

## ANGELINA-XW-B

White version with ~91° wide beam compatible with BJB and B+W connectors

### SPECIFICATION:

Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes ⓘ

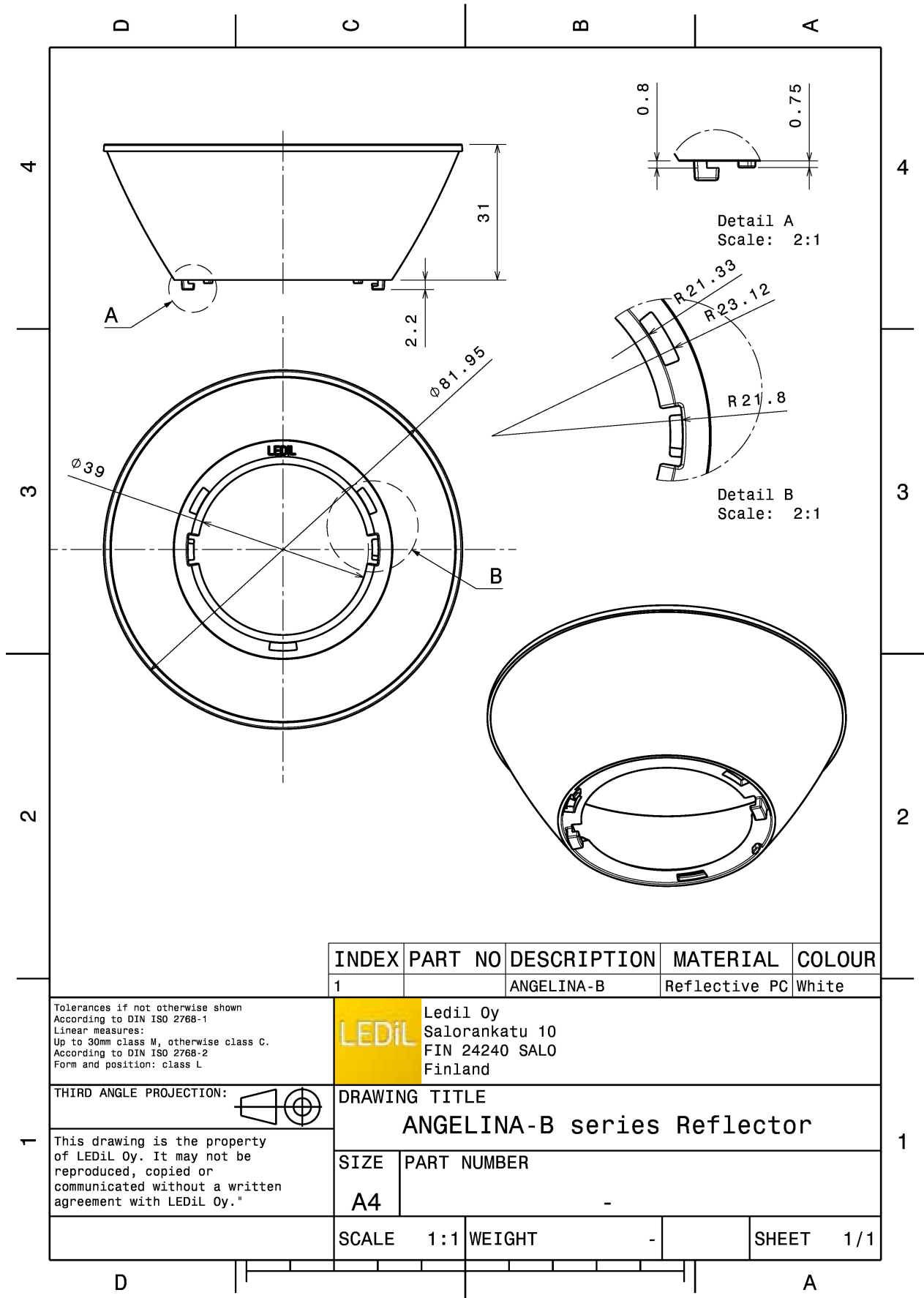
### MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELINA-XW-B	Reflector	HRPC	white		

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13839_ANGELINA-XW-B » Box size: 480 x 280 x 300 mm	825	110	55	11.1





INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA-B	Reflective PC	White

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**ANGELINA-B series Reflector**



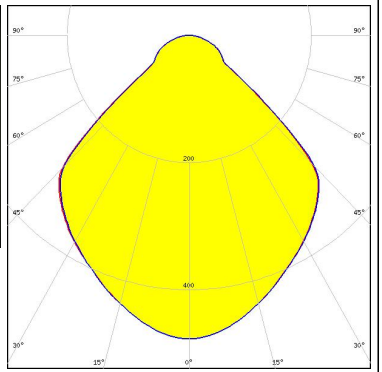


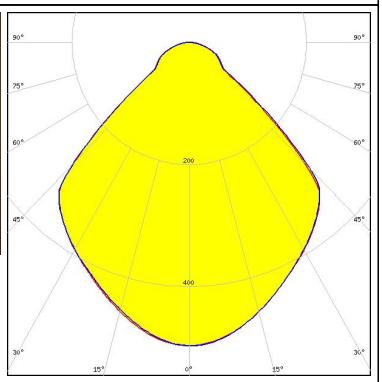

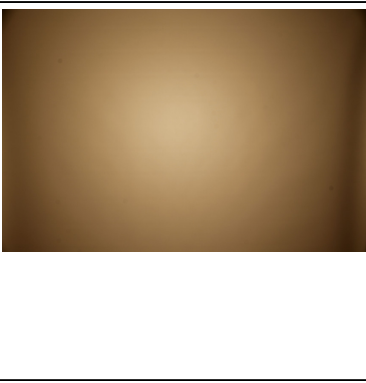
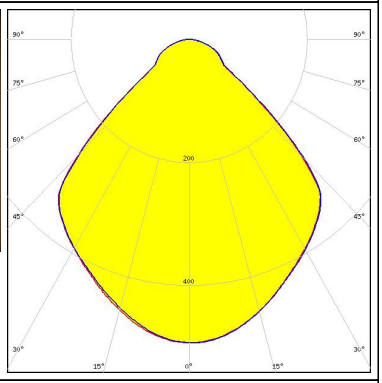

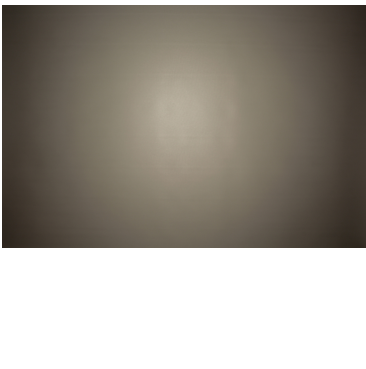
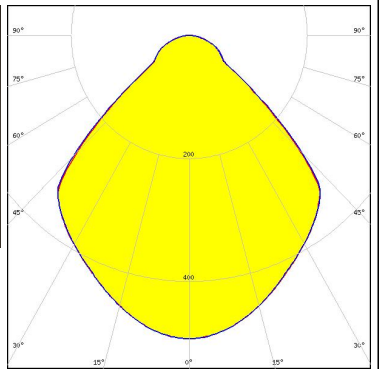
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE	PART NUMBER
A4	-


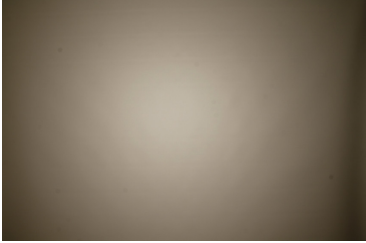
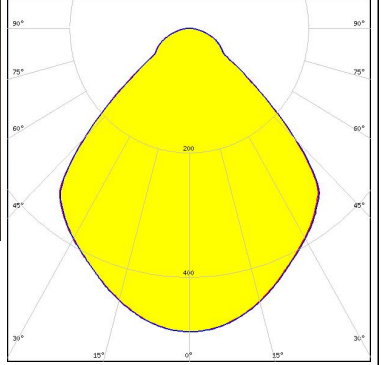


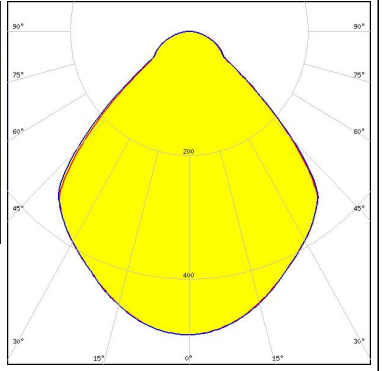

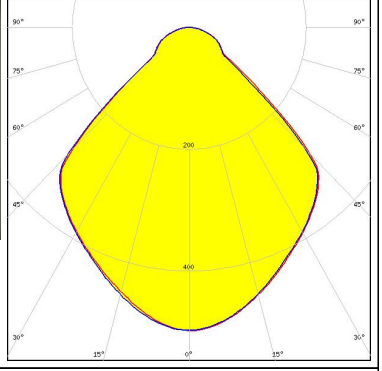
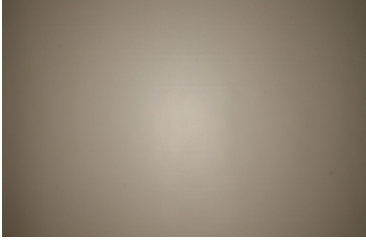
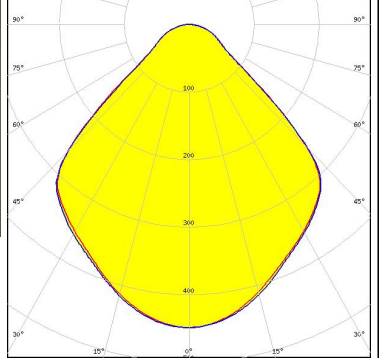
SCALE	1:1	WEIGHT	-	SHEET	1/1
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See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED BXRA ES Rectangle</p> <p>FWHM / FWTM 94.0° / 135.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2040</p>		
<p></p> <p>LED V15 Gen6</p> <p>FWHM / FWTM 92.0° / 133.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2224</p>		
<p></p> <p>LED V18 Gen6</p> <p>FWHM / FWTM 92.0° / 134.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2274</p>		
<p></p> <p>LED V18 Gen7</p> <p>FWHM / FWTM 92.0° / 134.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2350</p>		

#### OPTICAL RESULTS (MEASURED):

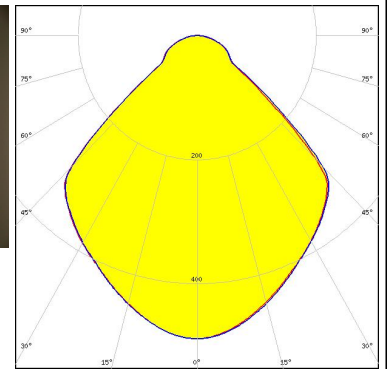
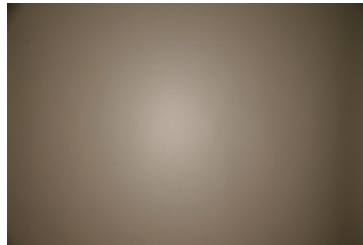
<p></p> <p>LED V22 Gen6            FWHM / FWTM 91.0° / 133.0°            Efficiency 94 %            Peak intensity 0.5 cd/m            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8102-G2</p>		
<p></p> <p>LED V22 Gen7            FWHM / FWTM 91.0° / 133.0°            Efficiency 94 %            Peak intensity 0.5 cd/m            LEDs/each optic 1            Light colour White            Required components:            BJB: 47.319.2030</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM / FWTM 93.0° / 133.0°            Efficiency 94 %            Peak intensity 0.5 cd/m            LEDs/each optic 1            Light colour White            Required components:            BJB: 47.319.2021</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM / FWTM 93.0° / 132.0°            Efficiency 89 %            Peak intensity 0.5 cd/m            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            A.A.G. STUCCHI: 8101-G2</p>		



#### OPTICAL RESULTS (MEASURED):

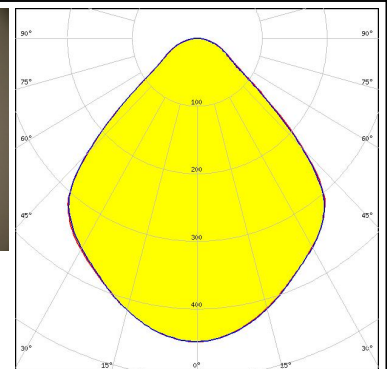
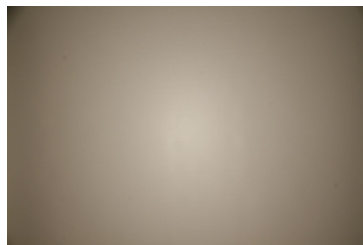
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 93.0° / 135.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8101-G2



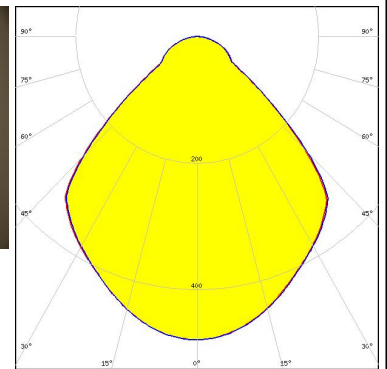
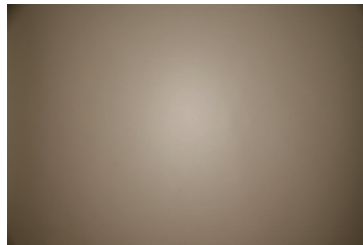
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 91.0° / 132.0°  
 Efficiency 88 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 A.A.G. STUCCHI: 8102-G2



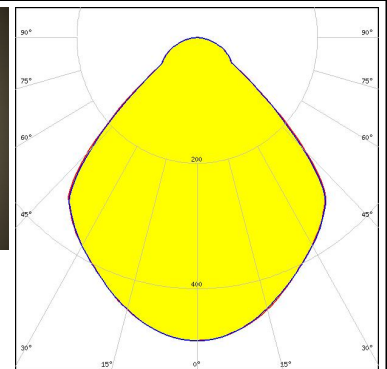
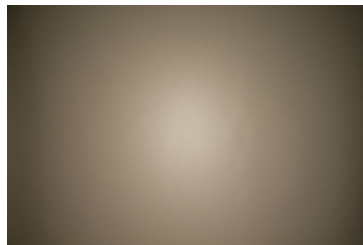
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 92.0° / 135.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8102-G2


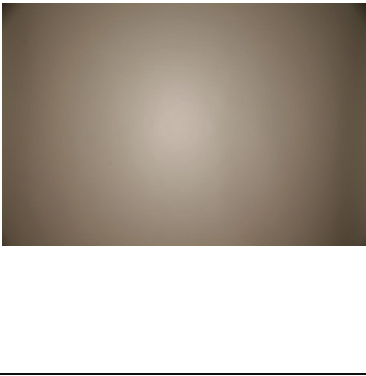
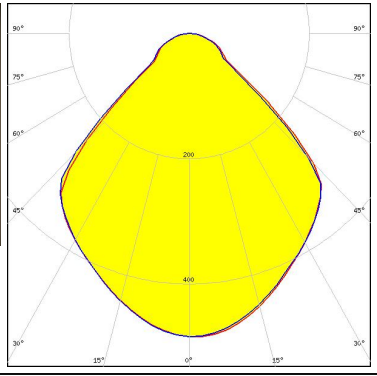

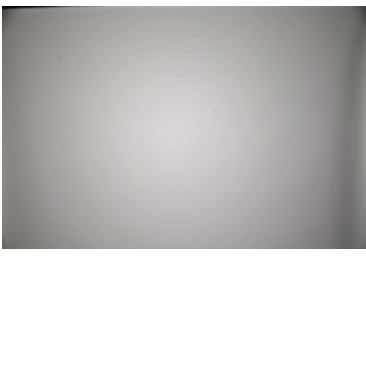
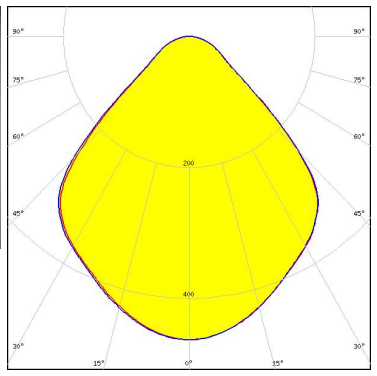


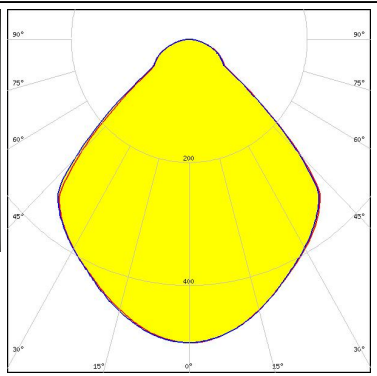

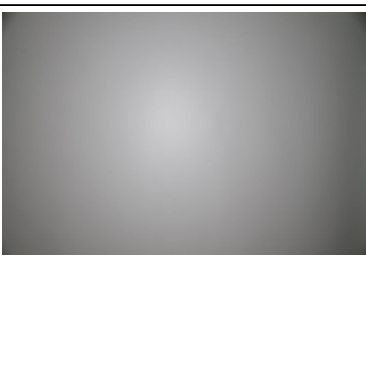
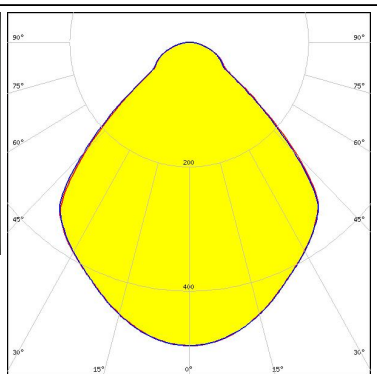


#### CITIZEN

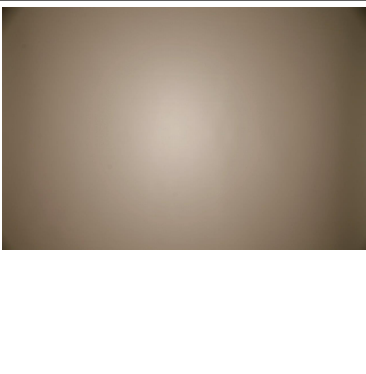
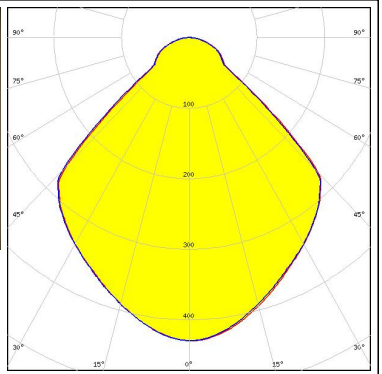
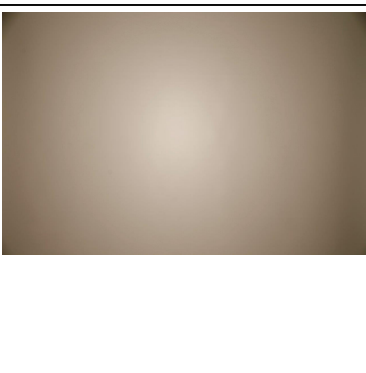
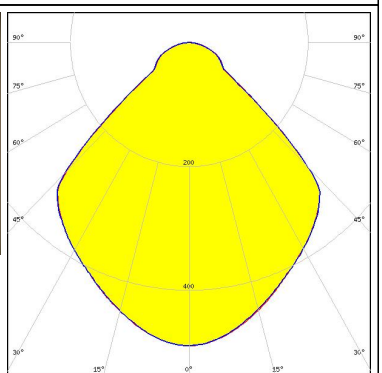
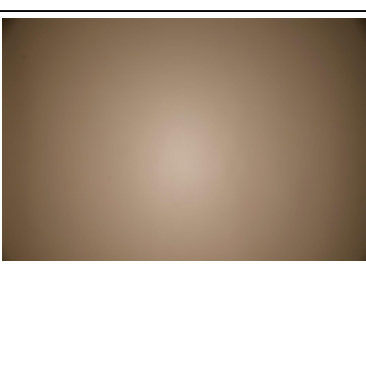
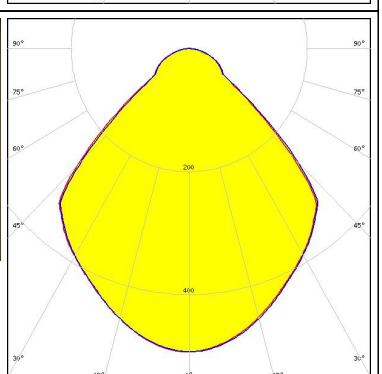
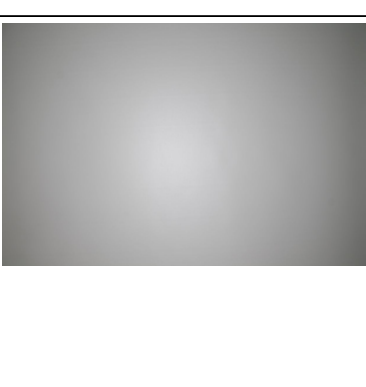
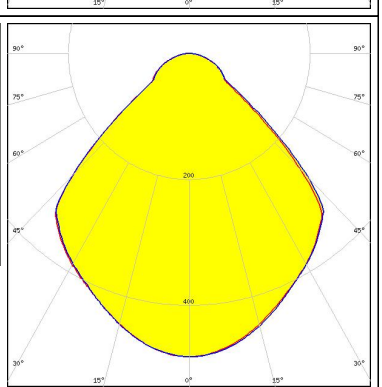
LED CLL04x/CLU04x  
 FWHM / FWTM 91.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b>  <b>LED</b></p> <p>LED CXA/B 25xx            FWHM / FWTM 93.0° / 135.0°            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8401-G2</p>		
<p><b>CREE</b>  <b>LED</b></p> <p>LED CXA/B 25xx            FWHM / FWTM 92.0° / 133.0°            Efficiency 92 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            BJB: 47.319.2141</p>		
<p><b>CREE</b>  <b>LED</b></p> <p>LED CXA/B 25xx            FWHM / FWTM 92.0° / 134.0°            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            BJB: 47.319.2141</p>		
<p><b>CREE</b>  <b>LED</b></p> <p>LED CXA/B 30xx            FWHM / FWTM 90.0° / 134.0°            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8404-G2</p>		

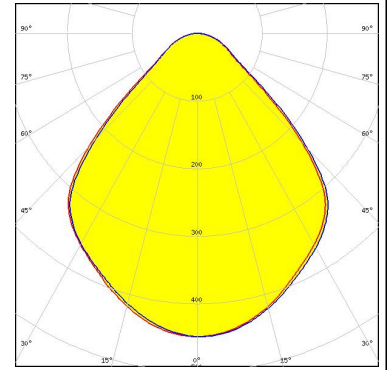
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204/1205</p> <p>FWHM / FWTM 94.0° / 135.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: A.A.G. STUCCHI: 8301-G2</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208</p> <p>FWHM / FWTM 93.0° / 135.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: A.A.G. STUCCHI: 8301-G2</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1211</p> <p>FWHM / FWTM 91.0° / 133.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: A.A.G. STUCCHI: 8102-G2</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1211</p> <p>FWHM / FWTM 92.0° / 135.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2030</p>		

#### OPTICAL RESULTS (MEASURED):

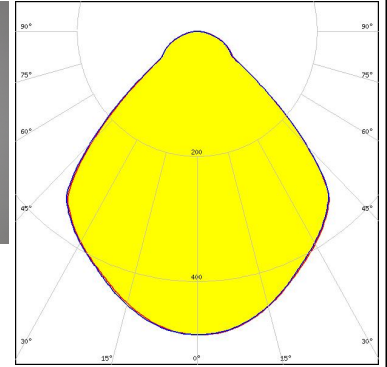
##### LUMILEDS

LED LUXEON CoB 1216/1812  
 FWHM / FWTM 91.0° / 133.0°  
 Efficiency 89 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2030



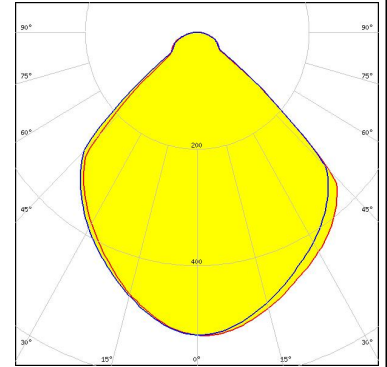
##### LUMILEDS

LED LUXEON CoB 1216/1812  
 FWHM / FWTM 91.0° / 134.0°  
 Efficiency 96 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



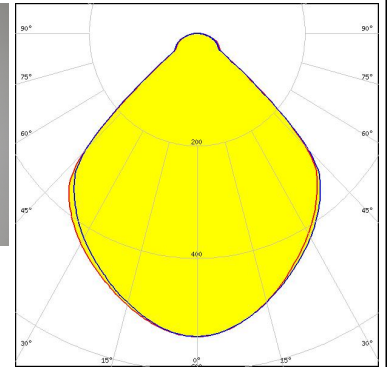
##### LUMILEDS

LED LUXEON K12  
 FWHM / FWTM 91.0° / 112.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2070

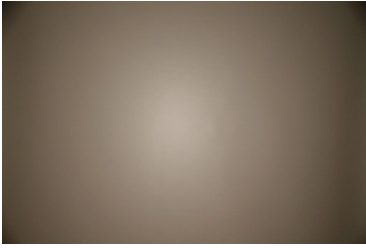
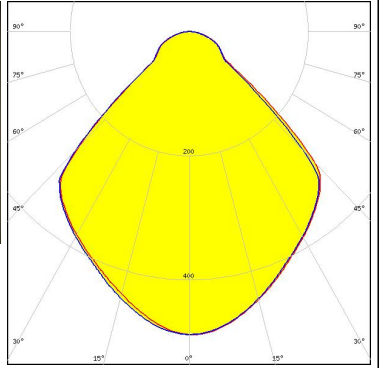
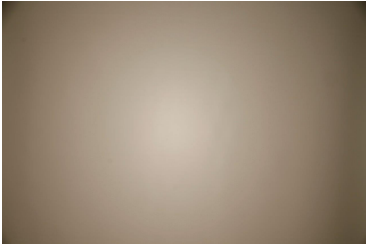
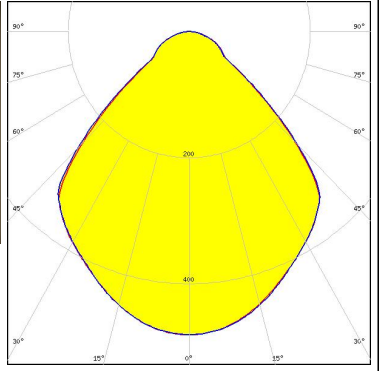
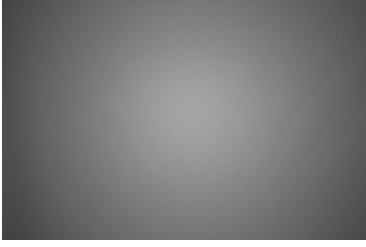
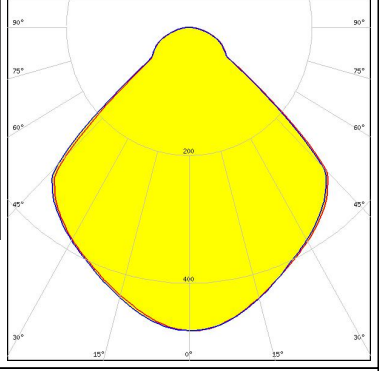
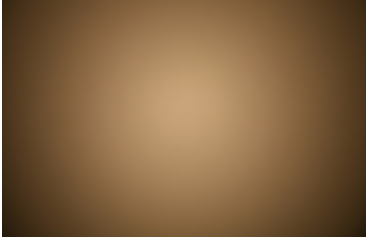
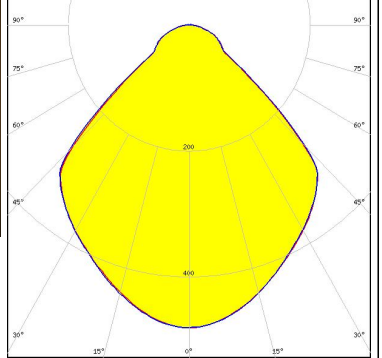


##### LUMILEDS

LED LUXEON K16  
 FWHM / FWTM 91.0° / 108.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2070



#### OPTICAL RESULTS (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CxM-14 (19x19)</p> <p>FWHM / FWTM 92.0° / 134.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2021</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-22 (28x28)</p> <p>FWHM / FWTM 91.0° / 135.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2030</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13 19x19</p> <p>FWHM / FWTM 94.0° / 137.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2021</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19</p> <p>FWHM / FWTM 93.0° / 134.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2170</p>		

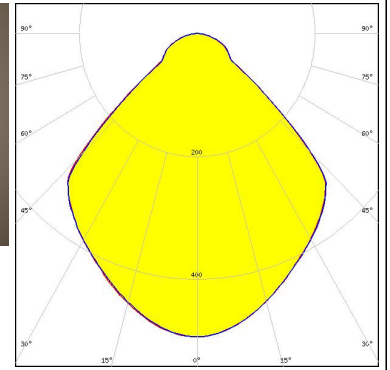
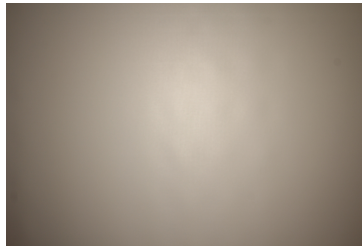


#### OPTICAL RESULTS (MEASURED):

#### OSRAM

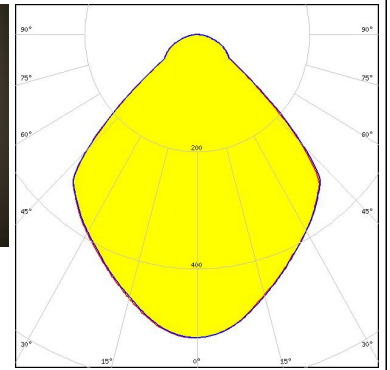
Opto Semiconductors

LED Soleriq S19  
 FWHM / FWTM 92.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8503-G2



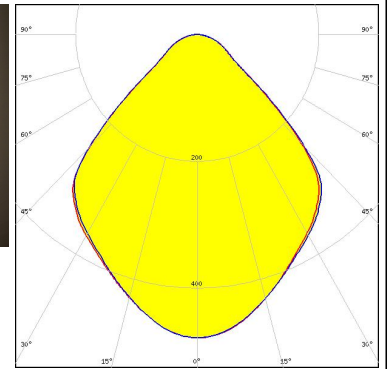
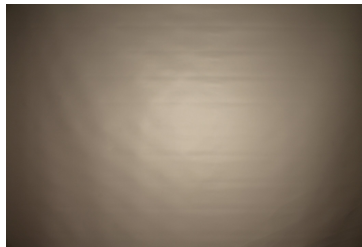
#### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM / FWTM 91.0° / 130.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



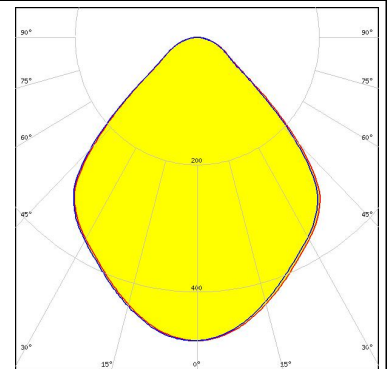
#### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM / FWTM 91.0° / 130.0°  
 Efficiency 91 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2030



#### PHILIPS

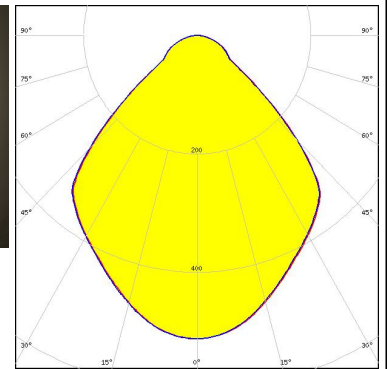
LED Fortimo SLM L23 CoB  
 FWHM / FWTM 90.0° / 131.0°  
 Efficiency 91 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2030



#### OPTICAL RESULTS (MEASURED):

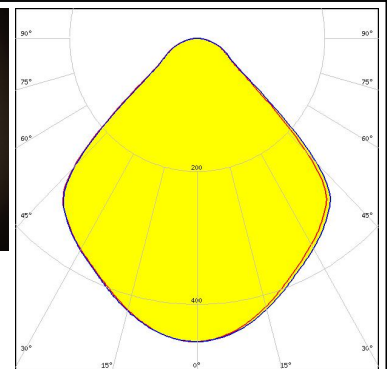
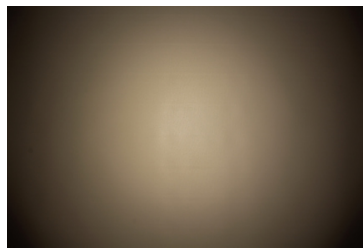
### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM / FWTM 90.0° / 131.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



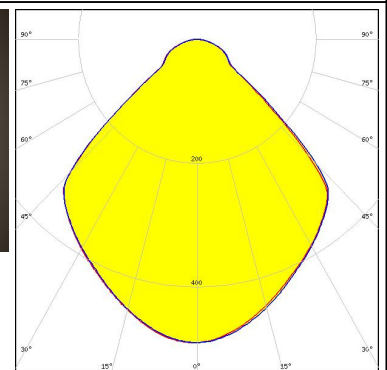
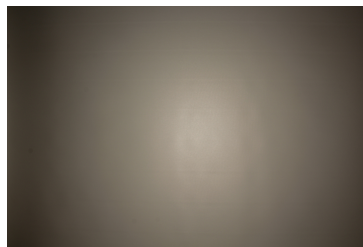
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 93.0° / 133.0°  
 Efficiency 91 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 A.A.G. STUCCHI: 8101-G2



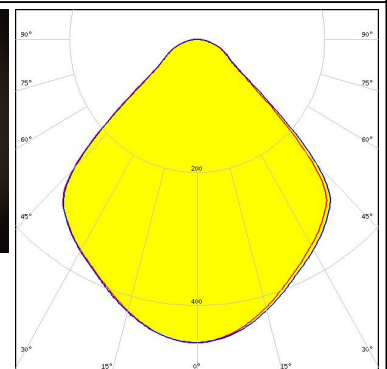
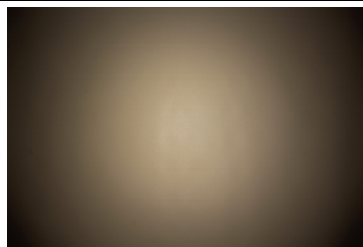
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 93.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8101-G2



### SAMSUNG

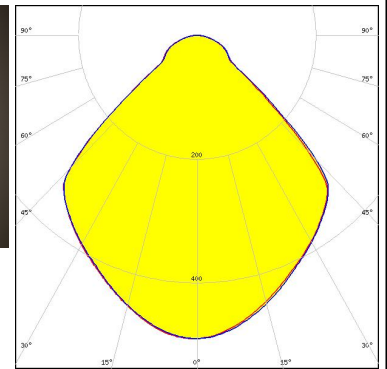
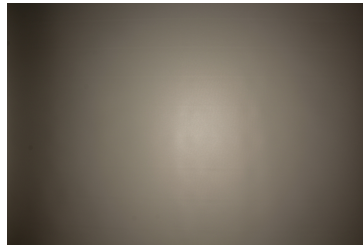
LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 93.0° / 133.0°  
 Efficiency 91 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2021



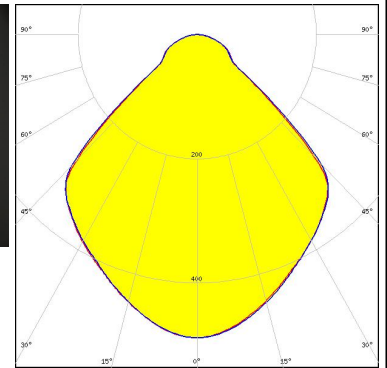
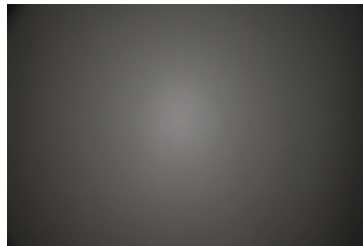
#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

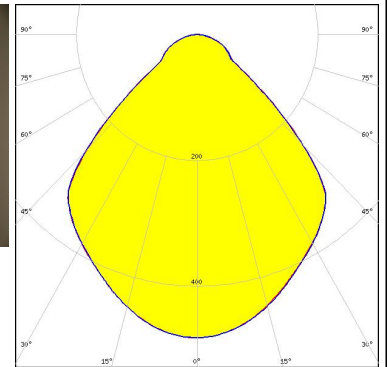
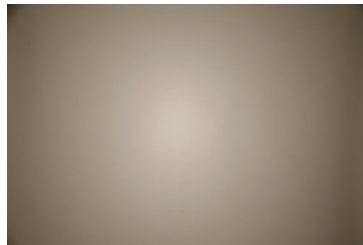
LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 93.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2021



LED ZC12/18  
 FWHM / FWTM 93.0° / 135.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8101-G2

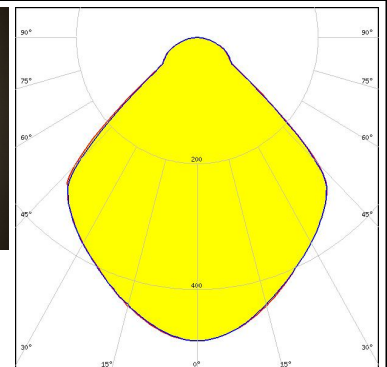
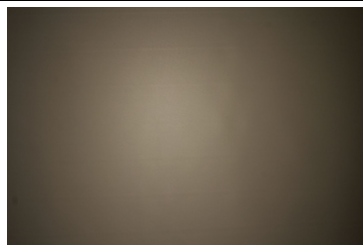


LED ZC25/40/60  
 FWHM / FWTM 91.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8102-G2



### SHARP

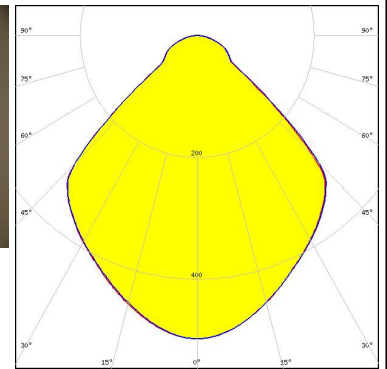
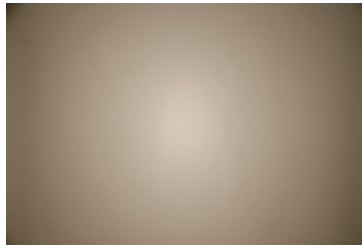
LED Mega Zenigata (GW5DGC)  
 FWHM / FWTM 93.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m<sup>2</sup>  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2011



#### OPTICAL RESULTS (MEASURED):

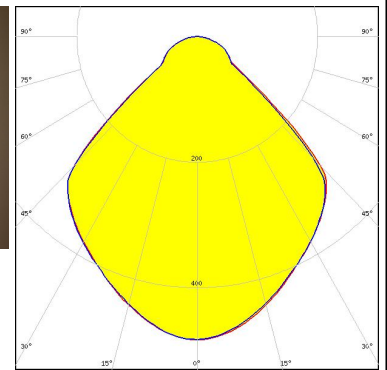
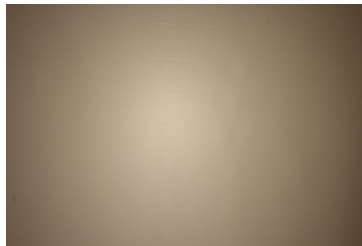
### SHARP

LED Mega Zenigata (GW6DME)  
 FWHM / FWTM 93.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8301-G2



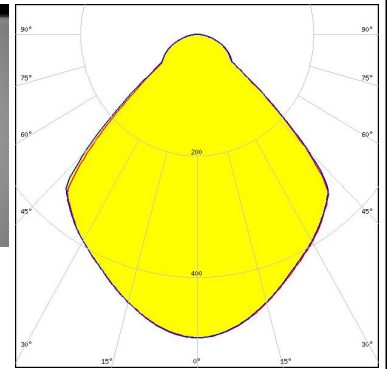
### SHARP

LED Mega Zenigata (GW6DME)  
 FWHM / FWTM 93.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2011



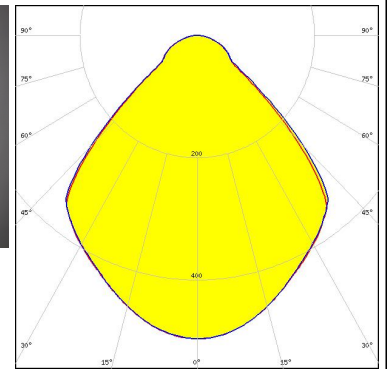
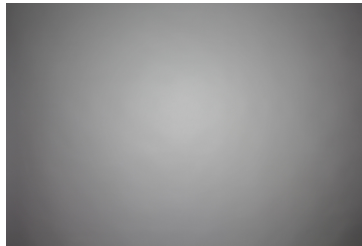
### TRIDONIC

LED SLE G7 LES17 H  
 FWHM / FWTM 91.0° / 133.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### TRIDONIC

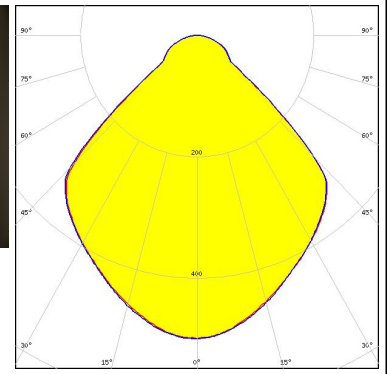
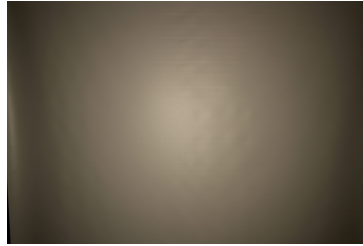
LED SLE G7 LES21 H  
 FWHM / FWTM 90.0° / 133.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## OPTICAL RESULTS (MEASURED):

### XICATO

LED XOB 14.5 mm  
FWHM / FWTM 93.0° / 132.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
BJB: 47.319.2021

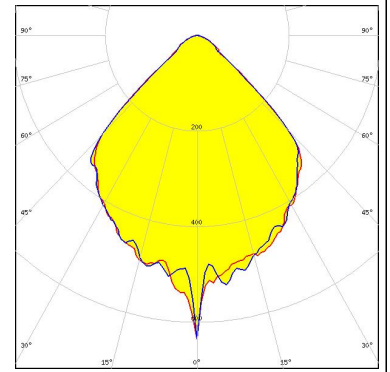




#### OPTICAL RESULTS (SIMULATED):

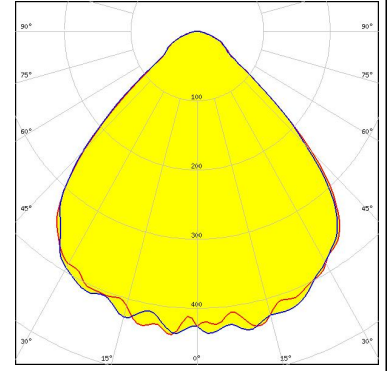
### CITIZEN

LED CLU730/731/733  
FWHM / FWTM 86.0° / 110.0°  
Efficiency 93 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
BJB: 47.319.2030



### SAMSUNG

LED LC040D / LC060D / LC080D  
FWHM / FWTM 91.0° / 127.0°  
Efficiency 88 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
BJB: 47.319.2030



#### 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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