

ANGELA-W-B

~45° wide beam compatible with BJB connectors

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.5 mm
Fastening	socket
ROHS compliant	yes ⓘ

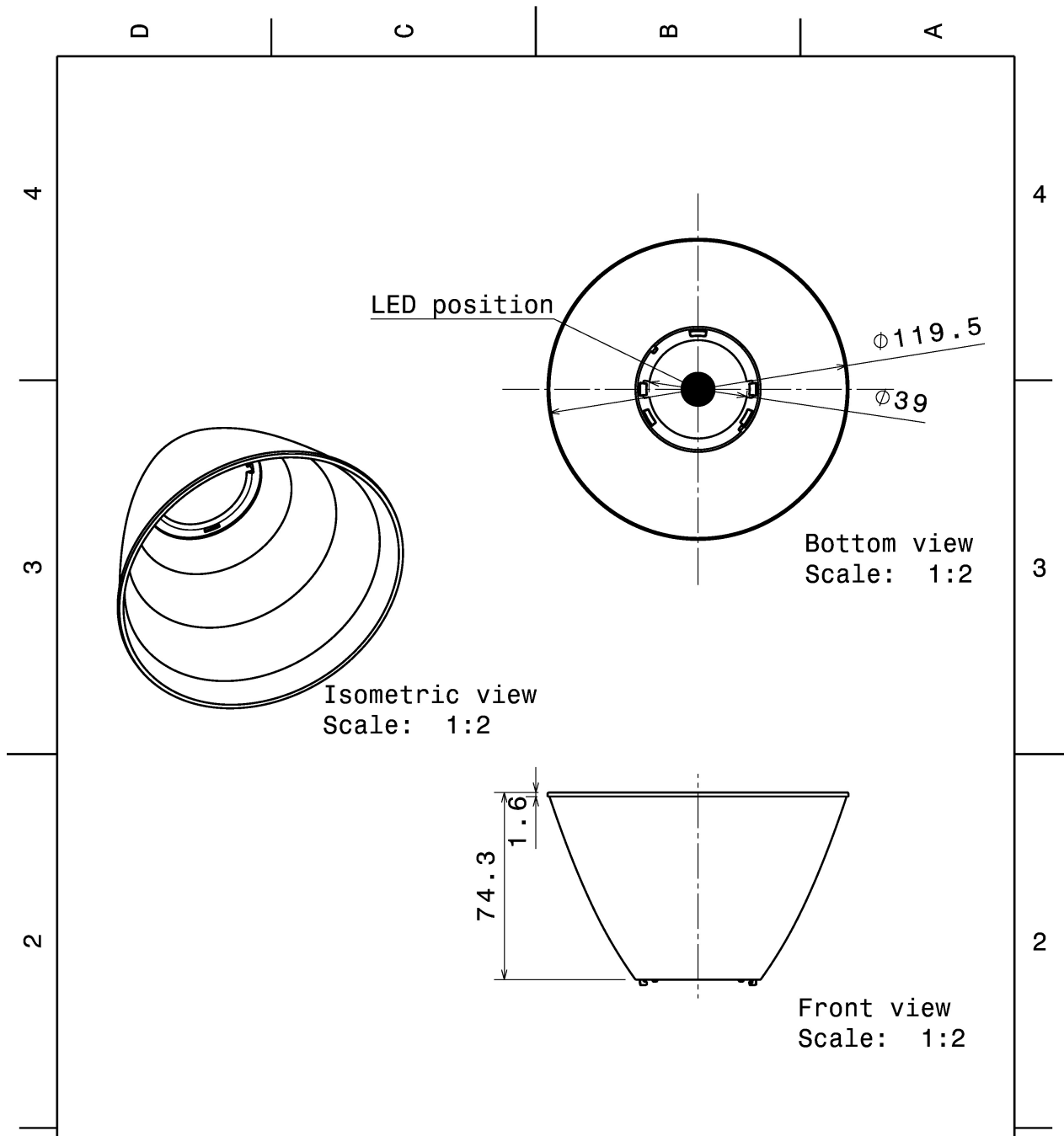
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
ANGELA-W-B	Reflector	PC	metal		HMDS

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13664_ANGELA-W-B » Box size: 398 x 298 x 265 mm	180	90	45	9.1





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
Angela-B


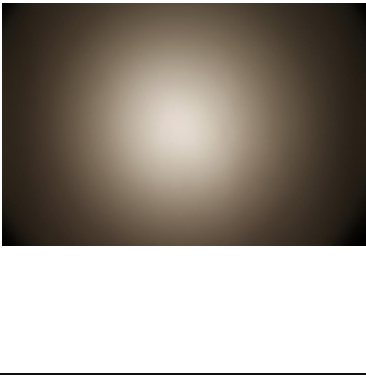
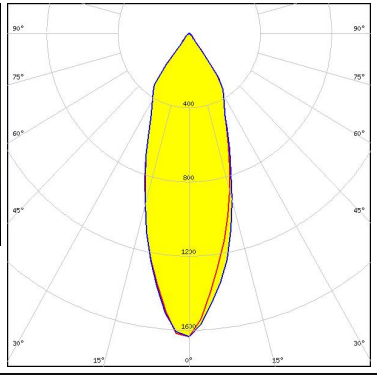


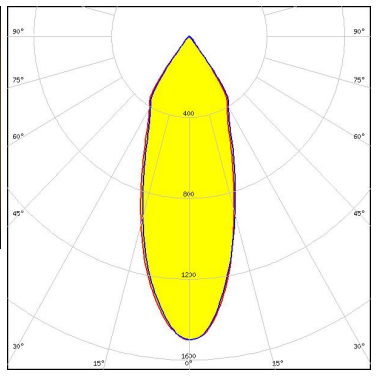


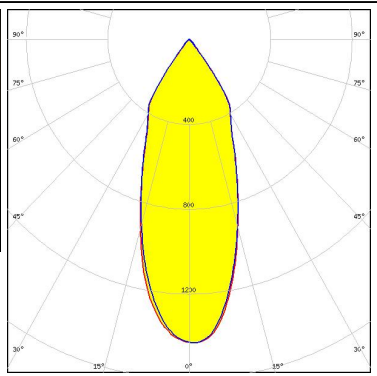


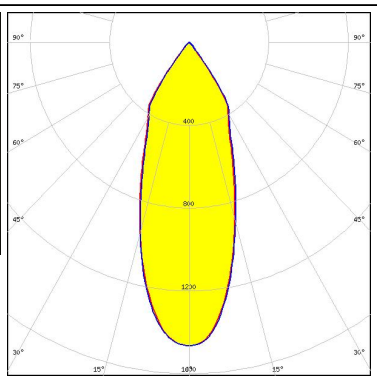
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE	PART NUMBER
A4	-


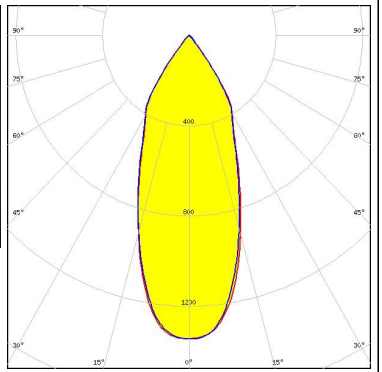

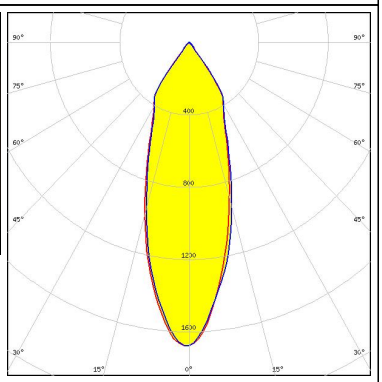

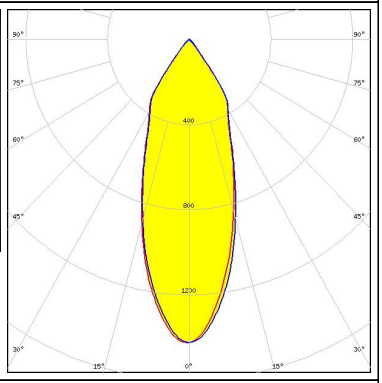

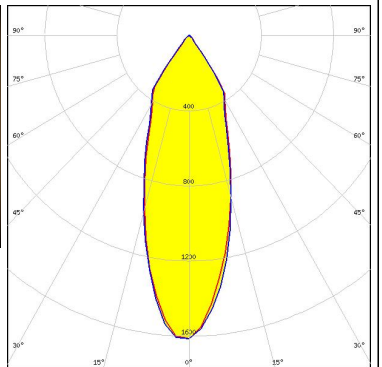
SCALE	1:2	WEIGHT	-	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED BXRA ES Rectangle</p> <p>FWHM / FWTM 34.0° / 75.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.7 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 37.0° / 75.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.5 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 38.0° / 76.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED V18 Gen7</p> <p>FWHM / FWTM 38.0° / 76.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2350</p>		

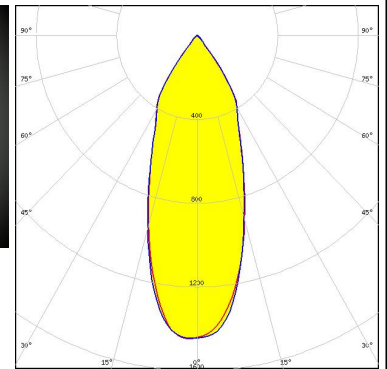
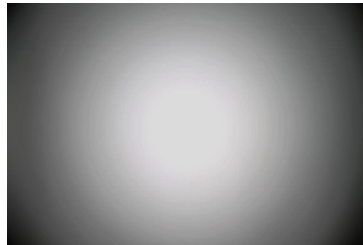
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V22 Gen6 FWHM / FWTM 40.0° / 76.0° Efficiency 80 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM / FWTM 33.0° / 75.0° Efficiency 83 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2021</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM / FWTM 37.0° / 76.0° Efficiency 78 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGLE-RZ-LENS A.A.G. STUCCHI: 8101-G2</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM / FWTM 34.0° / 75.0° Efficiency 83 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8101-G2</p>		

PHOTOMETRIC DATA (MEASURED):

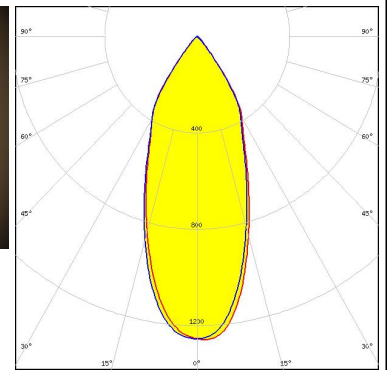
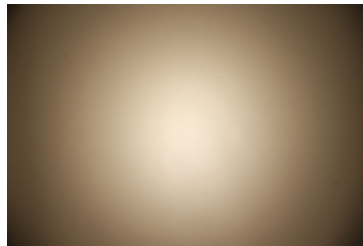
CITIZEN

LED CLL04x/CLU04x
 FWHM / FWTM 38.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



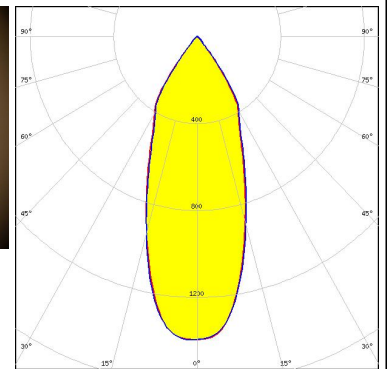
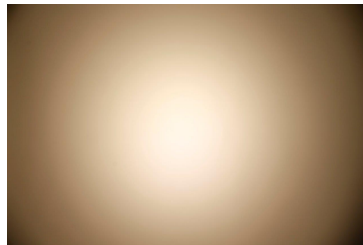
CITIZEN

LED CLL04x/CLU04x
 FWHM / FWTM 41.0° / 78.0°
 Efficiency 77 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 A.A.G. STUCCHI: 8102-G2



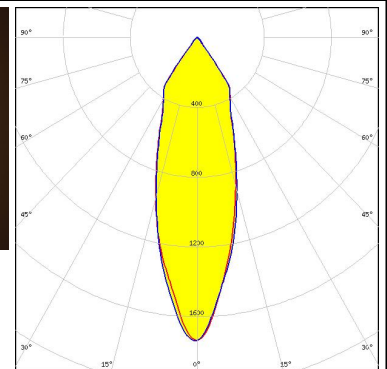
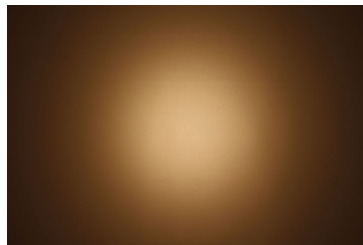
CITIZEN

LED CLL04x/CLU04x
 FWHM / FWTM 39.0° / 77.0°
 Efficiency 82 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102-G2



CITIZEN

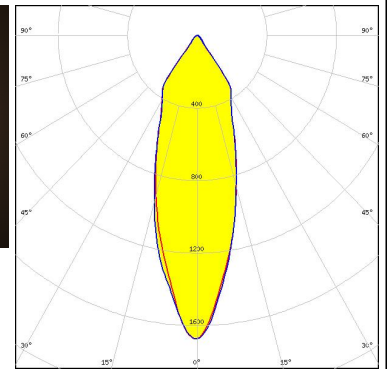
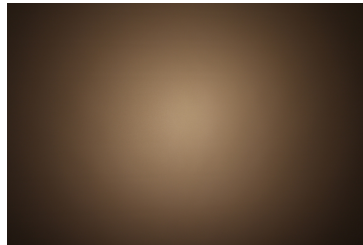
LED CLU720/721
 FWHM / FWTM 32.0° / 75.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



PHOTOMETRIC DATA (MEASURED):

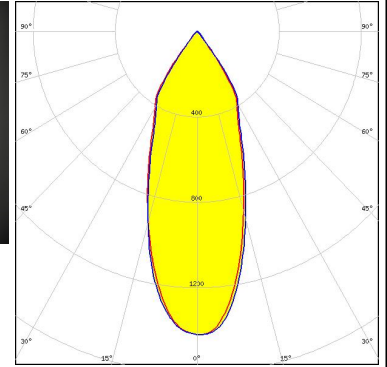
CITIZEN

LED CLU720/721
 FWHM / FWTM 32.0° / 74.0°
 Efficiency 84 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101-G2



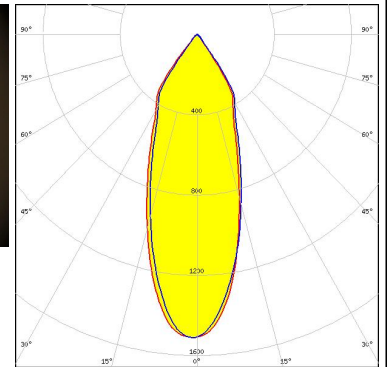
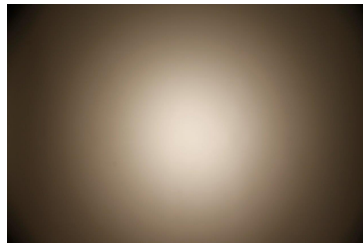
CREE LED

LED CXA/B 25xx
 FWHM / FWTM 38.0° / 76.0°
 Efficiency 80 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



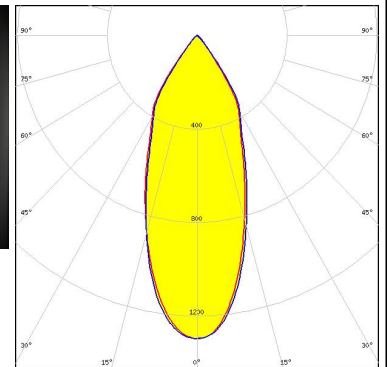
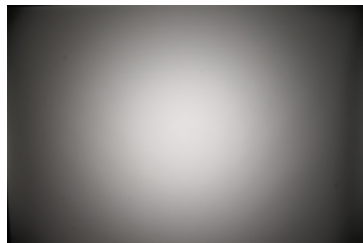
CREE LED

LED CXA/B 25xx
 FWHM / FWTM 37.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8401-G2

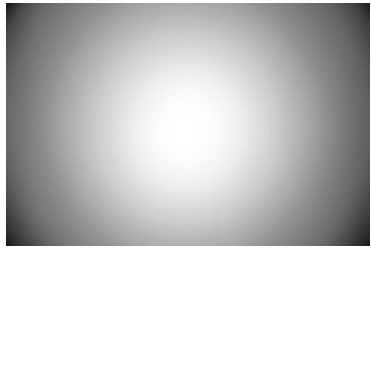
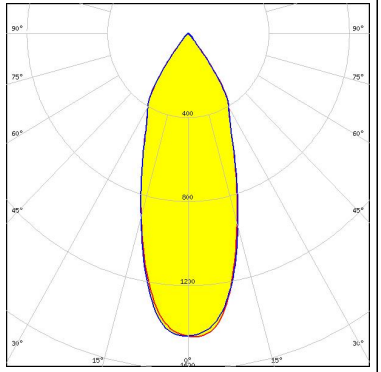
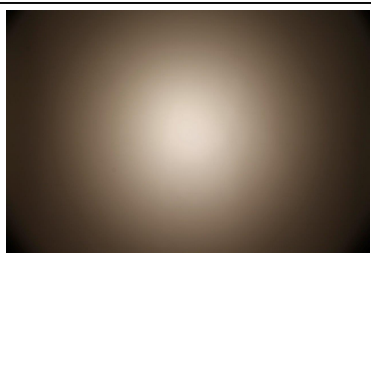
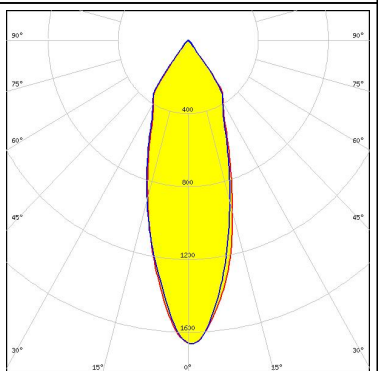
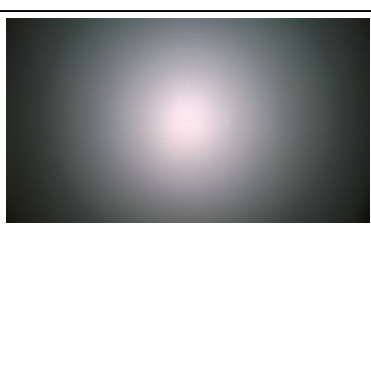
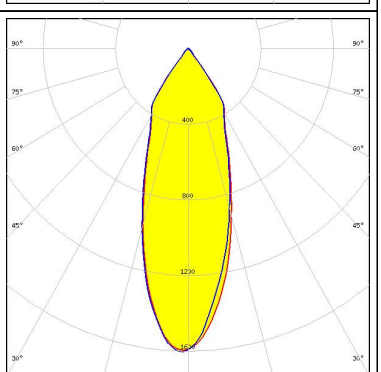
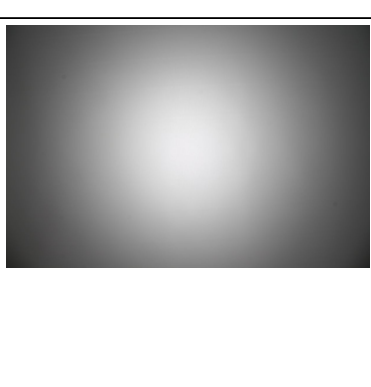
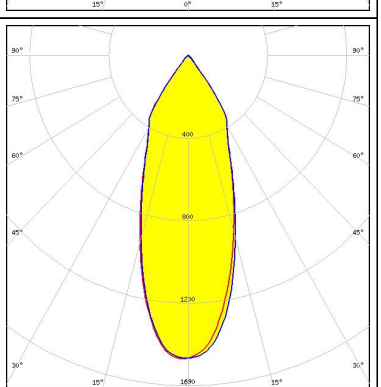


CREE LED

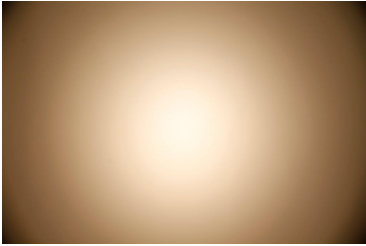
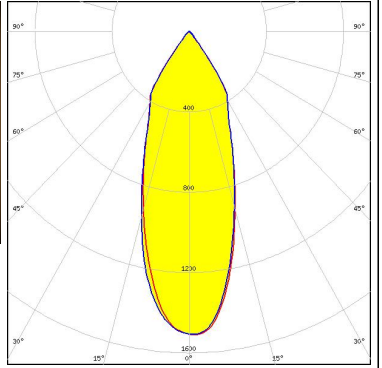
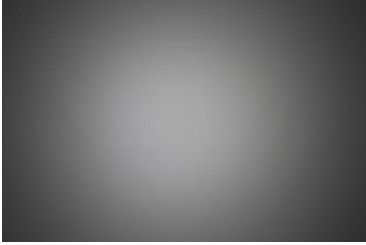
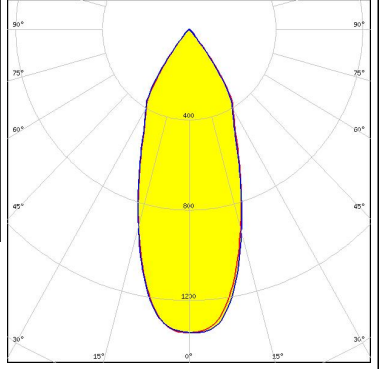
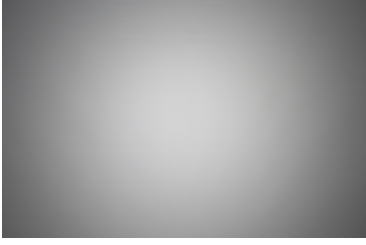
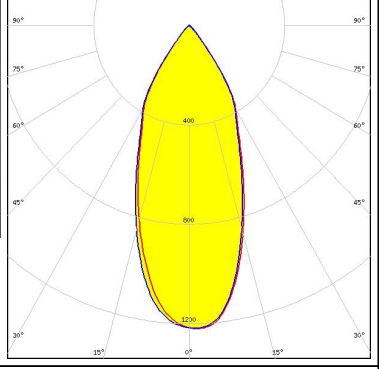
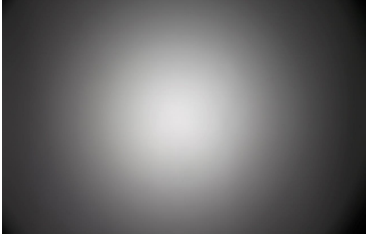
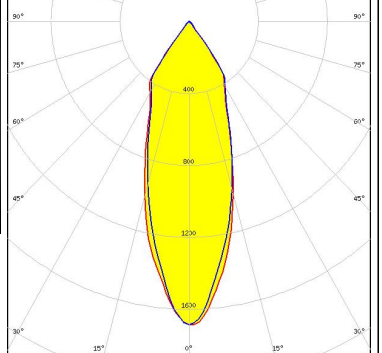
LED CXA/B 25xx
 FWHM / FWTM 40.0° / 77.0°
 Efficiency 77 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2141



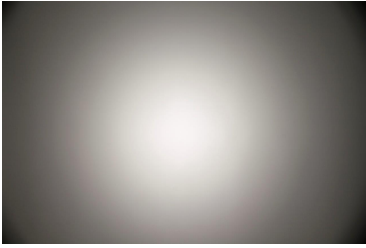
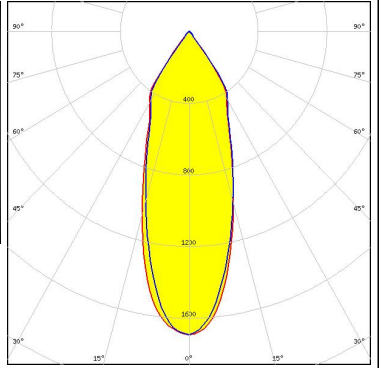

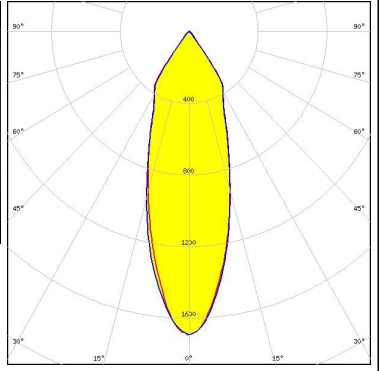
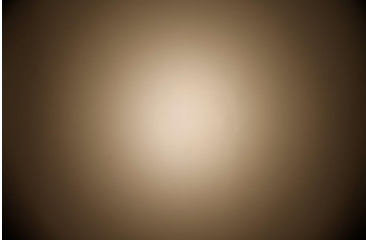
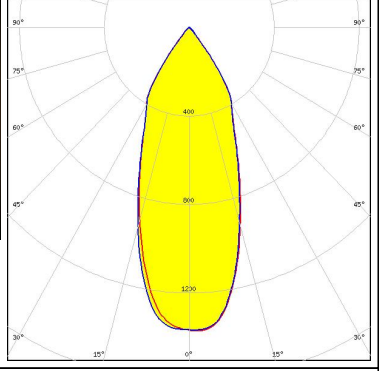
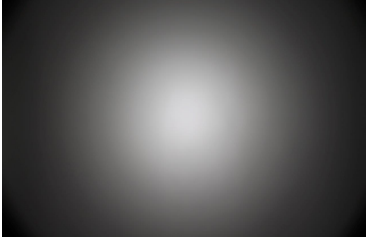
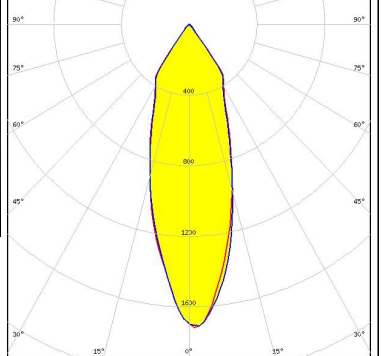
PHOTOMETRIC DATA (MEASURED):

<p>CREE LED</p> <p>LED CXA/B 30xx FWHM / FWTM 38.0° / 75.0° Efficiency 81 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8404-G2</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1204/1205 FWHM / FWTM 33.0° / 75.0° Efficiency 83 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8301-G2</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1208 FWHM / FWTM 35.0° / 75.0° Efficiency 84 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8301-G2</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1211 FWHM / FWTM 37.0° / 76.0° Efficiency 81 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030</p>		

PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1211</p> <p>FWHM / FWTM 37.0° / 75.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.5 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>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM / FWTM 40.0° / 76.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM / FWTM 42.0° / 78.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F13671_ANGLE-RZ-LENS BJB: 47.319.2030</p>		
<p>LUMILEDS</p> <p>LED LUXEON K12</p> <p>FWHM / FWTM 35.0° / 76.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2070</p>		

PHOTOMETRIC DATA (MEASURED):

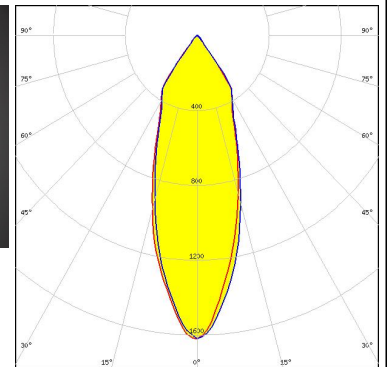
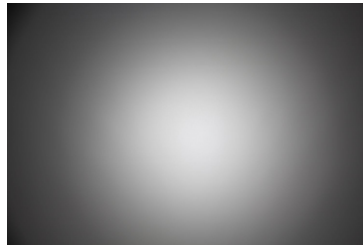
<p>LUMILEDS</p> <p>LED LUXEON K16</p> <p>FWHM / FWTM 36.0° / 75.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2070</p>		
<p>LUMINUS</p> <p>LED CxM-14 (19x19)</p> <p>FWHM / FWTM 33.0° / 74.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2021</p>		
<p>LUMINUS</p> <p>LED CxM-22 (28x28)</p> <p>FWHM / FWTM 40.0° / 77.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2030</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM / FWTM 33.0° / 75.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: A.A.G. STUCCHI: 8502-G2</p>		

PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

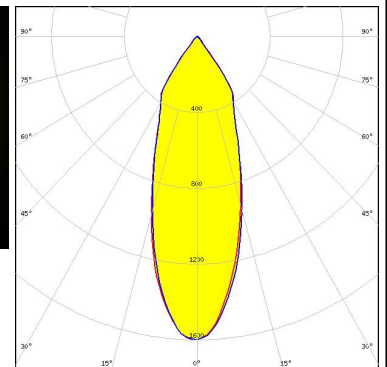
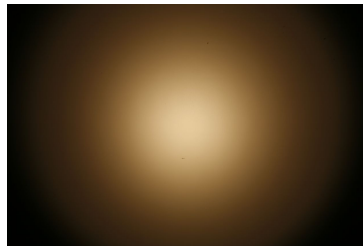
LED Soleriq S13 19x19
 FWHM / FWTM 34.0° / 75.0°
 Efficiency 81 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



OSRAM

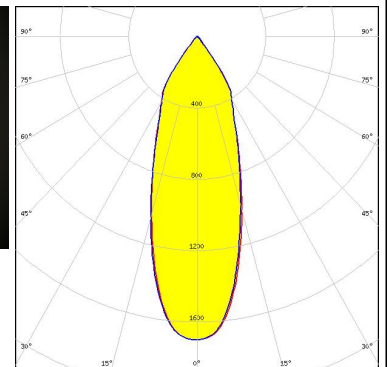
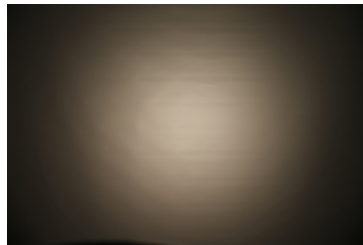
Opto Semiconductors

LED Soleriq S19
 FWHM / FWTM 35.0° / 75.0°
 Efficiency 83 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2170



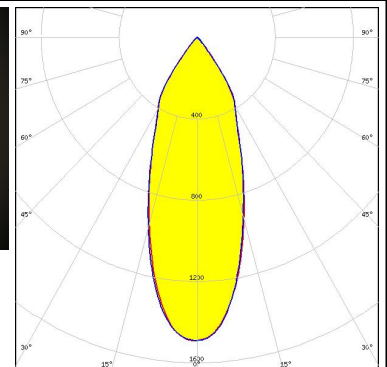
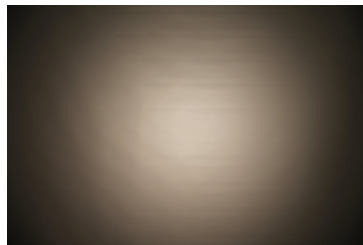
PHILIPS

LED Fortimo SLM L19 CoB
 FWHM / FWTM 35.0° / 75.0°
 Efficiency 87 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



PHILIPS

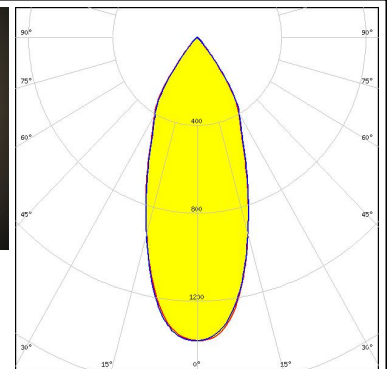
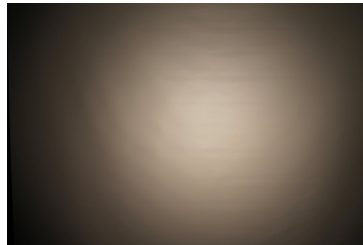
LED Fortimo SLM L19 CoB
 FWHM / FWTM 38.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2030



PHOTOMETRIC DATA (MEASURED):

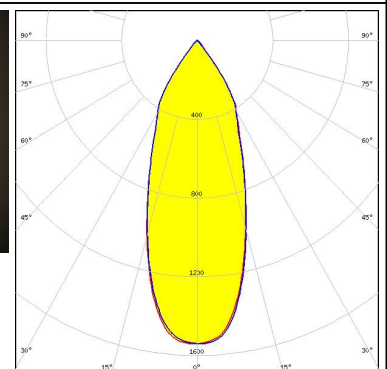
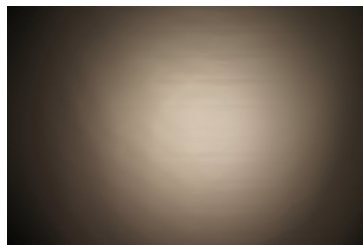
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM / FWTM 40.0° / 77.0°
 Efficiency 82 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



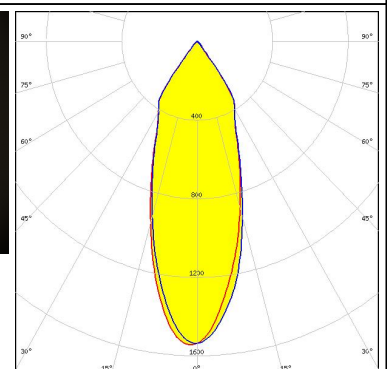
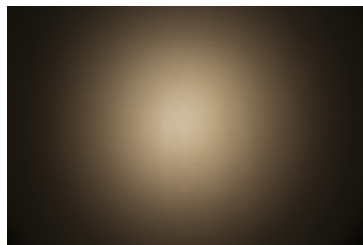
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM / FWTM 39.0° / 76.0°
 Efficiency 86 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



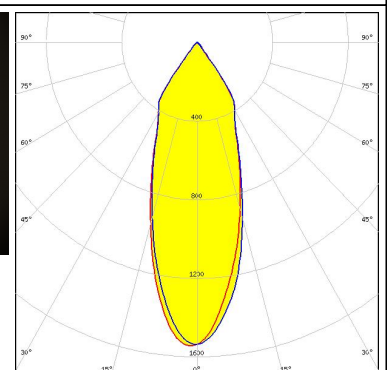
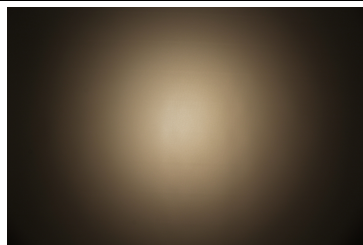
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 36.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



SAMSUNG

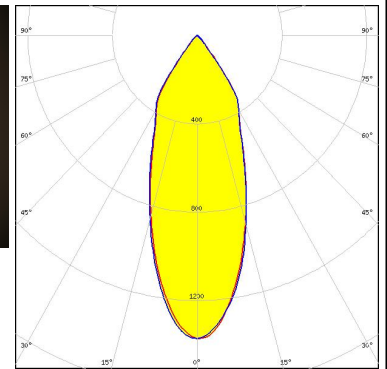
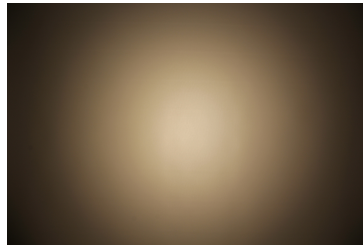
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 36.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101-G2



PHOTOMETRIC DATA (MEASURED):

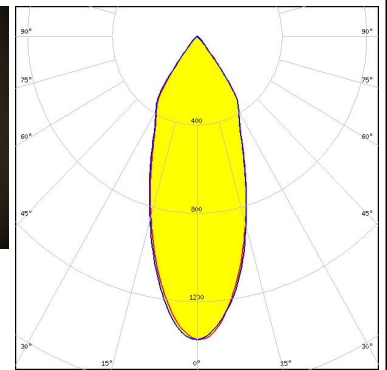
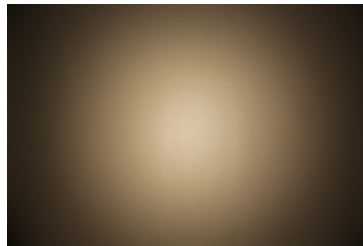
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 38.0° / 77.0°
 Efficiency 79 %
 Peak intensity 1.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2021



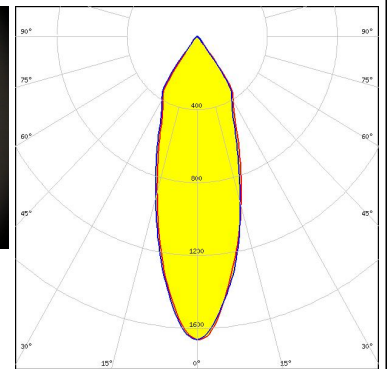
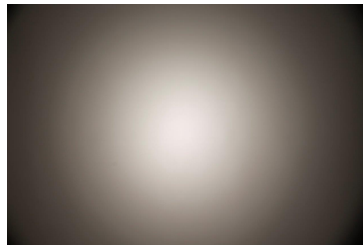
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 38.0° / 77.0°
 Efficiency 79 %
 Peak intensity 1.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 A.A.G. STUCCHI: 8101-G2



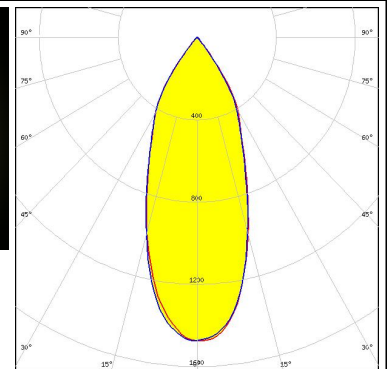
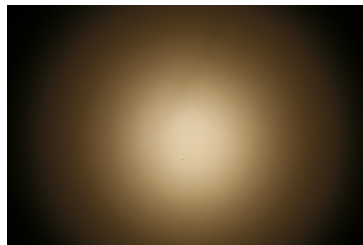
SEOUL SEMICONDUCTOR

LED ZC12/18
 FWHM / FWTM 34.0° / 74.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101-G2

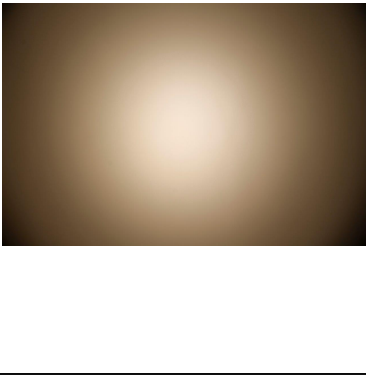
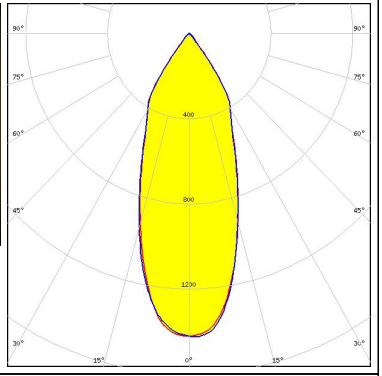

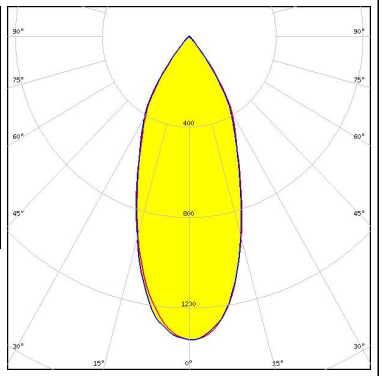

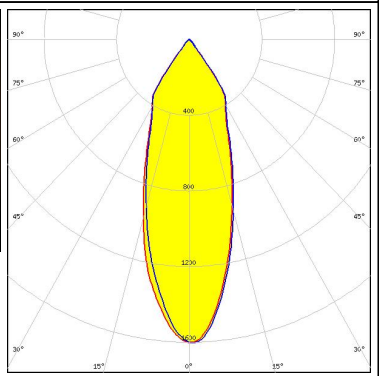
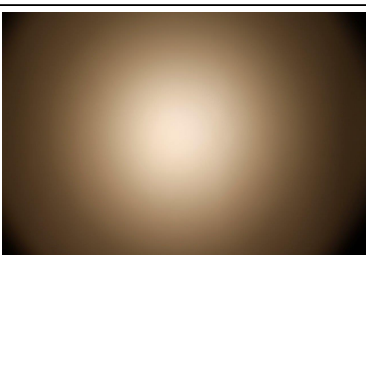
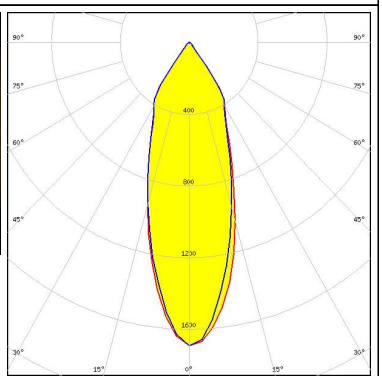


SEOUL SEMICONDUCTOR

LED ZC25/40/60
 FWHM / FWTM 40.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



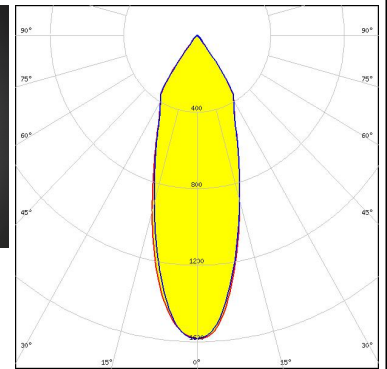
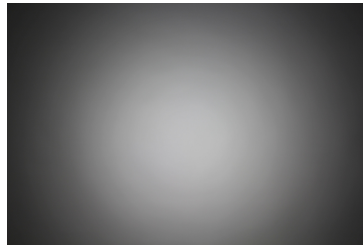
PHOTOMETRIC DATA (MEASURED):

<p>SEOL SEOL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM / FWTM 39.0° / 76.0° Efficiency 82 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8102-G2</p>		
<p>SEOL SEOL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM / FWTM 42.0° / 78.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGLE-RZ-LENS BJB: 47.319.2030</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW6DME) FWHM / FWTM 35.0° / 75.0° Efficiency 84 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8301-G2</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW6DME) FWHM / FWTM 34.0° / 75.0° Efficiency 85 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2011</p>		

PHOTOMETRIC DATA (MEASURED):

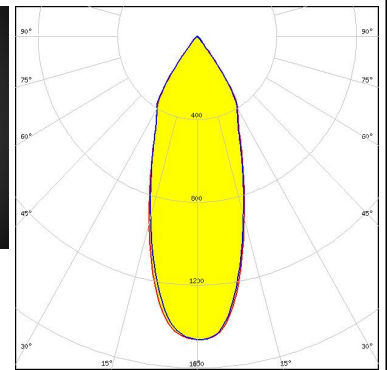
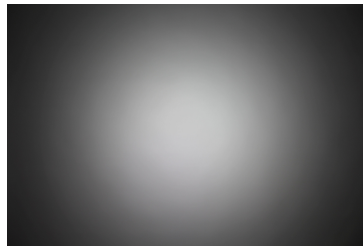
TRIDONIC

LED SLE G7 LES17 H
 FWHM / FWTM 34.0° / 74.0°
 Efficiency 81 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



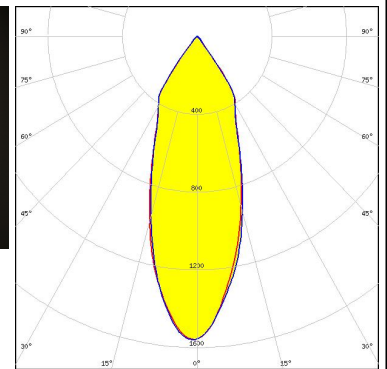
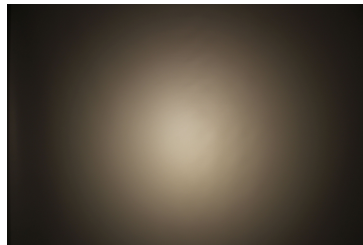
TRIDONIC

LED SLE G7 LES21 H
 FWHM / FWTM 37.0° / 75.0°
 Efficiency 81 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



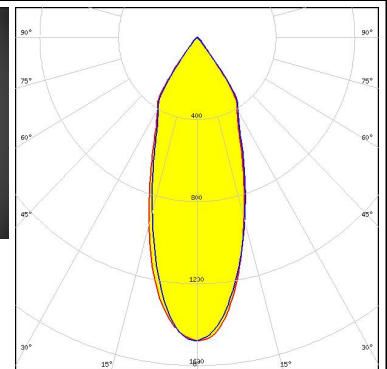
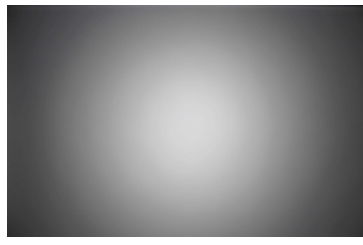
XICATO

LED XOB 14.5 mm
 FWHM / FWTM 36.0° / 75.0°
 Efficiency 83 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



XICATO

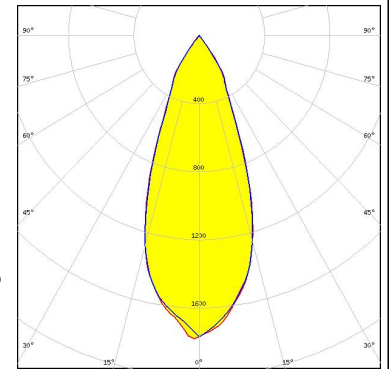
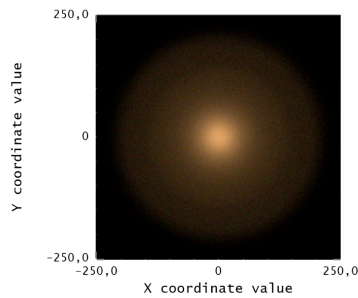
LED XTM - 19mm LES
 FWHM / FWTM 37.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C15743_XTM-ADAPTER-50-B



PHOTOMETRIC DATA (SIMULATED):

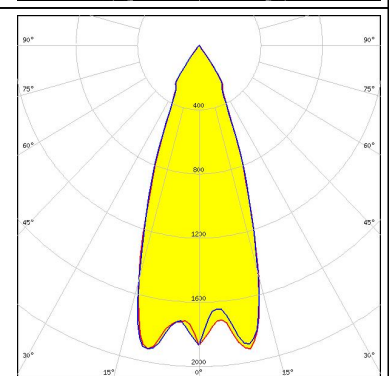
CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 40.0° / 70.0°
 Efficiency 85 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2021



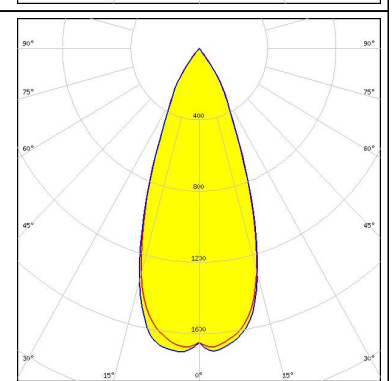
CITIZEN

LED CLU730/731
 FWHM / FWTM 35.0° / 69.0°
 Efficiency 91 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



SAMSUNG

LED LC040D / LC060D / LC080D
 FWHM / FWTM 40.0° / 70.0°
 Efficiency 86 %
 Peak intensity 1.7 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.

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[W](#) [C11508_BROOKE-W](#) [C11552_BARBARA-S](#) [C11553_BARBARA-W](#) [C11862_MINNIE-W](#) [C11979_LENA-S](#) [C11980_LENA-W](#)
[C11996_LENA-LENS](#) [C12083_BROOKE-SCR-M](#) [C12095_MINNIE-M](#) [C12097_MINNIE-WWW](#) [C12154_LENA-M](#) [C12469_LISA2-R-](#)
[PIN](#) [C12476_MIRELLA-50-S](#) [C12477_MIRELLA-50-M](#) [C12480_MIRELLA-50-S-PIN](#) [C12516_RITA-WAS](#) [C12597_LENINA-S](#)
[C12599_LENINA-W](#) [C12948_LENA-WAS](#) [C12958_LENINA-XW](#) [C13085_MIRELLA-50-S-PF](#) [C13087_MIRELLA-50-W-PF](#)
[C13101_LENA-X-WAS](#) [C13555_BRIDGET-W-UNI](#) [C13556_BRIDGET-M-UNI](#) [C13557_BRIDGET-S-UNI](#) [C14346_ANGELETTE-WAS](#)
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