

ANGELA-W-B

~45° wide beam compatible with BJB connectors

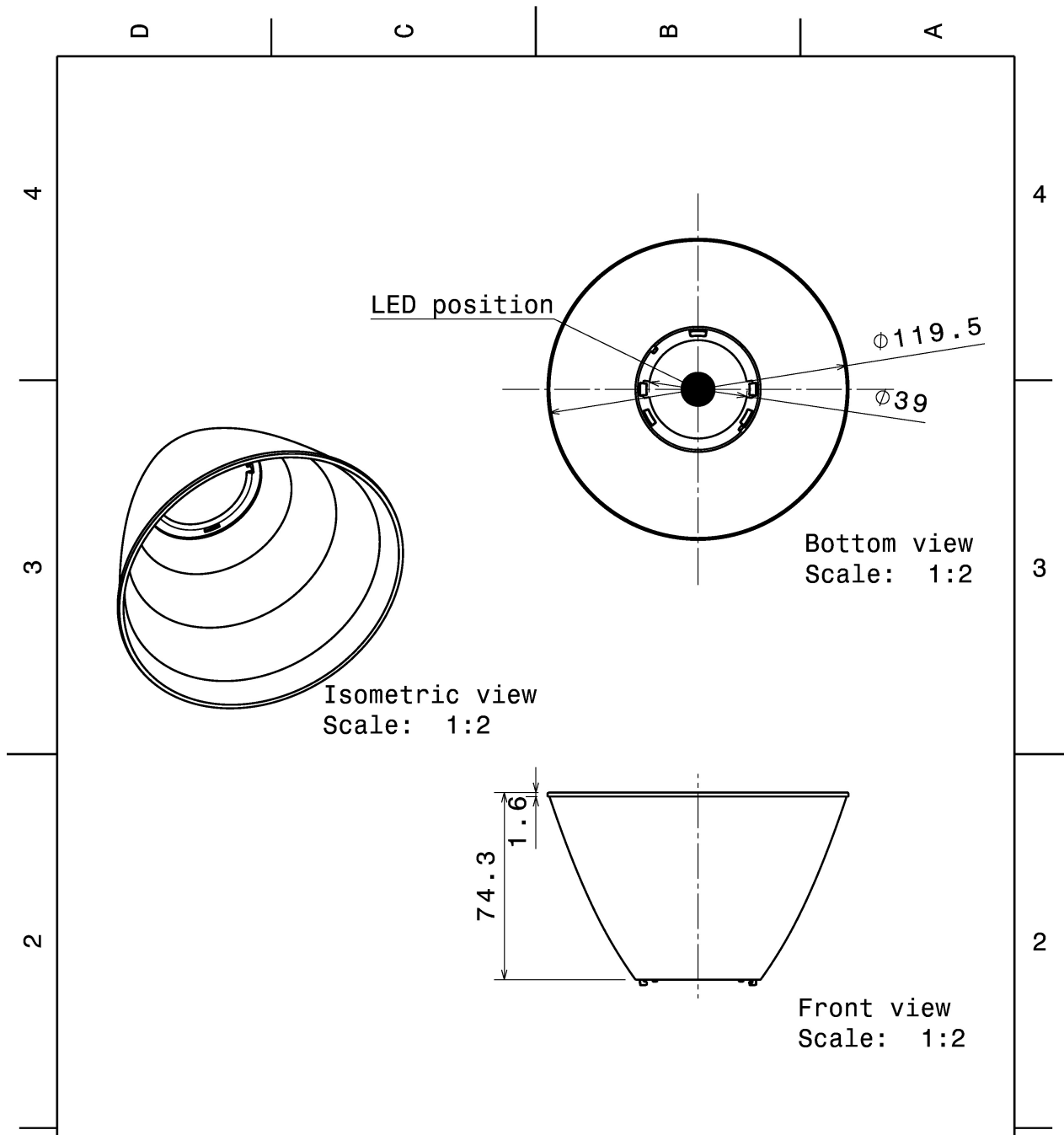
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.5 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	9.1 kg
Quantity in Box	180 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

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

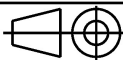


Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE

Angela-B

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of LEDiL Oy. It may not be
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agreement with LEDiL Oy."

SIZE PART NUMBER

A4

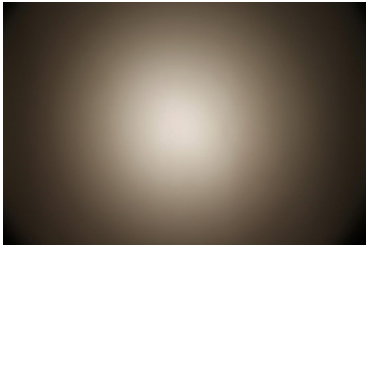
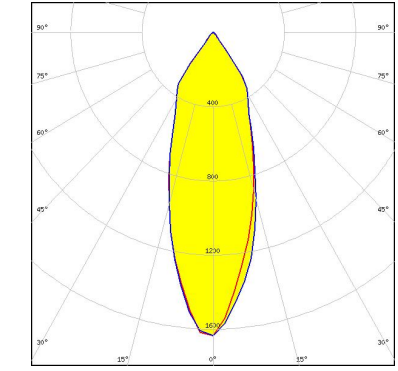
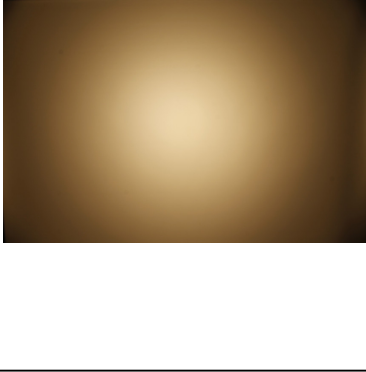
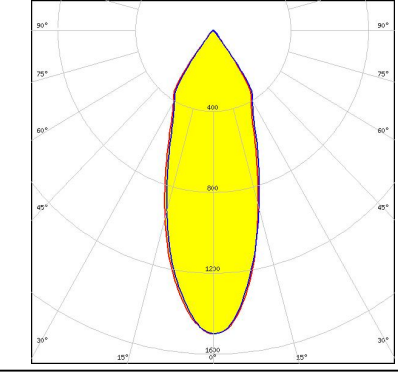
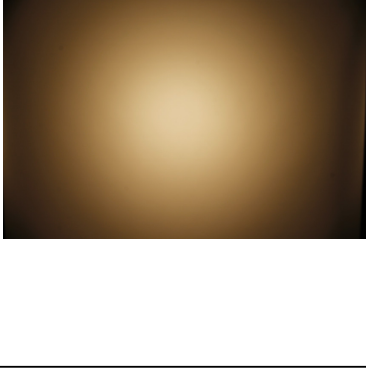
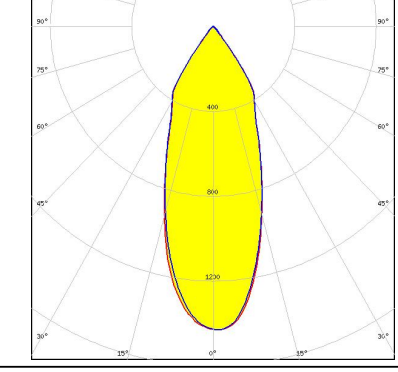
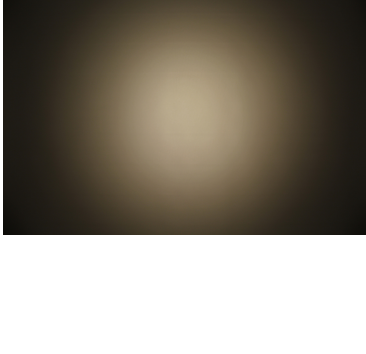
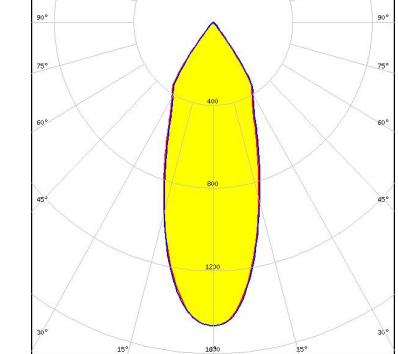
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SCALE 1:2 WEIGHT


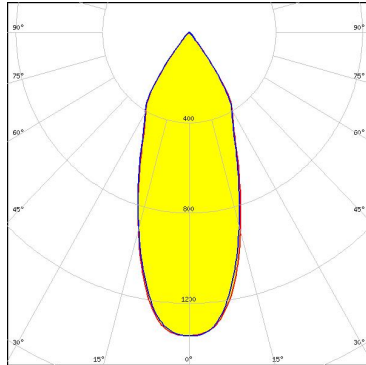
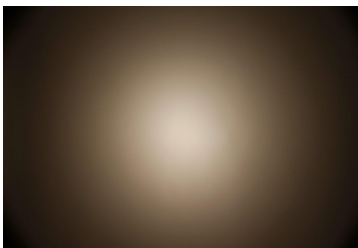
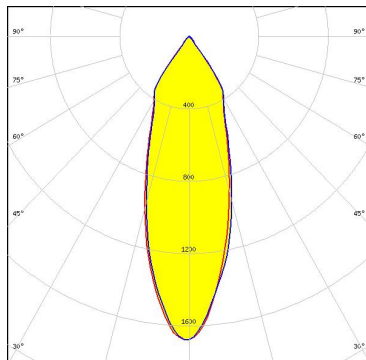

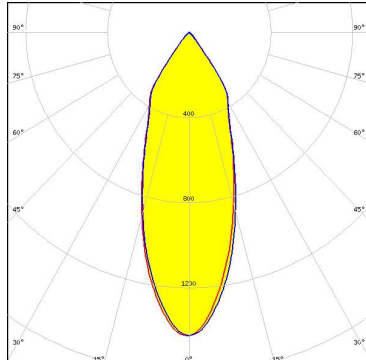
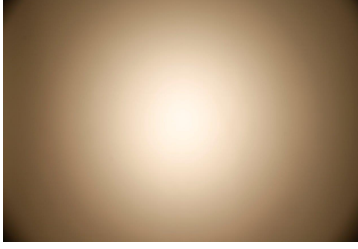
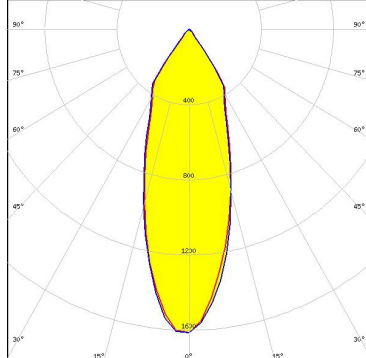
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SHEET 1/1

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 34.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.650 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2040</p>		
<p>bridgelux.</p> <p>LED V15 Gen6</p> <p>FWHM 37.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.500 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2224</p>		
<p>bridgelux.</p> <p>LED V18 Gen6</p> <p>FWHM 38.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.400 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>bridgelux.</p> <p>LED V18 Gen7</p> <p>FWHM 38.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.500 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: BJB: 47.319.2350</p>		

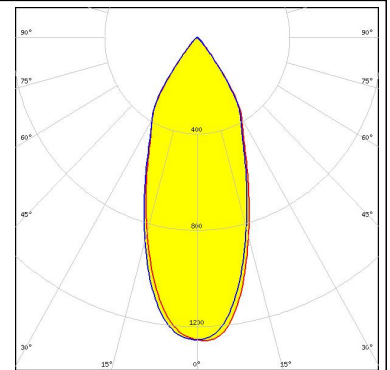
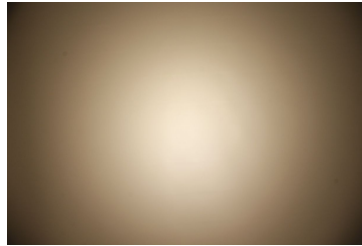
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux</p> <p>LED V22 Gen6 FWHM 40.0° Efficiency 80 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM 33.0° Efficiency 83 % Peak intensity 1.680 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2021</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM 37.0° Efficiency 78 % Peak intensity 1.430 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 34.0° Efficiency 83 % Peak intensity 1.630 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8101/G2</p>		

PHOTOMETRIC DATA (MEASURED):

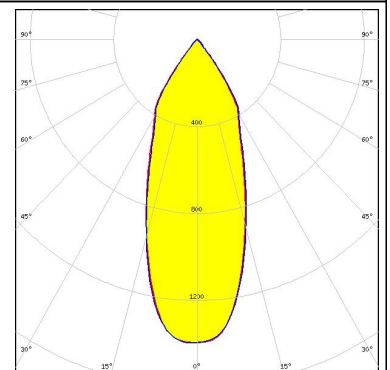
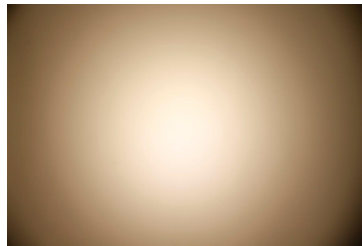
CITIZEN

LED CLL04x/CLU04x
 FWHM 41.0°
 Efficiency 77 %
 Peak intensity 1.260 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8102/G2



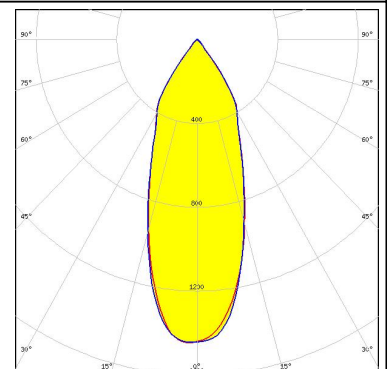
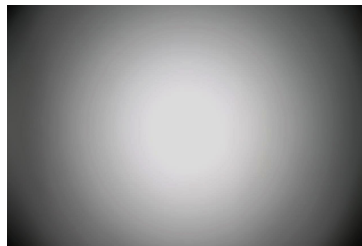
CITIZEN

LED CLL04x/CLU04x
 FWHM 39.0°
 Efficiency 82 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102/G2



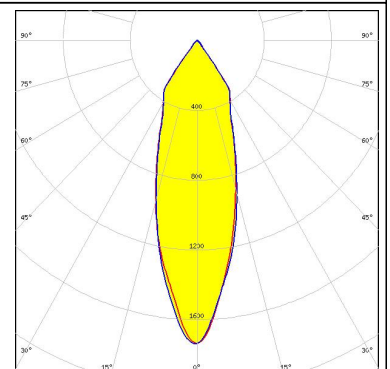
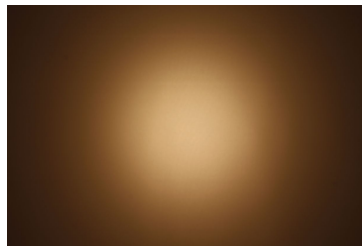
CITIZEN

LED CLL04x/CLU04x
 FWHM 38.0°
 Efficiency 82 %
 Peak intensity 1.450 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



CITIZEN

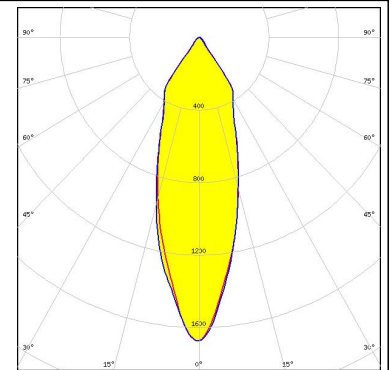
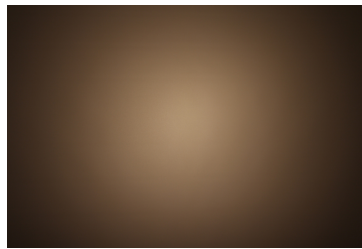
LED CLU720/721
 FWHM 32.0°
 Efficiency 83 %
 Peak intensity 1.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



PHOTOMETRIC DATA (MEASURED):

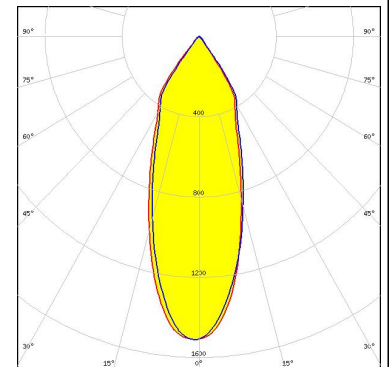
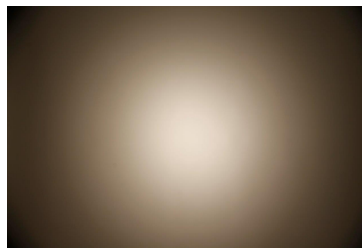
CITIZEN

LED CLU720/721
 FWHM 32.0°
 Efficiency 84 %
 Peak intensity 1.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101/G2



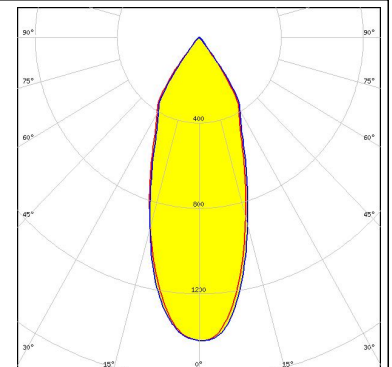
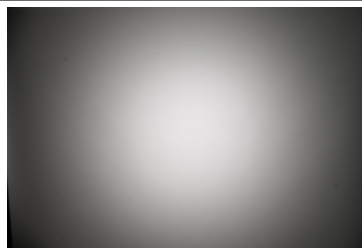
CREE

LED CXA/B 25xx
 FWHM 37.0°
 Efficiency 82 %
 Peak intensity 1.510 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8401/G2



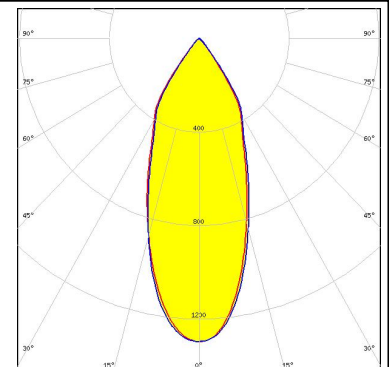
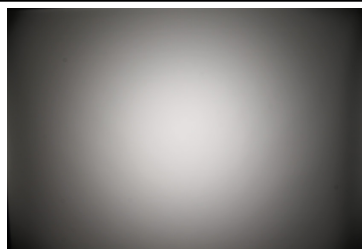
CREE

LED CXA/B 25xx
 FWHM 38.0°
 Efficiency 80 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE

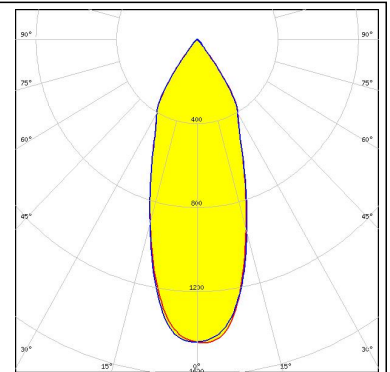
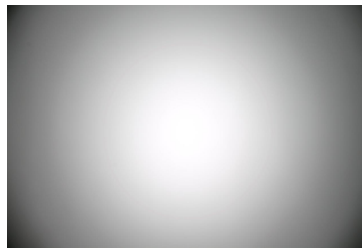
LED CXA/B 25xx
 FWHM 40.0°
 Efficiency 77 %
 Peak intensity 1.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2141



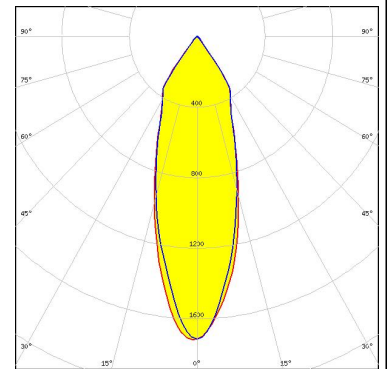
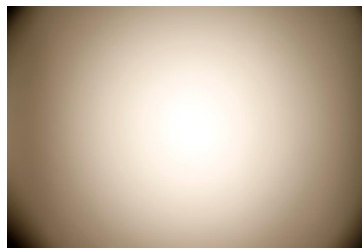
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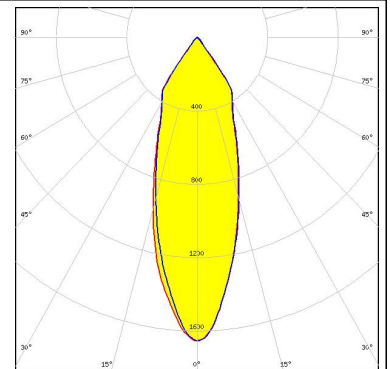
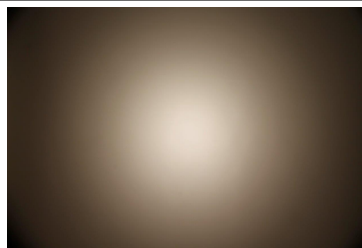
LED CXA/B 30xx
 FWHM 38.0°
 Efficiency 81 %
 Peak intensity 1.450 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8404/G2



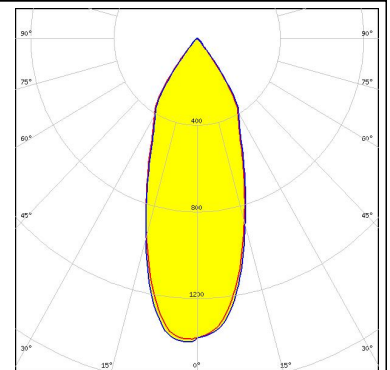
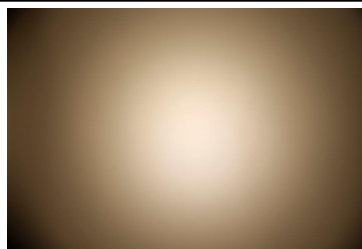
LED COB 10W/13W/17W/24W
 FWHM 33.0°
 Efficiency 84 %
 Peak intensity 1.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2080



LED COB 10W/13W/17W/24W
 FWHM 34.0°
 Efficiency 83 %
 Peak intensity 1.650 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8600/G2



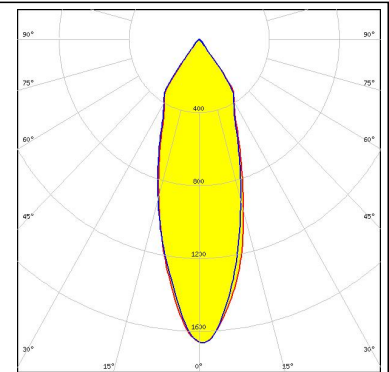
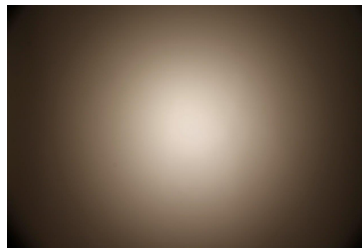
LED COB 40W/60W
 FWHM 39.0°
 Efficiency 81 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102/G2



PHOTOMETRIC DATA (MEASURED):

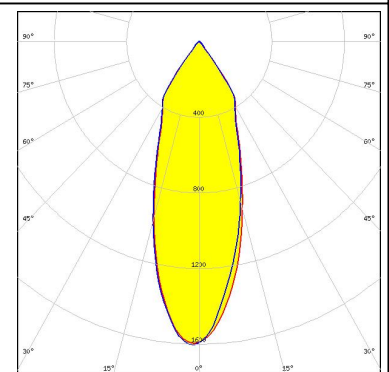
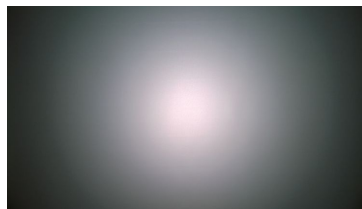
LUMILEDS

LED LUXEON CoB 1204/1205
 FWHM 33.0°
 Efficiency 83 %
 Peak intensity 1.660 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8301/G2



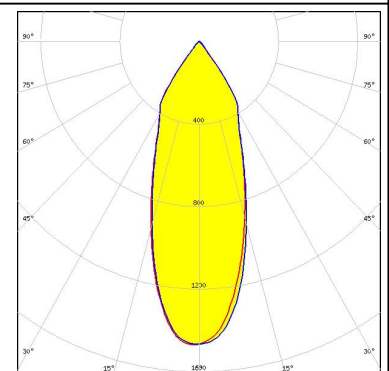
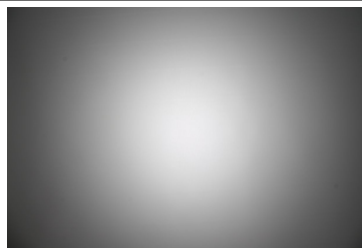
LUMILEDS

LED LUXEON CoB 1208
 FWHM 35.0°
 Efficiency 84 %
 Peak intensity 1.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8301/G2



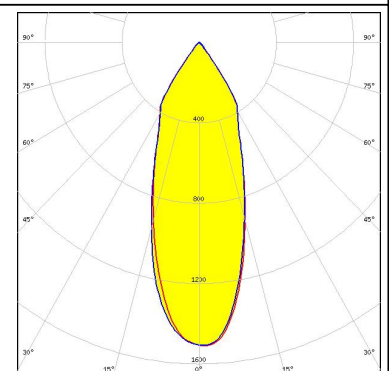
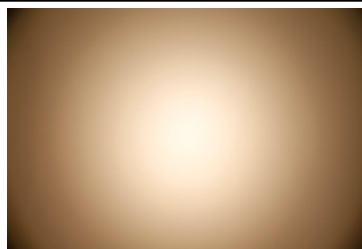
LUMILEDS

LED LUXEON CoB 1211
 FWHM 37.0°
 Efficiency 81 %
 Peak intensity 1.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030


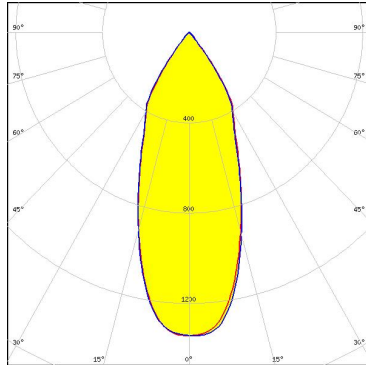
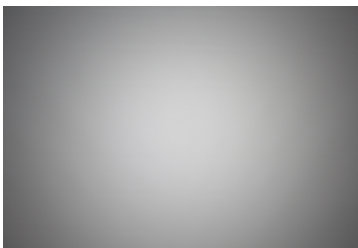
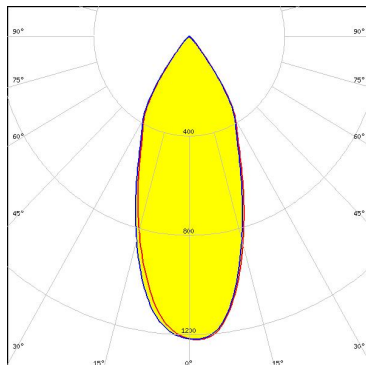
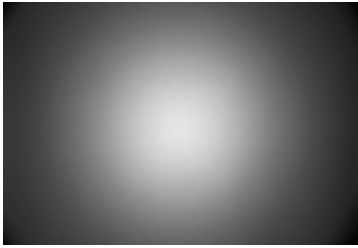
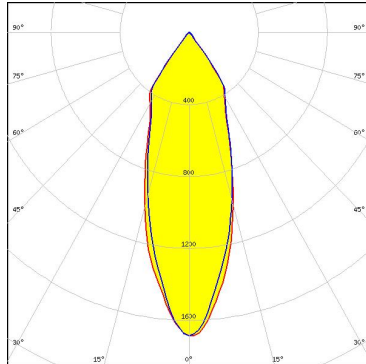
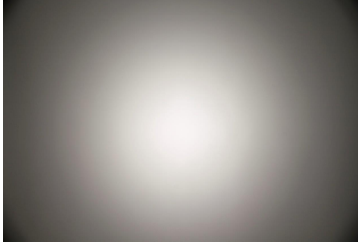
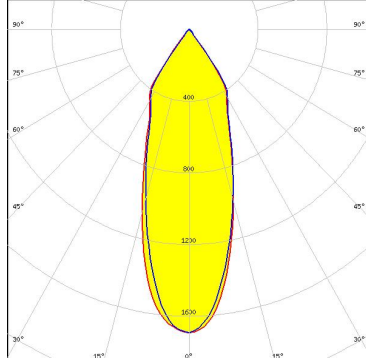


LUMILEDS

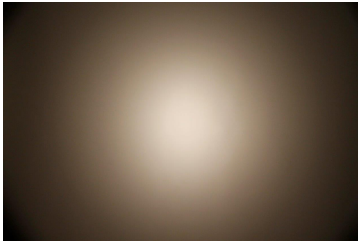
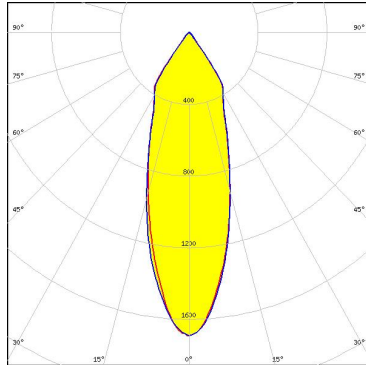
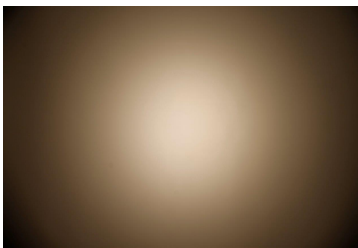
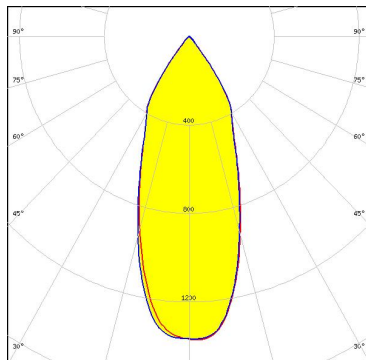
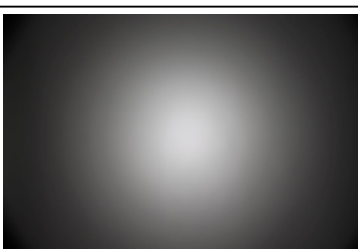
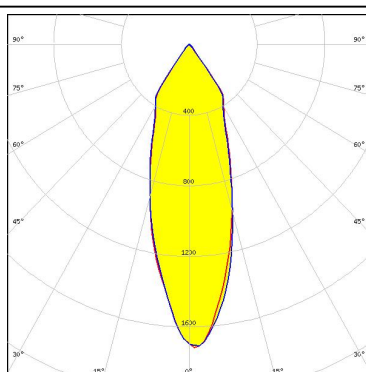
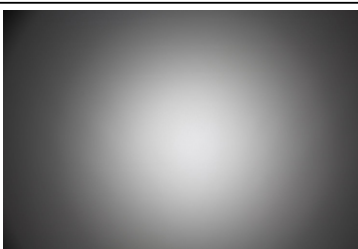
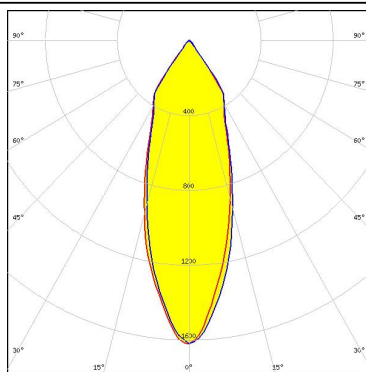
LED LUXEON CoB 1211
 FWHM 37.0°
 Efficiency 82 %
 Peak intensity 1.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102/G2



PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812 FWHM 40.0° Efficiency 80 % Peak intensity 1.359 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812 FWHM 42.0° Efficiency 76 % Peak intensity 1.220 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS BJB: 47.319.2030</p>		
<p>LUMILEDS</p> <p>LED LUXEON K12 FWHM 35.0° Efficiency 87 % Peak intensity 1.700 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2070</p>		
<p>LUMILEDS</p> <p>LED LUXEON K16 FWHM 36.0° Efficiency 88 % Peak intensity 1.700 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2070</p>		

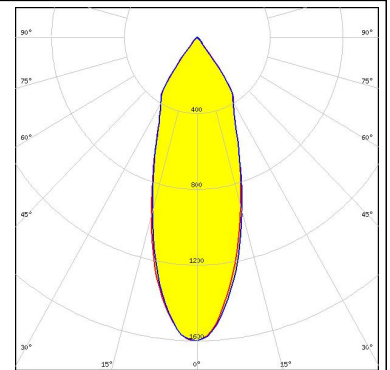
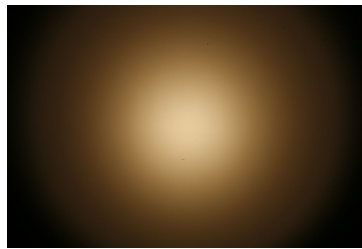
PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CxM-14 (19x19) FWHM 33.0° Efficiency 83 % Peak intensity 1.700 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2021</p>		
<p>LUMINUS</p> <p>LED CxM-22 (28x28) FWHM 40.0° Efficiency 81 % Peak intensity 1.400 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Soleriq S13 FWHM 33.0° Efficiency 84 % Peak intensity 1.700 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8502/G2</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Soleriq S13 19x19 FWHM 34.0° Efficiency 81 % Peak intensity 1.620 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2021</p>		

PHOTOMETRIC DATA (MEASURED):

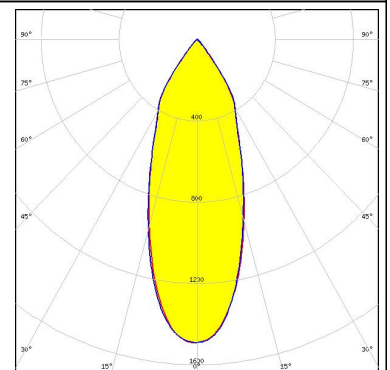
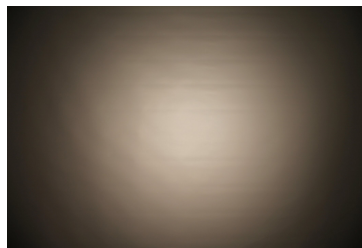
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM 35.0°
Efficiency 83 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2170



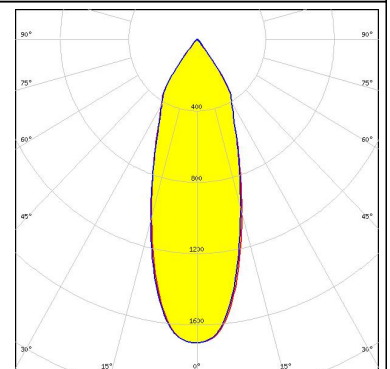
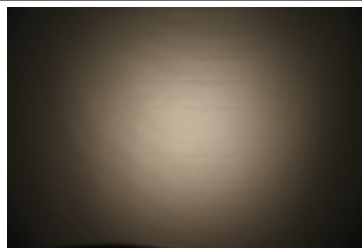
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 38.0°
Efficiency 82 %
Peak intensity 1.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030



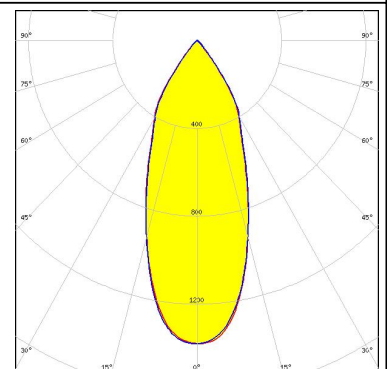
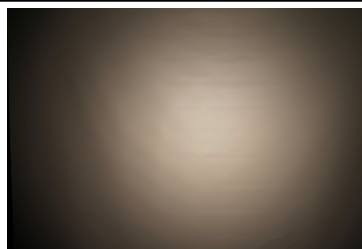
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 35.0°
Efficiency 87 %
Peak intensity 1.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



PHILIPS

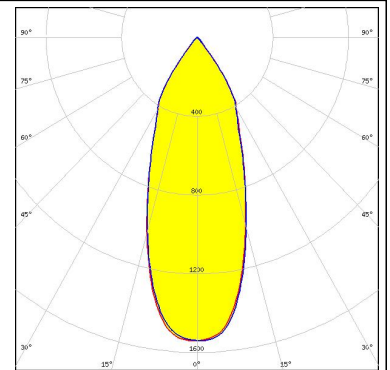
LED Fortimo SLM L23 CoB
FWHM 40.0°
Efficiency 82 %
Peak intensity 1.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030



PHOTOMETRIC DATA (MEASURED):

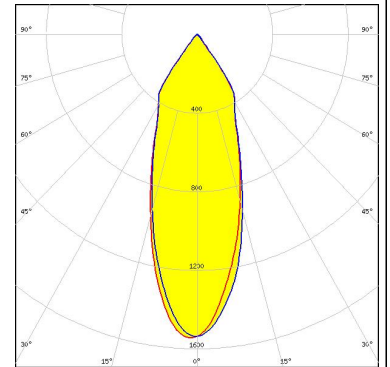
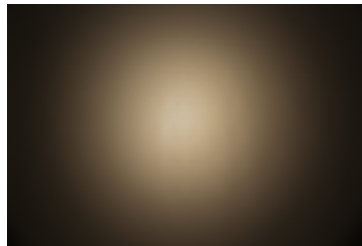
PHILIPS

LED Fortimo SLM L23 CoB
FWHM 39.0°
Efficiency 86 %
Peak intensity 1.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



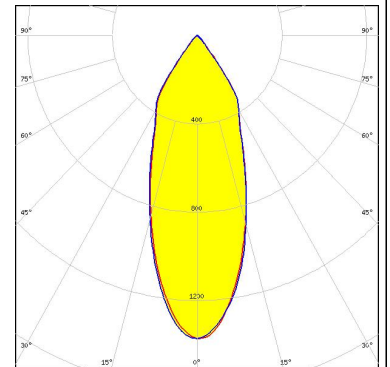
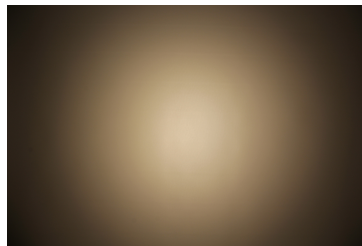
SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 36.0°
Efficiency 82 %
Peak intensity 1.550 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8101/G2



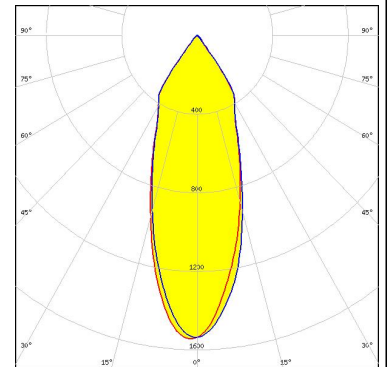
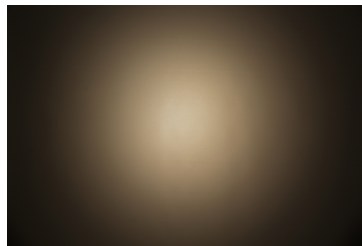
SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 38.0°
Efficiency 79 %
Peak intensity 1.370 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGLE-RZ-LENS
A.A.G. STUCCHI: 8101/G2



SAMSUNG

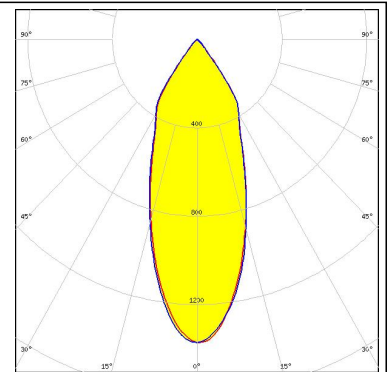
LED COB D Series LES 14.5 mm
FWHM 36.0°
Efficiency 82 %
Peak intensity 1.550 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



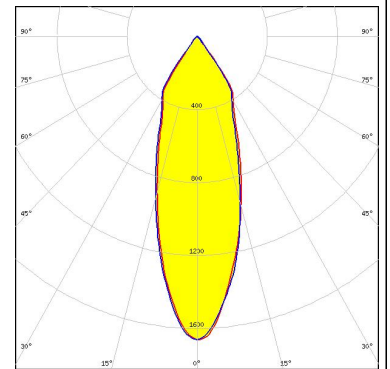
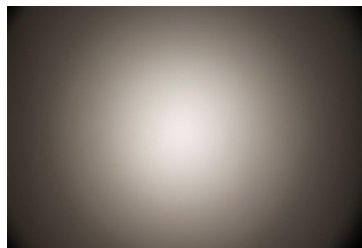
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

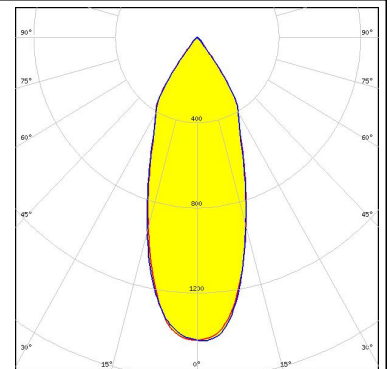
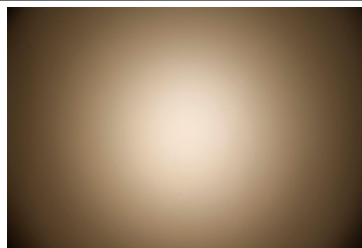
LED COB D Series LES 14.5 mm
 FWHM 38.0°
 Efficiency 79 %
 Peak intensity 1.370 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2021



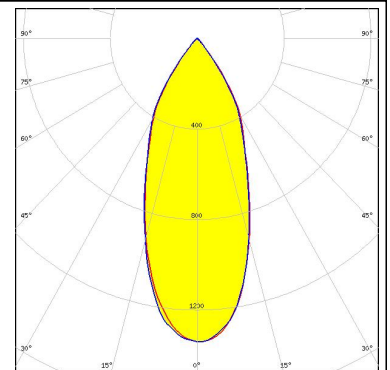
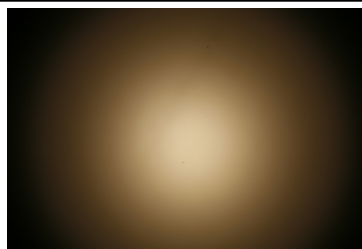
SEOUL SEMICONDUCTOR
 LED ZC12/18
 FWHM 34.0°
 Efficiency 83 %
 Peak intensity 1.660 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101/G2





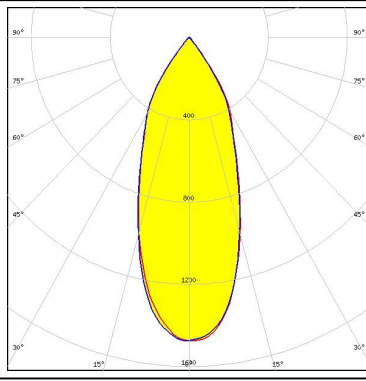
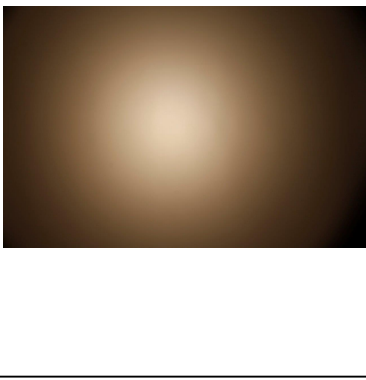
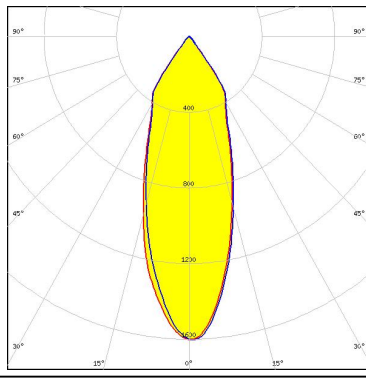

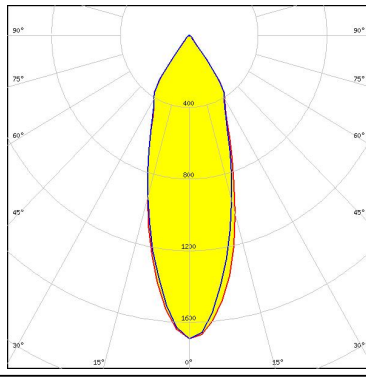

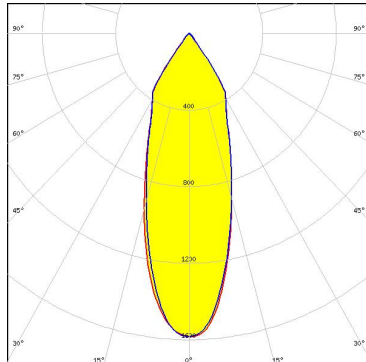
SEOUL SEMICONDUCTOR
 LED ZC25/40/60
 FWHM 39.0°
 Efficiency 82 %
 Peak intensity 1.430 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102/G2



SEOUL SEMICONDUCTOR
 LED ZC25/40/60
 FWHM 42.0°
 Efficiency 79 %
 Peak intensity 1.340 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2030



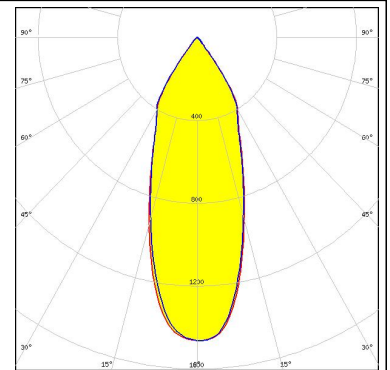
PHOTOMETRIC DATA (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 40.0° Efficiency 82 % Peak intensity 1.480 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW6DME) FWHM 35.0° Efficiency 84 % Peak intensity 1.600 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 34.0° Efficiency 85 % Peak intensity 1.700 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2011</p>		
<p>TRIDONIC</p> <p>LED SLE G7 LES17 H FWHM 34.0° Efficiency 81 % Peak intensity 1.600 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

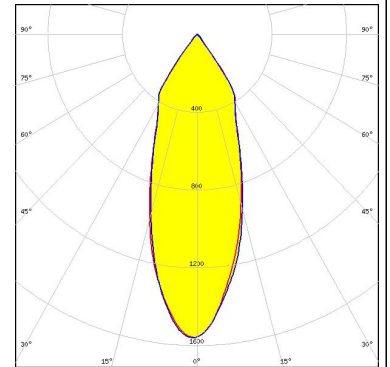
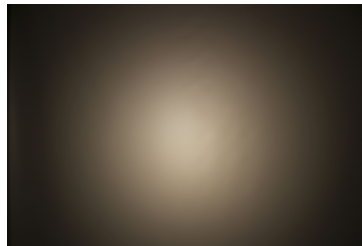
TRIDONIC

LED SLE G7 LES21 H
FWHM 37.0°
Efficiency 81 %
Peak intensity 1.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



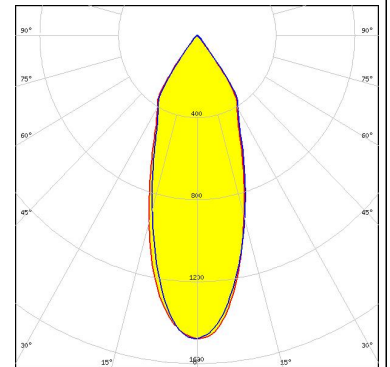
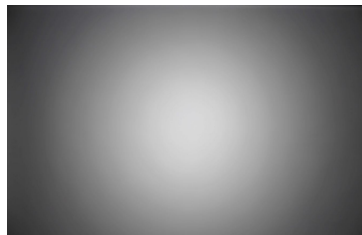
XICATO

LED XOB 14.5 mm
FWHM 36.0°
Efficiency 83 %
Peak intensity 1.562 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



XICATO

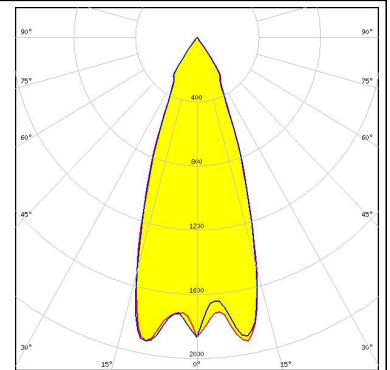
LED XTM - 19mm LES
FWHM 37.0°
Efficiency 82 %
Peak intensity 1.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15743_XTM-ADAPTER-50-B



PHOTOMETRIC DATA (SIMULATED):

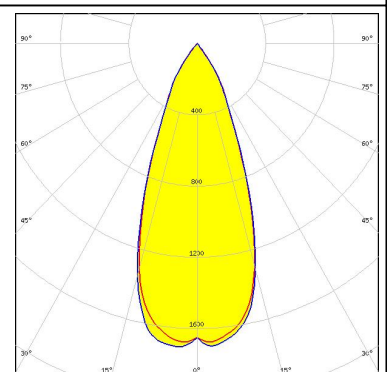
CITIZEN

LED CLU730/731
FWHM 35.0°
Efficiency 91 %
Peak intensity 1.950 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



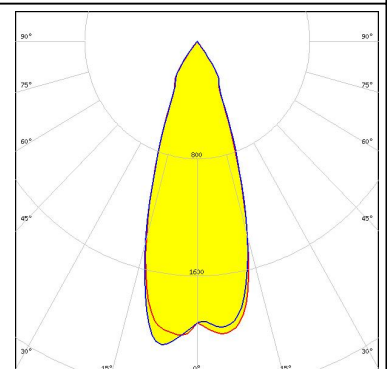
SAMSUNG

LED COB D Series LES 22 mm
FWHM 40.0°
Efficiency 86 %
Peak intensity 1.720 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



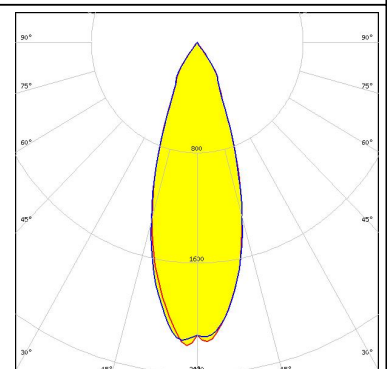
TRIDONIC

LED SLE G6 LES15 H D50
FWHM 35.0°
Efficiency 87 %
Peak intensity 2.110 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

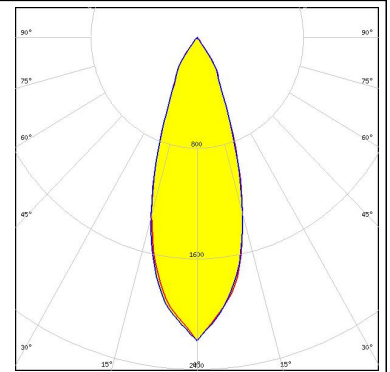
LED SLE G6 LES17 H
FWHM 35.0°
Efficiency 88 %
Peak intensity 2.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

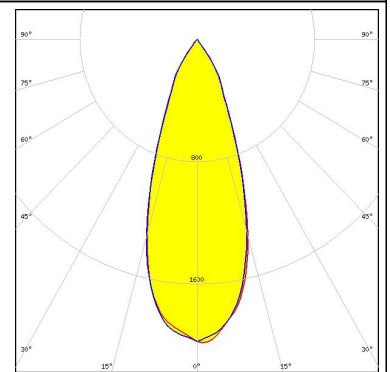
TRIDONIC

LED SLE G6 LES19 H
FWHM 35.0°
Efficiency 87 %
Peak intensity 2.190 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

LED SLE G6 LES23 H
FWHM 37.0°
Efficiency 87 %
Peak intensity 1.990 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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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