

ANGELINA-S-B

~20° spot beam compatible with BJB connectors

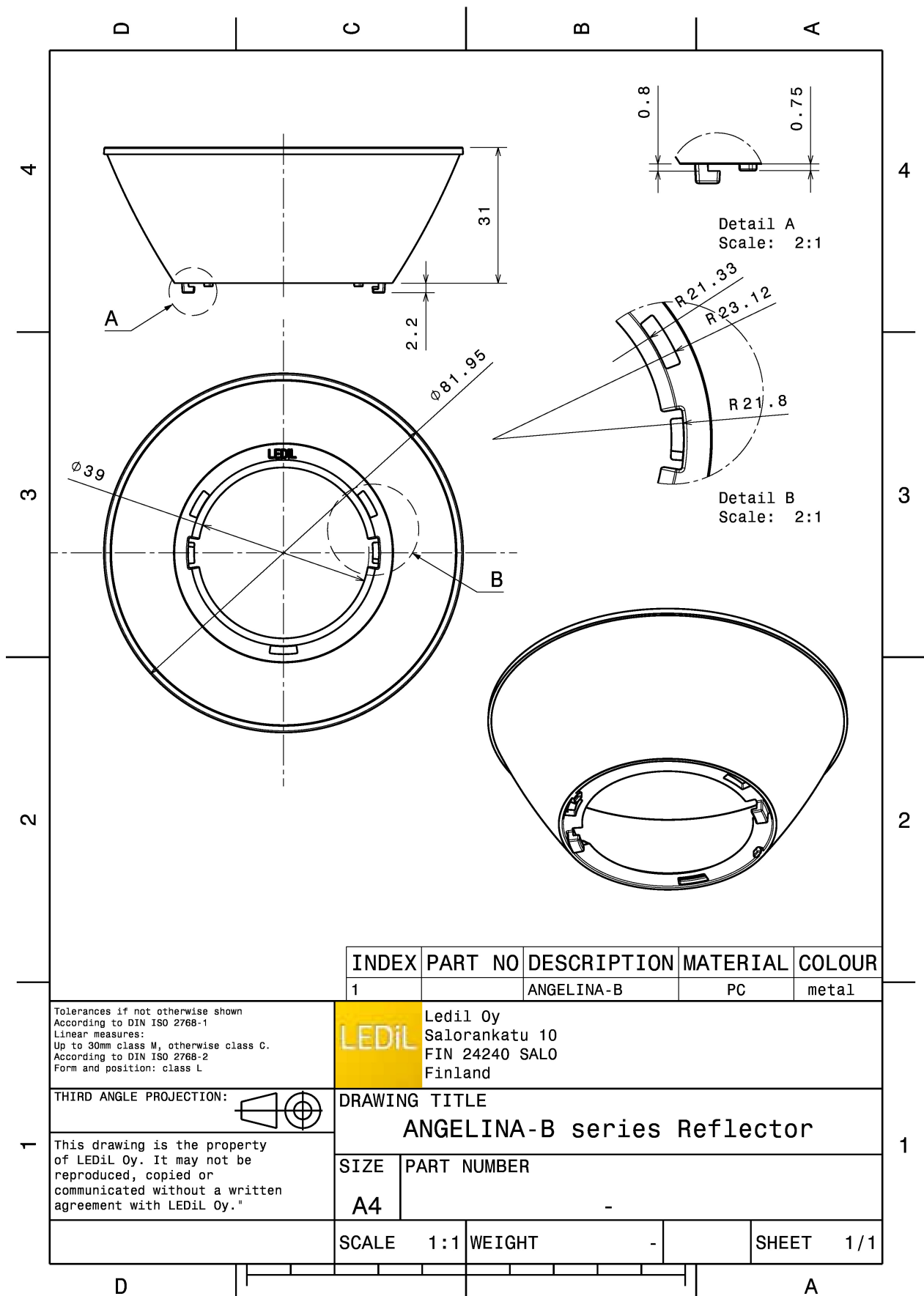
TECHNICAL SPECIFICATIONS:

| | |
|-----------------|--------------------|
| Dimensions | Ø 82.0 mm |
| Height | 31 mm |
| Fastening | socket |
| Colour | metal |
| Box size | 480 x 280 x 300 mm |
| Box weight | 11.3 kg |
| Quantity in Box | 2035 pcs |
| ROHS compliant | yes ⓘ |



MATERIAL SPECIFICATIONS:

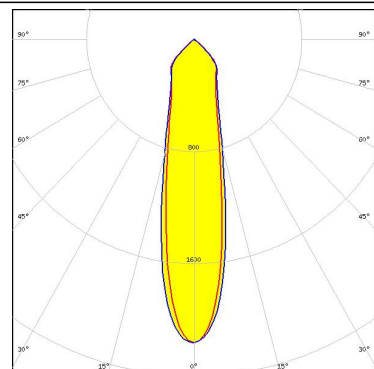
| Component | Type | Material | Colour | Coating |
|--------------|-----------|----------|--------|---------|
| ANGELINA-S-B | Reflector | PC | metal | HMDS |



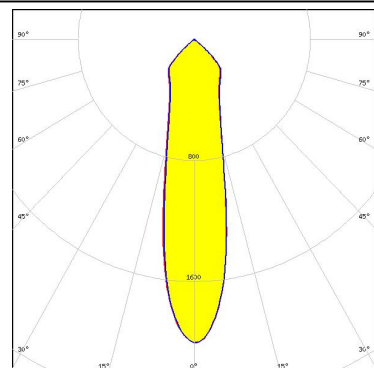
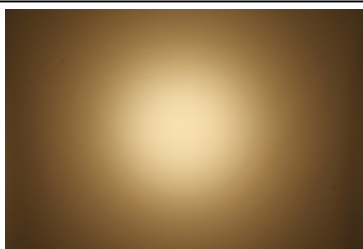
PHOTOMETRIC DATA (MEASURED):



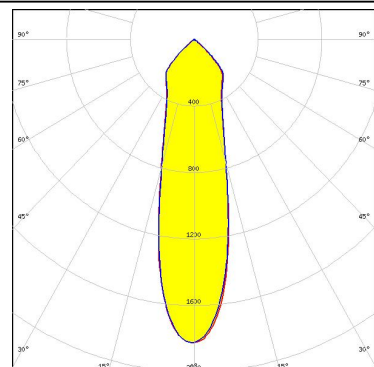
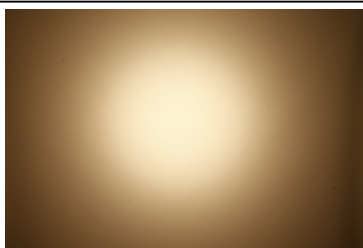
LED BXRA ES Rectangle
 FWHM 23.0°
 Efficiency 92 %
 Peak intensity 2.170 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2040



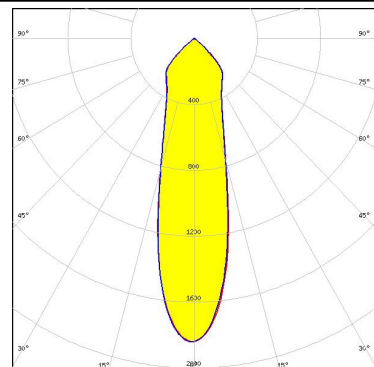
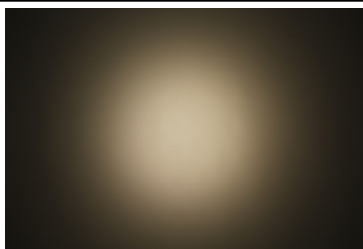
LED V15 Gen6
 FWHM 24.0°
 Efficiency 92 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2224



LED V18 Gen6
 FWHM 27.0°
 Efficiency 92 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2274



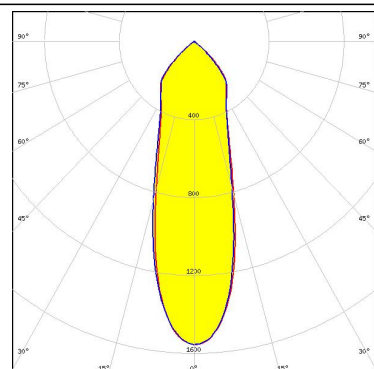
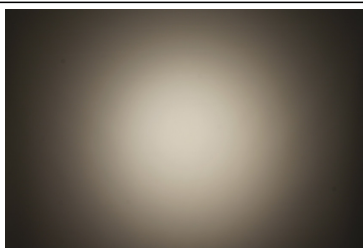
LED V18 Gen7
 FWHM 27.0°
 Efficiency 93 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2350



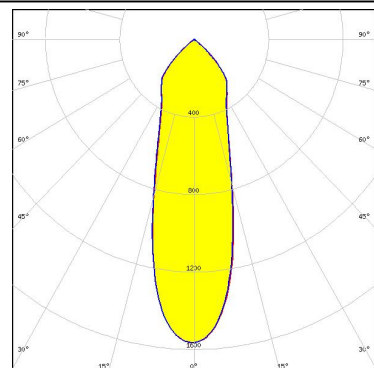
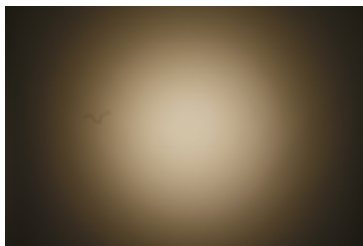
PHOTOMETRIC DATA (MEASURED):



LED V22 Gen6
FWHM 31.0°
Efficiency 91 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2

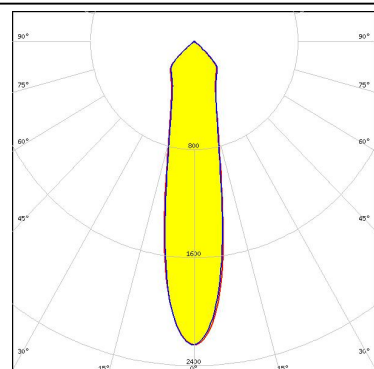
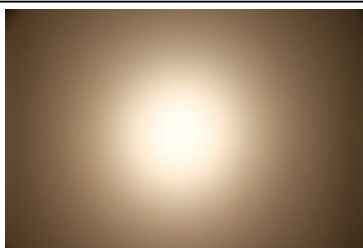


LED V22 Gen7
FWHM 31.0°
Efficiency 91 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



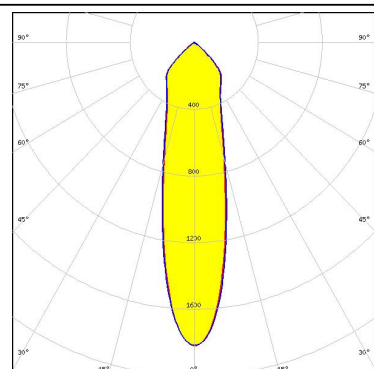
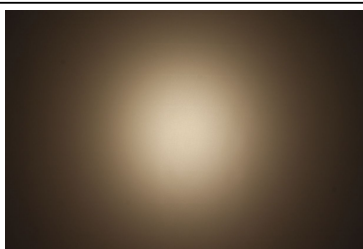
CITIZEN

LED CLL03x/CLU03x
FWHM 22.0°
Efficiency 94 %
Peak intensity 2.250 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8101/G2



CITIZEN

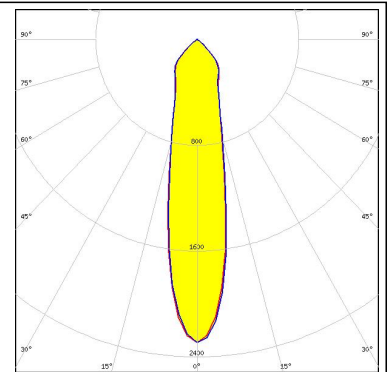
LED CLL03x/CLU03x
FWHM 25.0°
Efficiency 89 %
Peak intensity 1.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101/G2



PHOTOMETRIC DATA (MEASURED):

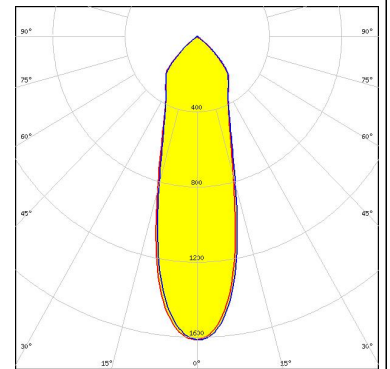
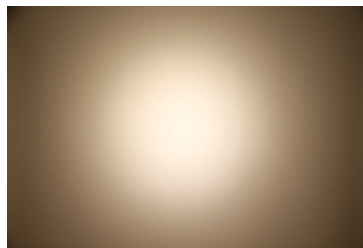
CITIZEN

LED CLL03x/CLU03x
FWHM 23.0°
Efficiency 92 %
Peak intensity 2.150 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



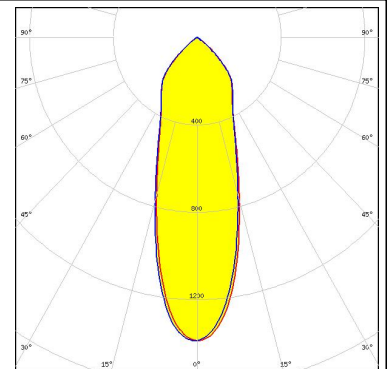
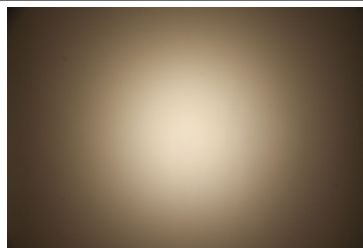
CITIZEN

LED CLL04x/CLU04x
FWHM 30.0°
Efficiency 92 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2



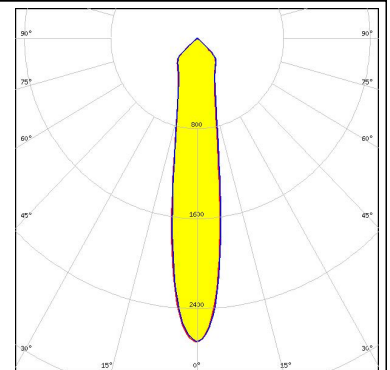
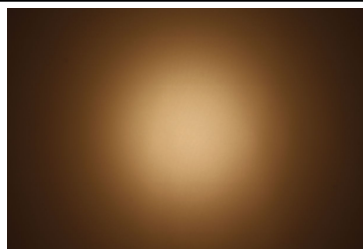
CITIZEN

LED CLL04x/CLU04x
FWHM 33.0°
Efficiency 88 %
Peak intensity 1.390 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGLE-RZ-LENS
A.A.G. STUCCHI: 8102/G2



CITIZEN

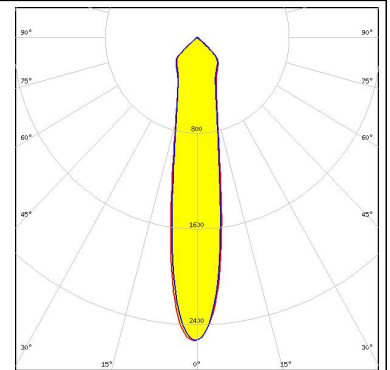
LED CLU720/721
FWHM 19.0°
Efficiency 94 %
Peak intensity 2.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



PHOTOMETRIC DATA (MEASURED):

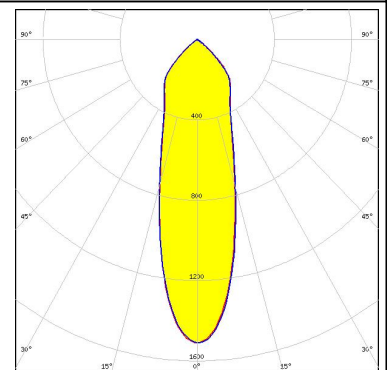
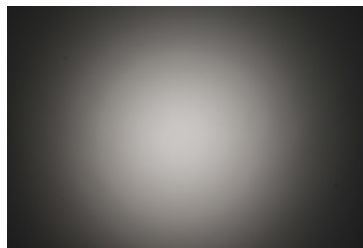
CITIZEN

LED CLU720/721
 FWHM 19.0°
 Efficiency 94 %
 Peak intensity 2.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101/G2



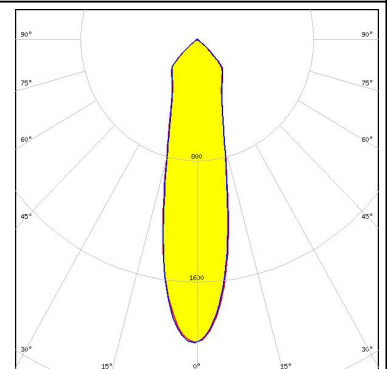
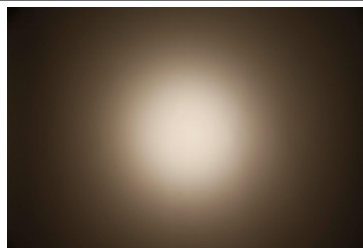
CREE

LED CXA/B 25xx
 FWHM 30.0°
 Efficiency 88 %
 Peak intensity 1.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2141



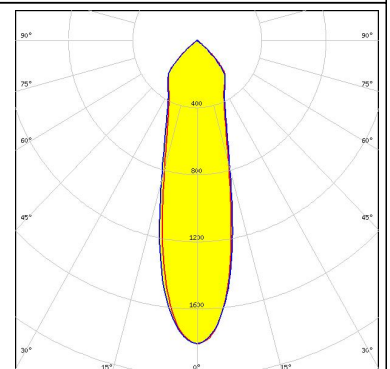
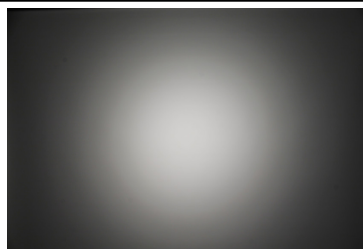
CREE

LED CXA/B 25xx
 FWHM 25.0°
 Efficiency 93 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8401/G2



CREE

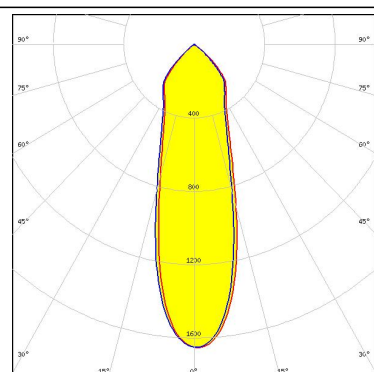
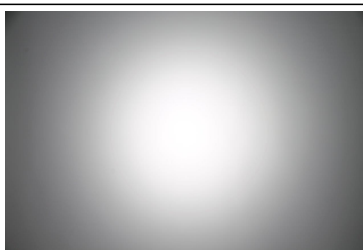
LED CXA/B 25xx
 FWHM 27.0°
 Efficiency 92 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2141



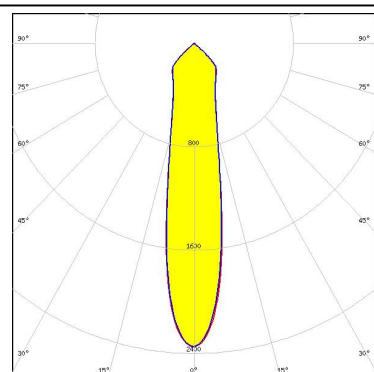
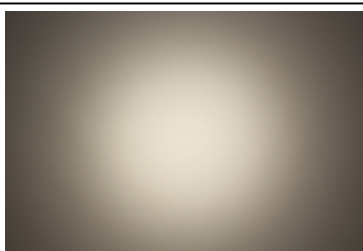
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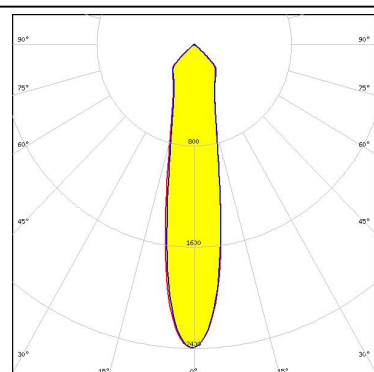
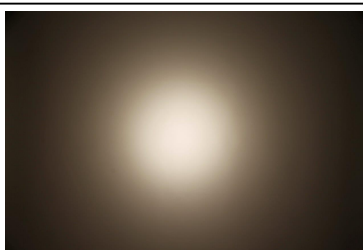
LED CXA/B 30xx
FWHM 30.0°
Efficiency 92 %
Peak intensity 1.660 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8404/G2



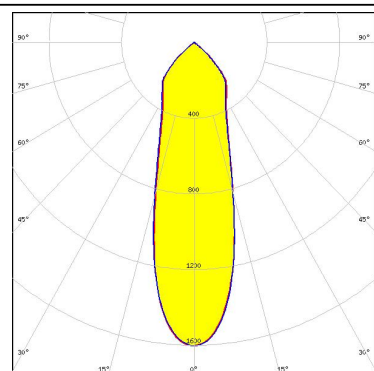
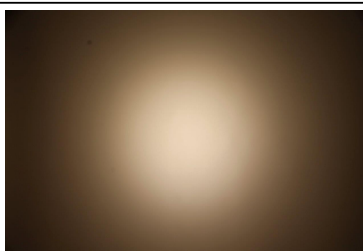
LED COB 10W/13W/17W/24W
FWHM 21.0°
Efficiency 93 %
Peak intensity 2.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2080



LED COB 10W/13W/17W/24W
FWHM 21.0°
Efficiency 94 %
Peak intensity 2.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8600/G2



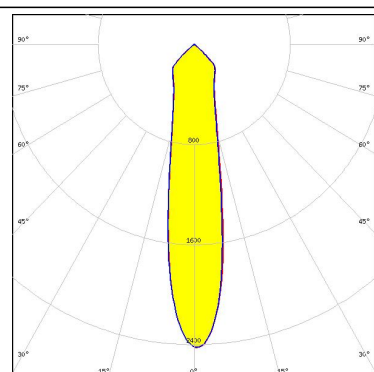
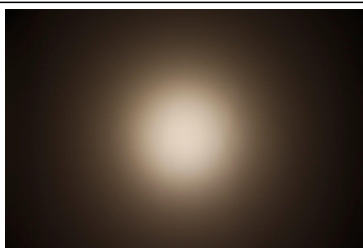
LED COB 40W/60W
FWHM 31.0°
Efficiency 92 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2



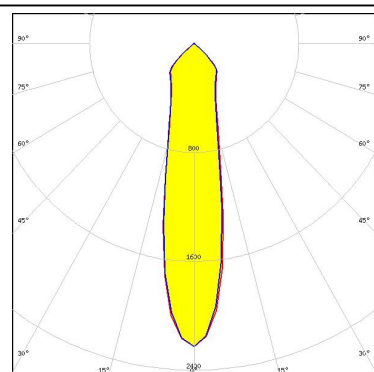
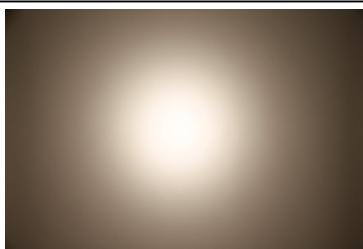
PHOTOMETRIC DATA (MEASURED):



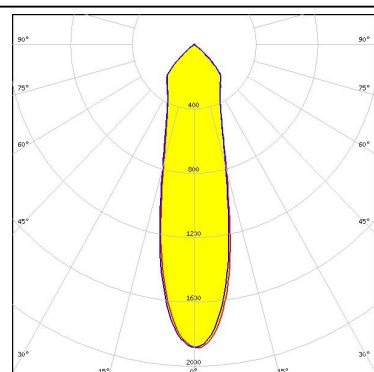
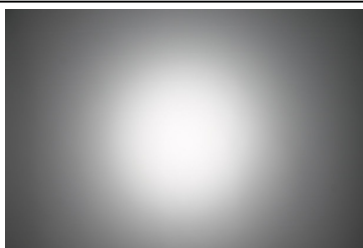
LED LUXEON CoB 1204/1205
 FWHM 21.0°
 Efficiency 94 %
 Peak intensity 2.430 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8301/G2



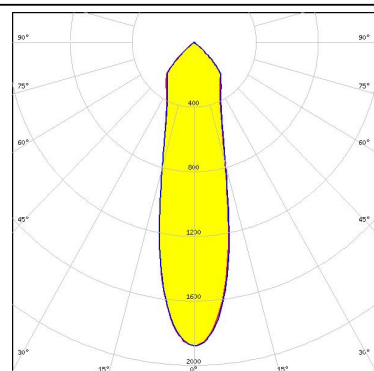
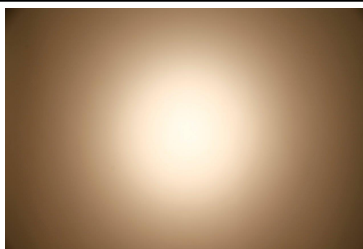
LED LUXEON CoB 1208
 FWHM 23.0°
 Efficiency 94 %
 Peak intensity 2.230 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8301/G2



LED LUXEON CoB 1211
 FWHM 26.0°
 Efficiency 92 %
 Peak intensity 1.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



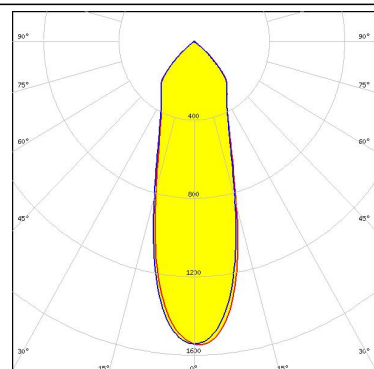
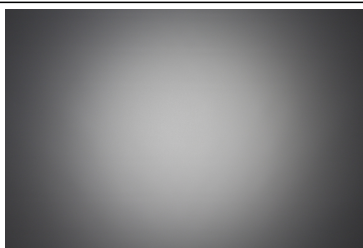
LED LUXEON CoB 1211
 FWHM 26.0°
 Efficiency 92 %
 Peak intensity 1.880 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102/G2



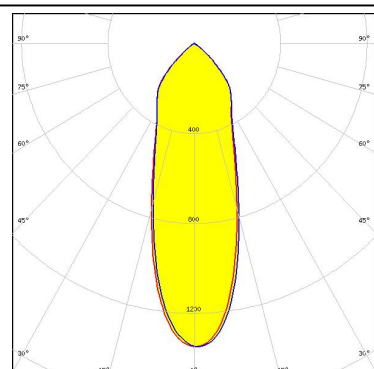
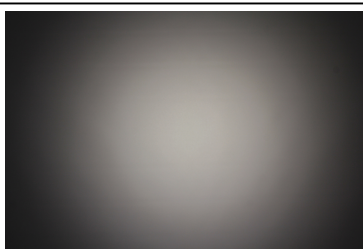
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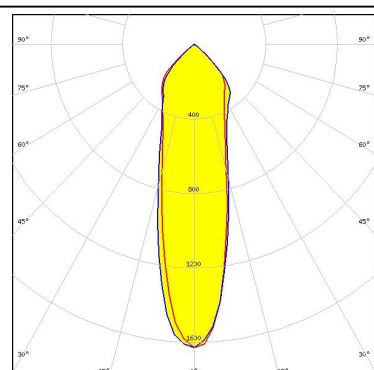
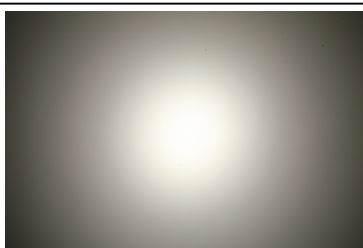
LED LUXEON CoB 1216/1812
FWHM 32.0°
Efficiency 91 %
Peak intensity 1.550 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



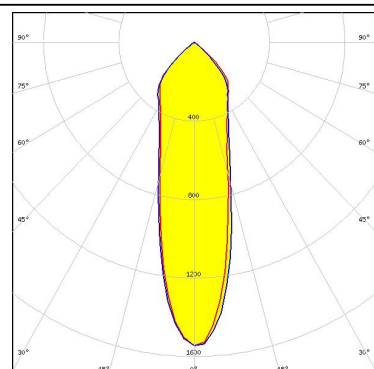
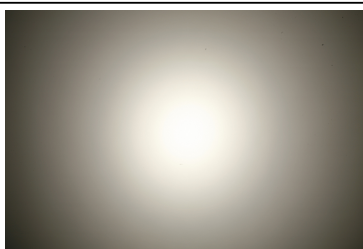
LED LUXEON CoB 1216/1812
FWHM 34.0°
Efficiency 88 %
Peak intensity 1.350 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030



LED LUXEON K12
FWHM 27.0°
Efficiency 89 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2070



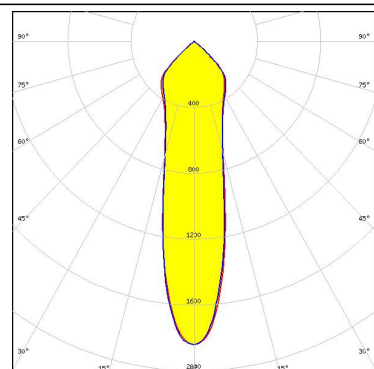
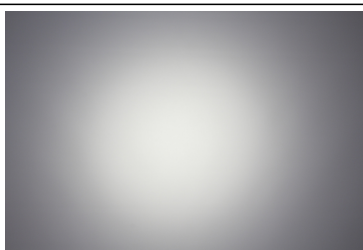
LED LUXEON K16
FWHM 29.0°
Efficiency 89 %
Peak intensity 1.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2070



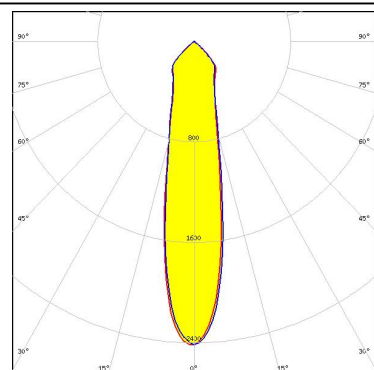
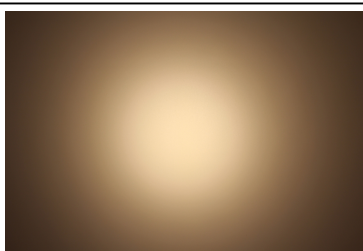
PHOTOMETRIC DATA (MEASURED):



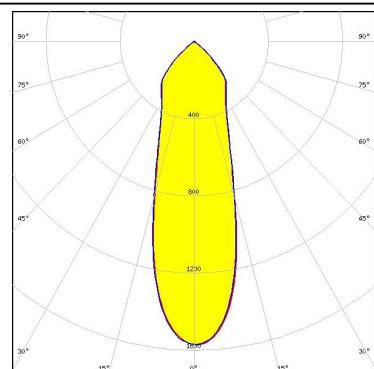
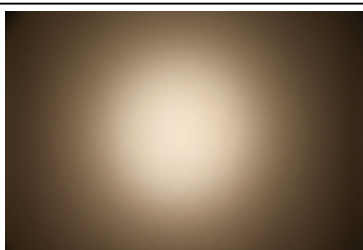
LED LUXEON K16
FWHM 24.0°
Efficiency 94 %
Peak intensity 1.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2070



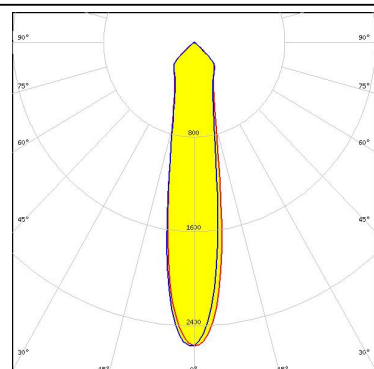
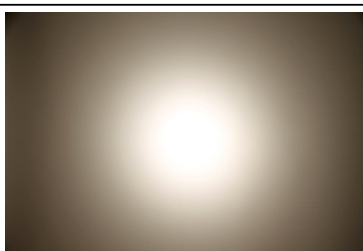
LED CxM-14 (19x19)
FWHM 23.0°
Efficiency 94 %
Peak intensity 2.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



LED CxM-22 (28x28)
FWHM 32.0°
Efficiency 92 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



LED Soleriq S13
FWHM 20.0°
Efficiency 94 %
Peak intensity 2.580 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8502/G2

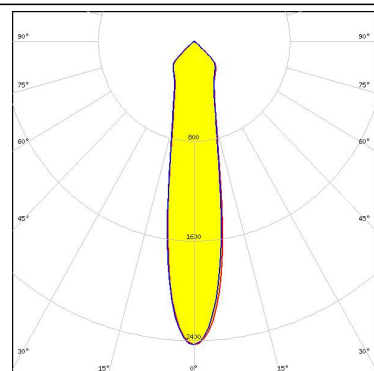


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

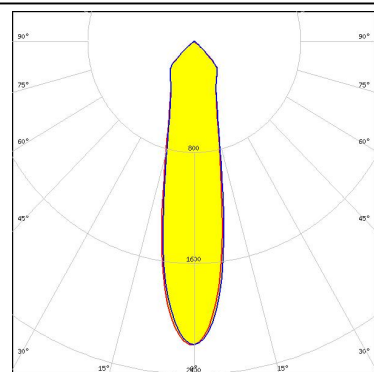
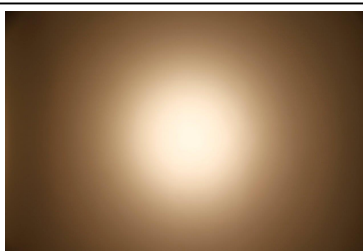
LED Soleriq S13 19x19
FWHM 20.0°
Efficiency 92 %
Peak intensity 2.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



OSRAM

Opto Semiconductors

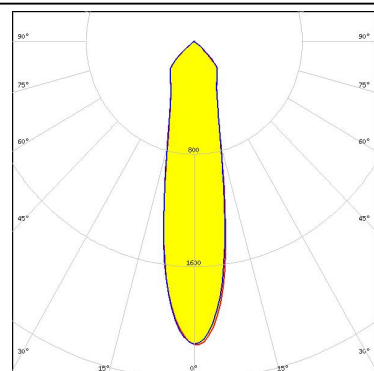
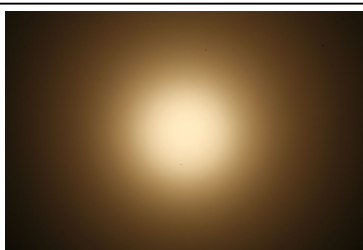
LED Soleriq S19
FWHM 23.0°
Efficiency 94 %
Peak intensity 2.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8503/G2



OSRAM

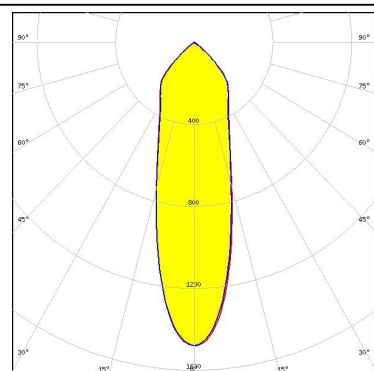
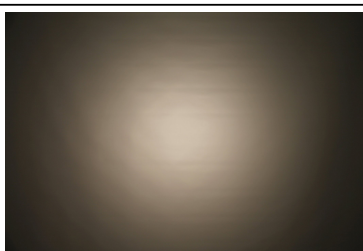
Opto Semiconductors

LED Soleriq S19
FWHM 23.0°
Efficiency 94 %
Peak intensity 2.160 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2170



PHILIPS

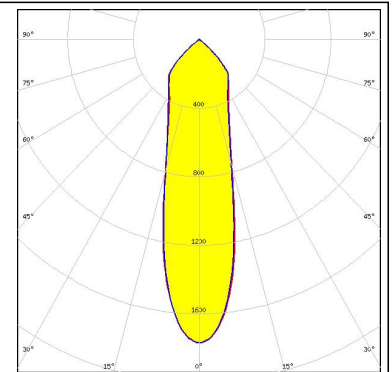
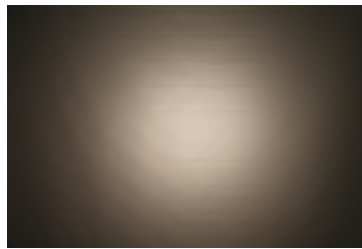
LED Fortimo SLM L19 CoB
FWHM 30.0°
Efficiency 88 %
Peak intensity 1.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030



PHOTOMETRIC DATA (MEASURED):

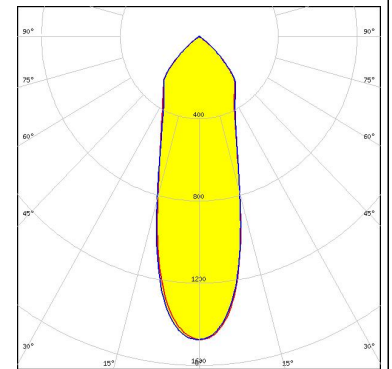
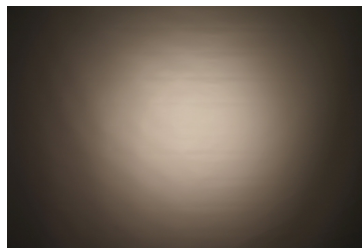
PHILIPS

LED Fortimo SLM L19 CoB
 FWHM 27.0°
 Efficiency 93 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



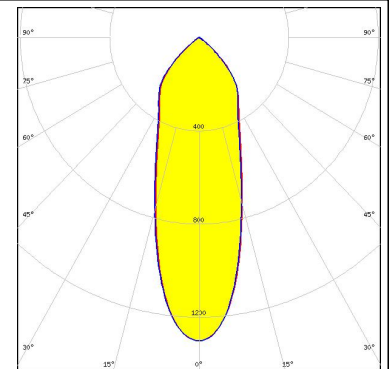
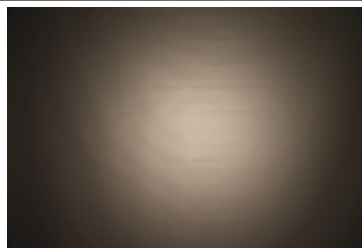
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM 32.0°
 Efficiency 93 %
 Peak intensity 1.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2030



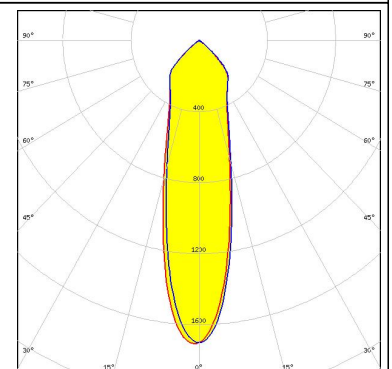
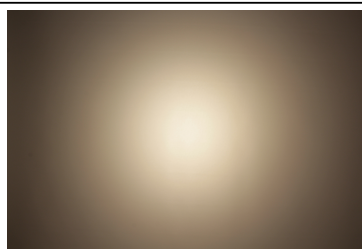
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM 34.0°
 Efficiency 88 %
 Peak intensity 1.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



SAMSUNG

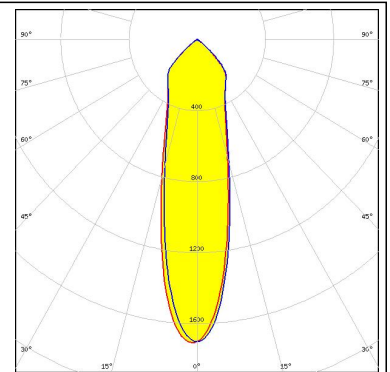
LED COB D Series LES 14.5 mm
 FWHM 27.0°
 Efficiency 89 %
 Peak intensity 1.710 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2021



PHOTOMETRIC DATA (MEASURED):

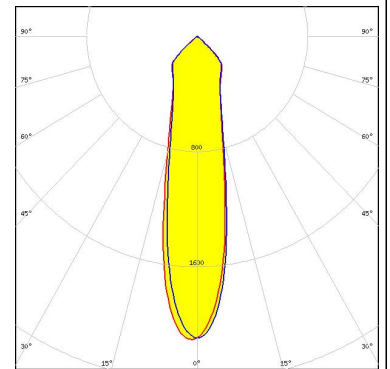
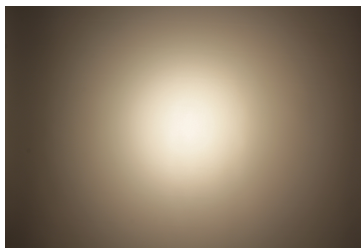
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 27.0°
 Efficiency 89 %
 Peak intensity 1.710 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8101/G2



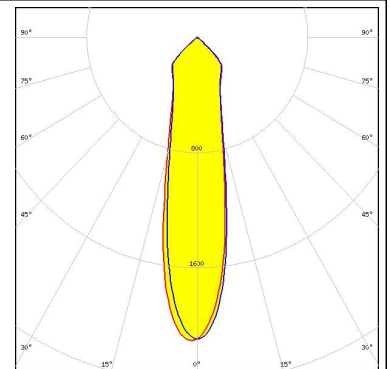
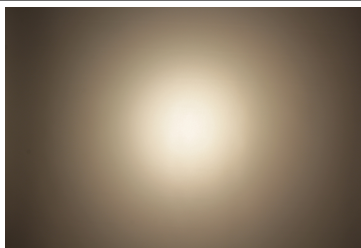
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 24.0°
 Efficiency 93 %
 Peak intensity 2.110 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



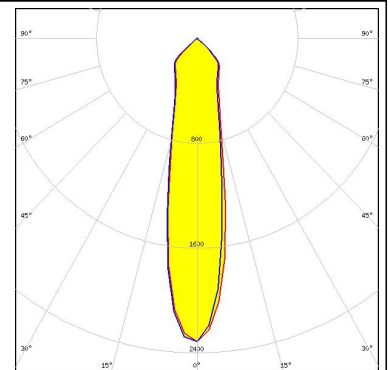
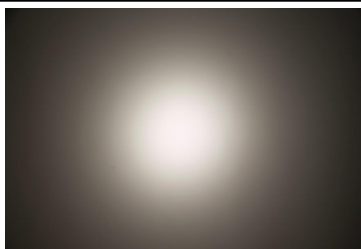
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 24.0°
 Efficiency 93 %
 Peak intensity 2.110 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101/G2

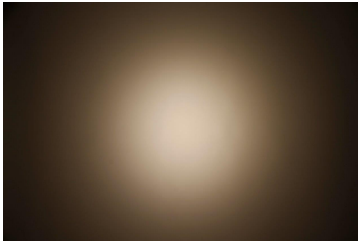
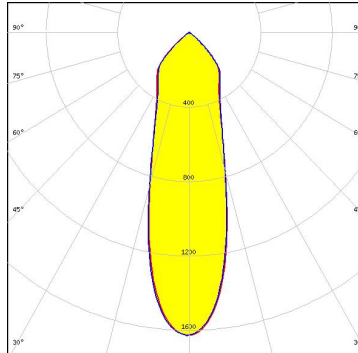
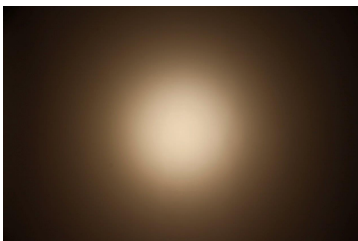
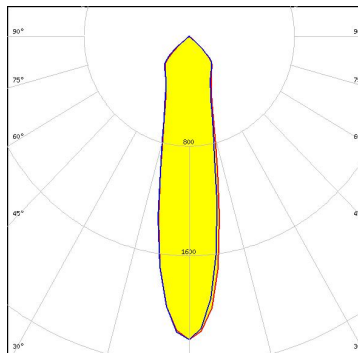
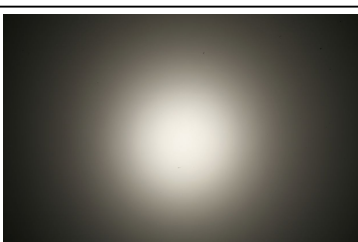
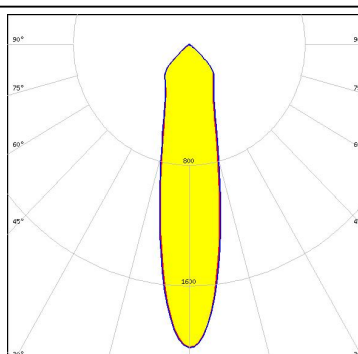
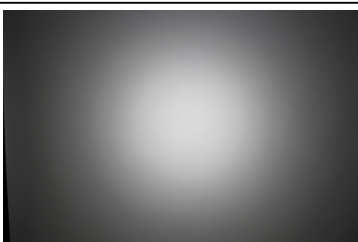
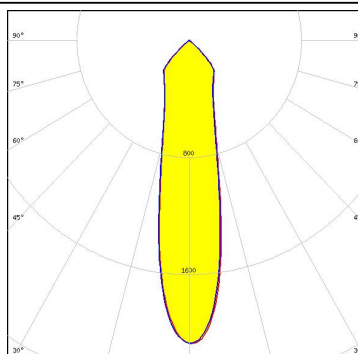


SEOUL SEMICONDUCTOR

LED ZC12/18
 FWHM 22.0°
 Efficiency 93 %
 Peak intensity 2.330 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101/G2



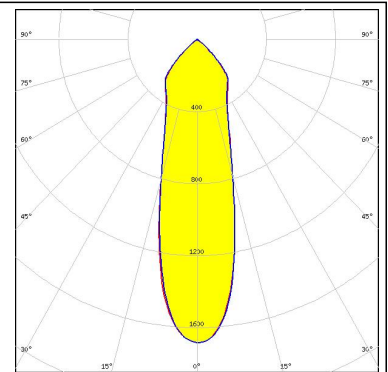
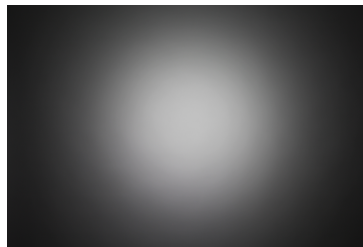
PHOTOMETRIC DATA (MEASURED):

| | | |
|---|--|---|
| <p>SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60</p> <p>FWHM 30.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.630 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 23.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 2.210 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 23.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.000 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> |  |  |
| <p>TRIDONIC</p> <p>LED SLE G7 LES17 H</p> <p>FWHM 24.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.100 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |

PHOTOMETRIC DATA (MEASURED):

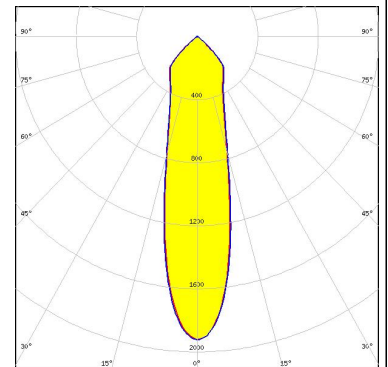
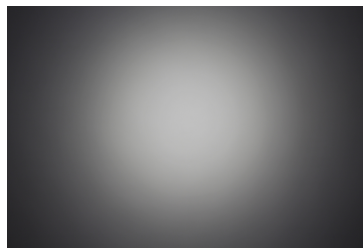
TRIDONIC

LED SLE G7 LES21 H
FWHM 29.0°
Efficiency 91 %
Peak intensity 1.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



XICATO

LED XTM - 19mm LES
FWHM 25.0°
Efficiency 93 %
Peak intensity 1.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15743_XTM-ADAPTER-50-B



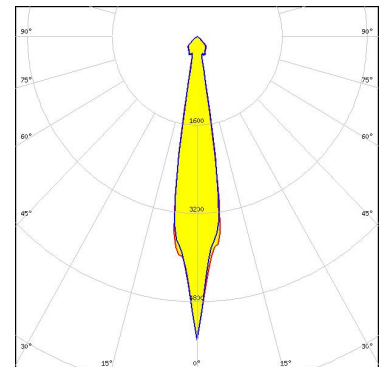
PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED CLL04x/CLU04x
FWHM 22.0°
Efficiency 95 %
Peak intensity 3.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030

CITIZEN

LED CLU730/731
FWHM 16.0°
Efficiency 92 %
Peak intensity 5.490 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030

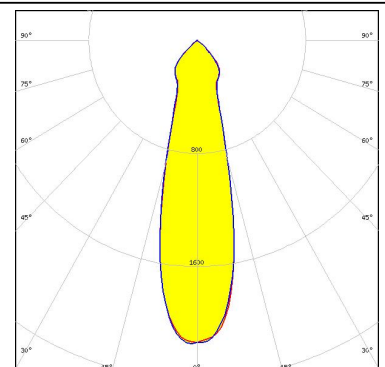


LUMILEDS

LED LUXEON K12
FWHM 15.0°
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2070

SAMSUNG

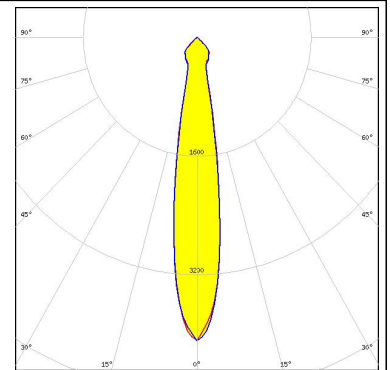
LED COB D Series LES 22 mm
FWHM 27.0°
Efficiency 90 %
Peak intensity 2.150 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



PHOTOMETRIC DATA (SIMULATED):

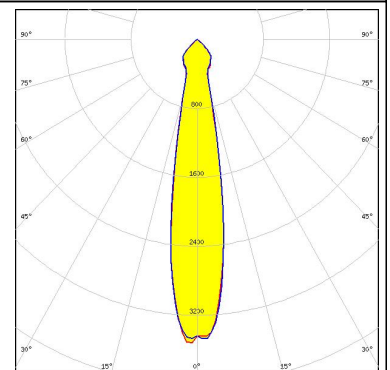
TRIDONIC

LED SLE G6 LES15 H D50
 FWHM 17.0°
 Efficiency 92 %
 Peak intensity 4.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



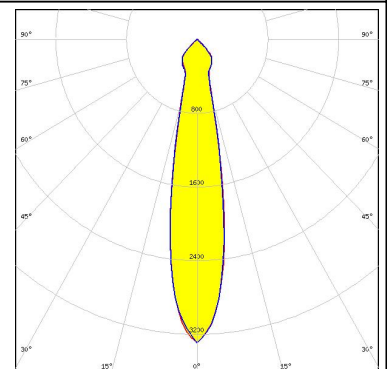
TRIDONIC

LED SLE G6 LES17 H
 FWHM 19.0°
 Efficiency 91 %
 Peak intensity 3.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



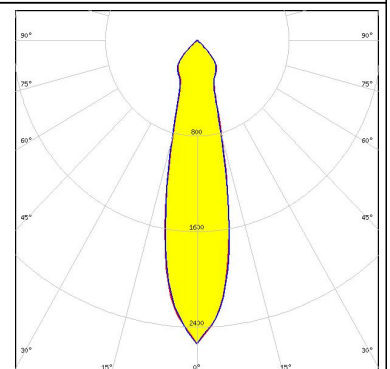
TRIDONIC

LED SLE G6 LES19 H
 FWHM 20.0°
 Efficiency 91 %
 Peak intensity 3.290 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



TRIDONIC

LED SLE G6 LES23 H
 FWHM 24.0°
 Efficiency 91 %
 Peak intensity 2.540 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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where_to_buy](http://www.ledil.com/where_to_buy)

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