

ANGELINA-M-B

~30° medium beam compatible with BJB and B+W connectors

SPECIFICATION:

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

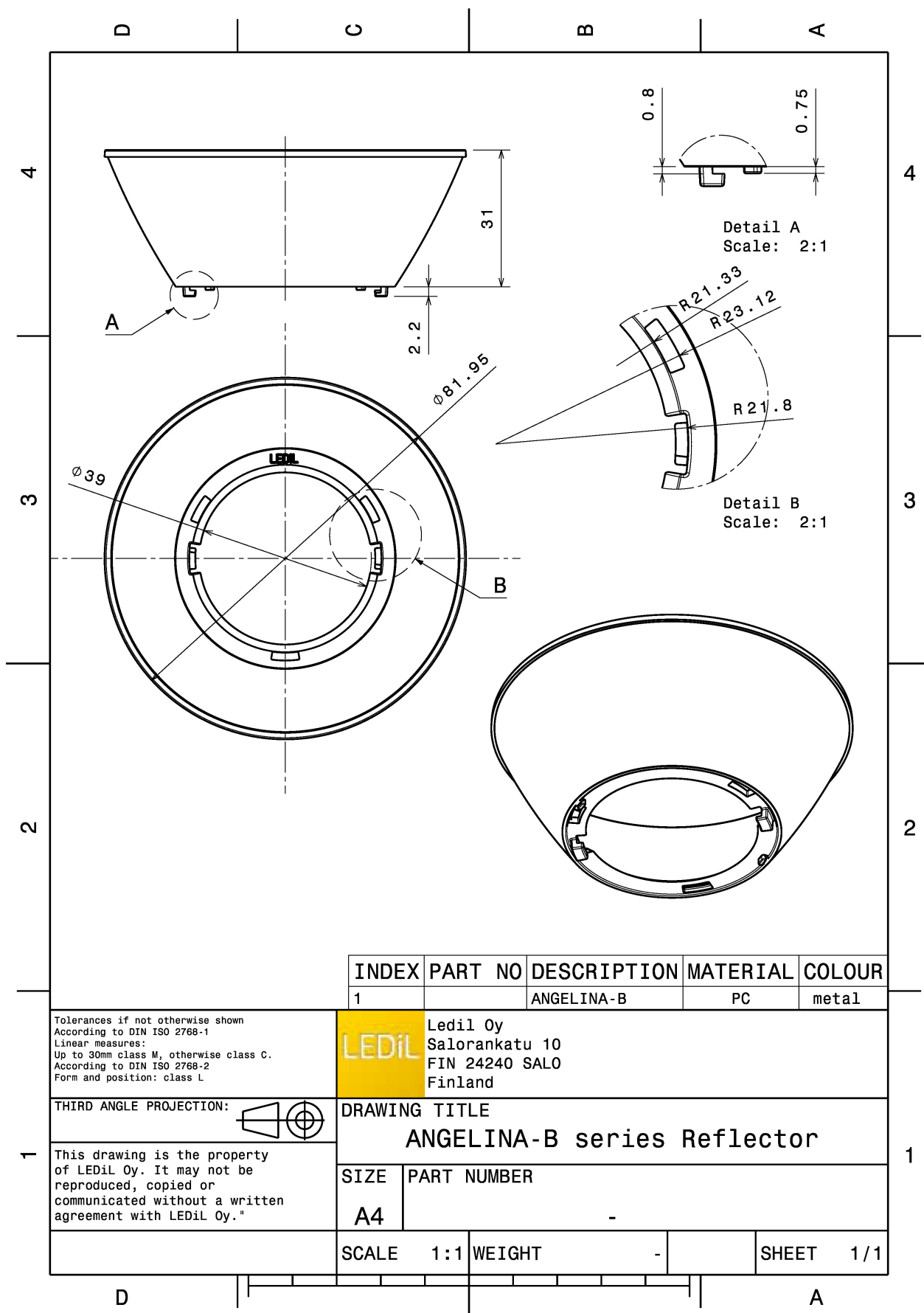


MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13660_ANGELINA-M-B » Box size: 480 x 280 x 300 mm	825	110	55	10.0

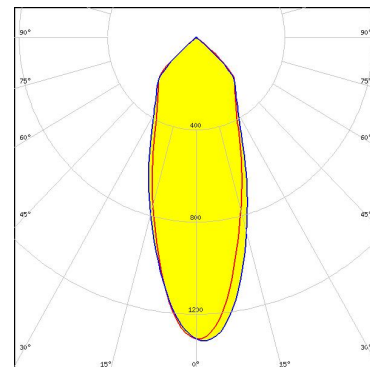


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



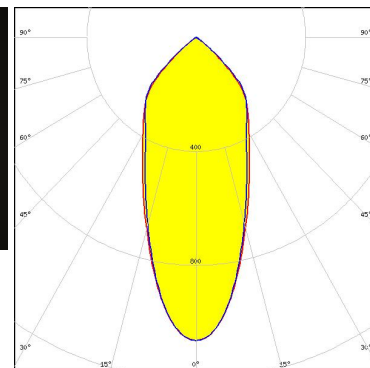
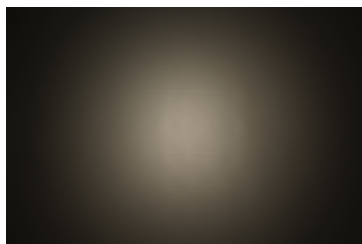
LED BXRA ES Rectangle
FWHM / FWTM 38.0° / 97.0°
Efficiency 92 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2040



Light distribution files



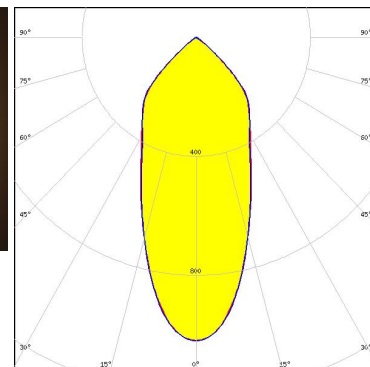
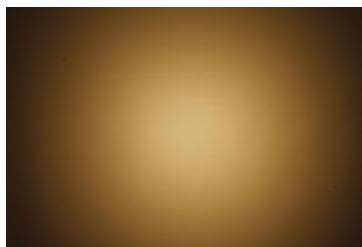
LED V13 Gen7
FWHM / FWTM 42.0° / 99.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2026



Light distribution files



LED V15 Gen6
FWHM / FWTM 45.0° / 99.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2224

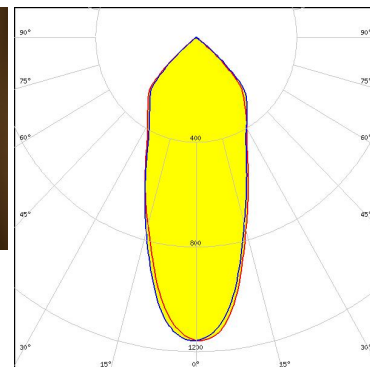


Light distribution files

OPTICAL RESULTS (MEASURED):



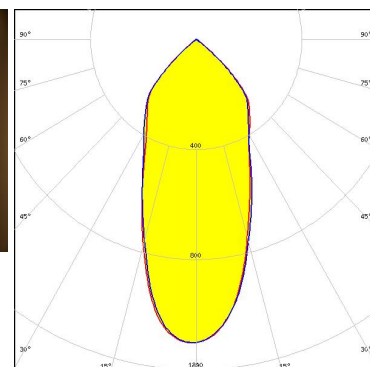
LED V15 Gen6
 FWHM / FWTM 41.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2224



Light distribution files



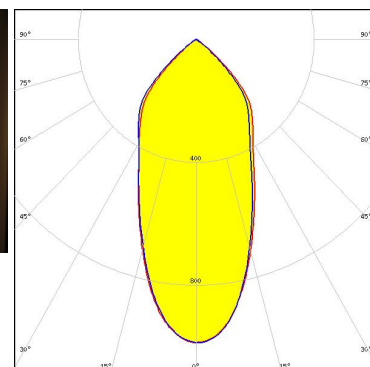
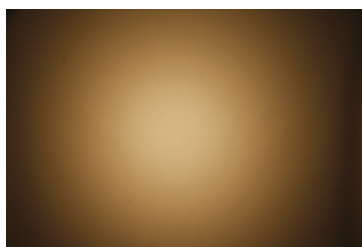
LED V18 Gen6
 FWHM / FWTM 44.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2274



Light distribution files



LED V18 Gen6
 FWHM / FWTM 46.0° / 100.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2274

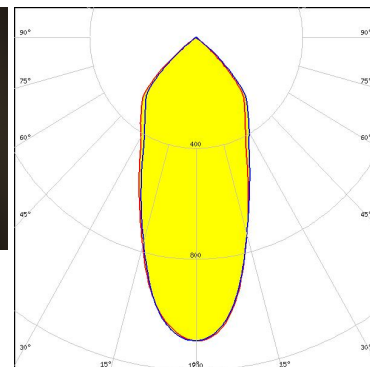
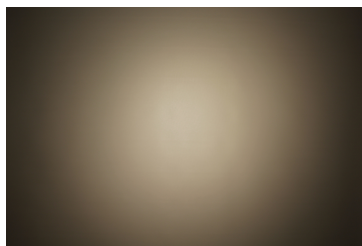


Light distribution files

OPTICAL RESULTS (MEASURED):



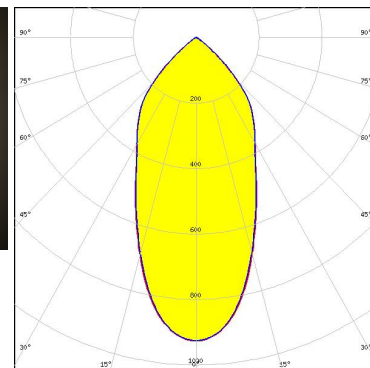
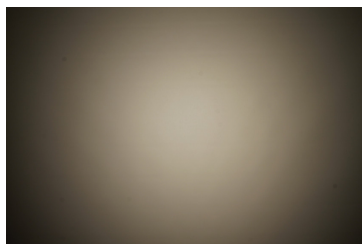
LED V18 Gen7
 FWHM / FWTM 44.0° / 99.0°
 Efficiency 93 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2350



Light distribution files



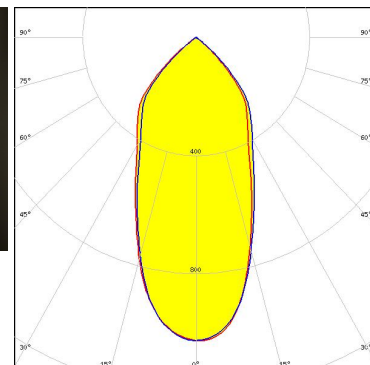
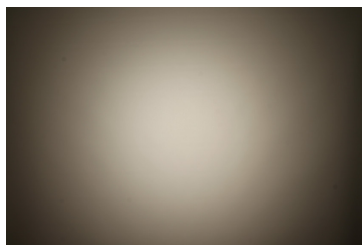
LED V22 Gen6
 FWHM / FWTM 49.0° / 100.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8102-G2



Light distribution files



LED V22 Gen6
 FWHM / FWTM 47.0° / 98.0°
 Efficiency 91 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8102-G2

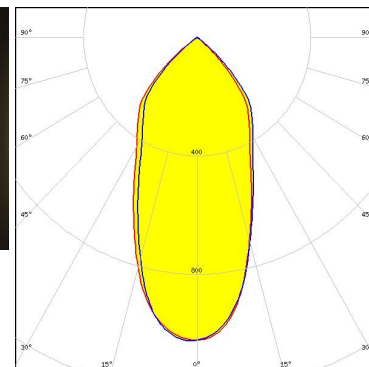
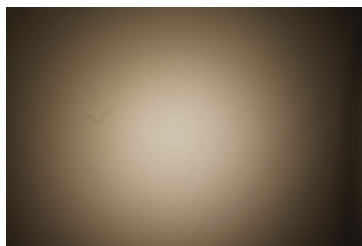


Light distribution files

OPTICAL RESULTS (MEASURED):



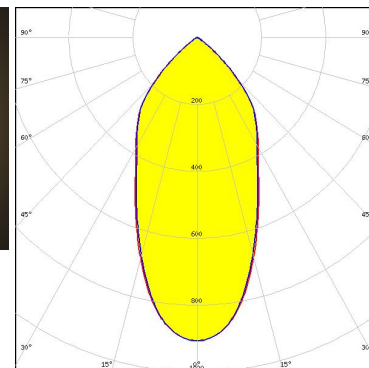
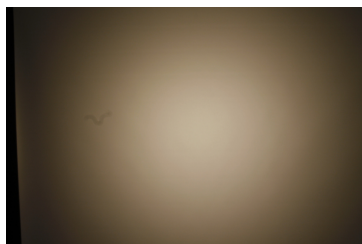
LED V22 Gen7
 FWHM / FWTM 47.0° / 98.0°
 Efficiency 91 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030



Light distribution files



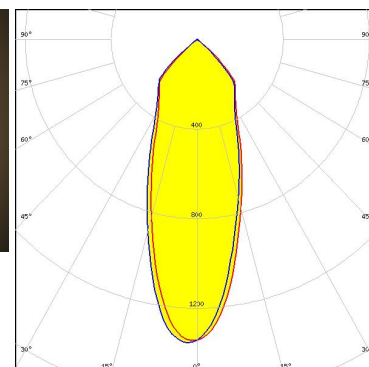
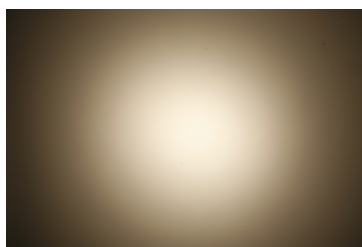
LED V22 Gen7
 FWHM / FWTM 50.0° / 100.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



Light distribution files

CITIZEN

LED CLU03x
 FWHM / FWTM 37.0° / 96.0°
 Efficiency 92 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2021

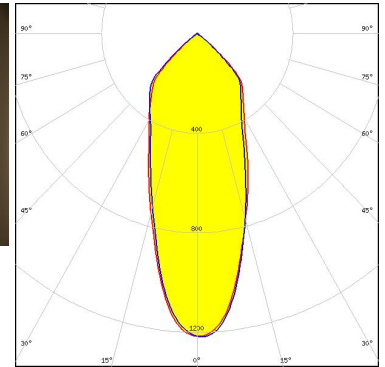
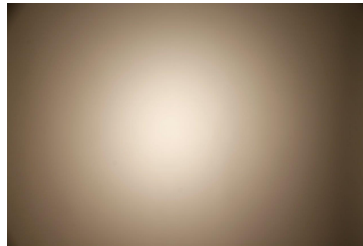


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

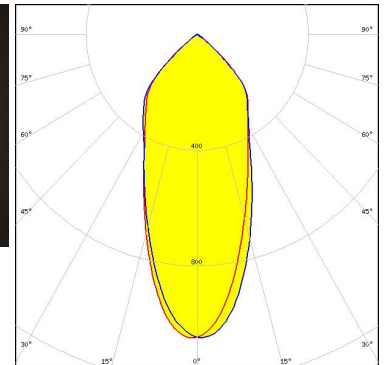
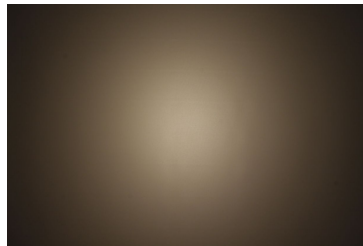
LED CLU03x
FWHM / FWTM 39.0° / 98.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8101-G2



Light distribution files

CITIZEN

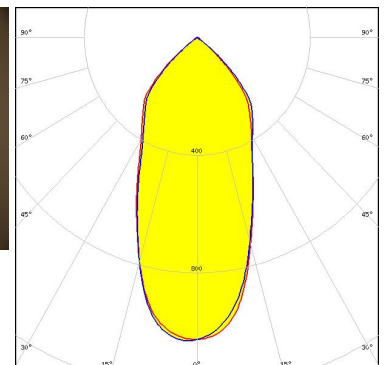
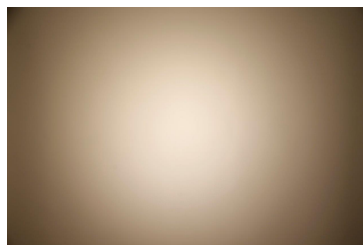
LED CLU03x
FWHM / FWTM 43.0° / 99.0°
Efficiency 89 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101-G2



Light distribution files

CITIZEN

LED CLU04x
FWHM / FWTM 39.0° / 98.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8102-G2

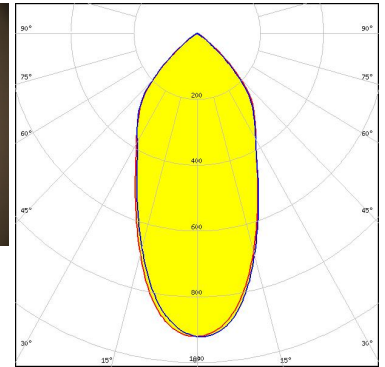
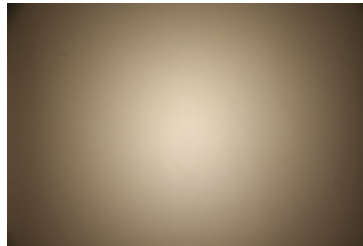


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

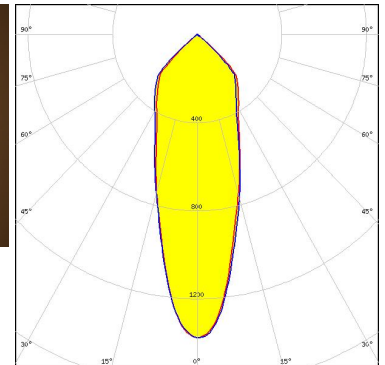
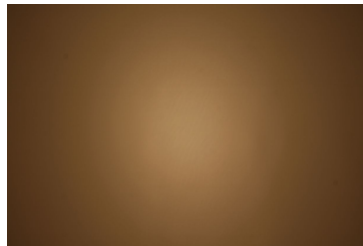
LED CLU04x
FWHM / FWTM 50.0° / 101.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8102-G2



Light distribution files

CITIZEN

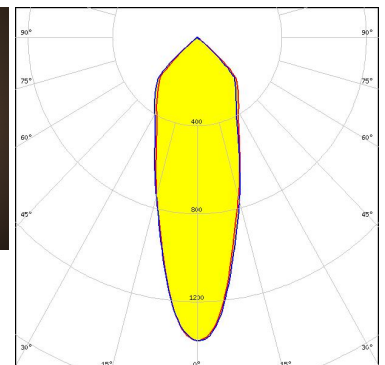
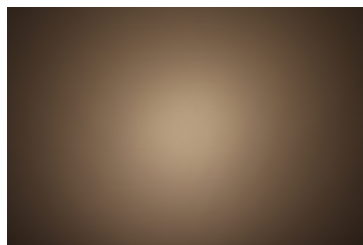
LED CLU720/721/723
FWHM / FWTM 34.0° / 96.0°
Efficiency 94 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



Light distribution files

CITIZEN

LED CLU720/721/723
FWHM / FWTM 35.0° / 97.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8101-G2

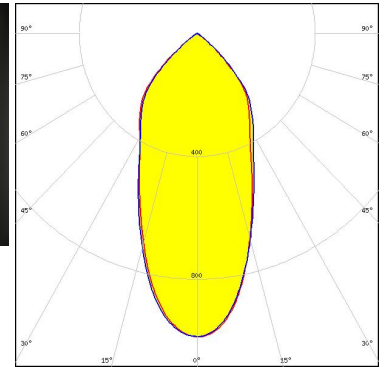
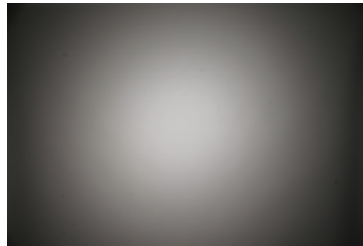


Light distribution files

OPTICAL RESULTS (MEASURED):



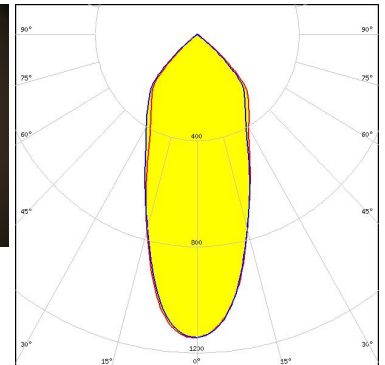
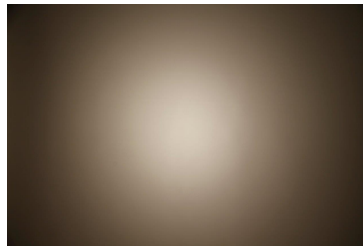
LED CXA/B 25xx
 FWHM / FWTM 46.0° / 99.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2141



Light distribution files



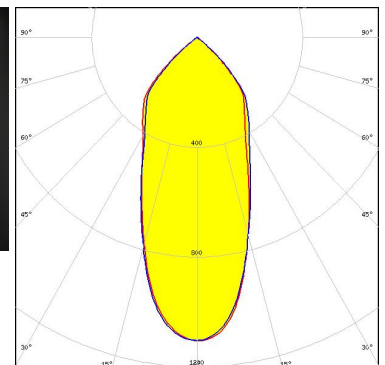
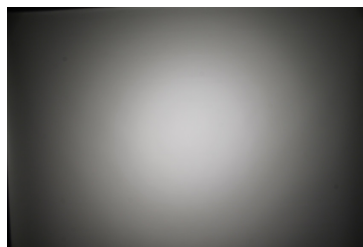
LED CXA/B 25xx
 FWHM / FWTM 42.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8401-G2



Light distribution files



LED CXA/B 25xx
 FWHM / FWTM 44.0° / 98.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2141

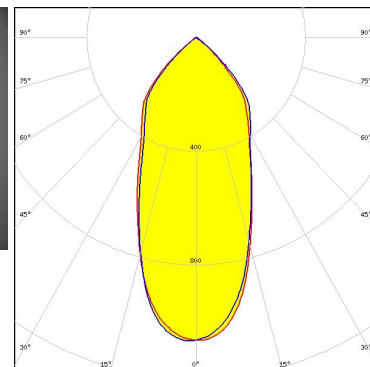
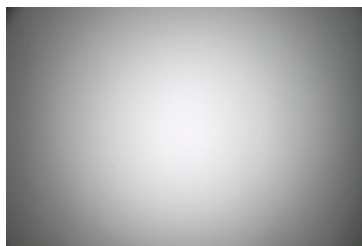


Light distribution files

OPTICAL RESULTS (MEASURED):



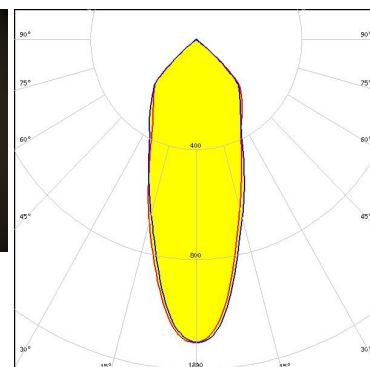
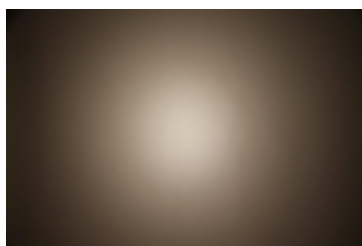
LED CXA/B 30xx
 FWHM / FWTM 45.0° / 98.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8404-G2



Light distribution files



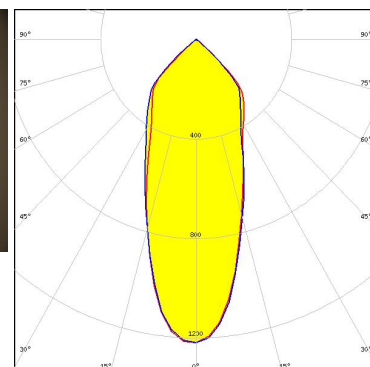
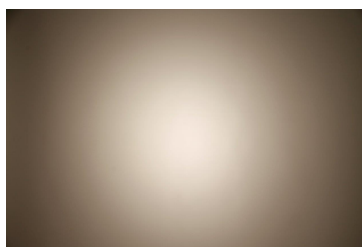
LED LUXEON CoB 1204/1205
 FWHM / FWTM 38.0° / 97.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8301-G2



Light distribution files



LED LUXEON CoB 1208
 FWHM / FWTM 39.0° / 97.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8301-G2

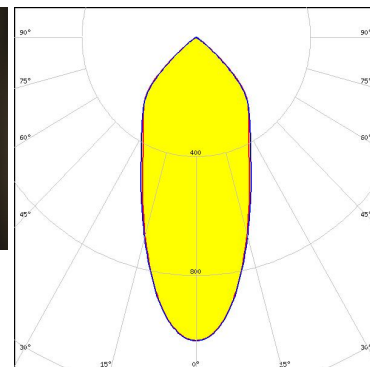
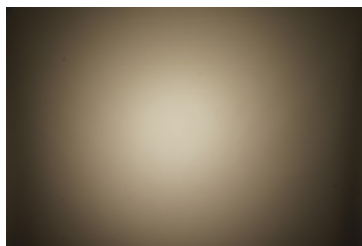


Light distribution files

OPTICAL RESULTS (MEASURED):



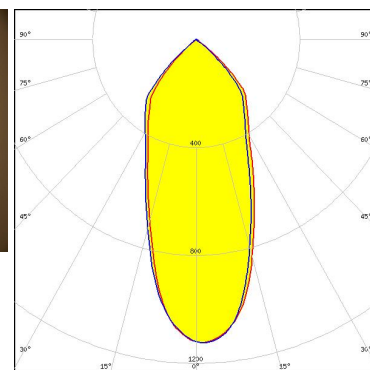
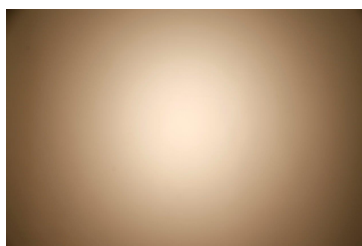
LED LUXEON CoB 1208
 FWHM / FWTM 44.0° / 100.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8301-G2



Light distribution files



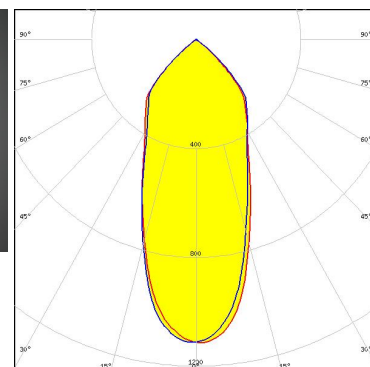
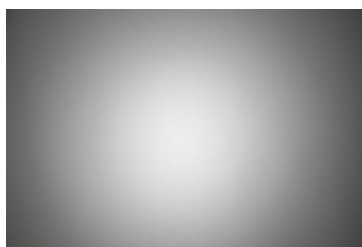
LED LUXEON CoB 1211
 FWHM / FWTM 43.0° / 97.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8102-G2



Light distribution files



LED LUXEON CoB 1211
 FWHM / FWTM 44.0° / 98.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030

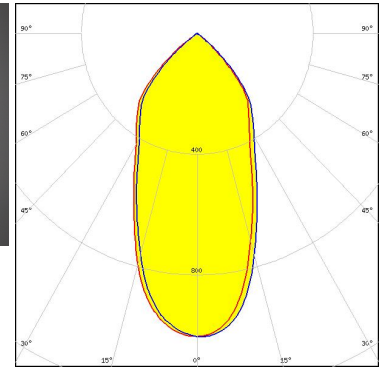
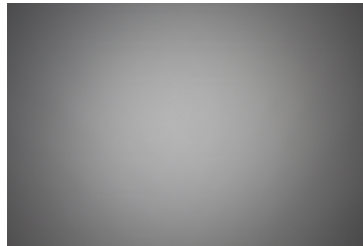


Light distribution files

OPTICAL RESULTS (MEASURED):



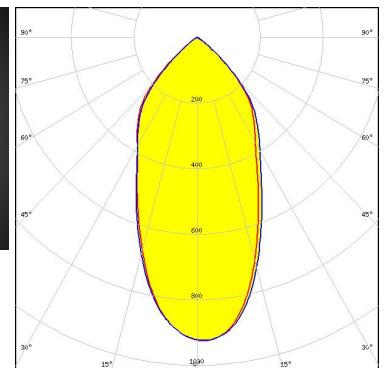
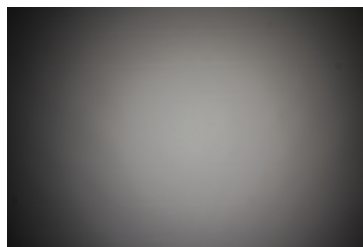
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 49.0° / 99.0°
 Efficiency 91 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030



Light distribution files



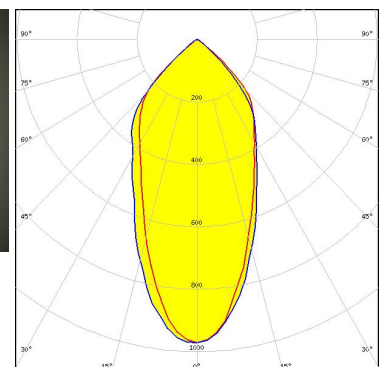
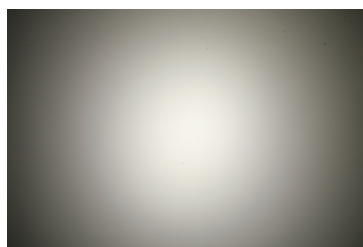
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 50.0° / 100.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



Light distribution files



LED LUXEON K12
 FWHM / FWTM 48.0° / 101.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2070

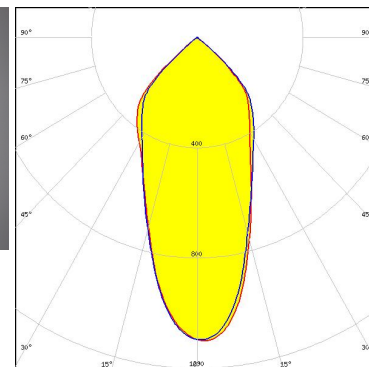


Light distribution files

OPTICAL RESULTS (MEASURED):



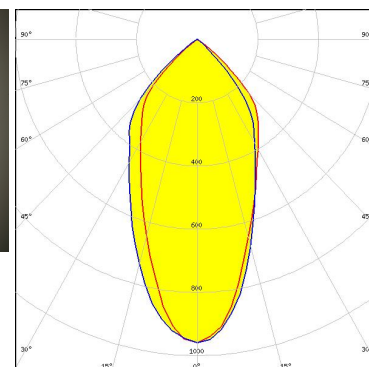
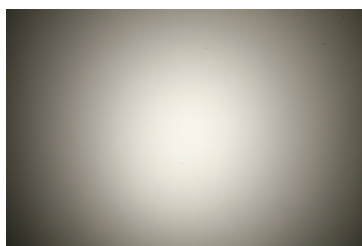
LED LUXEON K16
FWHM / FWTM 44.0° / 98.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2070



Light distribution files



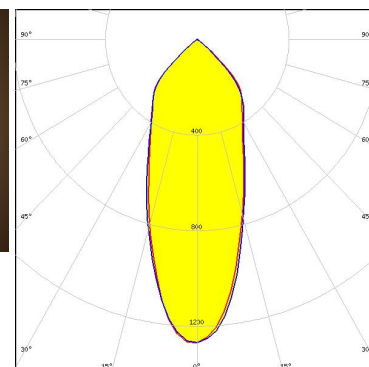
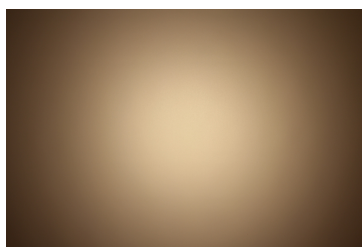
LED LUXEON K16
FWHM / FWTM 50.0° / 101.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2070



Light distribution files



LED CxM-14 (19x19)
FWHM / FWTM 40.0° / 98.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021

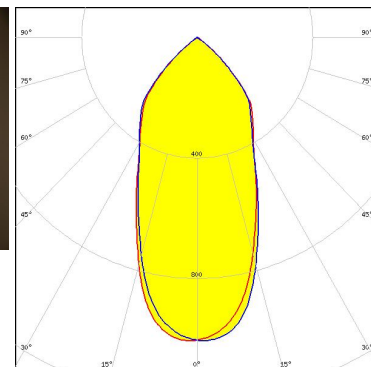
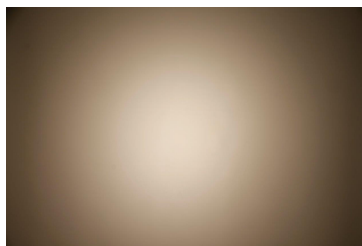


Light distribution files

OPTICAL RESULTS (MEASURED):



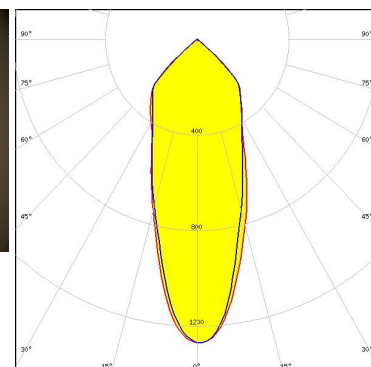
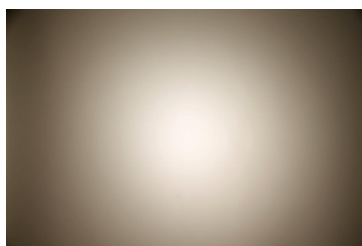
LED CxM-22 (28x28)
 FWHM / FWTM 48.0° / 99.0°
 Efficiency 92 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030



Light distribution files



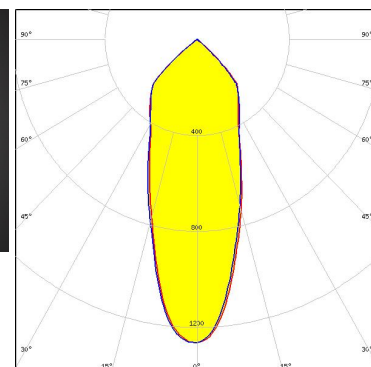
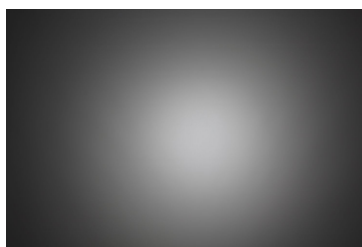
LED Soleriq S13
 FWHM / FWTM 37.0° / 98.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8502-G2



Light distribution files



LED Soleriq S13 19x19
 FWHM / FWTM 37.0° / 97.0°
 Efficiency 93 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2021

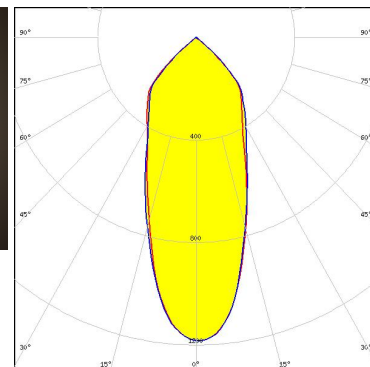
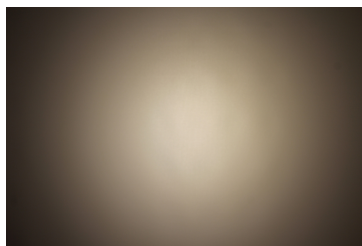


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

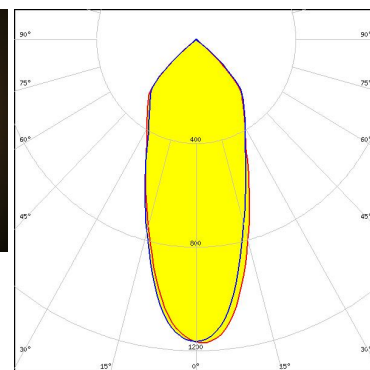
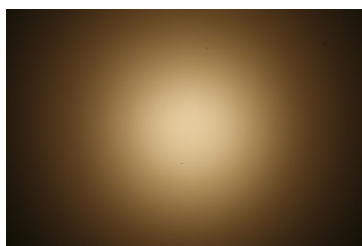
LED Soleriq S19
FWHM / FWTM 41.0° / 97.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8503-G2



Light distribution files

OSRAM
Opto Semiconductors

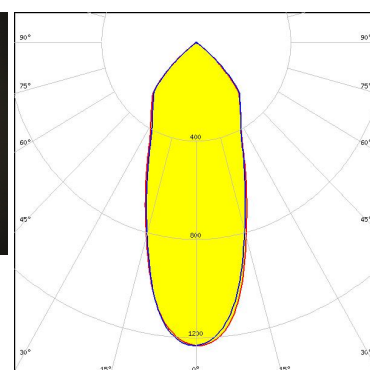
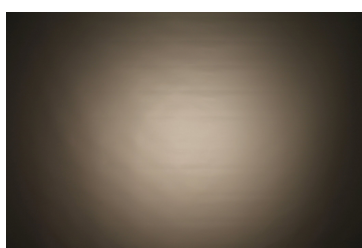
LED Soleriq S19
FWHM / FWTM 41.0° / 98.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2170



Light distribution files

PHILIPS

LED Fortimo SLM L19 CoB
FWHM / FWTM 40.0° / 97.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2030

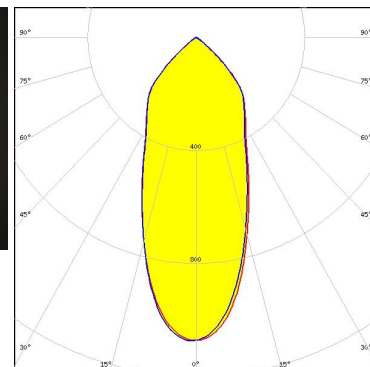
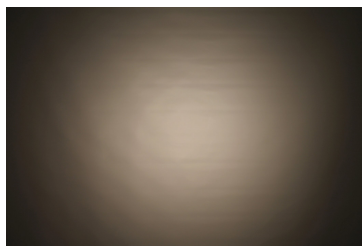


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

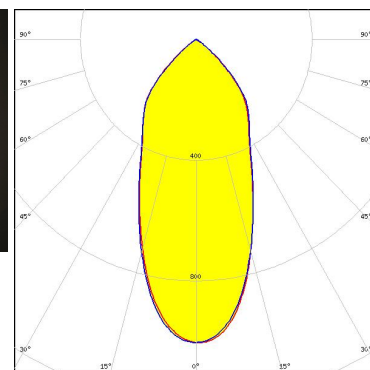
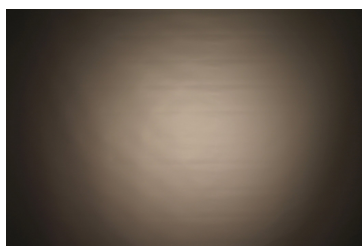
LED Fortimo SLM L19 CoB
 FWHM / FWTM 42.0° / 98.0°
 Efficiency 88 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



Light distribution files

PHILIPS

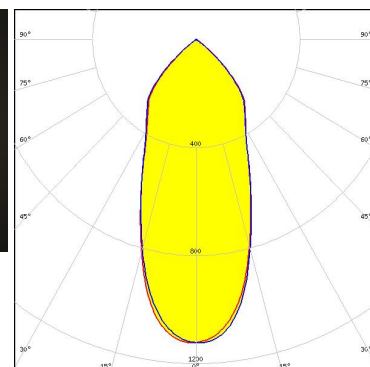
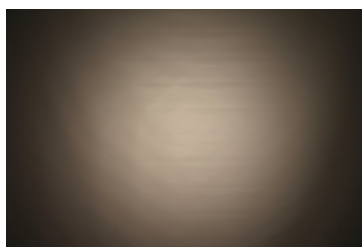
LED Fortimo SLM L23 CoB
 FWHM / FWTM 45.0° / 99.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



Light distribution files

PHILIPS

LED Fortimo SLM L23 CoB
 FWHM / FWTM 44.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2030

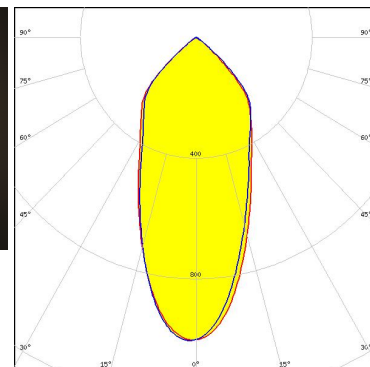
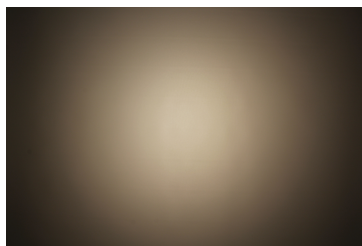


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

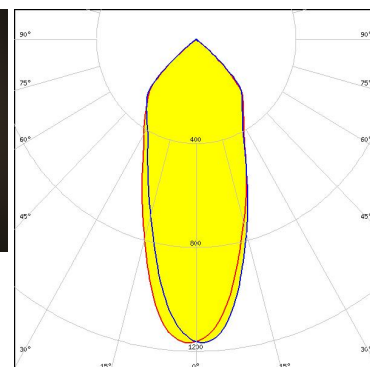
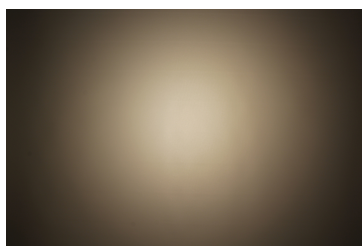
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 45.0° / 100.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8101-G2



Light distribution files

SAMSUNG

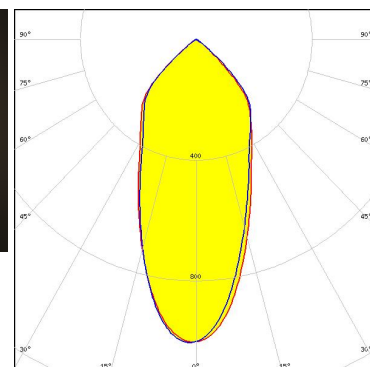
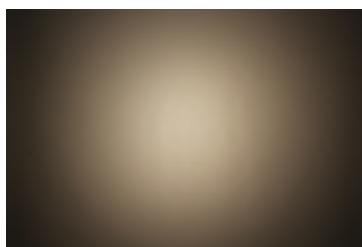
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 41.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8101-G2



Light distribution files

SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 45.0° / 100.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2021

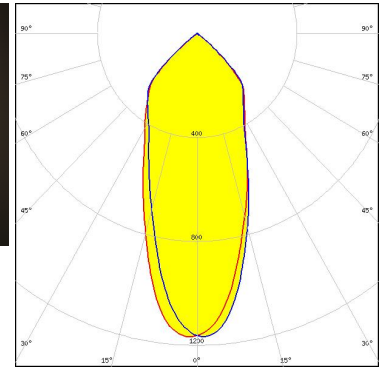
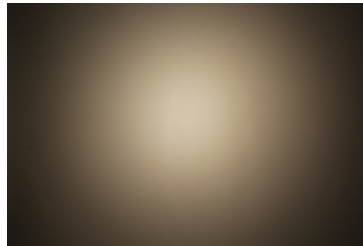


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

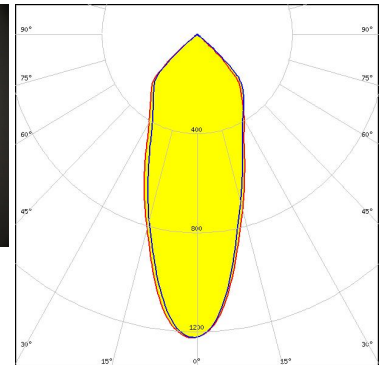
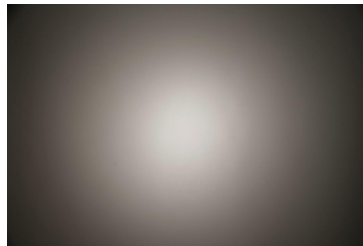
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 41.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2021



Light distribution files



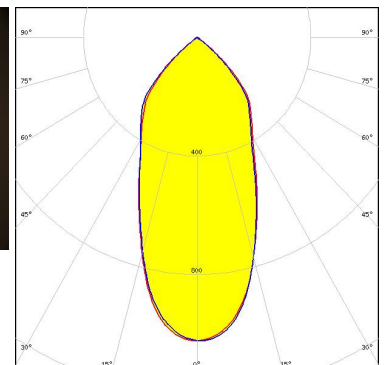
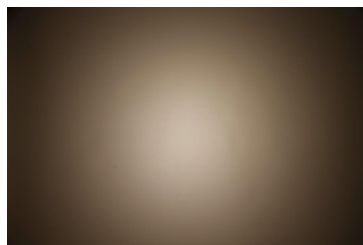
LED ZC12/18
 FWHM / FWTM 39.0° / 97.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8101-G2



Light distribution files



LED ZC25/40/60
 FWHM / FWTM 47.0° / 99.0°
 Efficiency 92 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8102-G2

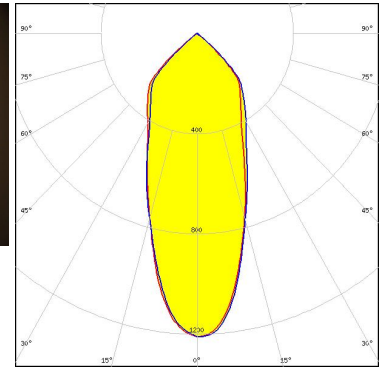
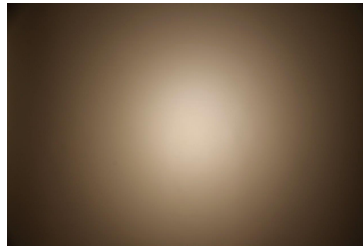


Light distribution files

OPTICAL RESULTS (MEASURED):

SHARP

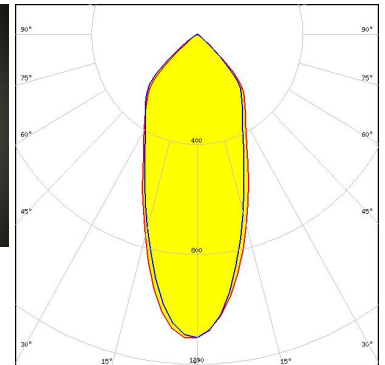
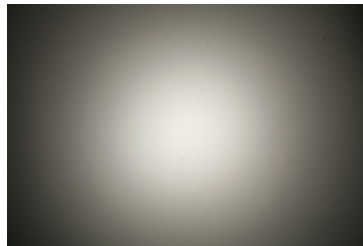
LED Mega Zenigata (GW6DME)
 FWHM / FWTM 40.0° / 98.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8301-G2



Light distribution files

SHARP

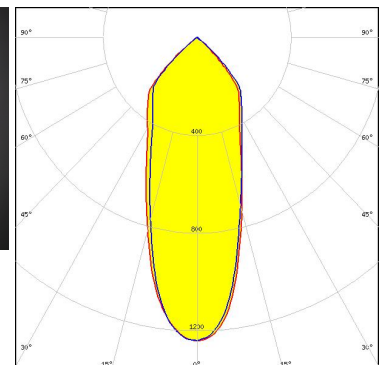
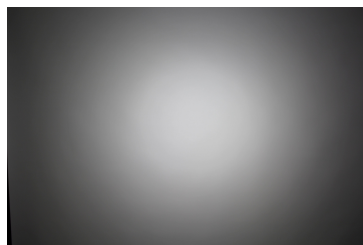
LED Tiger Zenigata (GWTGCBG4FD)
 FWHM / FWTM 41.0° / 99.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2051



Light distribution files

TRIDONIC

LED SLE G7 LES17 H
 FWHM / FWTM 38.0° / 96.0°
 Efficiency 91 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

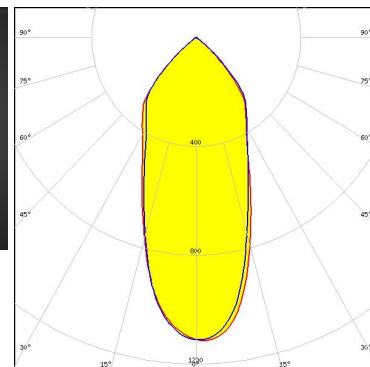
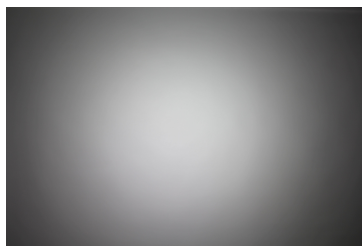


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

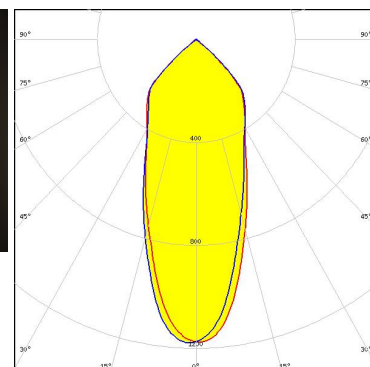
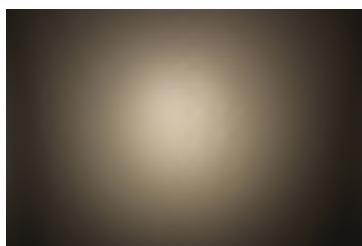
LED SLE G7 LES21 H
 FWHM / FWTM 43.0° / 97.0°
 Efficiency 91 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

XICATO

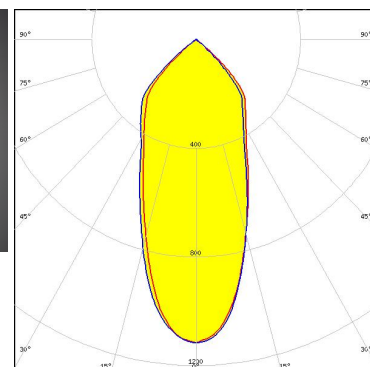
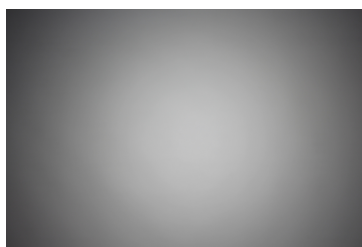
LED XOB 14.5 mm
 FWHM / FWTM 40.0° / 98.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2021



Light distribution files

XICATO

LED XTM - 19mm LES
 FWHM / FWTM 43.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C15743_XTM-ADAPTER-50-B



Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

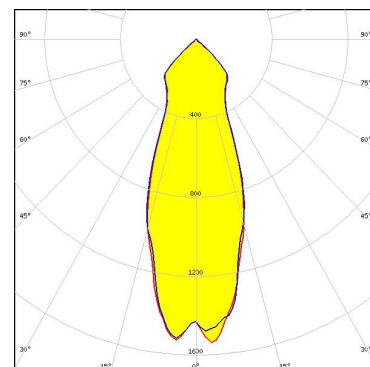
LED CLU04x
 FWHM / FWTM 37.0° / 90.0°
 Efficiency 95 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.319.2030

CITIZEN

LED CLU730/731/733
 FWHM / FWTM 37.0° / 93.0°
 Efficiency 91 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.319.2030



Light distribution files



LED LUXEON K12
 FWHM / FWTM 29.0° / 93.0°
 Efficiency %
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.319.2070

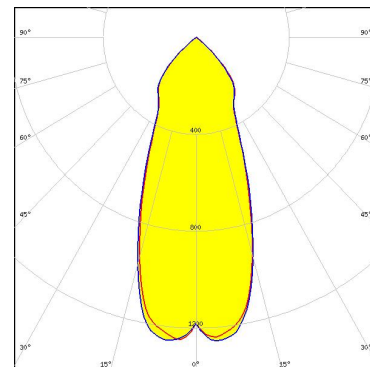
Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LC040D / LC060D / LC080D
FWHM / FWTM	41.0° / 94.0°
Efficiency	90 %
Peak intensity	1.3 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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