

ANGELINA-S-B

~20° spot beam compatible with BJB and B+W connectors

SPECIFICATION:

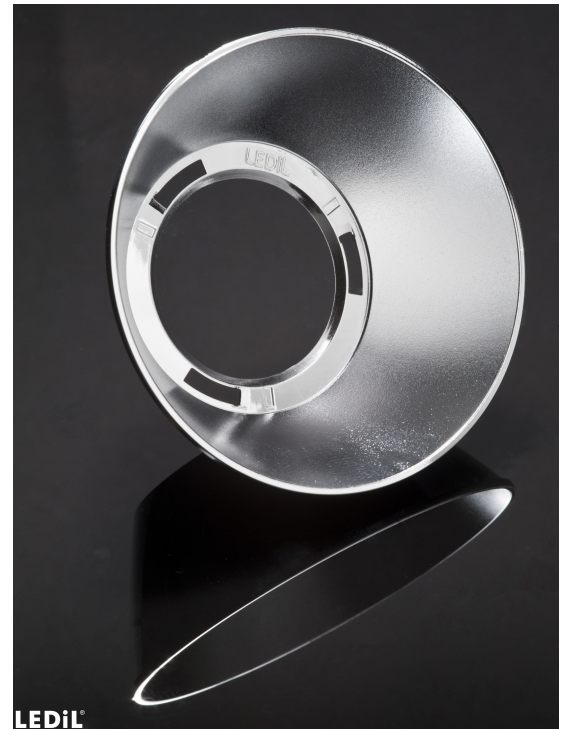
Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes ⓘ

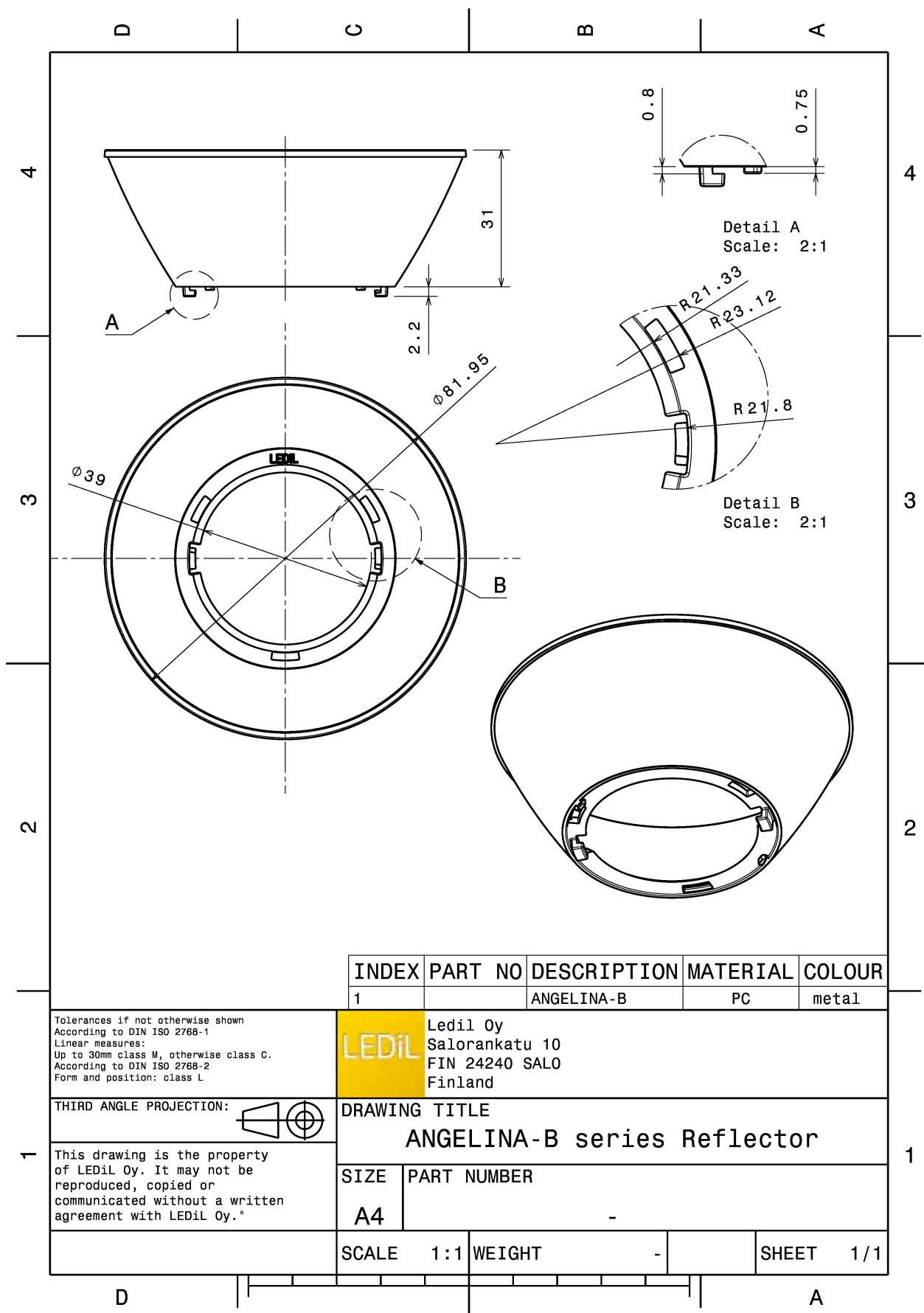
MATERIALS:

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

ORDERING INFORMATION:


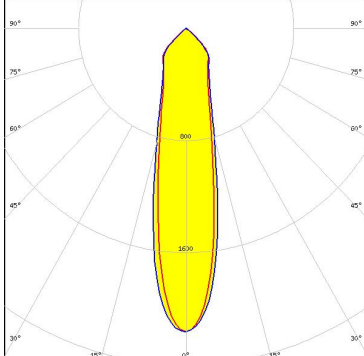

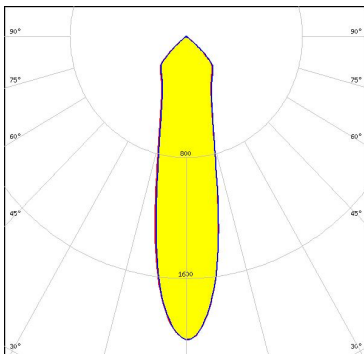
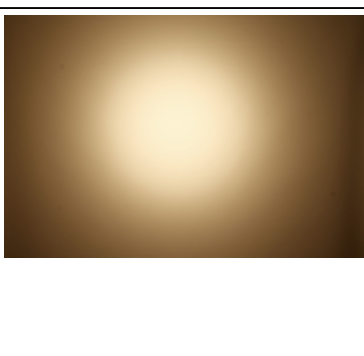
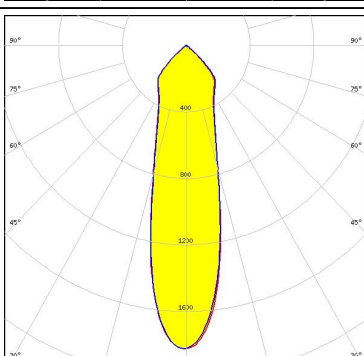

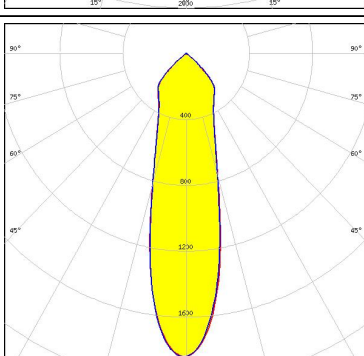
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13659_ANGELINA-S-B » Box size: 480 x 280 x 300 mm	825	110	55	11.3





See also our general installation guide: www.ledil.com/installation_guide

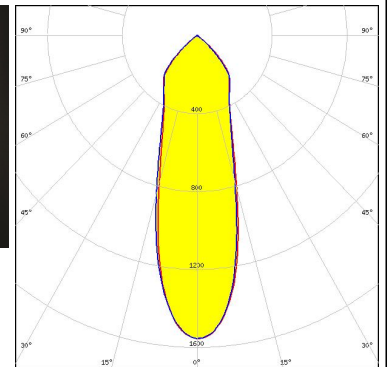
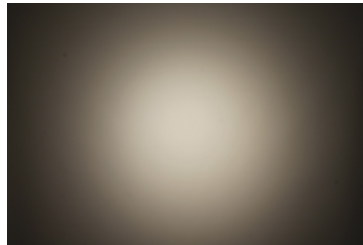
OPTICAL RESULTS (MEASURED):

<div><div>bridgelux</div><div><div>LED</div><div>BXRA ES Rectangle</div></div><div><div>FWHM / FWTM</div><div>23.0° / 90.0°</div></div><div><div>Efficiency</div><div>92 %</div></div><div><div>Peak intensity</div><div>2.2 cd/lm</div></div><div><div>LEDs/each optic</div><div>1</div></div><div><div>Light colour</div><div>White</div></div><div><div>Required components:</div><div>BJB: 47.319.2040</div></div></div> <div></div> <div></div>
<div><div>bridgelux</div><div><div>LED</div><div>V15 Gen6</div></div><div><div>FWHM / FWTM</div><div>24.0° / 92.0°</div></div><div><div>Efficiency</div><div>92 %</div></div><div><div>Peak intensity</div><div>2 cd/lm</div></div><div><div>LEDs/each optic</div><div>1</div></div><div><div>Light colour</div><div>White</div></div><div><div>Required components:</div><div>BJB: 47.319.2224</div></div></div> <div></div> <div></div>
<div><div>bridgelux</div><div><div>LED</div><div>V18 Gen6</div></div><div><div>FWHM / FWTM</div><div>27.0° / 92.0°</div></div><div><div>Efficiency</div><div>92 %</div></div><div><div>Peak intensity</div><div>1.8 cd/lm</div></div><div><div>LEDs/each optic</div><div>1</div></div><div><div>Light colour</div><div>White</div></div><div><div>Required components:</div><div>BJB: 47.319.2274</div></div></div> <div></div> <div></div>
<div><div>bridgelux</div><div><div>LED</div><div>V18 Gen7</div></div><div><div>FWHM / FWTM</div><div>27.0° / 92.0°</div></div><div><div>Efficiency</div><div>93 %</div></div><div><div>Peak intensity</div><div>1.8 cd/lm</div></div><div><div>LEDs/each optic</div><div>1</div></div><div><div>Light colour</div><div>White</div></div><div><div>Required components:</div><div>BJB: 47.319.2350</div></div></div> <div></div> <div></div>

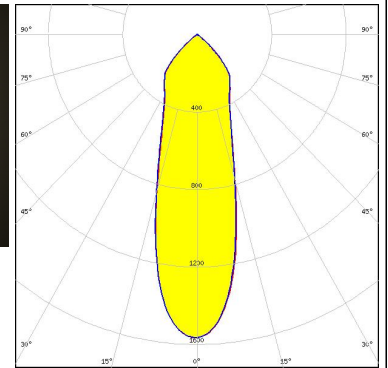
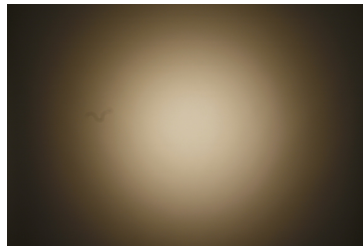
OPTICAL RESULTS (MEASURED):



LED V22 Gen6
FWHM / FWTM 31.0° / 93.0°
Efficiency 91 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102-G2

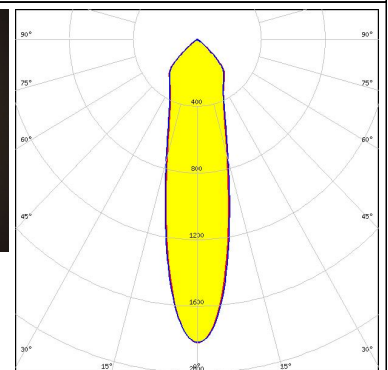
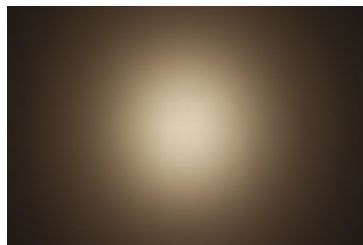


LED V22 Gen7
FWHM / FWTM 31.0° / 92.0°
Efficiency 91 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



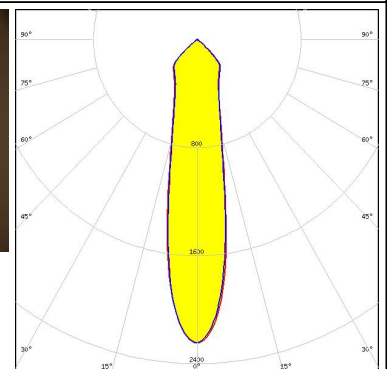
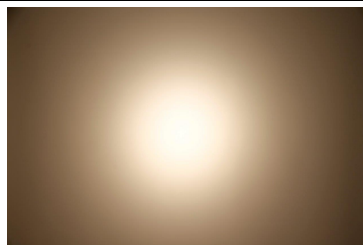
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 25.0° / 92.0°
Efficiency 89 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101-G2



CITIZEN

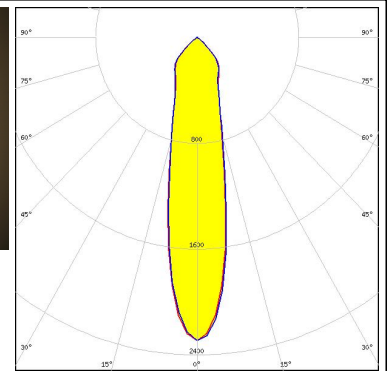
LED CLL03x/CLU03x
FWHM / FWTM 22.0° / 91.0°
Efficiency 94 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8101-G2



OPTICAL RESULTS (MEASURED):

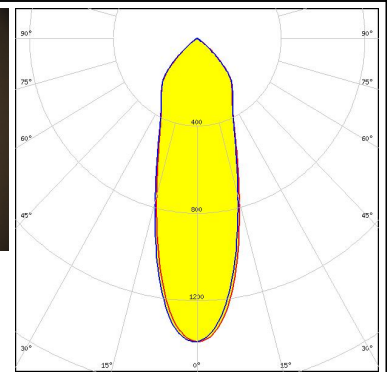
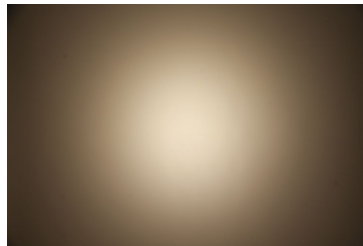
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 23.0° / 86.0°
Efficiency 92 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



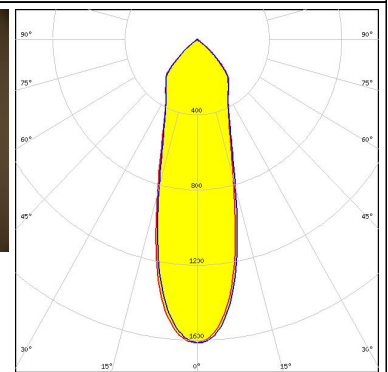
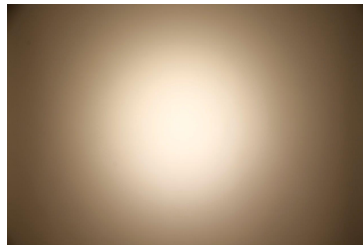
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 33.0° / 94.0°
Efficiency 88 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8102-G2



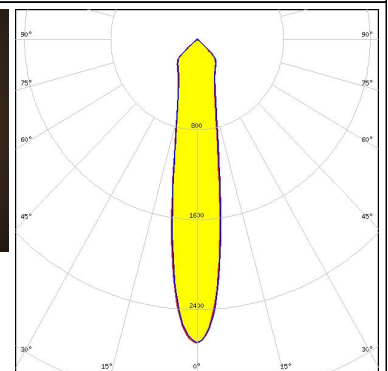
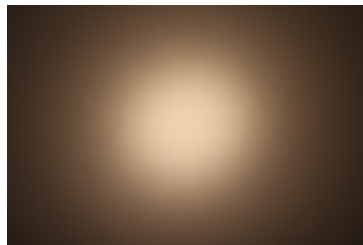
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 30.0° / 93.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102-G2



CITIZEN

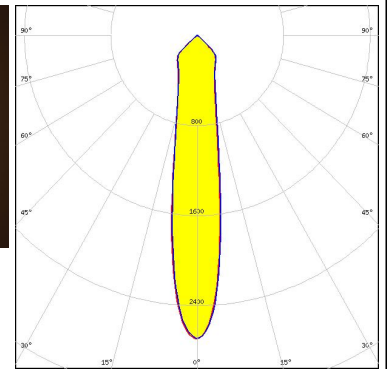
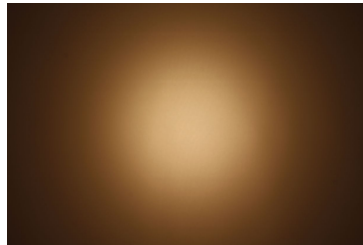
LED CLU720/721/723
FWHM / FWTM 19.0° / 88.0°
Efficiency 94 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8101-G2



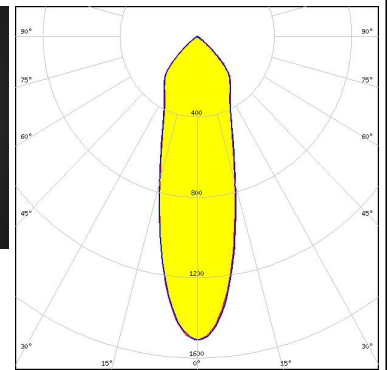
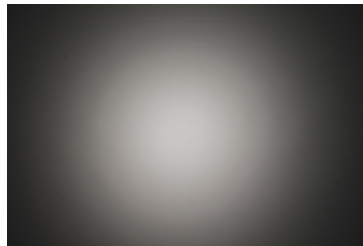
OPTICAL RESULTS (MEASURED):

CITIZEN

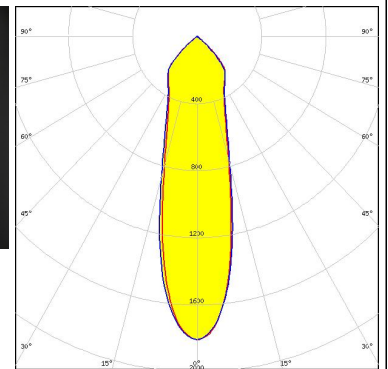
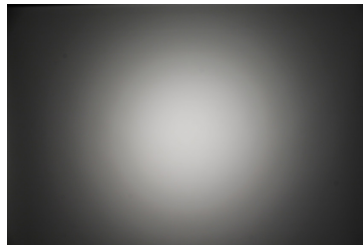
LED CLU720/721/723
 FWHM / FWTM 19.0° / 81.0°
 Efficiency 94 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



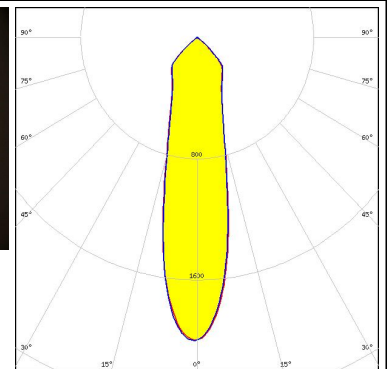
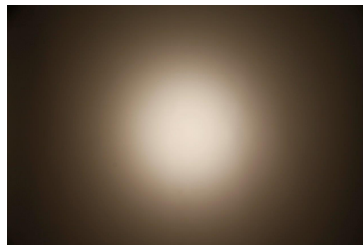
LED CXA/B 25xx
 FWHM / FWTM 30.0° / 93.0°
 Efficiency 88 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2141



LED CXA/B 25xx
 FWHM / FWTM 27.0° / 91.0°
 Efficiency 92 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2141



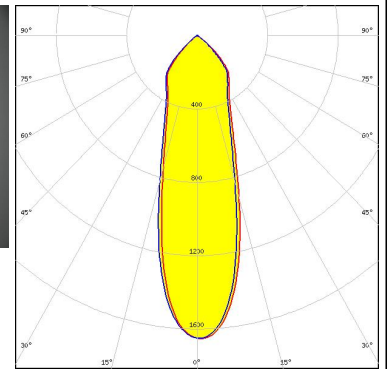
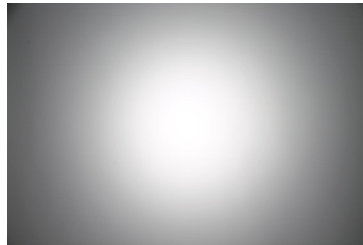
LED CXA/B 25xx
 FWHM / FWTM 25.0° / 91.0°
 Efficiency 93 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8401-G2



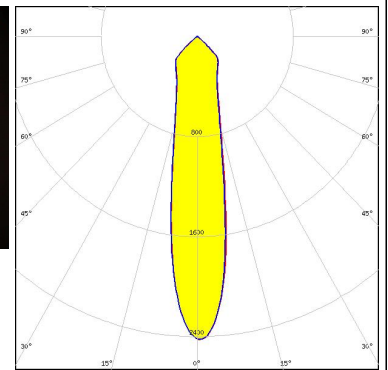
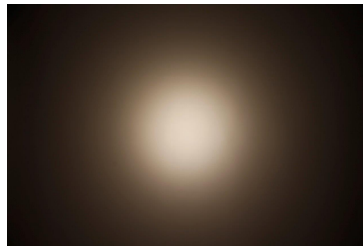
OPTICAL RESULTS (MEASURED):



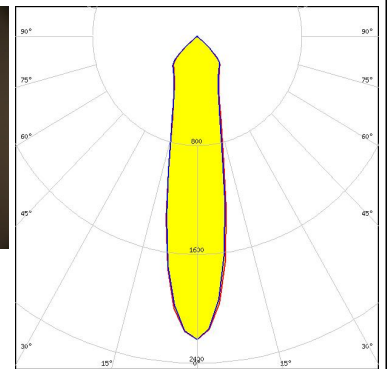
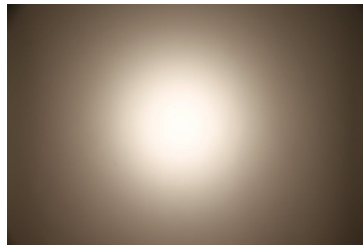
LED CXA/B 30xx
FWHM / FWTM 30.0° / 92.0°
Efficiency 92 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8404-G2



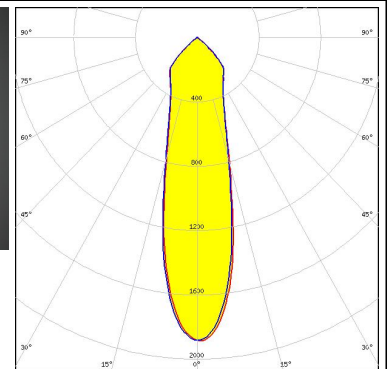
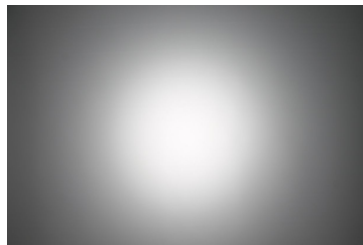
LED LUXEON CoB 1204/1205
FWHM / FWTM 21.0° / 89.0°
Efficiency 94 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8301-G2



LED LUXEON CoB 1208
FWHM / FWTM 23.0° / 90.0°
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8301-G2



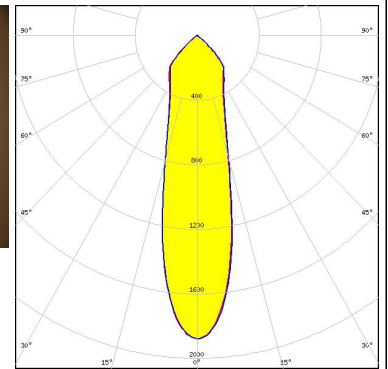
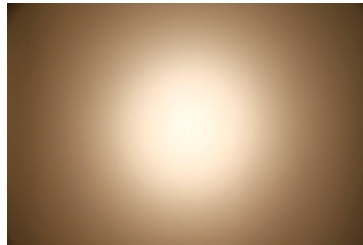
LED LUXEON CoB 1211
FWHM / FWTM 26.0° / 91.0°
Efficiency 92 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



OPTICAL RESULTS (MEASURED):

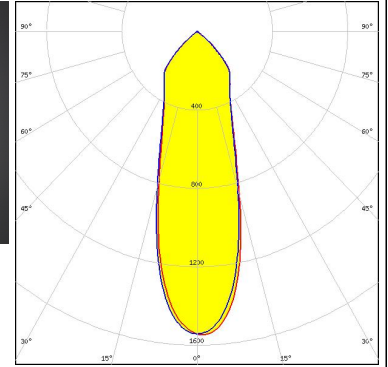
LUMILEDS

LED LUXEON CoB 1211
 FWHM / FWTM 26.0° / 91.0°
 Efficiency 92 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102-G2



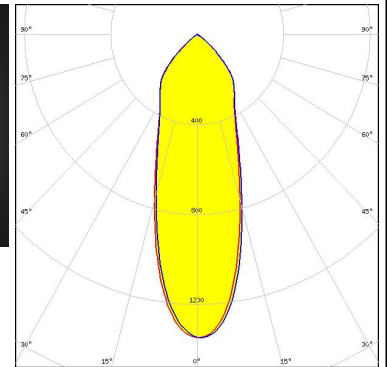
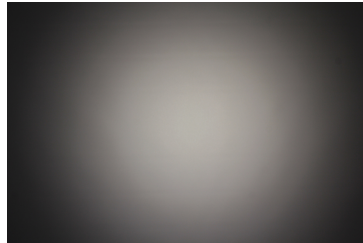
LUMILEDS

LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 32.0° / 93.0°
 Efficiency 91 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



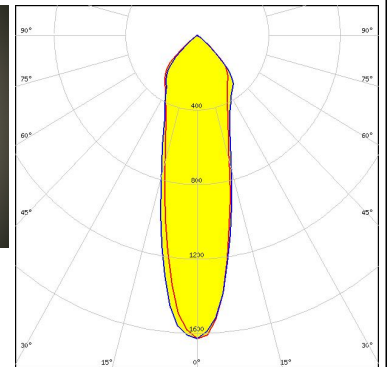
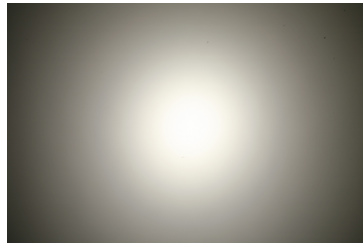
LUMILEDS

LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 34.0° / 95.0°
 Efficiency 88 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



LUMILEDS

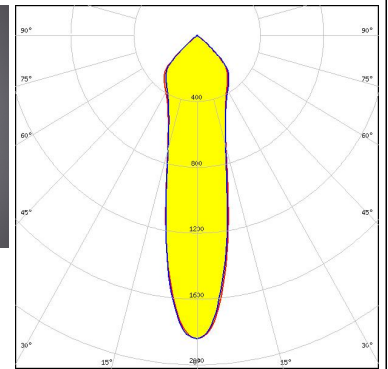
LED LUXEON K12
 FWHM / FWTM 27.0° / 95.0°
 Efficiency 89 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2070



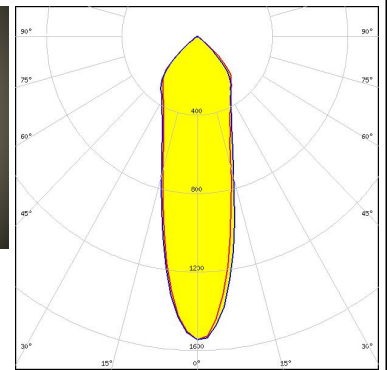
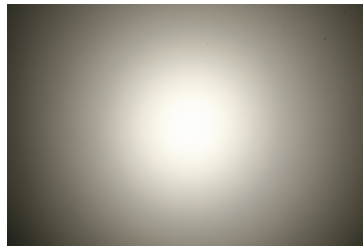
OPTICAL RESULTS (MEASURED):



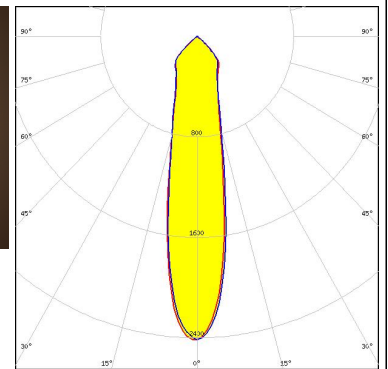
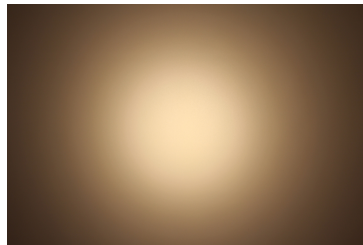
LED LUXEON K16
FWHM / FWTM 24.0° / 94.0°
Efficiency 94 %
Peak intensity 1.8 cd/m
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2070



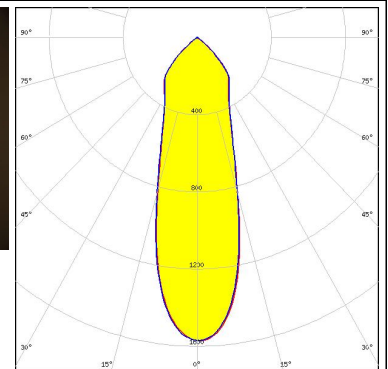
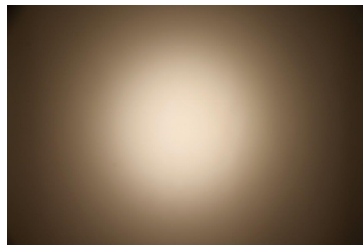
LED LUXEON K16
FWHM / FWTM 29.0° / 95.0°
Efficiency 89 %
Peak intensity 1.5 cd/m
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2070



LED CxM-14 (19x19)
FWHM / FWTM 23.0° / 87.0°
Efficiency 94 %
Peak intensity 2.4 cd/m
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



LED CxM-22 (28x28)
FWHM / FWTM 32.0° / 93.0°
Efficiency 92 %
Peak intensity 1.6 cd/m
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030

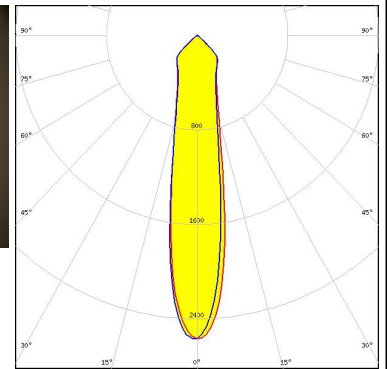
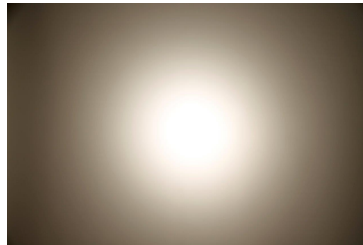


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

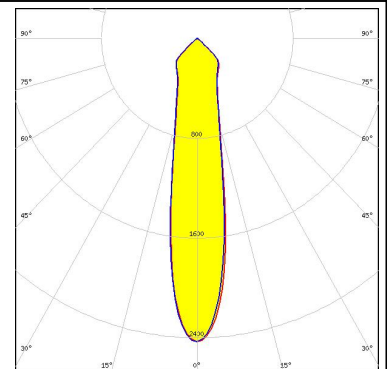
LED Soleriq S13
FWHM / FWTM 20.0° / 87.0°
Efficiency 94 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8502-G2



OSRAM

Opto Semiconductors

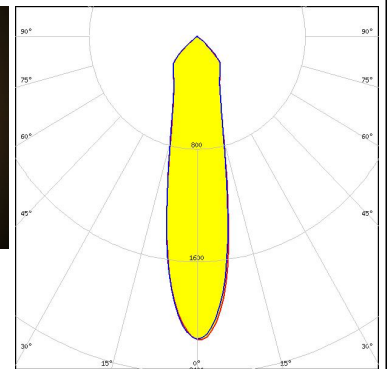
LED Soleriq S13 19x19
FWHM / FWTM 20.0° / 89.0°
Efficiency 92 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



OSRAM

Opto Semiconductors

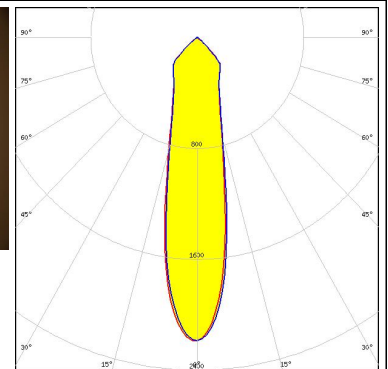
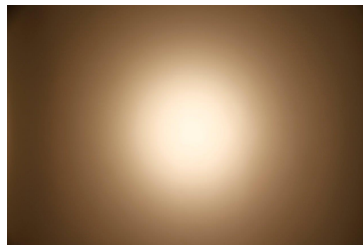
LED Soleriq S19
FWHM / FWTM 23.0° / 90.0°
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2170



OSRAM

Opto Semiconductors

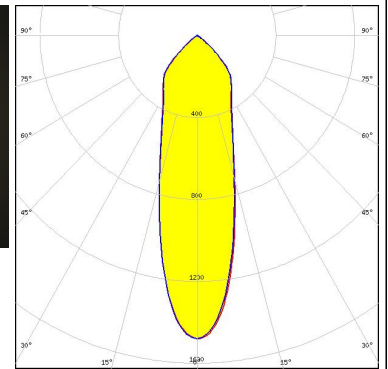
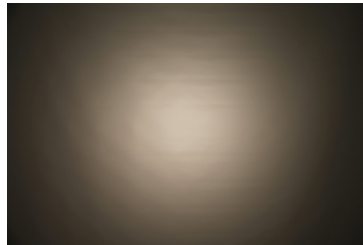
LED Soleriq S19
FWHM / FWTM 23.0° / 89.0°
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8503-G2



OPTICAL RESULTS (MEASURED):

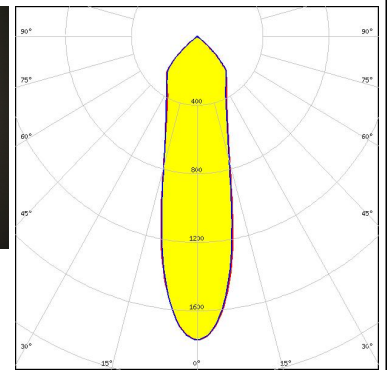
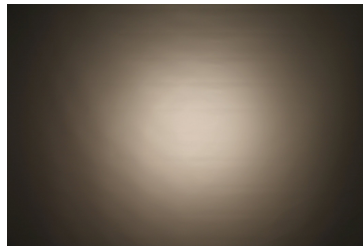
PHILIPS

LED Fortimo SLM L19 CoB
 FWHM / FWTM 30.0° / 94.0°
 Efficiency 88 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



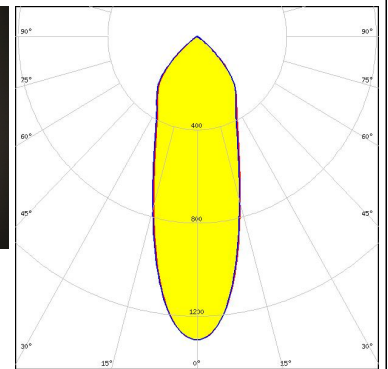
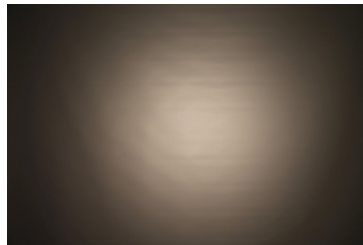
PHILIPS

LED Fortimo SLM L19 CoB
 FWHM / FWTM 27.0° / 92.0°
 Efficiency 93 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



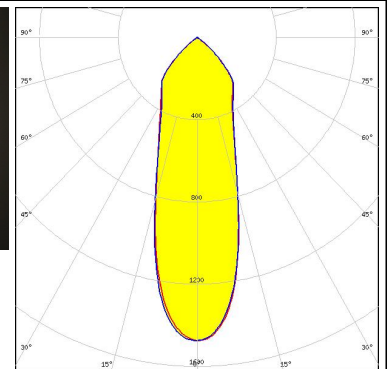
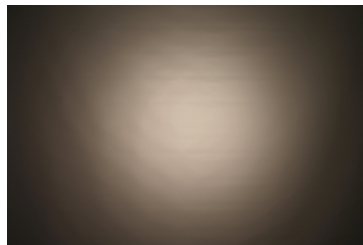
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM / FWTM 34.0° / 95.0°
 Efficiency 88 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



PHILIPS

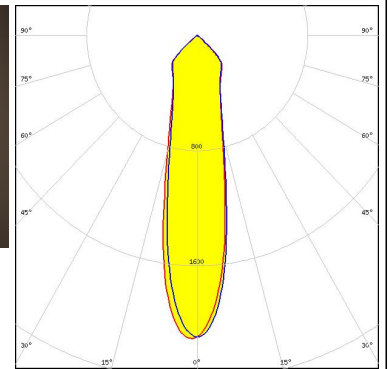
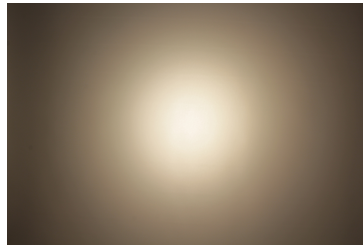
LED Fortimo SLM L23 CoB
 FWHM / FWTM 32.0° / 95.0°
 Efficiency 93 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



OPTICAL RESULTS (MEASURED):

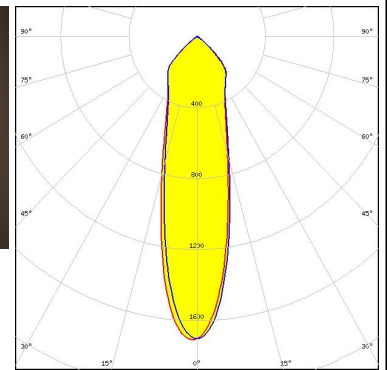
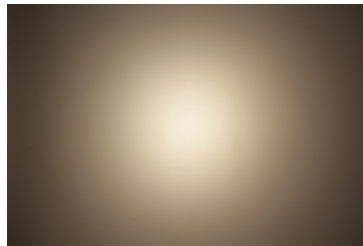
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 24.0° / 91.0°
 Efficiency 93 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



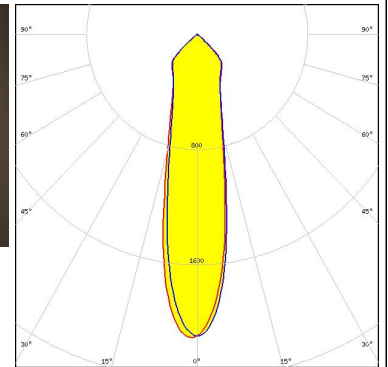
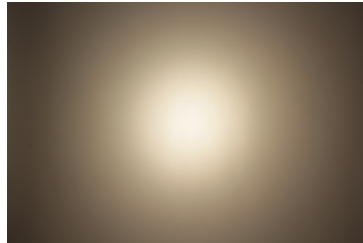
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 27.0° / 93.0°
 Efficiency 89 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8101-G2



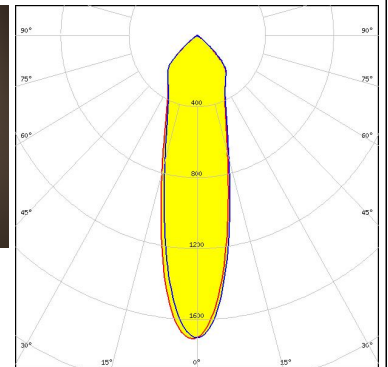
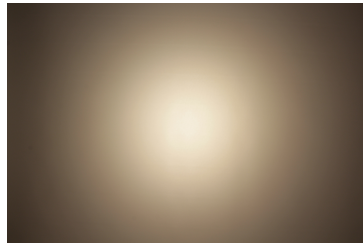
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 24.0° / 91.0°
 Efficiency 93 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101-G2

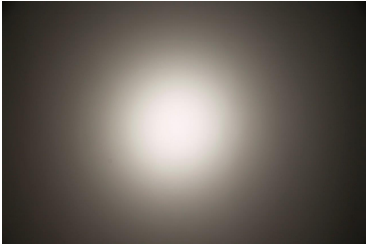
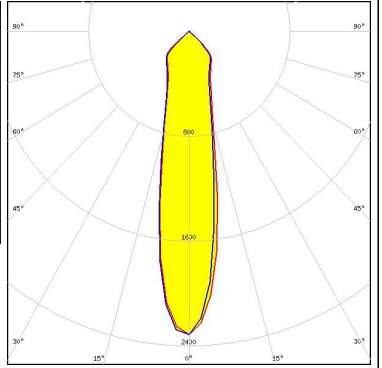
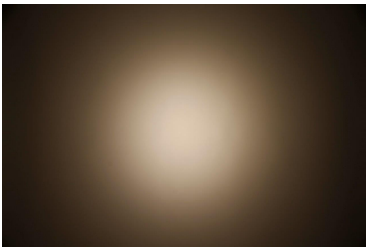
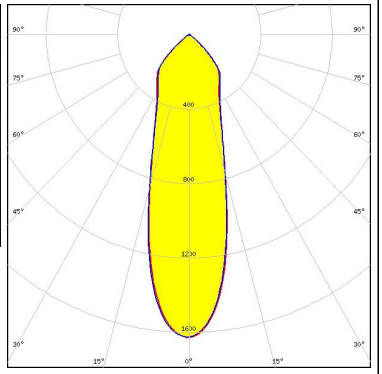
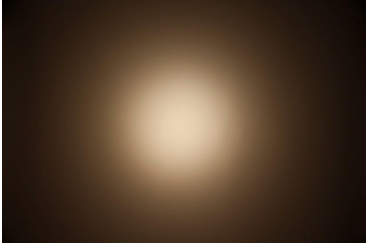
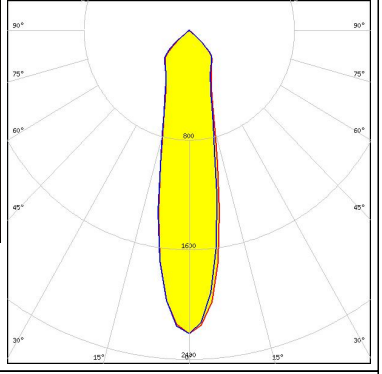
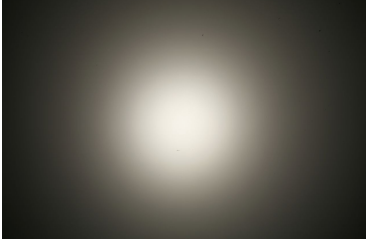
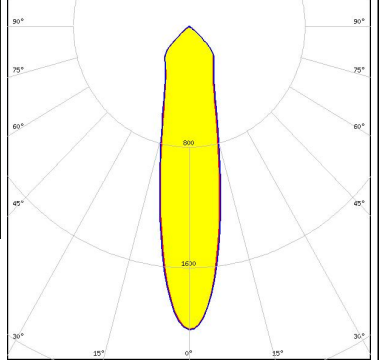


SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 27.0° / 93.0°
 Efficiency 89 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2021



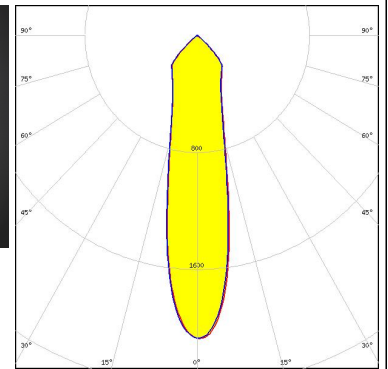
OPTICAL RESULTS (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC12/18</p> <p>FWHM / FWTM 22.0° / 89.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 2.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>A.A.G. STUCCHI: 8101-G2</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60</p> <p>FWHM / FWTM 30.0° / 93.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>A.A.G. STUCCHI: 8102-G2</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW6DME)</p> <p>FWHM / FWTM 23.0° / 90.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 2.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>A.A.G. STUCCHI: 8301-G2</p>		
<p>SHARP</p> <p>LED Tiger Zenigata (GWTGCBG4FD)</p> <p>FWHM / FWTM 23.0° / 90.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>F13671_ANGE-RZ-LENS</p> <p>BJB: 47.319.2051</p>		

OPTICAL RESULTS (MEASURED):

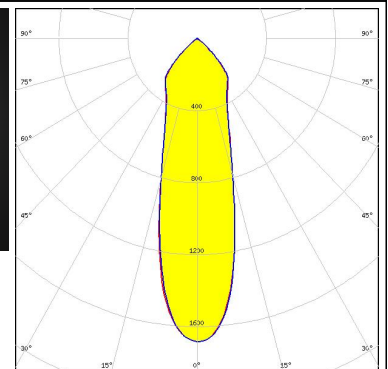
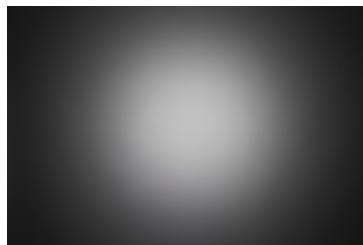
TRIDONIC

LED SLE G7 LES17 H
 FWHM / FWTM 24.0° / 89.0°
 Efficiency 91 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



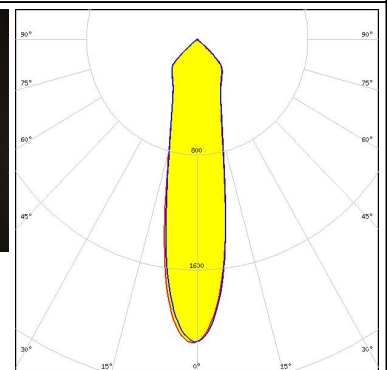
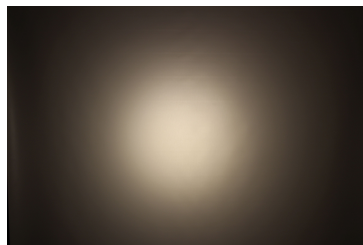
TRIDONIC

LED SLE G7 LES21 H
 FWHM / FWTM 29.0° / 91.0°
 Efficiency 91 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



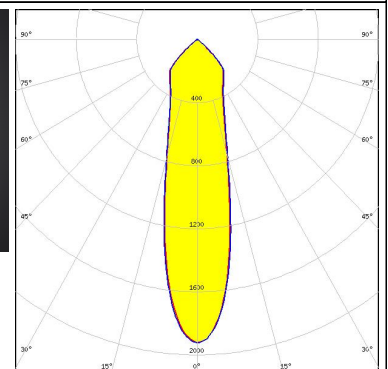
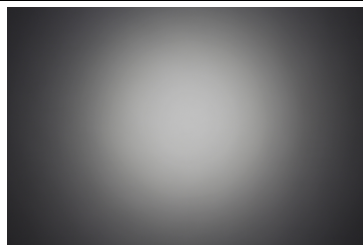
XICATO

LED XOBS 14.5 mm
 FWHM / FWTM 23.0° / 92.0°
 Efficiency 94 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



XICATO

LED XTM - 19mm LES
 FWHM / FWTM 25.0° / 91.0°
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C15743_XTM-ADAPTER-50-B



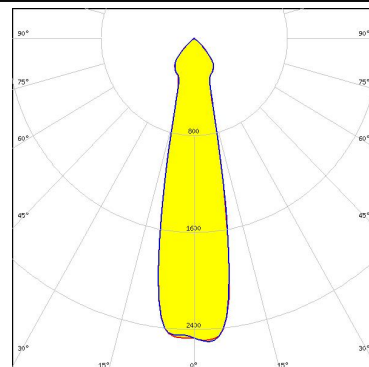
OPTICAL RESULTS (SIMULATED):

CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 22.0° / 68.0°
Efficiency 95 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030

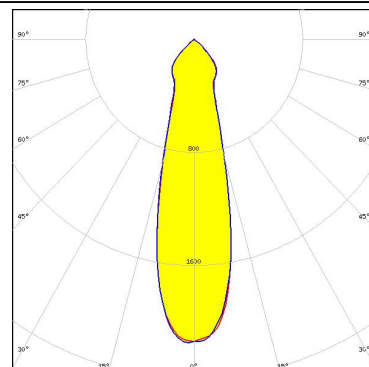
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 24.0° / 79.0°
Efficiency 89 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2315



SAMSUNG

LED LC040D / LC060D / LC080D
FWHM / FWTM 27.0° / 85.0°
Efficiency 90 %
Peak intensity 2.2 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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LEDiL Oy

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