

ANGELA-W-B

~45° wide beam compatible with BJB and B+W connectors

SPECIFICATION:

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

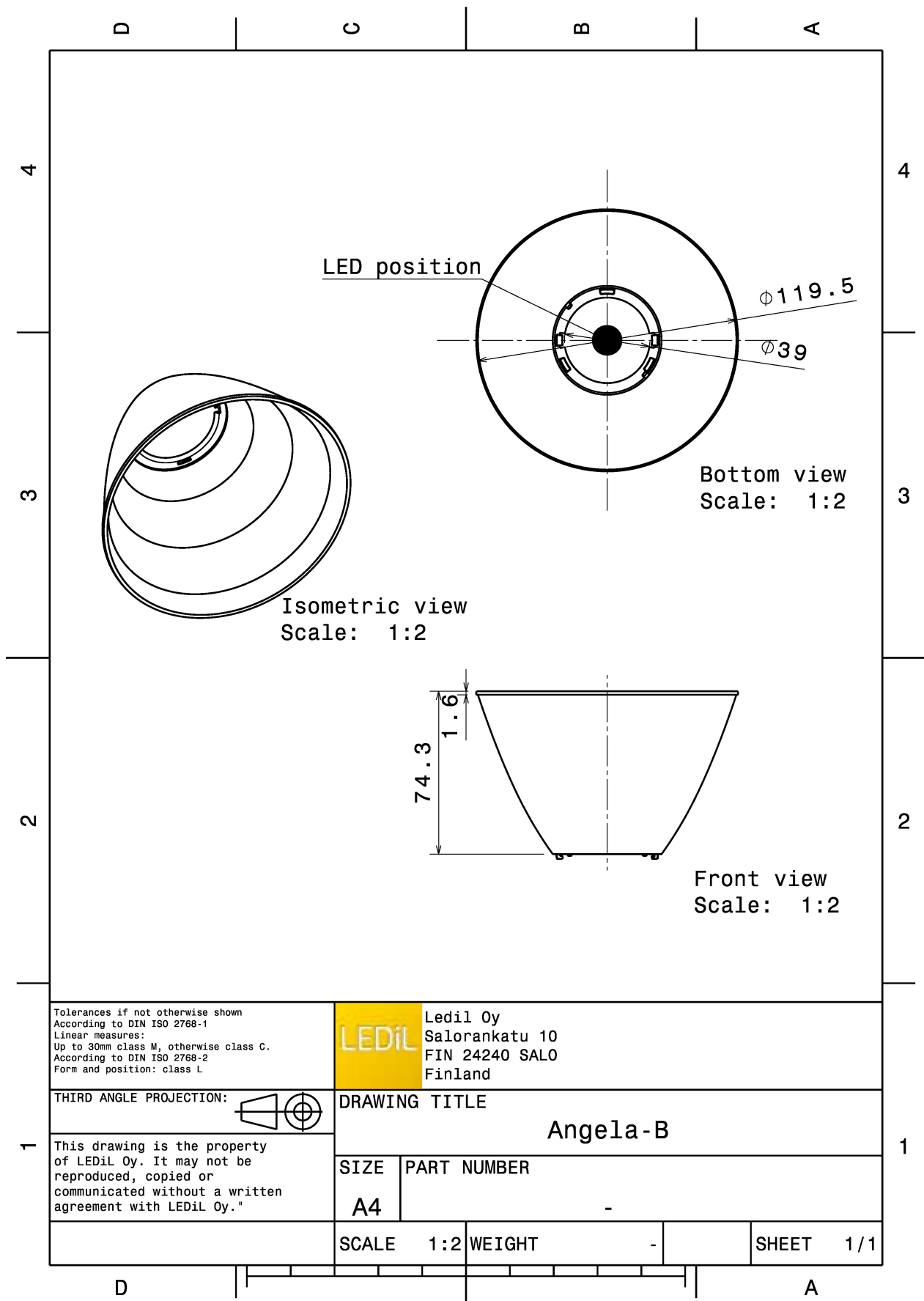


MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13664_ANGLEA-W-B » Box size: 398 x 298 x 265 mm	180	90	45	9.1

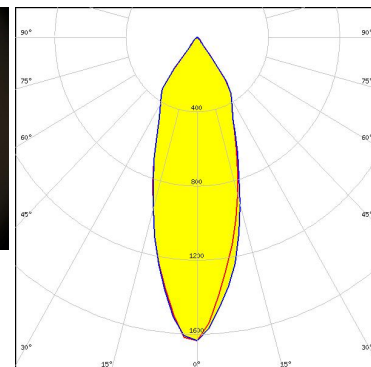
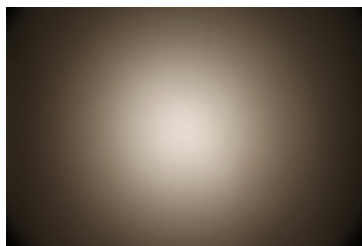


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



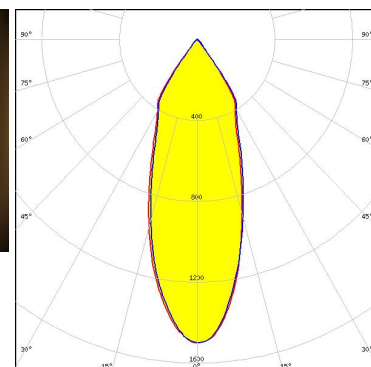
LED BXRA ES Rectangle
FWHM / FWTM 34.0° / 75.0°
Efficiency 83 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2040



Light distribution files



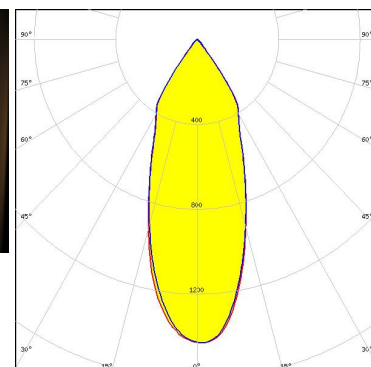
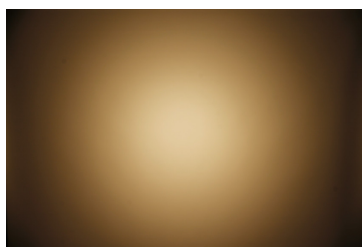
LED V15 Gen6
FWHM / FWTM 37.0° / 75.0°
Efficiency 81 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2224



Light distribution files



LED V18 Gen6
FWHM / FWTM 38.0° / 76.0°
Efficiency 81 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

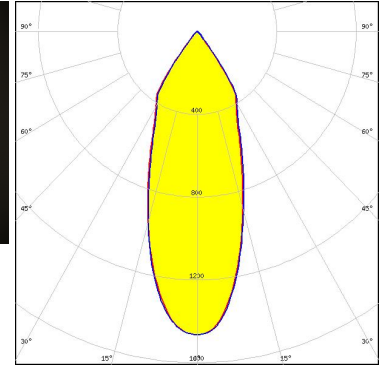


Light distribution files

OPTICAL RESULTS (MEASURED):



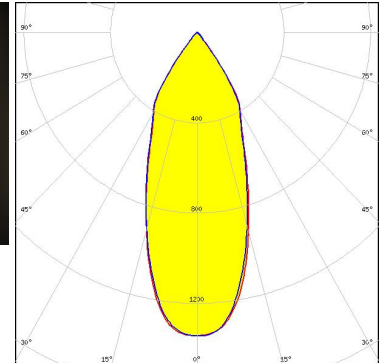
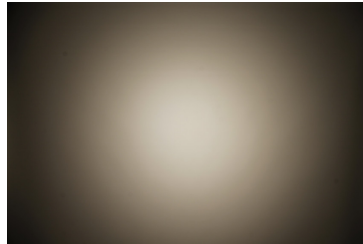
LED V18 Gen7
FWHM / FWTM 38.0° / 76.0°
Efficiency 82 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2350



Light distribution files



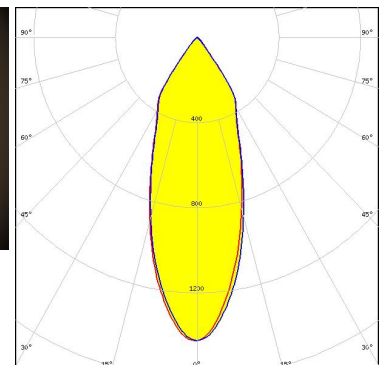
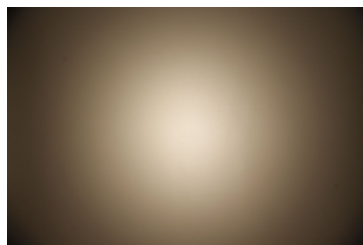
LED V22 Gen6
FWHM / FWTM 40.0° / 76.0°
Efficiency 80 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 37.0° / 76.0°
Efficiency 78 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGLE-RZ-LENS
A.A.G. STUCCHI: 8101-G2

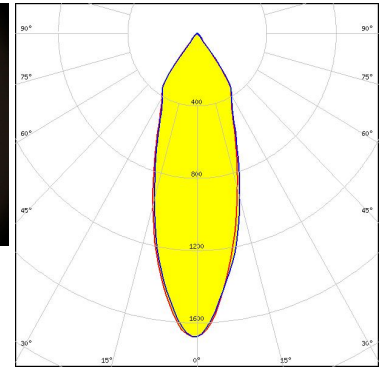
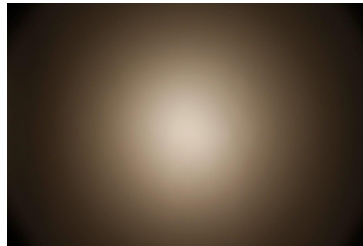


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

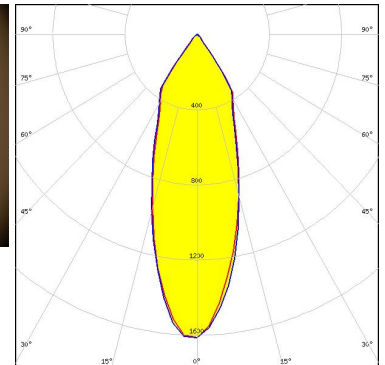
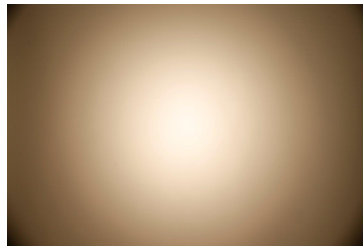
LED CLL03x/CLU03x
FWHM / FWTM 33.0° / 75.0°
Efficiency 83 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



Light distribution files

CITIZEN

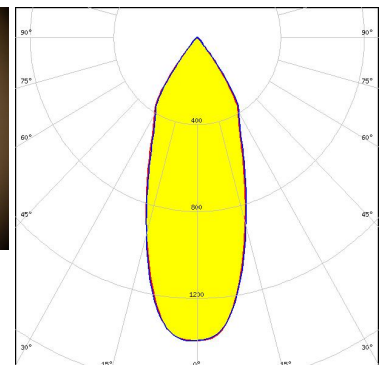
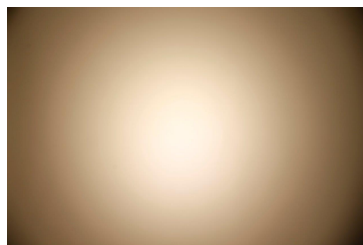
LED CLL03x/CLU03x
FWHM / FWTM 34.0° / 75.0°
Efficiency 83 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8101-G2



Light distribution files

CITIZEN

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

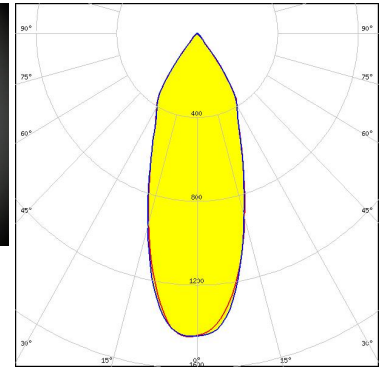
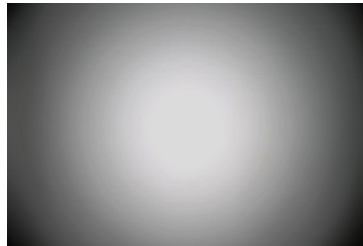


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

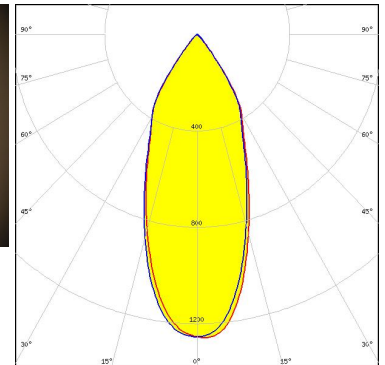
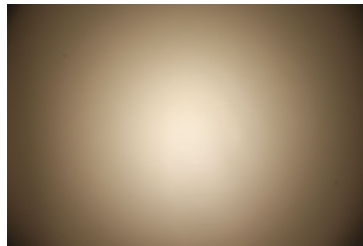
LED CLL04x/CLU04x
 FWHM / FWTM 38.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030



Light distribution files

CITIZEN

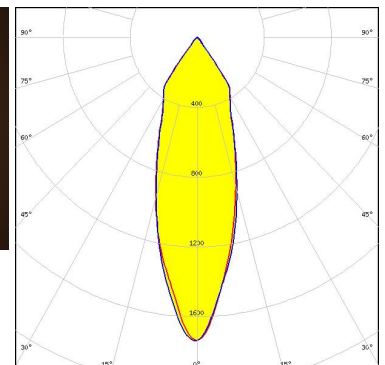
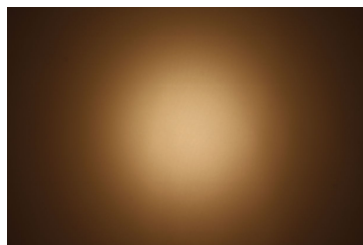
LED CLL04x/CLU04x
 FWHM / FWTM 41.0° / 78.0°
 Efficiency 77 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8102-G2



Light distribution files

CITIZEN

LED CLU720/721/723
 FWHM / FWTM 32.0° / 75.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2021

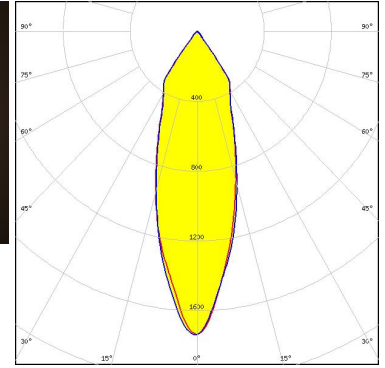
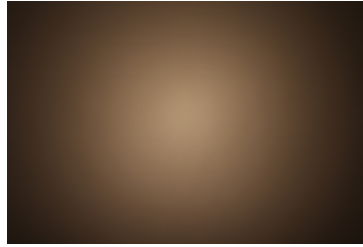


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

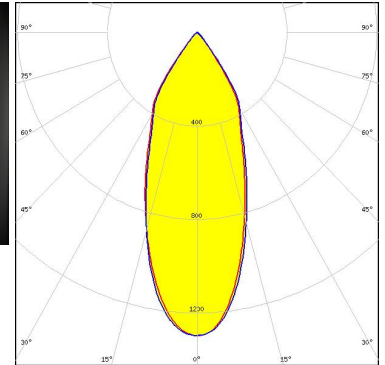
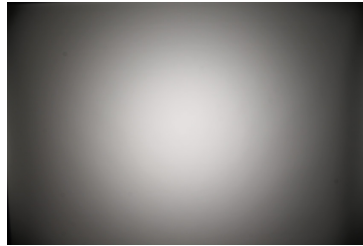
LED CLU720/721/723
FWHM / FWTM 32.0° / 74.0°
Efficiency 84 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8101-G2



Light distribution files



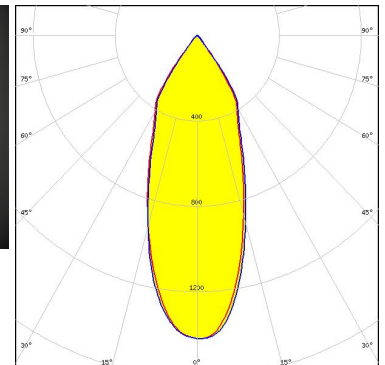
LED CXA/B 25xx
FWHM / FWTM 40.0° / 77.0°
Efficiency 77 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGLE-RZ-LENS
BJB: 47.319.2141



Light distribution files



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

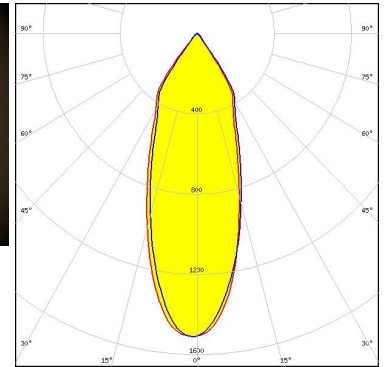
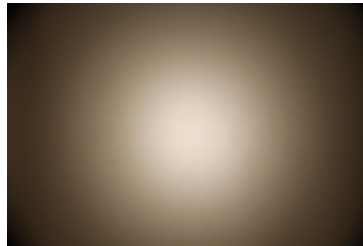


Light distribution files

OPTICAL RESULTS (MEASURED):



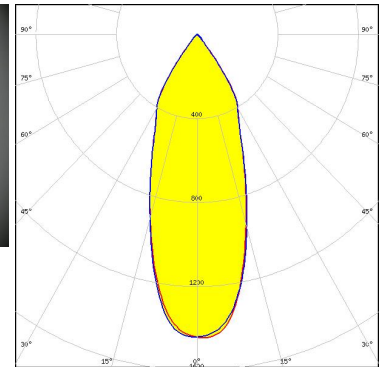
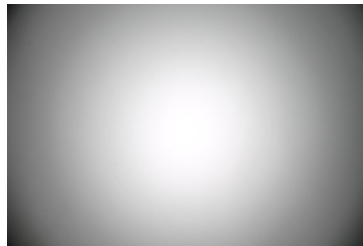
LED CXA/B 25xx
FWHM / FWTM 37.0° / 76.0°
Efficiency 82 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8401-G2



Light distribution files



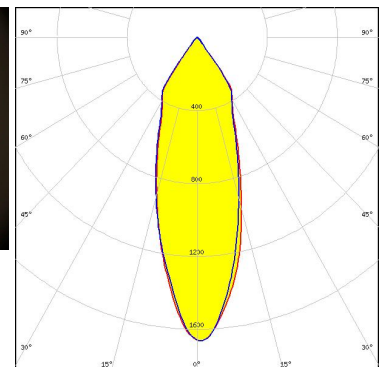
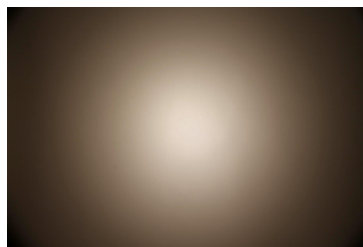
LED CXA/B 30xx
FWHM / FWTM 38.0° / 75.0°
Efficiency 81 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8404-G2



Light distribution files



LED LUXEON CoB 1204/1205
FWHM / FWTM 33.0° / 75.0°
Efficiency 83 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8301-G2

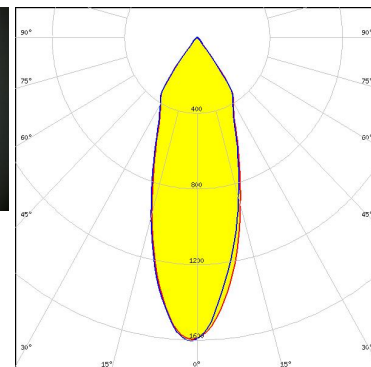
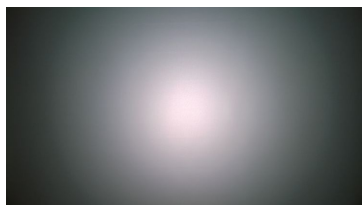


Light distribution files

OPTICAL RESULTS (MEASURED):



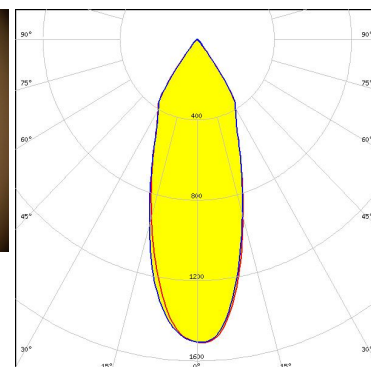
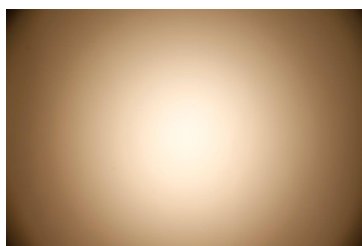
LED LUXEON CoB 1208
 FWHM / FWTM 35.0° / 75.0°
 Efficiency 84 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8301-G2



Light distribution files



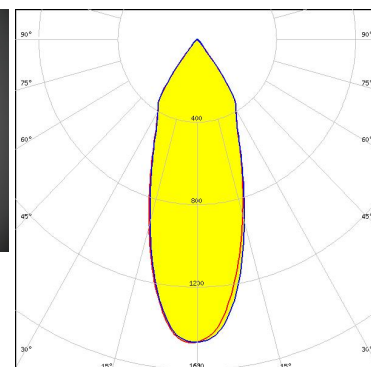
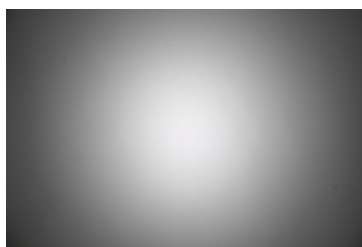
LED LUXEON CoB 1211
 FWHM / FWTM 37.0° / 75.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8102-G2



Light distribution files



LED LUXEON CoB 1211
 FWHM / FWTM 37.0° / 76.0°
 Efficiency 81 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030

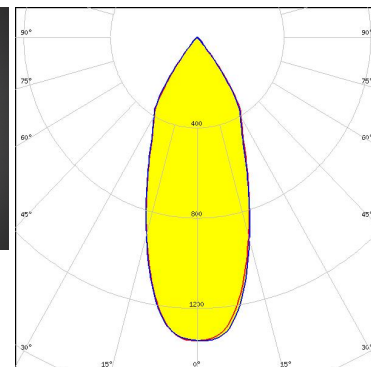
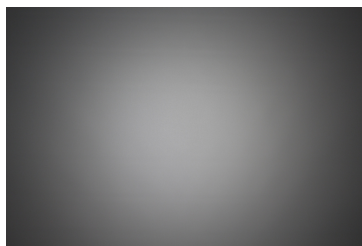


Light distribution files

OPTICAL RESULTS (MEASURED):



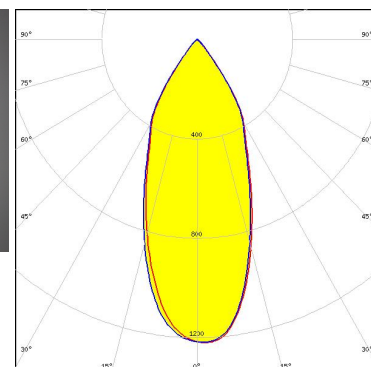
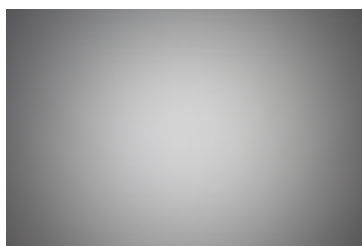
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 40.0° / 76.0°
 Efficiency 80 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



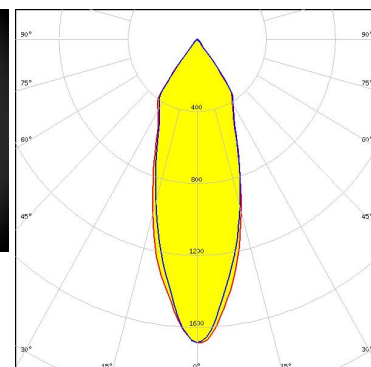
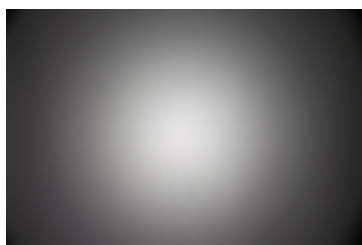
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 42.0° / 78.0°
 Efficiency 76 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



Light distribution files



LED LUXEON K12
 FWHM / FWTM 35.0° / 76.0°
 Efficiency 87 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2070

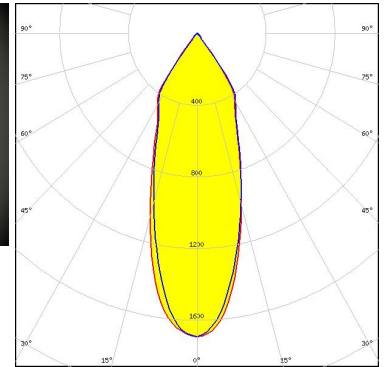
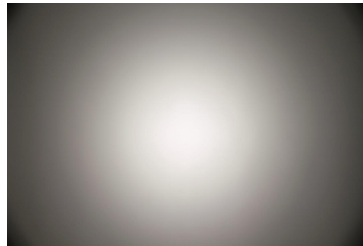


Light distribution files

OPTICAL RESULTS (MEASURED):



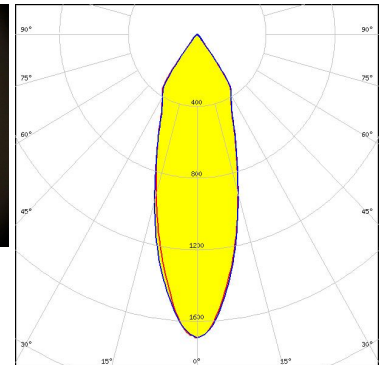
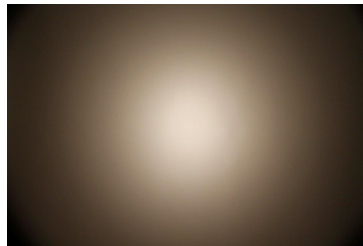
LED LUXEON K16
 FWHM / FWTM 36.0° / 75.0°
 Efficiency 88 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2070



Light distribution files



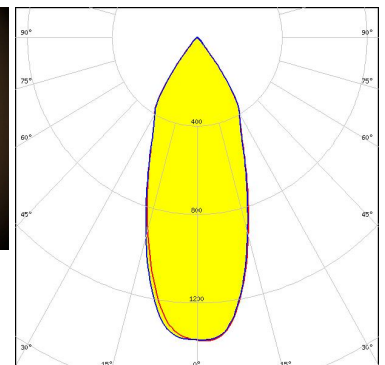
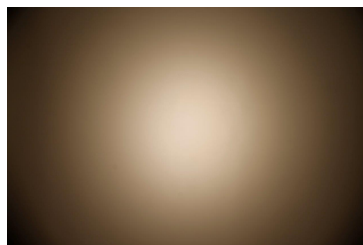
LED CxM-14 (19x19)
 FWHM / FWTM 33.0° / 74.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2021



Light distribution files



LED CxM-22 (28x28)
 FWHM / FWTM 40.0° / 77.0°
 Efficiency 81 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030

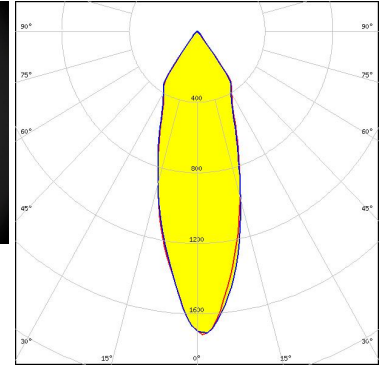
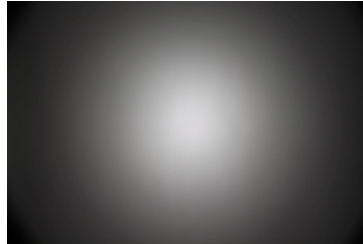


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

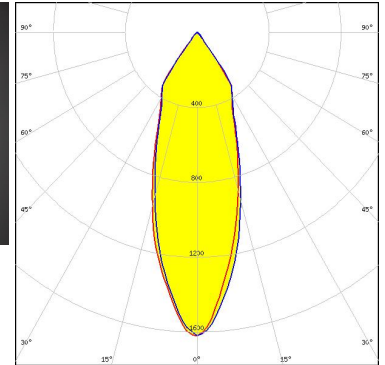
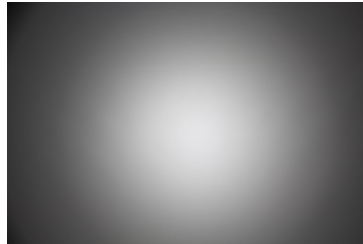
LED Soleriq S13
FWHM / FWTM 33.0° / 75.0°
Efficiency 84 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8502-G2



Light distribution files

OSRAM
Opto Semiconductors

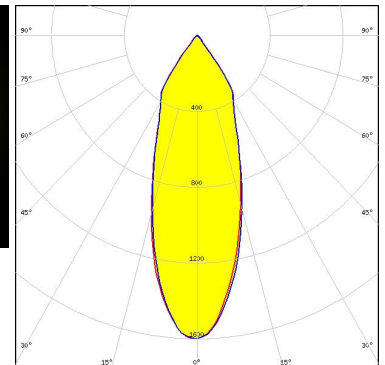
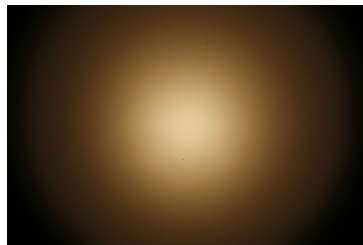
LED Soleriq S13 19x19
FWHM / FWTM 34.0° / 75.0°
Efficiency 81 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



Light distribution files

OSRAM
Opto Semiconductors

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

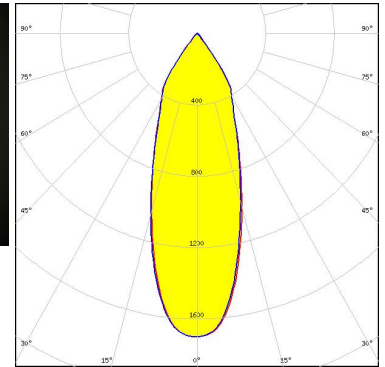
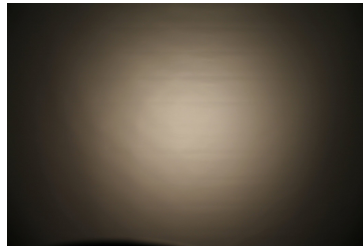


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

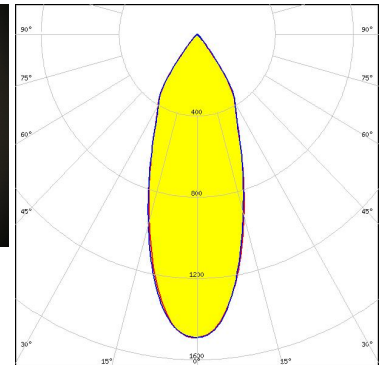
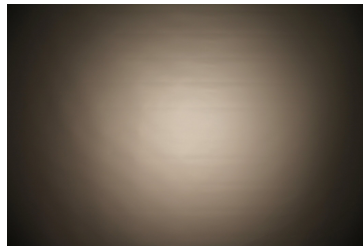
LED Fortimo SLM L19 CoB
 FWHM / FWTM 35.0° / 75.0°
 Efficiency 87 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030



Light distribution files

PHILIPS

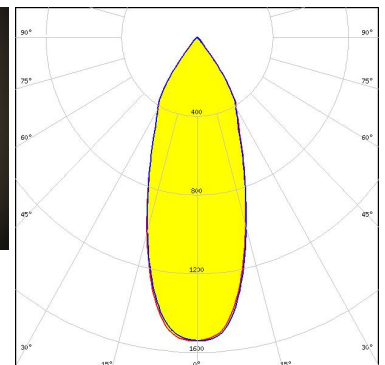
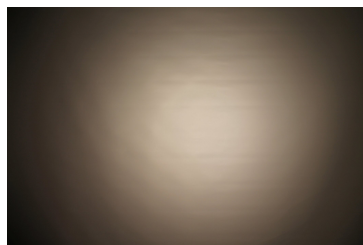
LED Fortimo SLM L19 CoB
 FWHM / FWTM 38.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2030



Light distribution files

PHILIPS

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

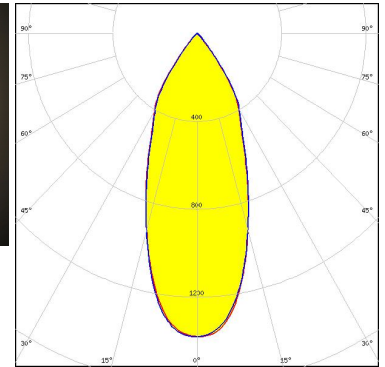
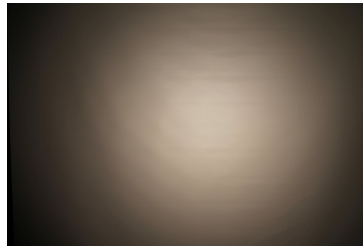


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

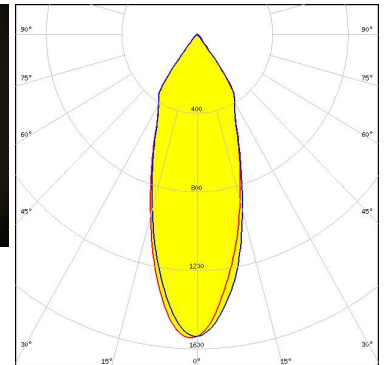
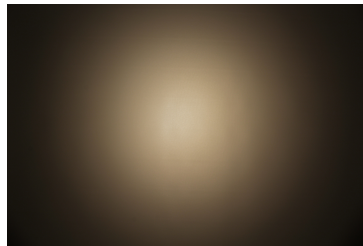
LED Fortimo SLM L23 CoB
 FWHM / FWTM 40.0° / 77.0°
 Efficiency 82 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2030



Light distribution files

SAMSUNG

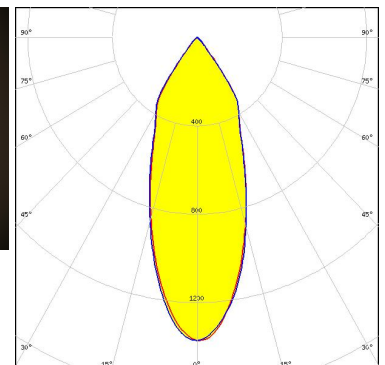
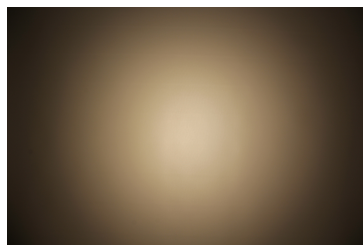
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 36.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8101-G2



Light distribution files

SAMSUNG

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

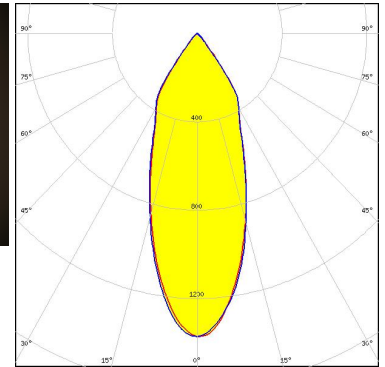
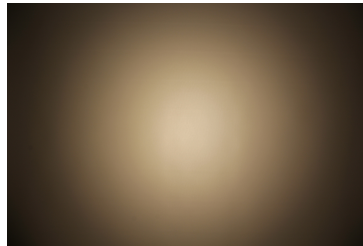


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

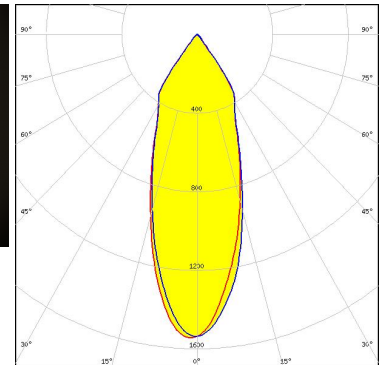
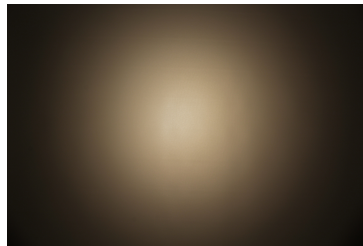
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 38.0° / 77.0°
 Efficiency 79 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGLE-RZ-LENS
 A.A.G. STUCCHI: 8101-G2



Light distribution files

SAMSUNG

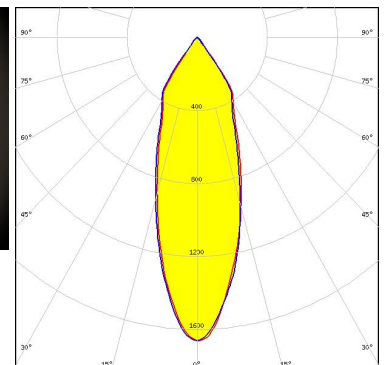
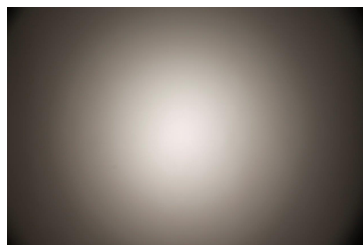
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 36.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2021



Light distribution files



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

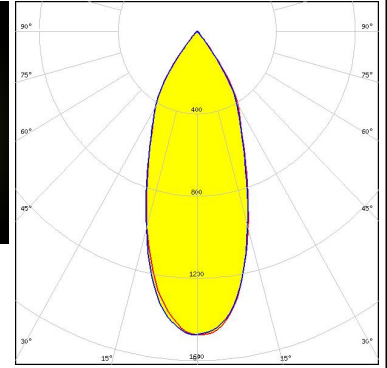


Light distribution files

OPTICAL RESULTS (MEASURED):



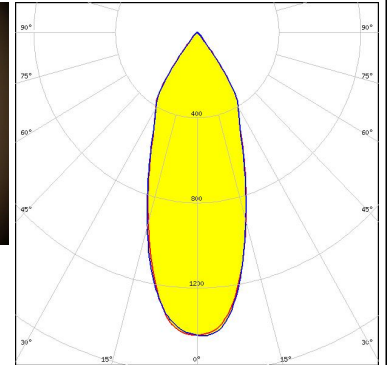
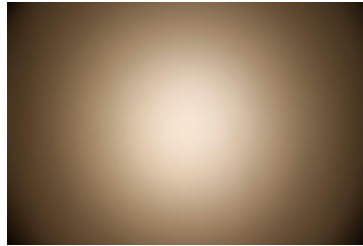
LED ZC25/40/60
FWHM / FWTM 40.0° / 76.0°
Efficiency 82 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2030



Light distribution files



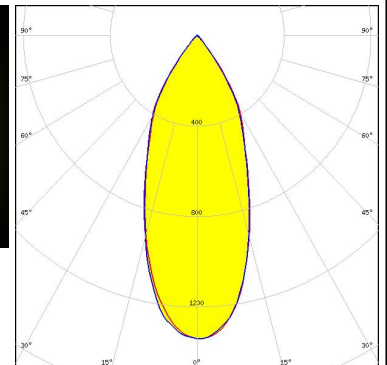
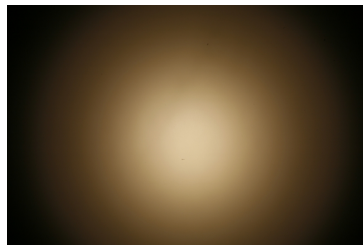
LED ZC25/40/60
FWHM / FWTM 39.0° / 76.0°
Efficiency 82 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8102-G2



Light distribution files



LED ZC25/40/60
FWHM / FWTM 42.0° / 78.0°
Efficiency 79 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGLE-RZ-LENS
BJB: 47.319.2030

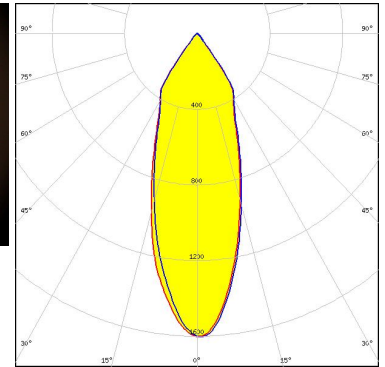
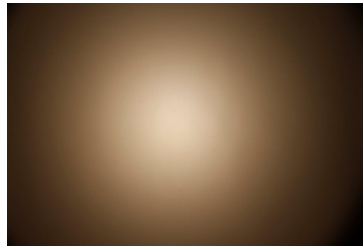


Light distribution files

OPTICAL RESULTS (MEASURED):

SHARP

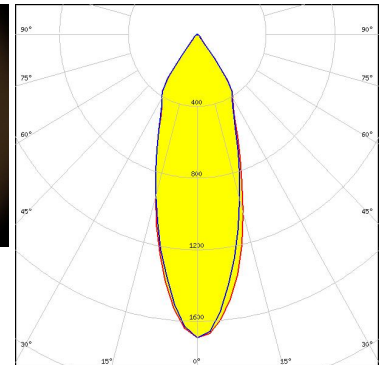
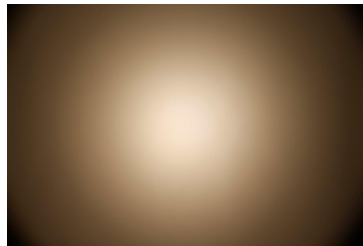
LED Mega Zenigata (GW6DME)
 FWHM / FWTM 35.0° / 75.0°
 Efficiency 84 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8301-G2



Light distribution files

SHARP

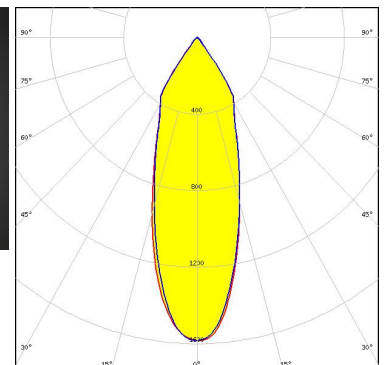
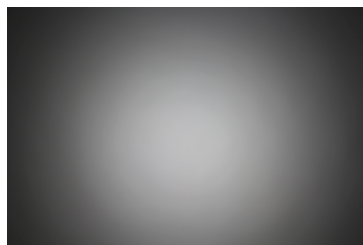
LED Mega Zenigata (GW6DME)
 FWHM / FWTM 34.0° / 75.0°
 Efficiency 85 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2011



Light distribution files

TRIDONIC

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

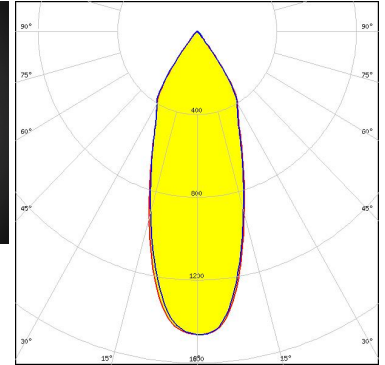


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

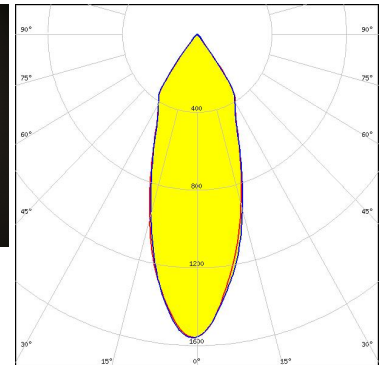
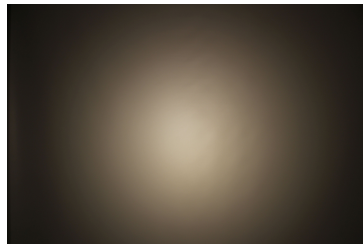
LED SLE G7 LES21 H
FWHM / FWTM 37.0° / 75.0°
Efficiency 81 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

XICATO

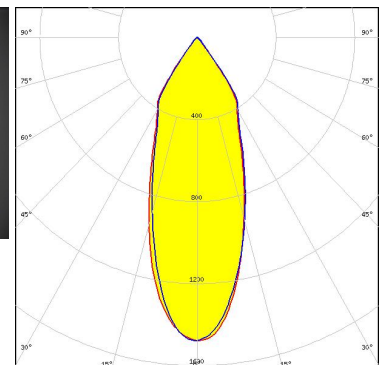
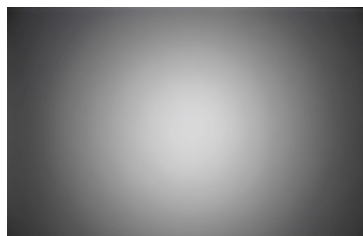
LED XOB 14.5 mm
FWHM / FWTM 36.0° / 75.0°
Efficiency 83 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



Light distribution files

XICATO

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



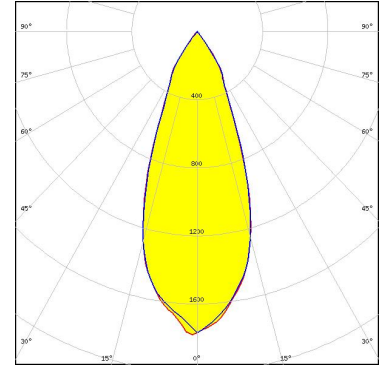
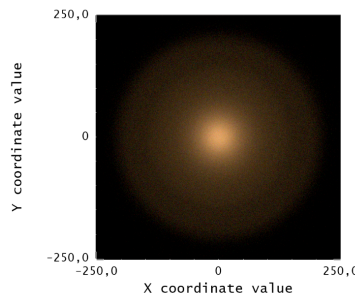
Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

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

BJB: 47.319.2021

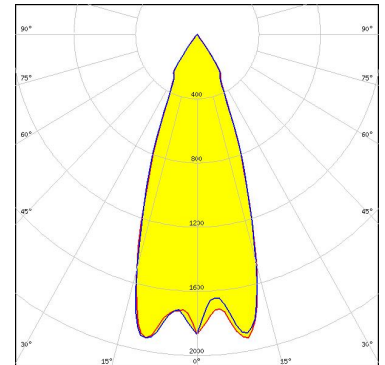


Light distribution files

CITIZEN

LED CLU730/731/733
 FWHM / FWTM 35.0° / 69.0°
 Efficiency 91 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.319.2030

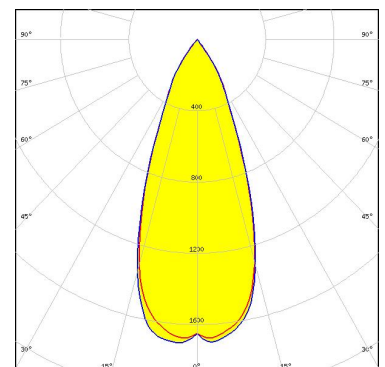


Light distribution files

SAMSUNG

LED LC040D / LC060D / LC080D
 FWHM / FWTM 40.0° / 70.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.319.2030



Light distribution files

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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P.R.CHINA

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where_to_buy](http://www.ledil.com/where_to_buy)

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Hong Kong, China

Distribution Partners

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