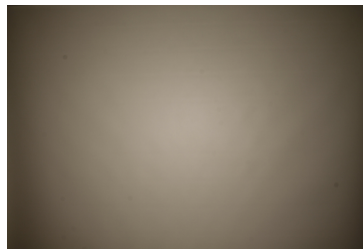
LED CXA/B 25xx  
 FWHM 102.0°  
 Efficiency 88 %  
 Peak intensity 0.350 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



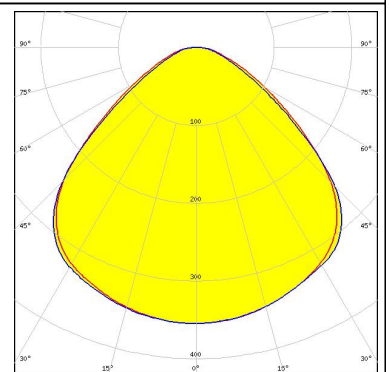
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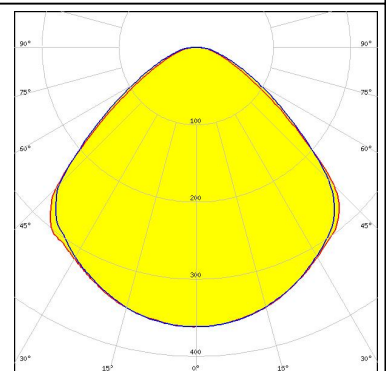
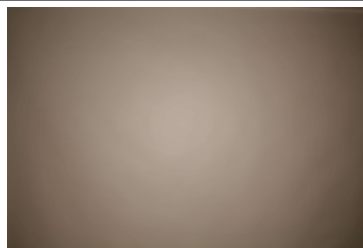
LED CXA/B 30xx  
FWHM 102.0°  
Efficiency 88 %  
Peak intensity 0.350 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



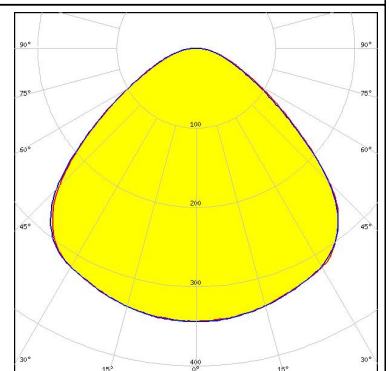
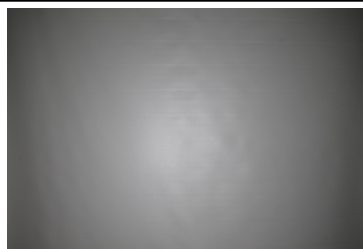
LED CXA/B 3590  
FWHM 102.0°  
Efficiency 90 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON CoB 1211  
FWHM 101.0°  
Efficiency 89 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 431 Typ L3



LED LUXEON CoB 1321  
FWHM 102.0°  
Efficiency 89 %  
Peak intensity 0.340 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

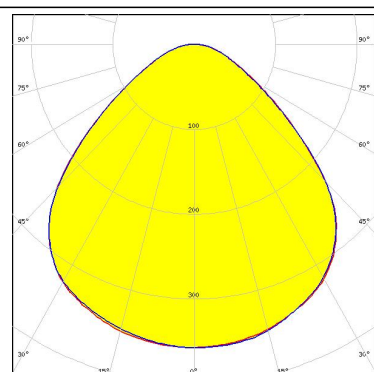
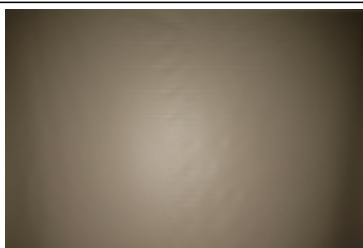




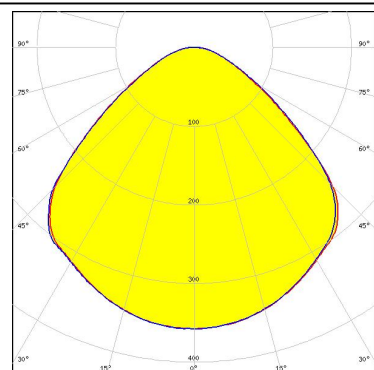
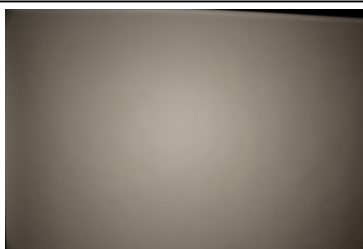
### PHOTOMETRIC DATA (MEASURED):



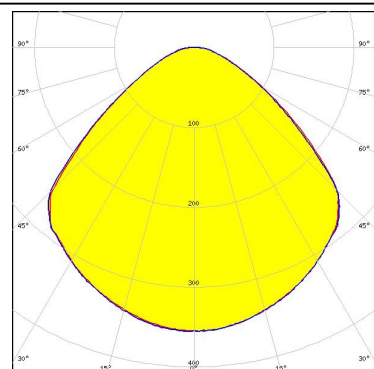
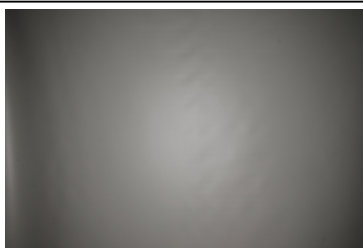
LED LUXEON CoB 1825  
FWHM 100.0°  
Efficiency 88 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



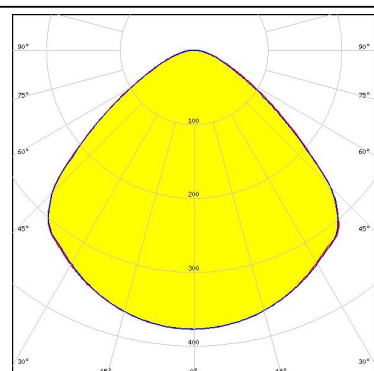
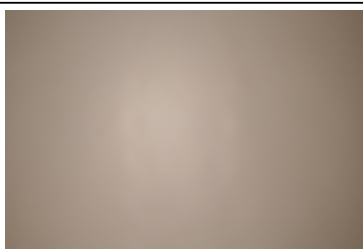
LED COB H-Type  
FWHM 101.0°  
Efficiency 89 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED COB J-Type  
FWHM 102.0°  
Efficiency 88 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED Fortimo SLM L19 + SLM holder (PI)  
FWHM 101.0°  
Efficiency 93 %  
Peak intensity 0.380 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

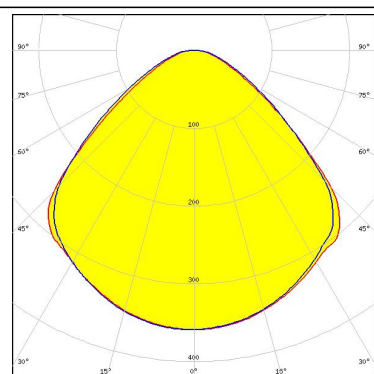
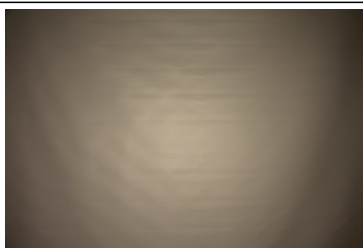




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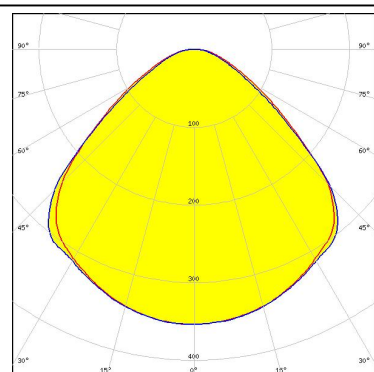
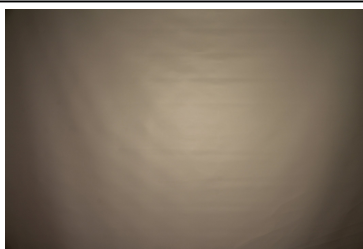
#### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM 100.0°  
 Efficiency 88 %  
 Peak intensity 0.350 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1



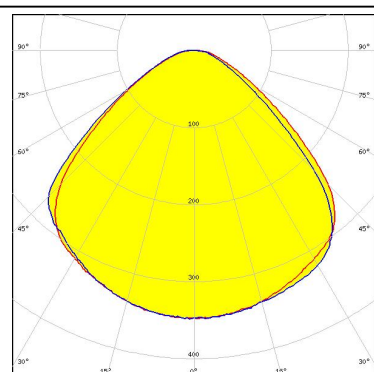
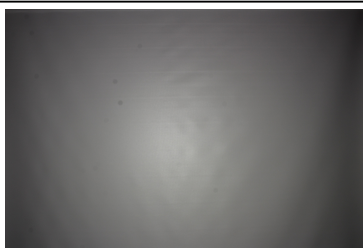
#### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM 145.0°  
 Efficiency 88 %  
 Peak intensity 0.350 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1



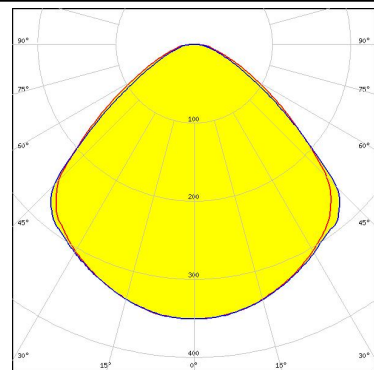
#### SAMSUNG

LED COB D Series LES 22 mm  
 FWHM 102.0°  
 Efficiency 88 %  
 Peak intensity 0.350 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5  
 FWHM 101.0°  
 Efficiency 87 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 14.5</p> <p>FWHM 101.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.450 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 433 Typ Z1</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22</p> <p>FWHM 101.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.400 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: IDEAL: 50-2204CT</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22</p> <p>FWHM 101.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.400 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 431 Typ Z1</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22</p> <p>FWHM 101.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.360 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 431 Typ Z1</p>		

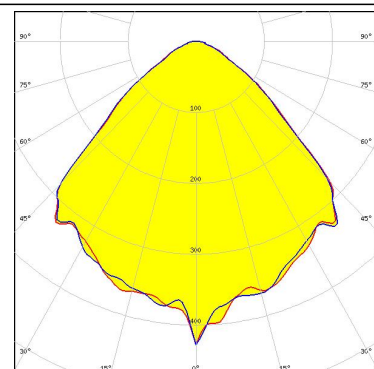
## PHOTOMETRIC DATA (MEASURED):

 SEOUL SEMICONDUCTOR	LED MJT COB LES 22 FWHM 101.0° Efficiency 89 % Peak intensity 0.360 cd/lm LEDs/each optic 1 Light colour White Required components: IDEAL: 50-2204CT	
 SEOUL SEMICONDUCTOR	LED MJT COB LES 33 FWHM 101.0° Efficiency 90 % Peak intensity 0.360 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 458 Typ L4	

### PHOTOMETRIC DATA (SIMULATED):

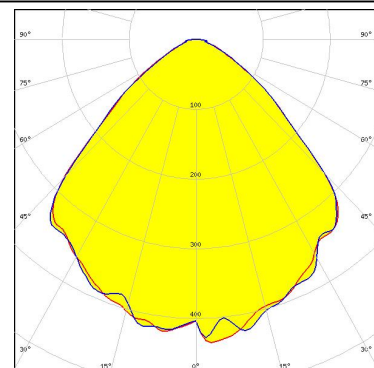
bridgelux.

LED V10 Gen7  
FWHM 95.0°  
Efficiency 88 %  
Peak intensity 0.430 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 486 Typ L1



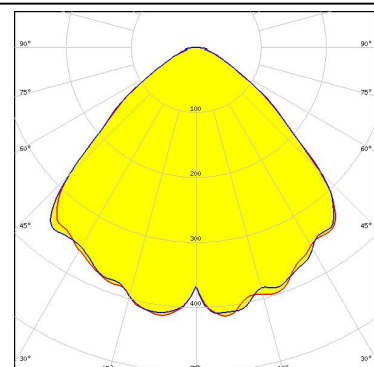
bridgelux.

LED V13 Gen7  
FWHM 94.0°  
Efficiency 94 %  
Peak intensity 0.448 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



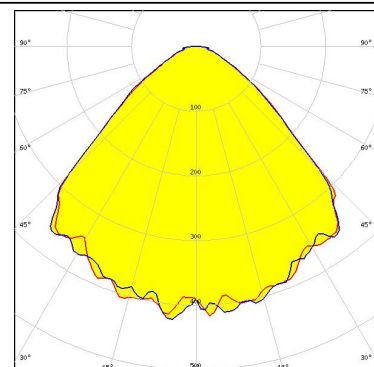
bridgelux.

LED V13 Gen7  
FWHM 94.0°  
Efficiency 94 %  
Peak intensity 0.440 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 477 Typ Z1



bridgelux.

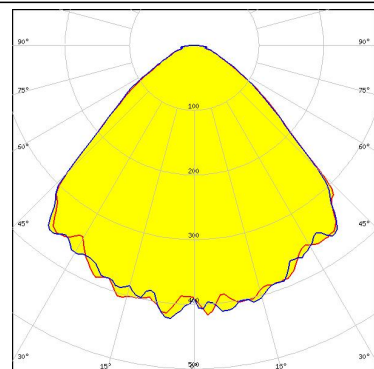
LED V22 Gen7  
FWHM 94.0°  
Efficiency 94 %  
Peak intensity 0.457 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 431 Typ Z1



### PHOTOMETRIC DATA (SIMULATED):

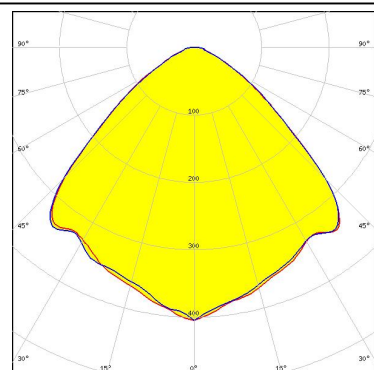


LED V22 Gen7  
FWHM 96.0°  
Efficiency 94 %  
Peak intensity 0.457 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2204CT



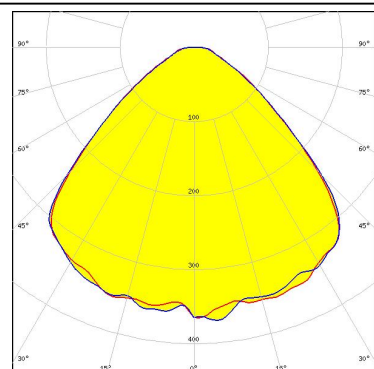
### CITIZEN

LED CLL03x/CLU03x  
FWHM 98.0°  
Efficiency 90 %  
Peak intensity 0.406 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

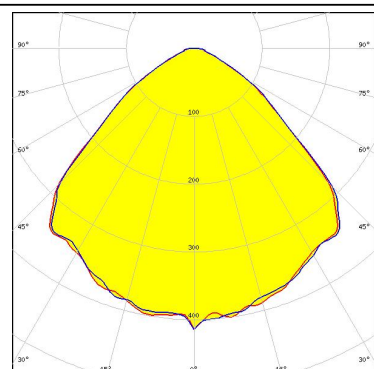


### CITIZEN

LED CLL05x/CLU05x  
FWHM 97.0°  
Efficiency 87 %  
Peak intensity 0.380 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED CMA3090  
FWHM 97.0°  
Efficiency 94 %  
Peak intensity 0.420 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

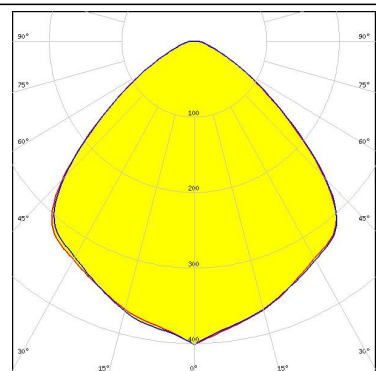




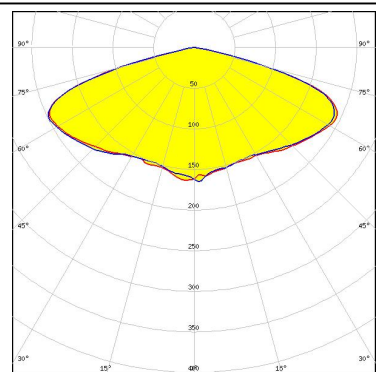
### PHOTOMETRIC DATA (SIMULATED):



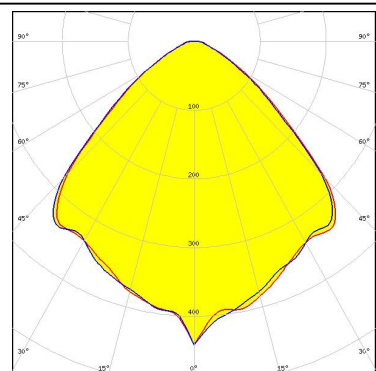
LED CXA/B 25xx  
FWHM 98.0°  
Efficiency 89 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON CoB 1216/1812  
FWHM 99.0°  
Efficiency 87 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED SLE G6 LES19  
FWHM 96.0°  
Efficiency 94 %  
Peak intensity 0.440 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 466 Typ L4



### 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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