

## ANGELINA-M-B

~30° medium beam compatible with BJB connectors

### TECHNICAL SPECIFICATIONS:

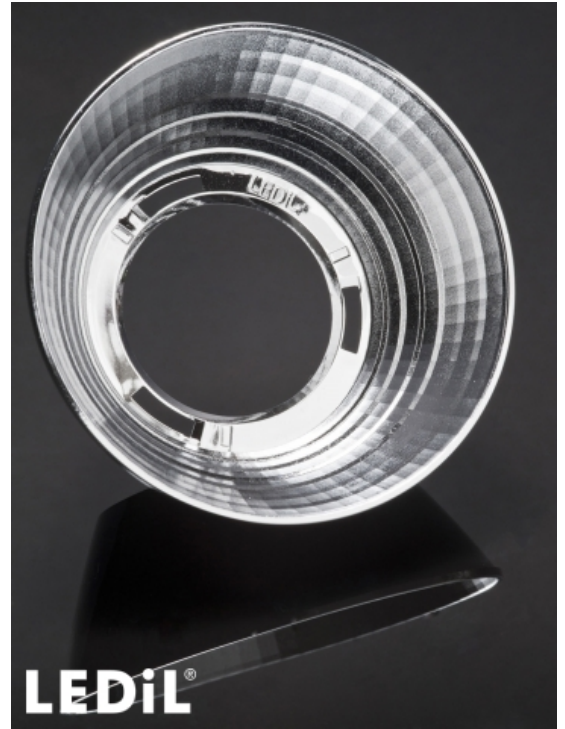
Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes ⓘ

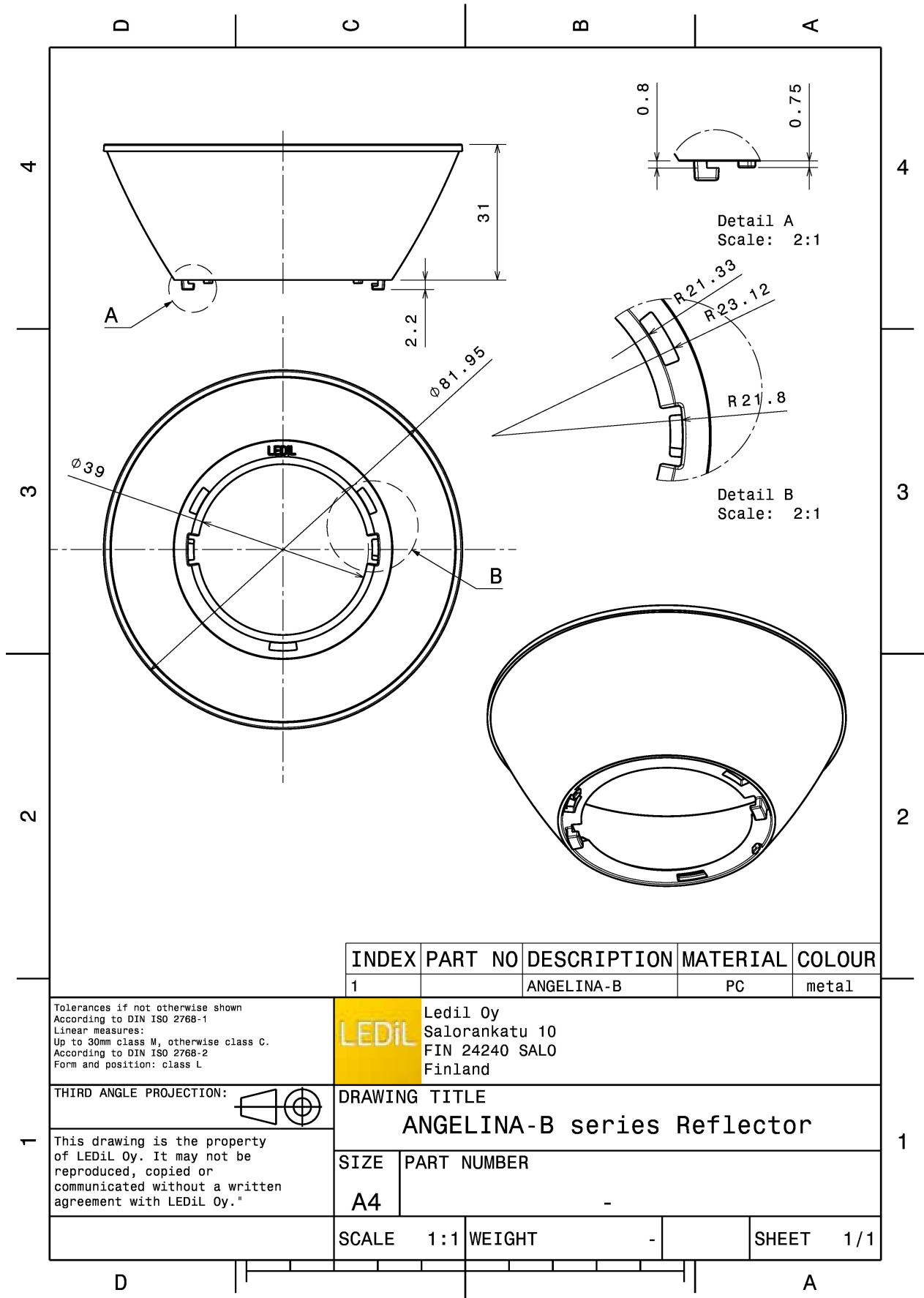
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
ANGELINA-M-B	Reflector	PC	metal		HMDS

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13660_ANGELINA-M-B » Box size: 480 x 280 x 300 mm	2035	110	55	10.0





INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA-B	PC	metal

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**


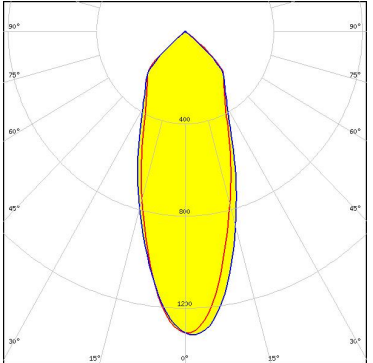


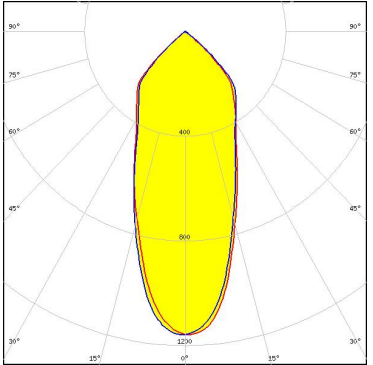

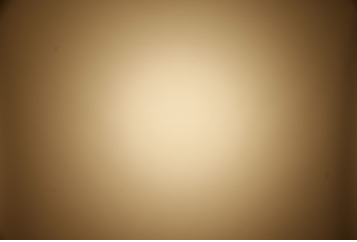
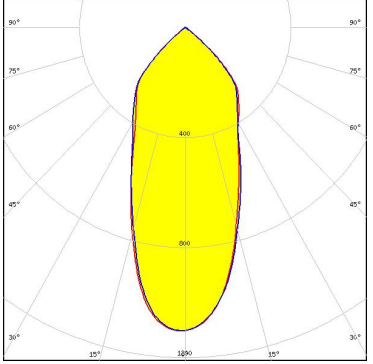

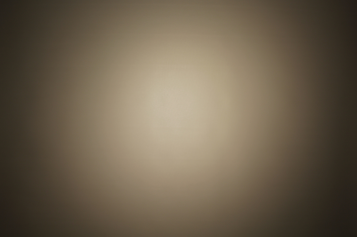
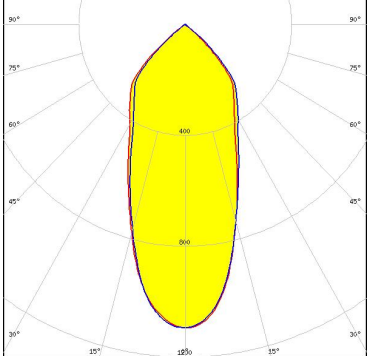
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE	PART NUMBER
A4	-


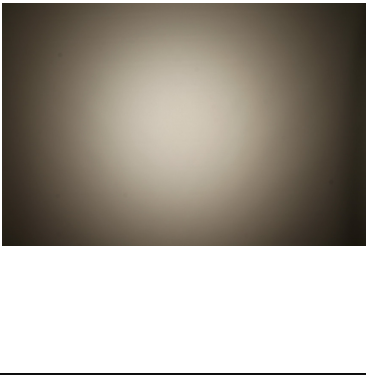
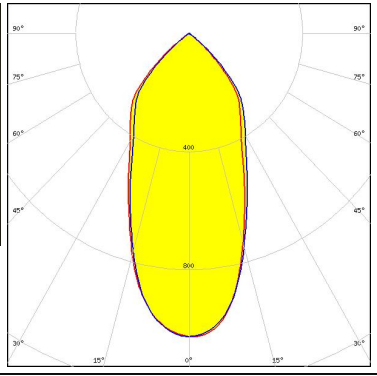


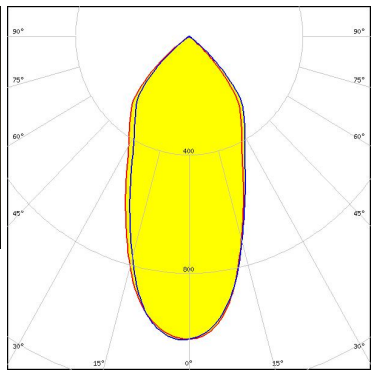

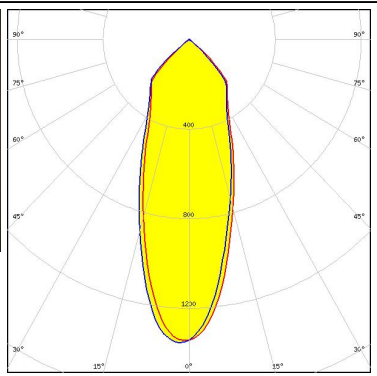
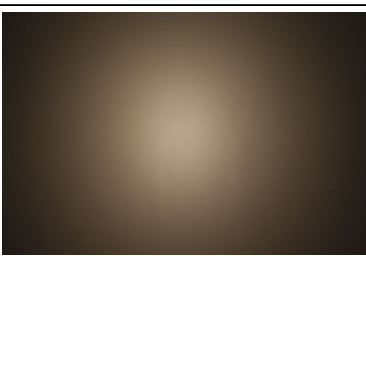
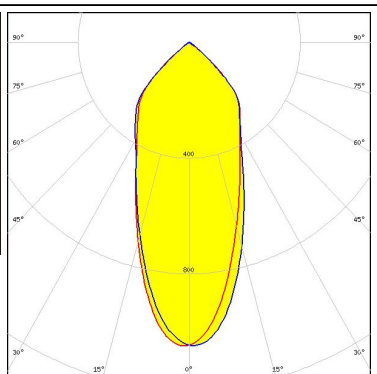
SCALE	1:1	WEIGHT	-	SHEET	1/1
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See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED BXRA ES Rectangle</p> <p>FWHM / FWTM 38.0° / 97.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.3 cd/m</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 41.0° / 98.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.2 cd/m</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 44.0° / 98.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.1 cd/m</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 44.0° / 99.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2350</p>		

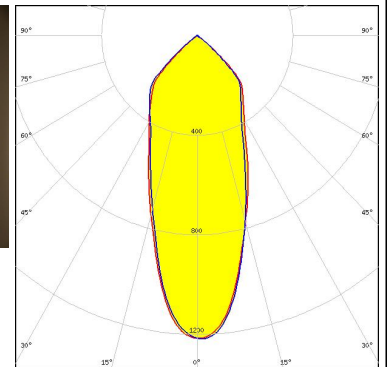
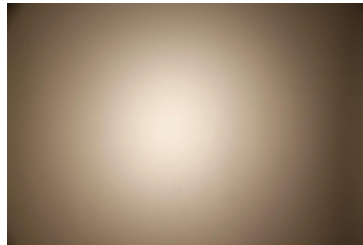
#### PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED V22 Gen6            FWHM / FWTM 47.0° / 98.0°            Efficiency 91 %            Peak intensity 1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8102-G2</p>		
<p></p> <p>LED V22 Gen7            FWHM / FWTM 47.0° / 98.0°            Efficiency 91 %            Peak intensity 1 cd/lm            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 37.0° / 96.0°            Efficiency 92 %            Peak intensity 1.4 cd/lm            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 43.0° / 99.0°            Efficiency 89 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            A.A.G. STUCCHI: 8101-G2</p>		

#### PHOTOMETRIC DATA (MEASURED):

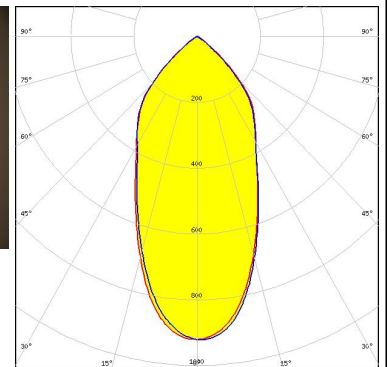
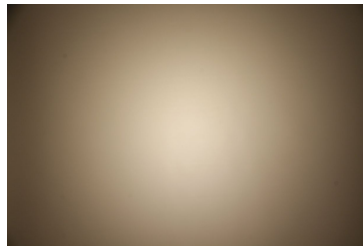
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 39.0° / 98.0°  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8101-G2



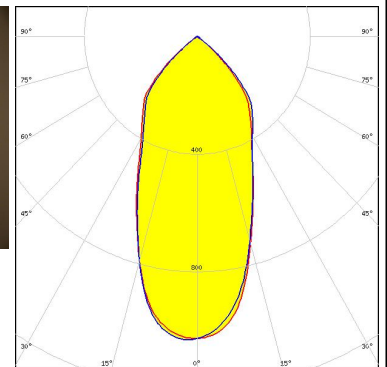
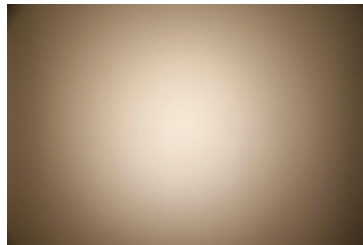
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 50.0° / 101.0°  
 Efficiency 87 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 A.A.G. STUCCHI: 8102-G2



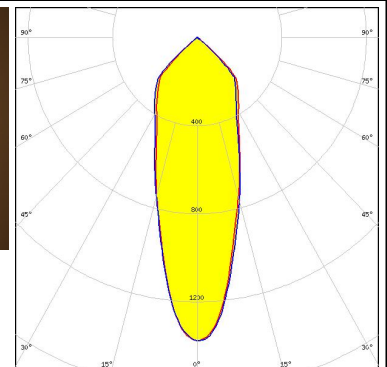
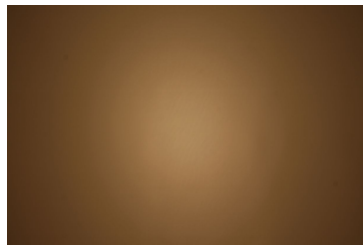
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 39.0° / 98.0°  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8102-G2



#### CITIZEN

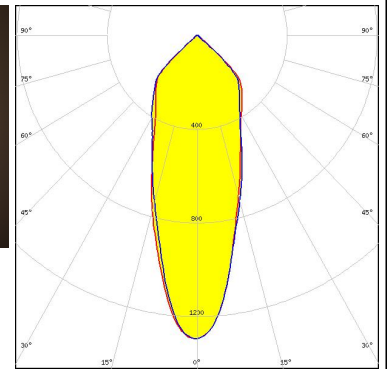
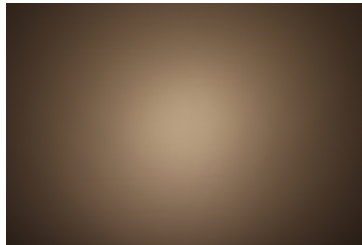
LED CLU720/721  
 FWHM / FWTM 34.0° / 96.0°  
 Efficiency 94 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2021



#### PHOTOMETRIC DATA (MEASURED):

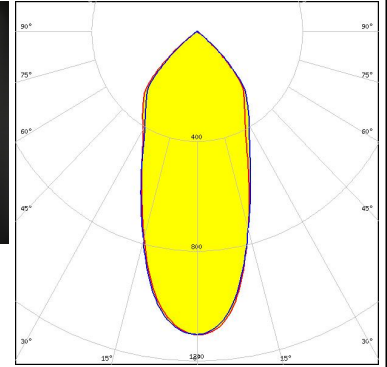
#### CITIZEN

LED CLU720/721  
 FWHM / FWTM 35.0° / 97.0°  
 Efficiency 94 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8101-G2



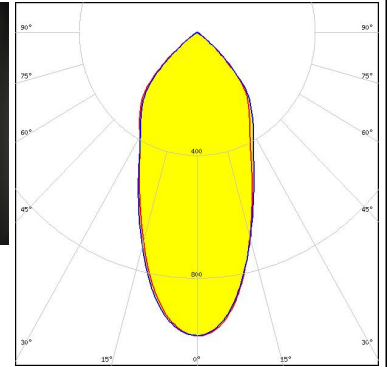
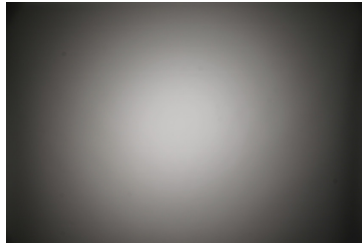
#### CREE LED

LED CXA/B 25xx  
 FWHM / FWTM 44.0° / 98.0°  
 Efficiency 92 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2141



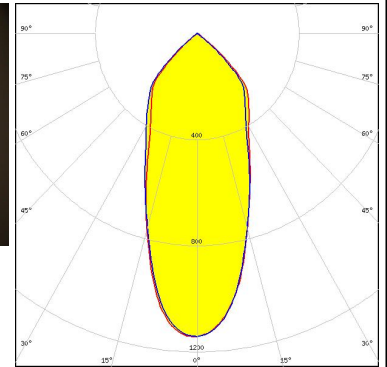
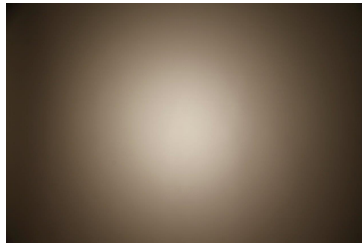
#### CREE LED

LED CXA/B 25xx  
 FWHM / FWTM 46.0° / 99.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2141

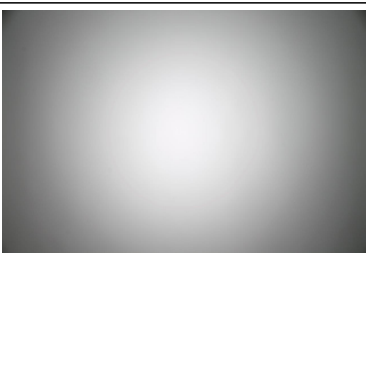
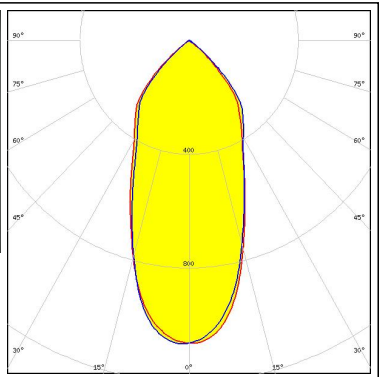

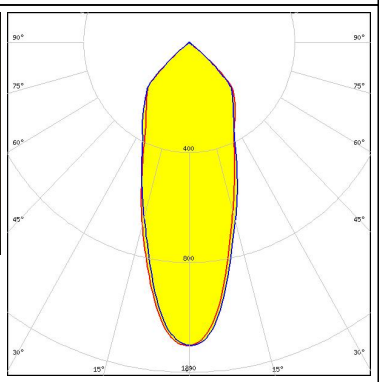
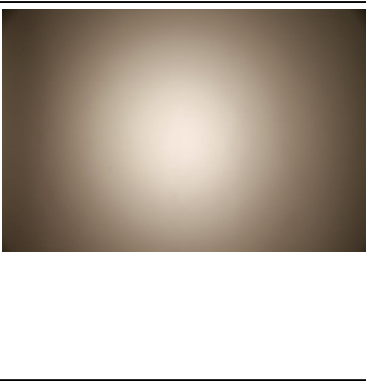
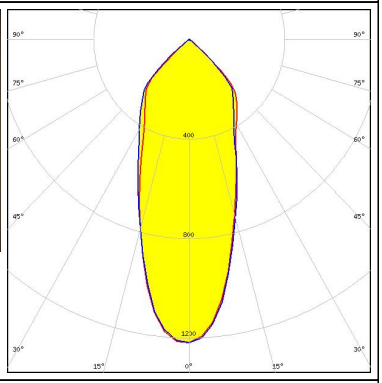
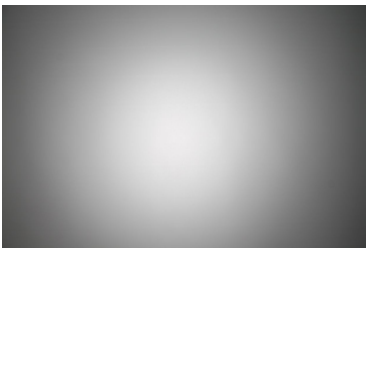
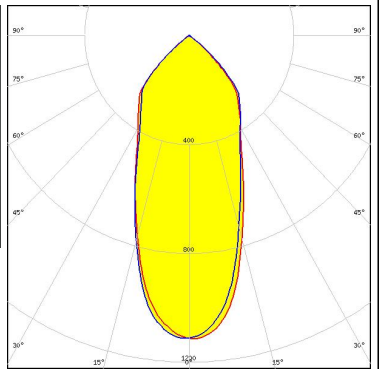


#### CREE LED

LED CXA/B 25xx  
 FWHM / FWTM 42.0° / 98.0°  
 Efficiency 93 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8401-G2



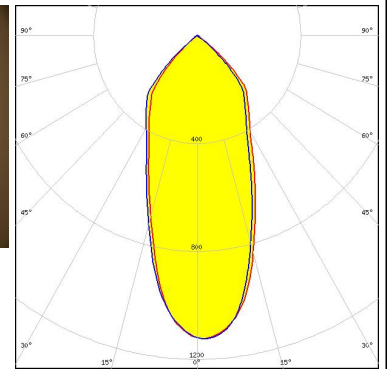
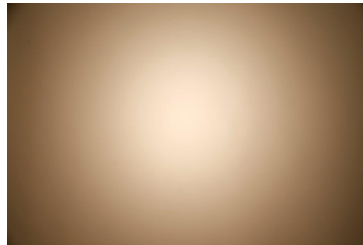
#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> LED</p> <p>LED CXA/B 30xx            FWHM / FWTM 45.0° / 98.0°            Efficiency 92 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8404-G2</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204/1205            FWHM / FWTM 38.0° / 97.0°            Efficiency 94 %            Peak intensity 1.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8301-G2</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM / FWTM 39.0° / 97.0°            Efficiency 94 %            Peak intensity 1.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8301-G2</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1211            FWHM / FWTM 44.0° / 98.0°            Efficiency 92 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            BJB: 47.319.2030</p>		

#### PHOTOMETRIC DATA (MEASURED):

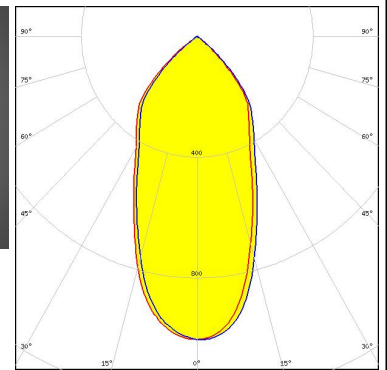
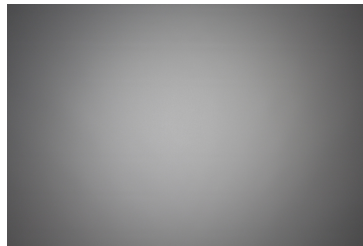
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM / FWTM 43.0° / 97.0°  
 Efficiency 92 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8102-G2



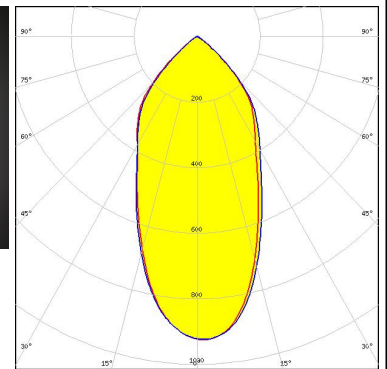
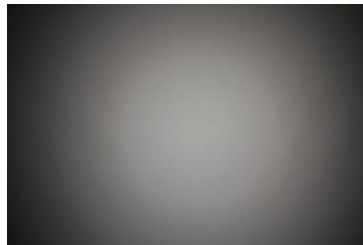
#### LUMILEDS

LED LUXEON CoB 1216/1812  
 FWHM / FWTM 49.0° / 99.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



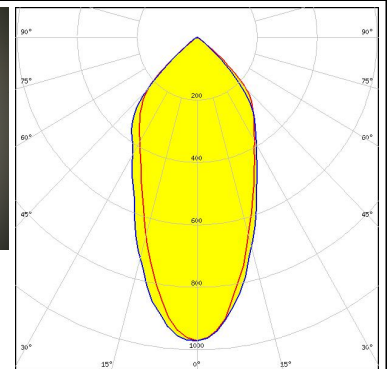
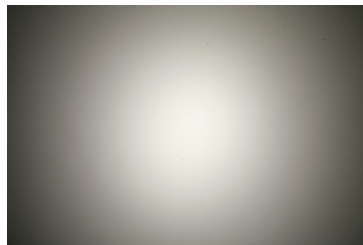
#### LUMILEDS

LED LUXEON CoB 1216/1812  
 FWHM / FWTM 50.0° / 100.0°  
 Efficiency 88 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2030




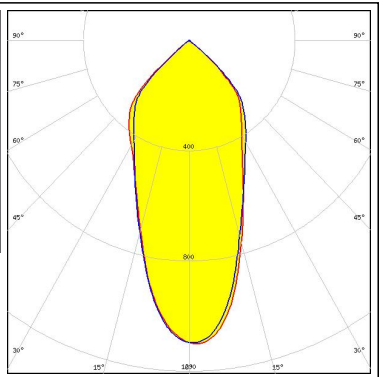

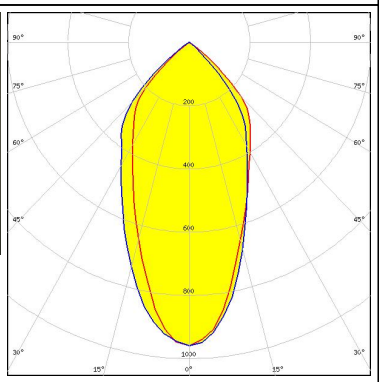
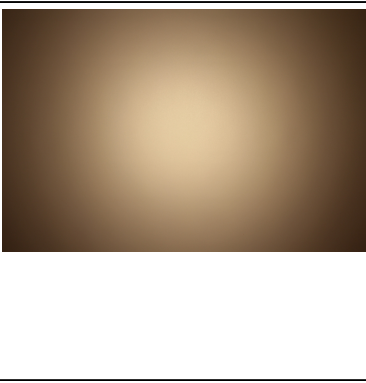
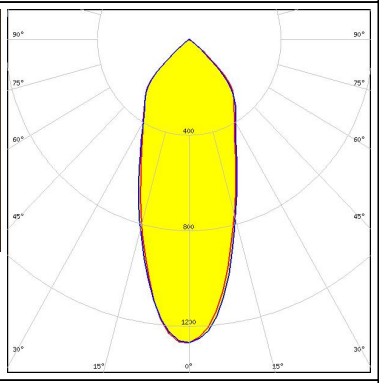
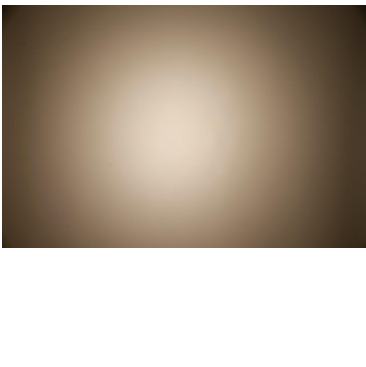
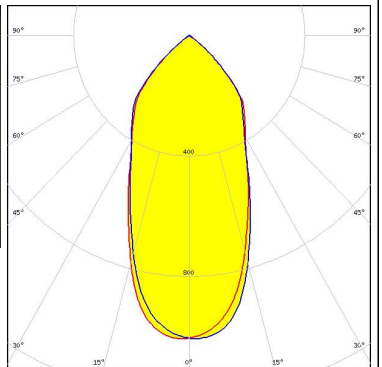
#### LUMILEDS

LED LUXEON K12  
 FWHM / FWTM 48.0° / 101.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2070

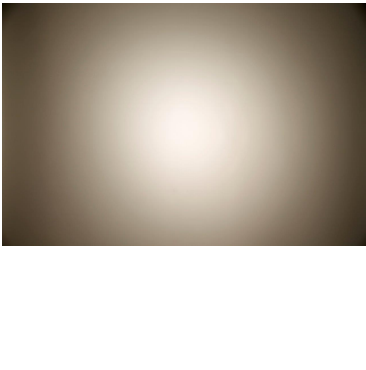
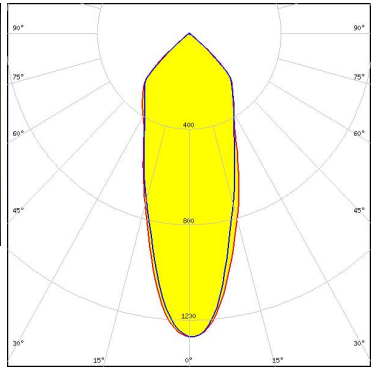

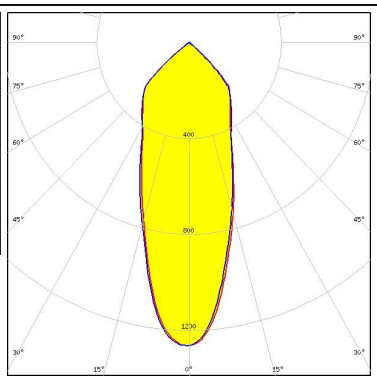

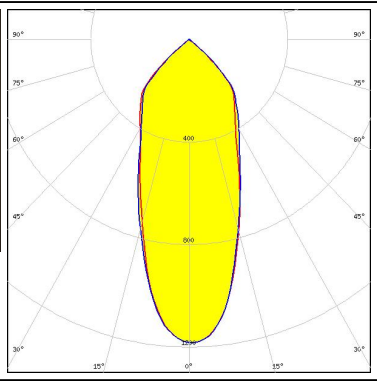
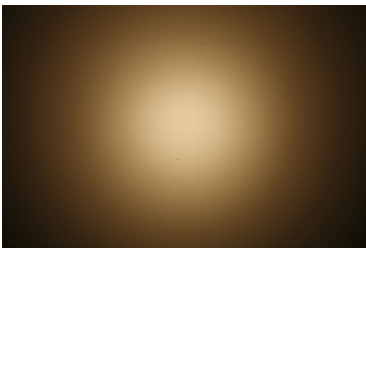
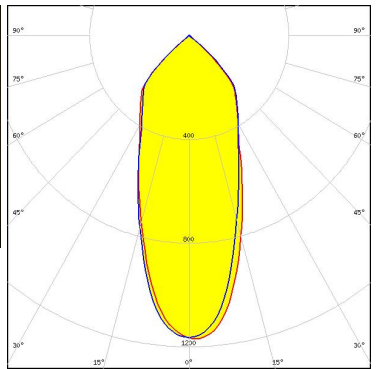




#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON K16</p> <p>FWHM / FWTM 44.0° / 98.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2070</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON K16</p> <p>FWHM / FWTM 50.0° / 101.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F13671_ANGE-RZ-LENS BJB: 47.319.2070</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-14 (19x19)</p> <p>FWHM / FWTM 40.0° / 98.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.3 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 48.0° / 99.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2030</p>		

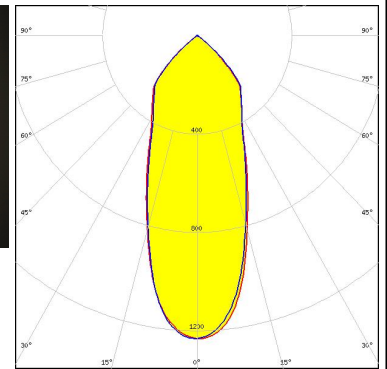
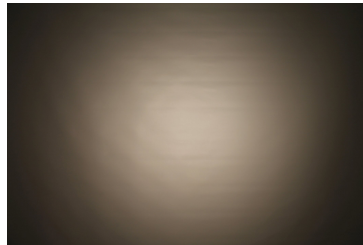
#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM / FWTM 37.0° / 98.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: A.A.G. STUCCHI: 8502-G2</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13 19x19</p> <p>FWHM / FWTM 37.0° / 97.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.9 cd/m</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 41.0° / 97.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: A.A.G. STUCCHI: 8503-G2</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19</p> <p>FWHM / FWTM 41.0° / 98.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2170</p>		

#### PHOTOMETRIC DATA (MEASURED):

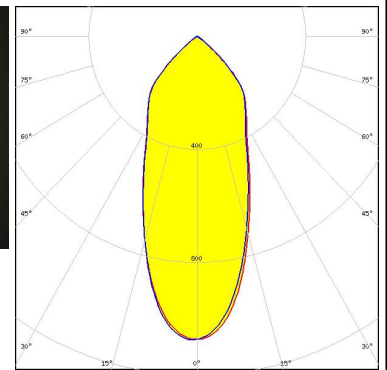
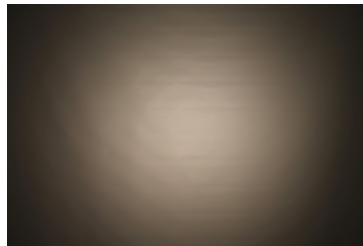
### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM / FWTM 40.0° / 97.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



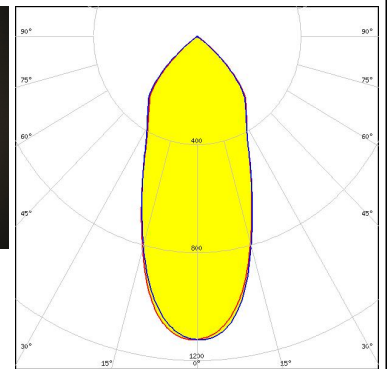
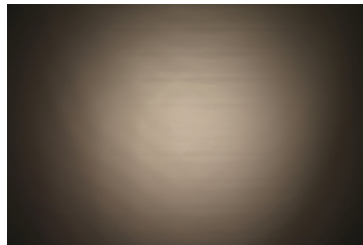
### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM / FWTM 42.0° / 98.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2030



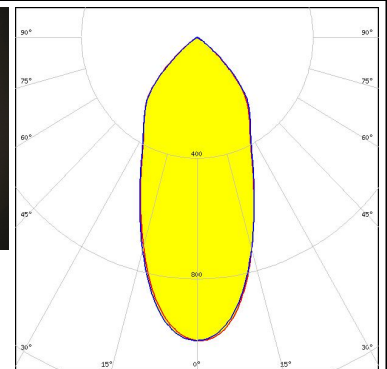
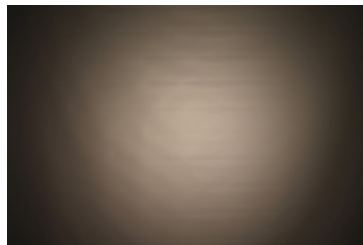
### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM / FWTM 44.0° / 98.0°  
 Efficiency 93 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



### PHILIPS

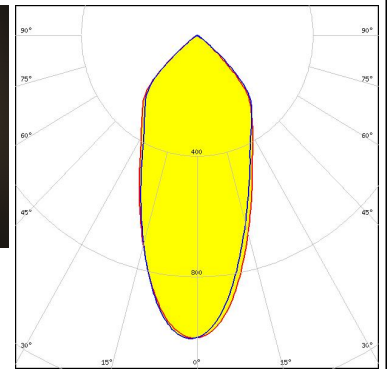
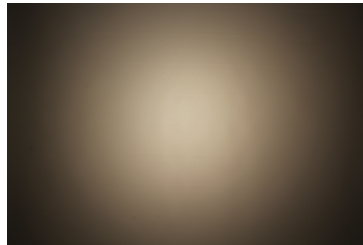
LED Fortimo SLM L23 CoB  
 FWHM / FWTM 45.0° / 99.0°  
 Efficiency 88 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2030



#### PHOTOMETRIC DATA (MEASURED):

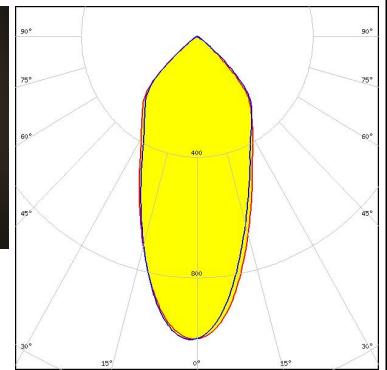
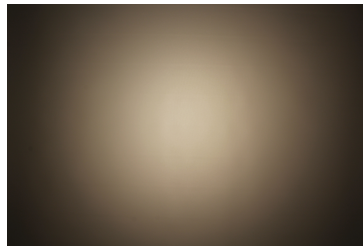
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 45.0° / 100.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 BJB: 47.319.2021



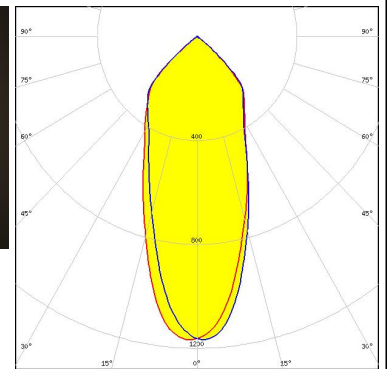
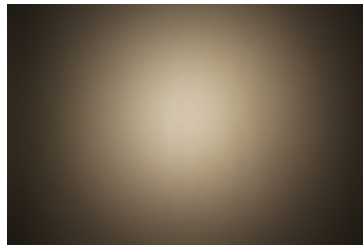
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 45.0° / 100.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 A.A.G. STUCCHI: 8101-G2



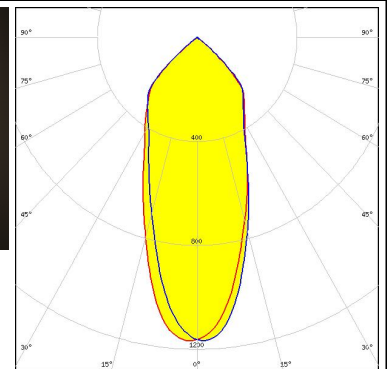
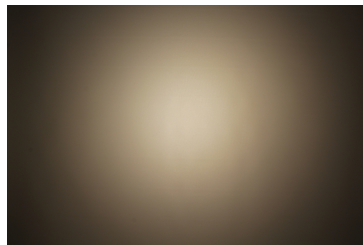
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 41.0° / 98.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2021

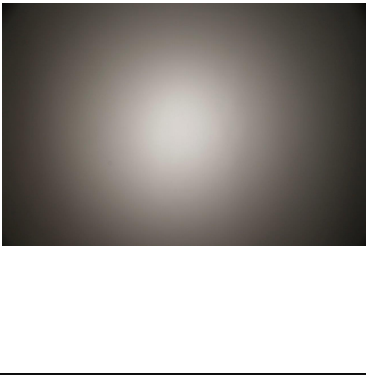
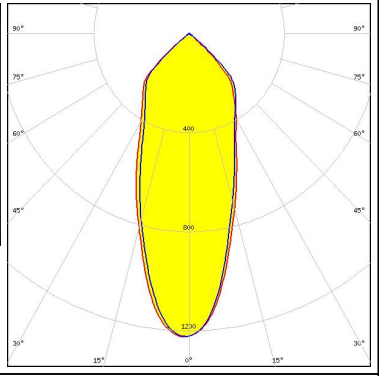
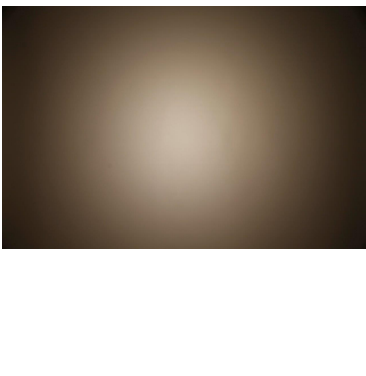
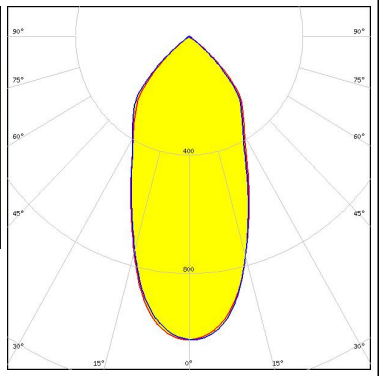

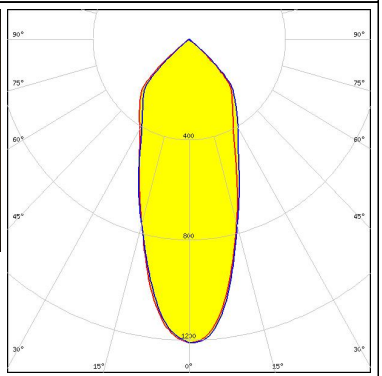
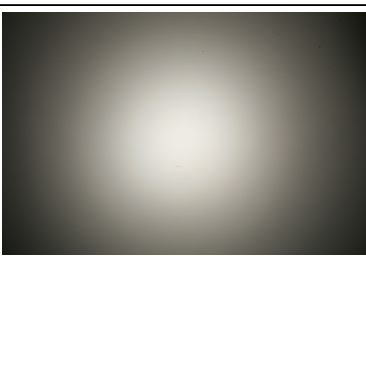
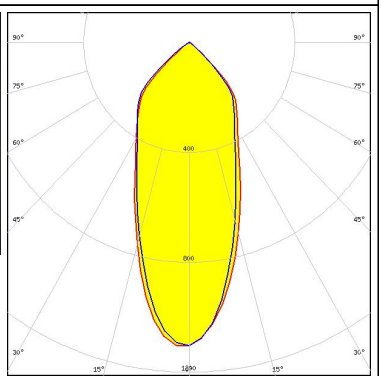


### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 41.0° / 98.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 A.A.G. STUCCHI: 8101-G2



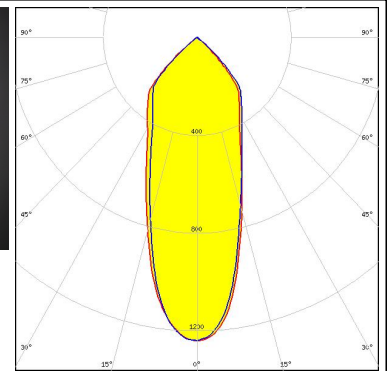
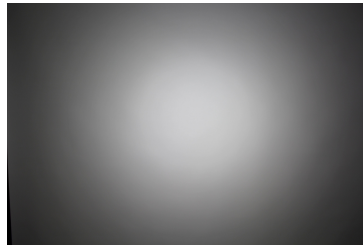
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOL</b> SEOL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM / FWTM 39.0° / 97.0° Efficiency 93 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8101-G2</p>		
<p><b>SEOL</b> SEOL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM / FWTM 47.0° / 99.0° Efficiency 92 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8102-G2</p>		
<p><b>SHARP</b></p> <p>LED Mega Zenigata (GW6DME) FWHM / FWTM 40.0° / 98.0° Efficiency 94 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8301-G2</p>		
<p><b>SHARP</b></p> <p>LED Tiger Zenigata (GWTGCBG4FD) FWHM / FWTM 41.0° / 99.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS BJB: 47.319.2051</p>		

#### PHOTOMETRIC DATA (MEASURED):

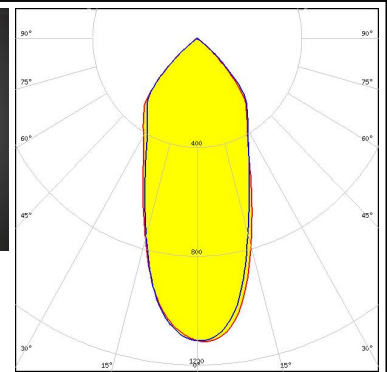
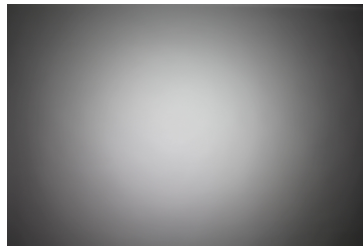
#### TRIDONIC

LED SLE G7 LES17 H  
 FWHM / FWTM 38.0° / 96.0°  
 Efficiency 91 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



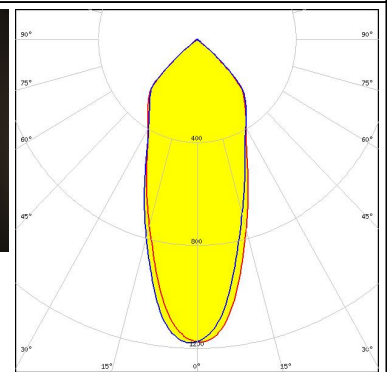
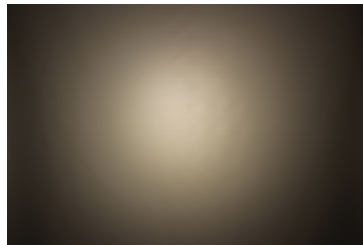
#### TRIDONIC

LED SLE G7 LES21 H  
 FWHM / FWTM 43.0° / 97.0°  
 Efficiency 91 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



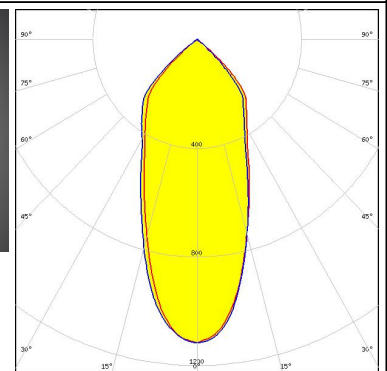
#### XICATO

LED XOB 14.5 mm  
 FWHM / FWTM 40.0° / 98.0°  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2021



#### XICATO

LED XTM - 19mm LES  
 FWHM / FWTM 43.0° / 98.0°  
 Efficiency 93 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C15743\_XTM-ADAPTER-50-B



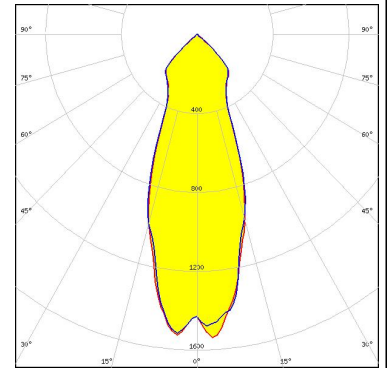
#### PHOTOMETRIC DATA (SIMULATED):

### CITIZEN

LED CLL04x/CLU04x  
FWHM / FWTM 37.0° / 90.0°  
Efficiency 95 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
BJB: 47.319.2030

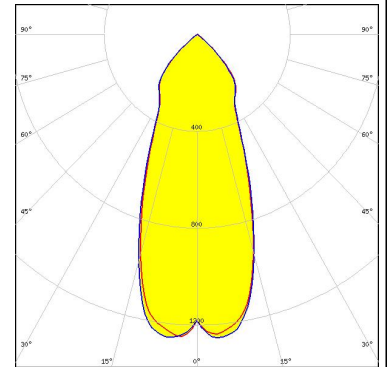
### CITIZEN

LED CLU730/731  
FWHM / FWTM 37.0° / 93.0°  
Efficiency 91 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
BJB: 47.319.2030



### SAMSUNG

LED LC040D / LC060D / LC080D  
FWHM / FWTM 41.0° / 94.0°  
Efficiency 90 %  
Peak intensity 1.3 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.

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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

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

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

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