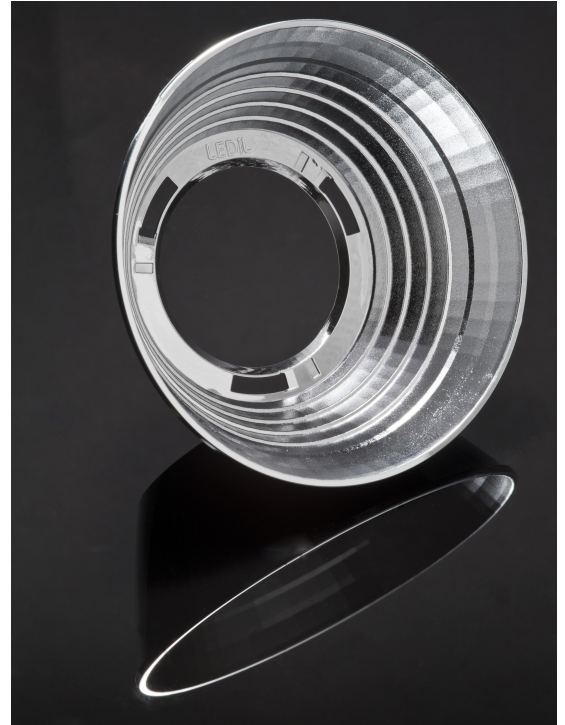


ANGELINA-W-B

~50° wide beam compatible with BJB connectors

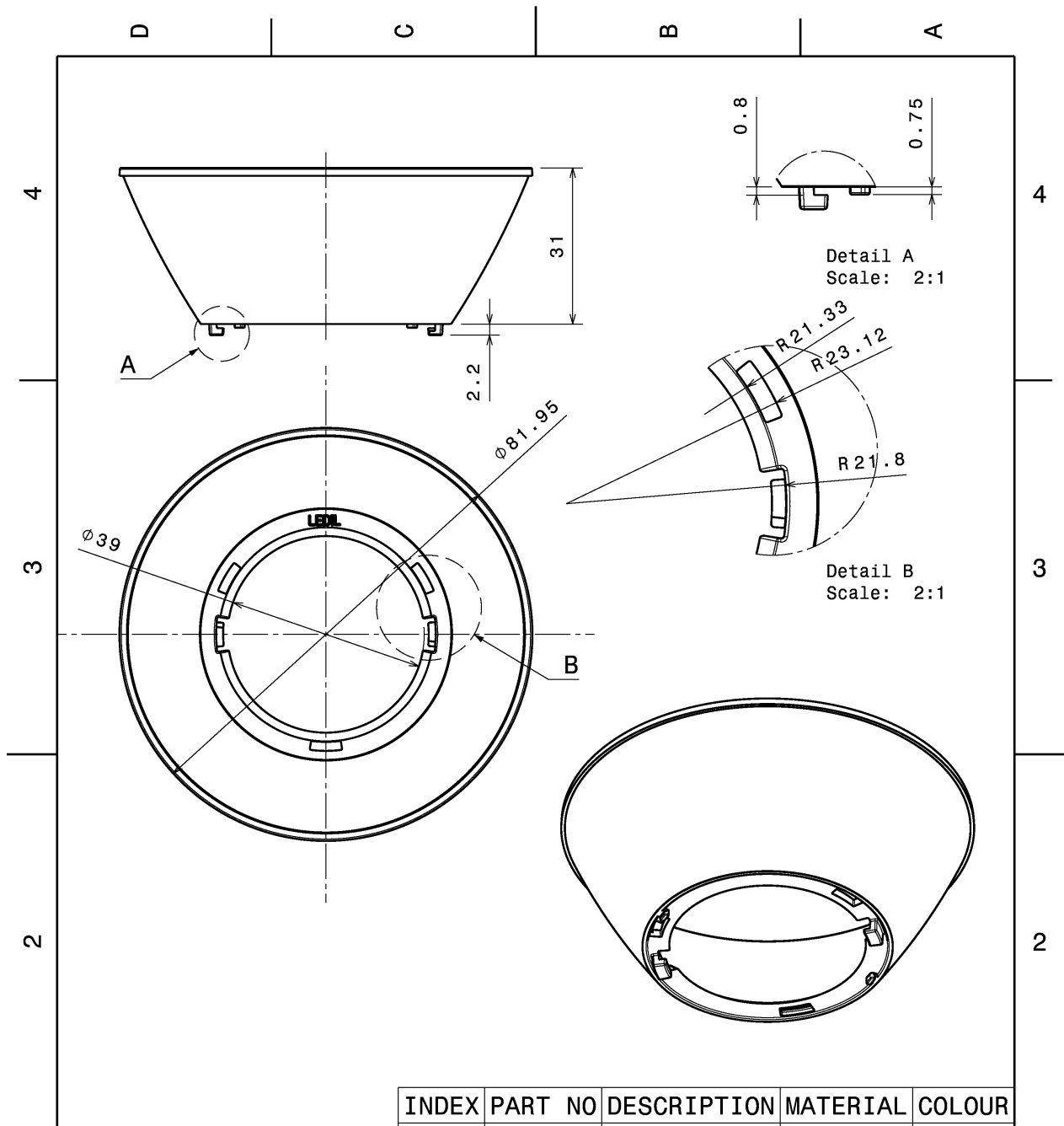
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 82 mm
Height	31 mm
Fastening	
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	10.6 kg
Quantity in Box	2035 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

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



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA-B	PC	metal

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

LEDiL Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
ANGELINA-B series Reflector

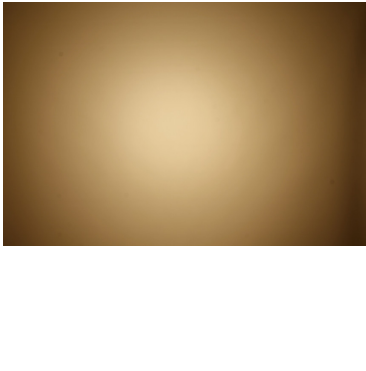
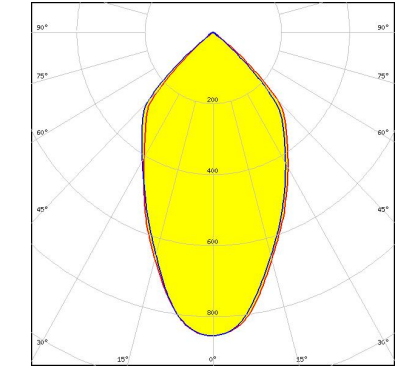
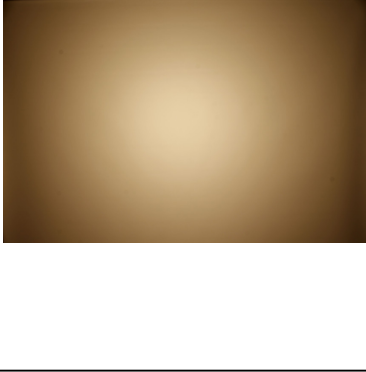
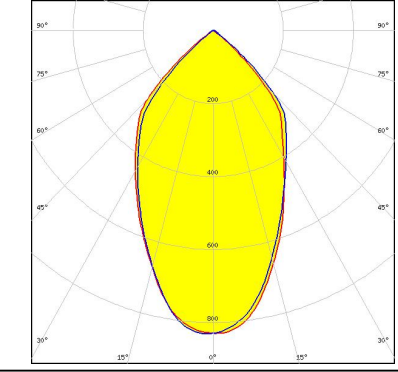
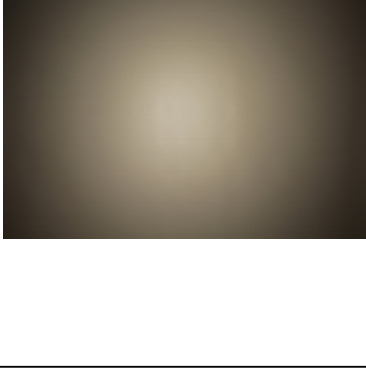
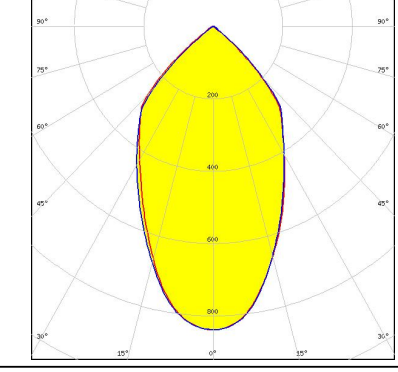
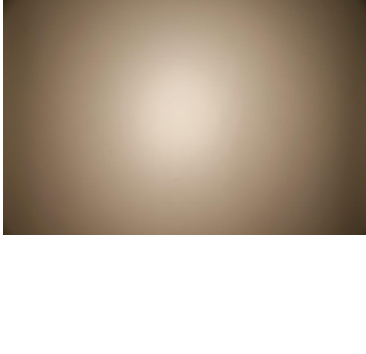
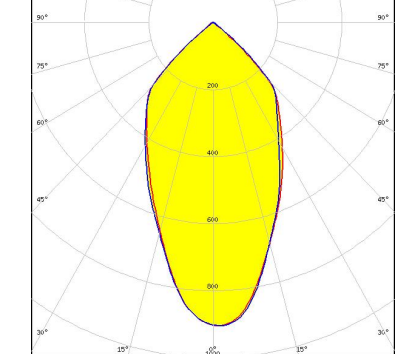
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE PART NUMBER

A4 -

SCALE 1:1 WEIGHT - SHEET 1/1

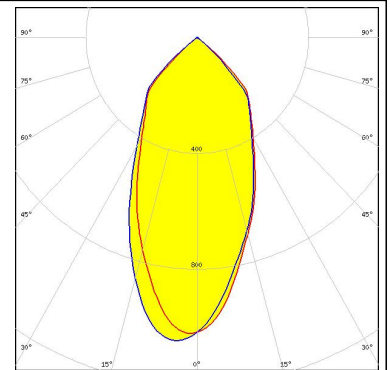
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V15 Gen6 FWHM 59.0° Efficiency 92 % Peak intensity 0.850 cd/lm Required components: BJB: 47.319.2224</p>		
<p>bridgelux.</p> <p>LED V18 Gen6 FWHM 61.0° Efficiency 92 % Peak intensity 0.830 cd/lm Required components: BJB: 47.319.2274</p>		
<p>bridgelux.</p> <p>LED V18 Gen7 FWHM 60.0° Efficiency 93 % Peak intensity 0.840 cd/lm Required components: BJB: 47.319.2350</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM 55.0° Efficiency 94 % Peak intensity 0.900 cd/lm Required components: A.A.G. STUCCHI: 8101/G2</p>		

PHOTOMETRIC DATA (MEASURED):

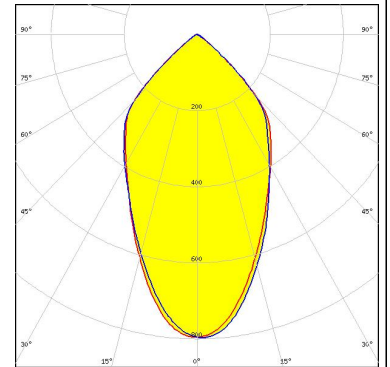
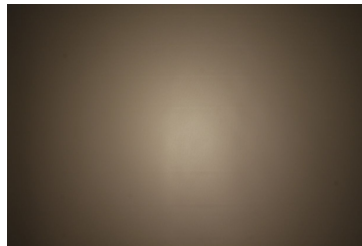
CITIZEN

LED CLL03x/CLU03x
FWHM 49.0°
Efficiency 92 %
Peak intensity 1.000 cd/lm
Required components:
BJB: 47.319.2021



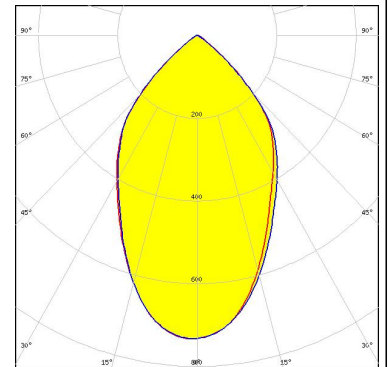
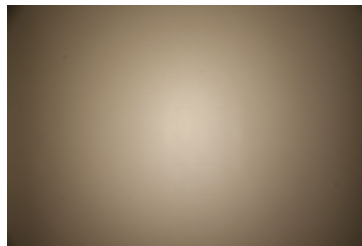
CITIZEN

LED CLL03x/CLU03x
FWHM 60.0°
Efficiency 89 %
Peak intensity 0.800 cd/lm
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101/G2



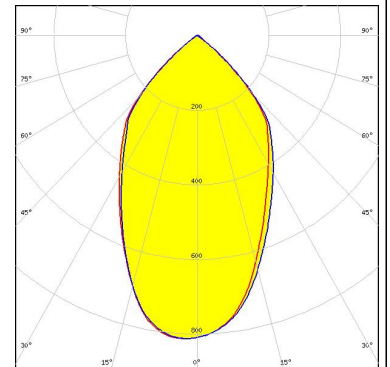
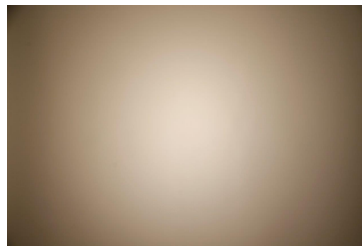
CITIZEN

LED CLL04x/CLU04x
FWHM 66.0°
Efficiency 87 %
Peak intensity 0.730 cd/lm
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8102/G2



CITIZEN

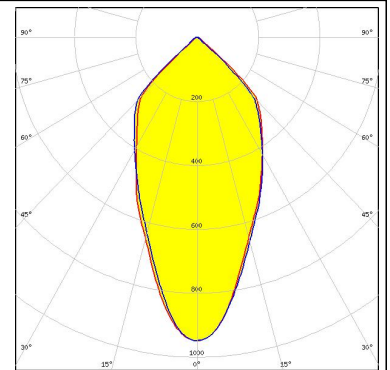
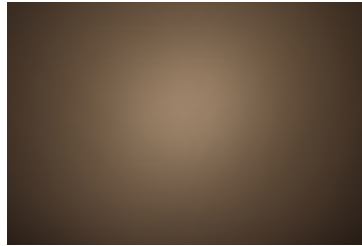
LED CLL04x/CLU04x
FWHM 62.0°
Efficiency 92 %
Peak intensity 0.820 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2



PHOTOMETRIC DATA (MEASURED):

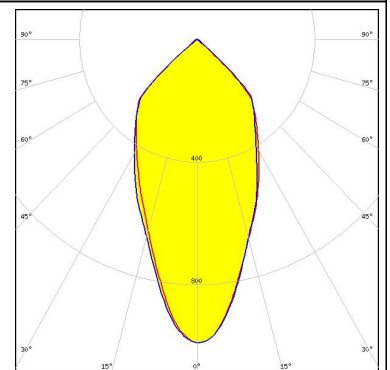
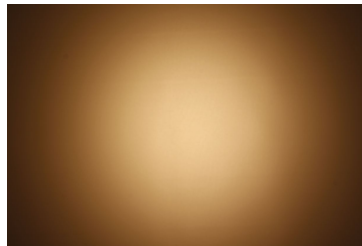
CITIZEN

LED CLU720/721
 FWHM 51.0°
 Efficiency 94 %
 Peak intensity 0.950 cd/lm
 Required components:
 A.A.G. STUCCHI: 8101/G2



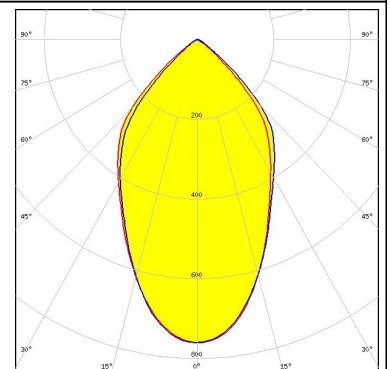
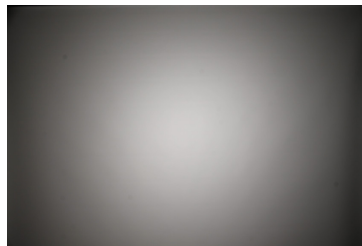
CITIZEN

LED CLU720/721
 FWHM 49.0°
 Efficiency 93 %
 Peak intensity 1.000 cd/lm
 Required components:
 BJB: 47.319.2021



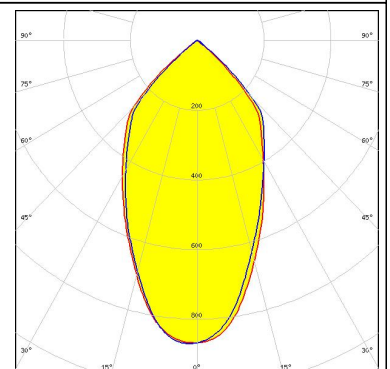
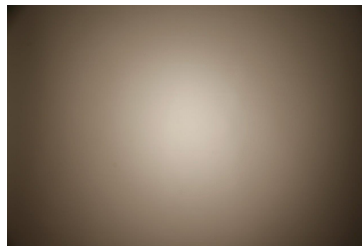
CREE

LED CXA/B 25xx
 FWHM 64.0°
 Efficiency 88 %
 Peak intensity 0.760 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2141



CREE

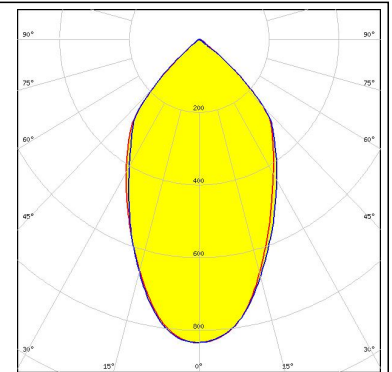
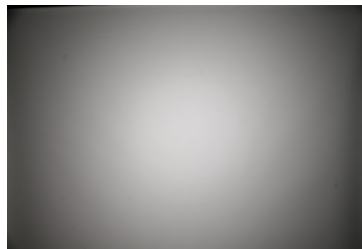
LED CXA/B 25xx
 FWHM 57.0°
 Efficiency 93 %
 Peak intensity 0.870 cd/lm
 Required components:
 A.A.G. STUCCHI: 8401/G2



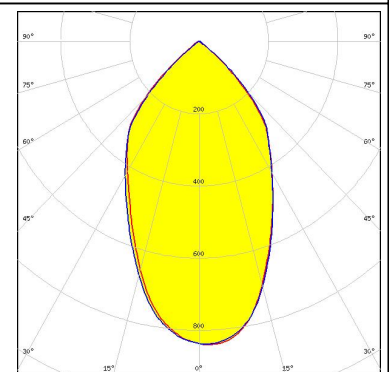
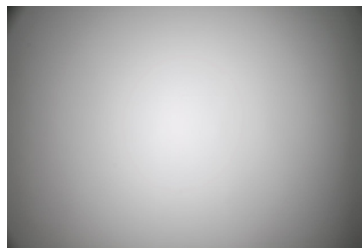
PHOTOMETRIC DATA (MEASURED):



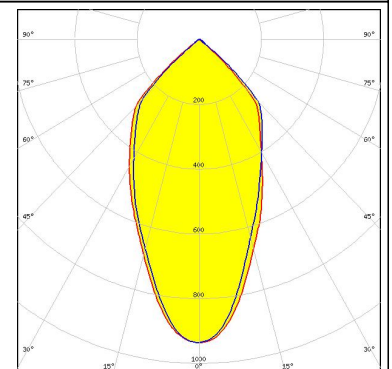
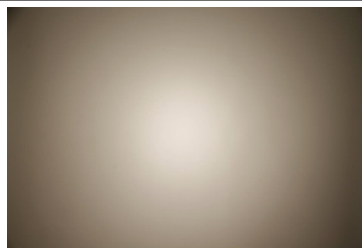
LED CXA/B 25xx
 FWHM 61.0°
 Efficiency 92 %
 Peak intensity 0.800 cd/lm
 Required components:
 BJB: 47.319.2141



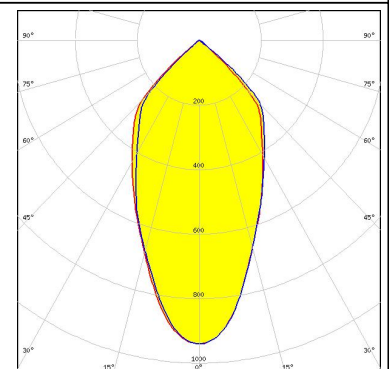
LED CXA/B 30xx
 FWHM 63.0°
 Efficiency 91 %
 Peak intensity 0.840 cd/lm
 Required components:
 A.A.G. STUCCHI: 8404/G2



LED COB 10W/13W/17W/24W
 FWHM 52.0°
 Efficiency 94 %
 Peak intensity 0.940 cd/lm
 Required components:
 A.A.G. STUCCHI: 8600/G2



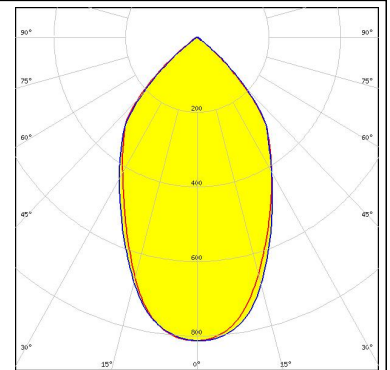
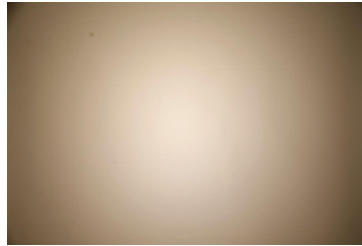
LED COB 10W/13W/17W/24W
 FWHM 53.0°
 Efficiency 93 %
 Peak intensity 0.940 cd/lm
 Required components:
 BJB: 47.319.2080



PHOTOMETRIC DATA (MEASURED):

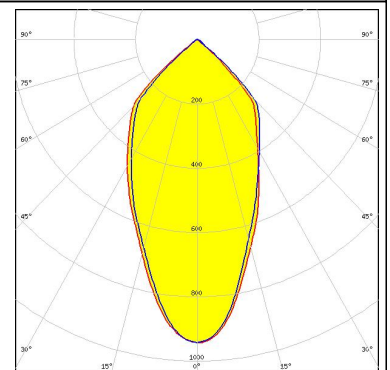
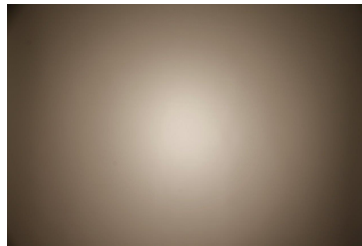
LG Innotek

LED COB 40W/60W
FWHM 62.0°
Efficiency 92 %
Peak intensity 0.810 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2



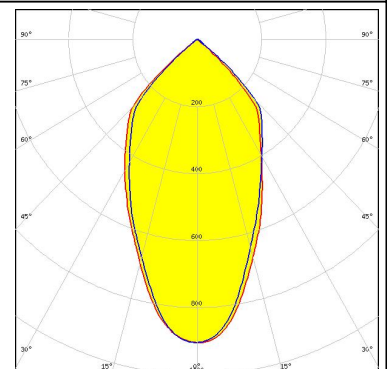
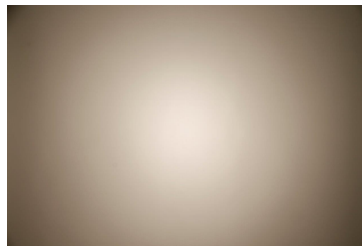
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM 53.0°
Efficiency 94 %
Peak intensity 0.940 cd/lm
Required components:
A.A.G. STUCCHI: 8301/G2



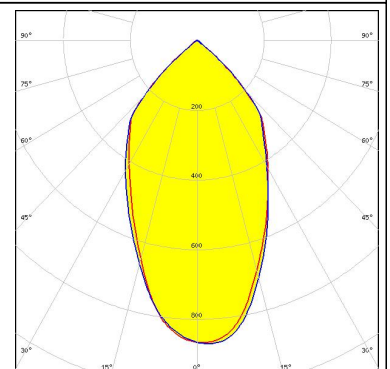
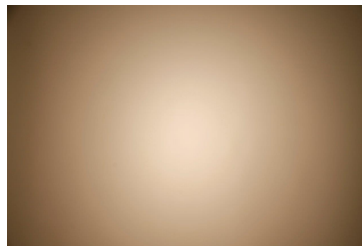
LUMILEDS

LED LUXEON CoB 1208
FWHM 55.0°
Efficiency 93 %
Peak intensity 0.900 cd/lm
Required components:
A.A.G. STUCCHI: 8301/G2



LUMILEDS

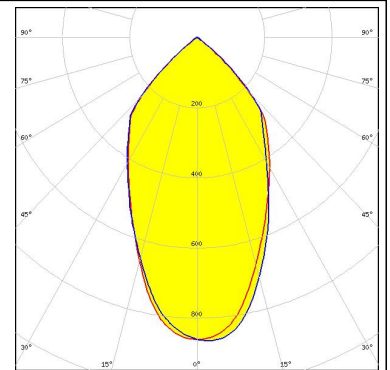
LED LUXEON CoB 1211
FWHM 58.0°
Efficiency 92 %
Peak intensity 0.870 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2



PHOTOMETRIC DATA (MEASURED):

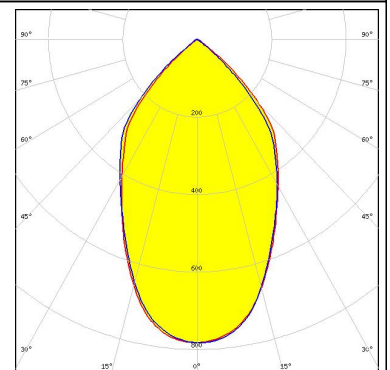
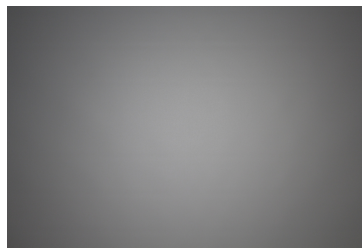
LUMILEDS

LED LUXEON CoB 1211
 FWHM 58.0°
 Efficiency 92 %
 Peak intensity 0.870 cd/lm
 Required components:
 BJB: 47.319.2030



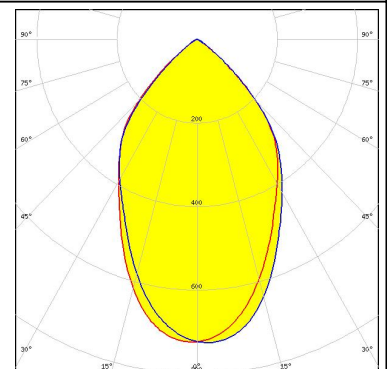
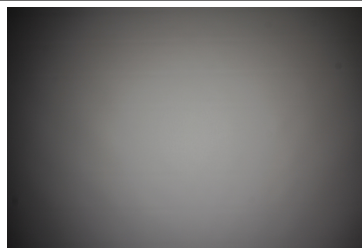
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM 65.0°
 Efficiency 91 %
 Peak intensity 0.780 cd/lm
 Required components:
 BJB: 47.319.2030



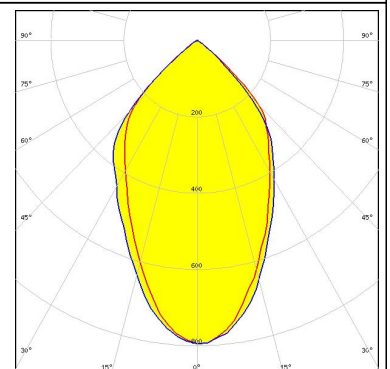
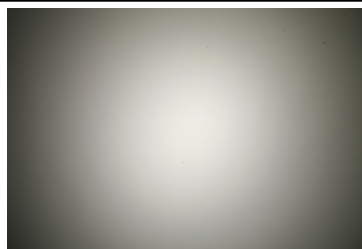
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM 67.0°
 Efficiency 87 %
 Peak intensity 0.730 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2030



LUMILEDS

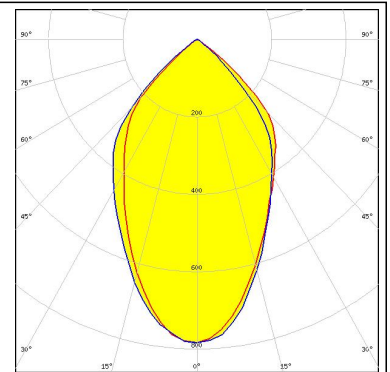
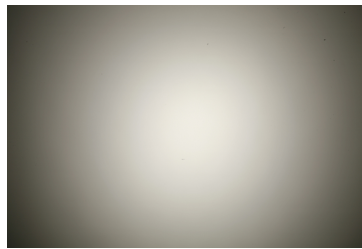
LED LUXEON K12
 FWHM 64.0°
 Efficiency 89 %
 Peak intensity 0.800 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2070



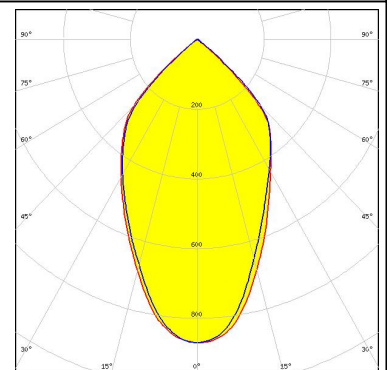
PHOTOMETRIC DATA (MEASURED):



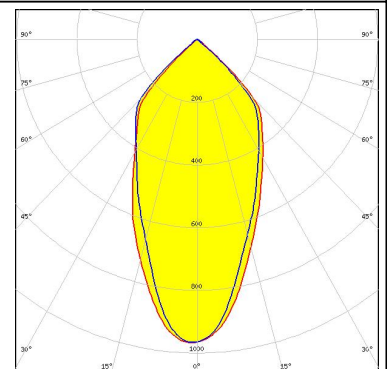
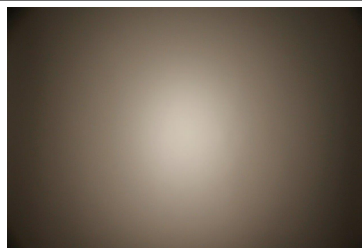
LED LUXEON K16
 FWHM 65.0°
 Efficiency 89 %
 Peak intensity 0.800 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2070



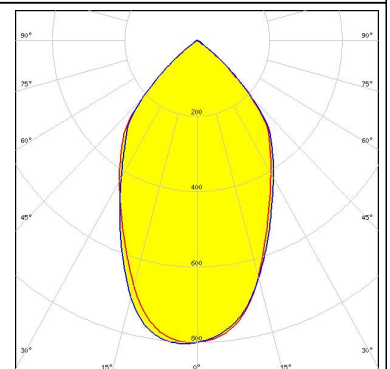
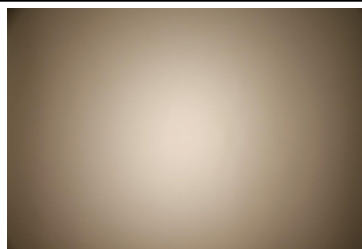
LED LUXEON K16
 FWHM 61.0°
 Efficiency %
 Peak intensity 0.870 cd/lm
 Required components:
 BJB: 47.319.2070



LED CXM-14
 FWHM 51.0°
 Efficiency 93 %
 Peak intensity 0.970 cd/lm
 Required components:
 BJB: 47.319.2021



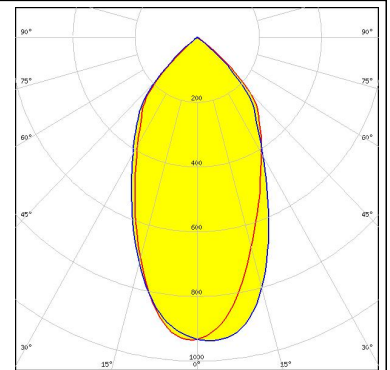
LED CXM-22
 FWHM 63.0°
 Efficiency 92 %
 Peak intensity 0.800 cd/lm
 Required components:
 BJB: 47.319.2030



PHOTOMETRIC DATA (MEASURED):

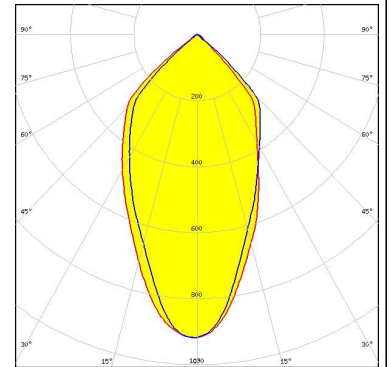
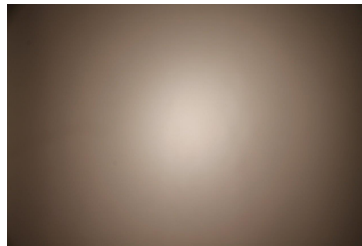
OSRAM
Opto Semiconductors

LED Soleriq E30
FWHM 54.0°
Efficiency 90 %
Peak intensity 0.940 cd/lm
Required components:
BJB: 47.319.2011



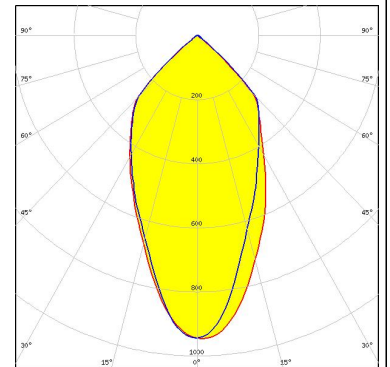
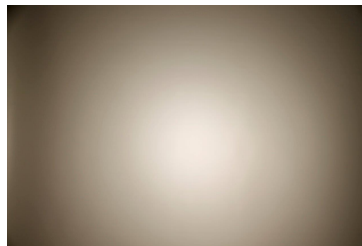
OSRAM
Opto Semiconductors

LED Soleriq P13
FWHM 47.0°
Efficiency 93 %
Peak intensity 1.080 cd/lm
Required components:
A.A.G. STUCCHI: 8502/G2



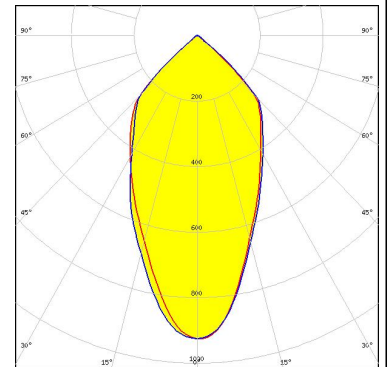
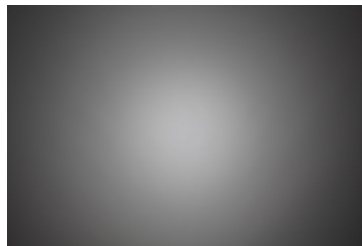
OSRAM
Opto Semiconductors

LED Soleriq S13
FWHM 52.0°
Efficiency 94 %
Peak intensity 0.950 cd/lm
Required components:
A.A.G. STUCCHI: 8502/G2



OSRAM
Opto Semiconductors

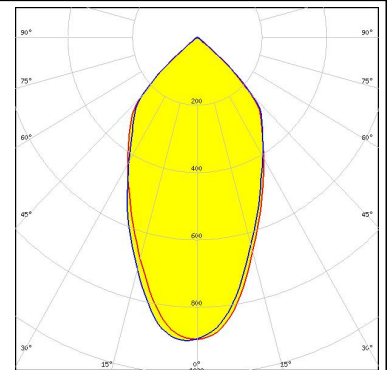
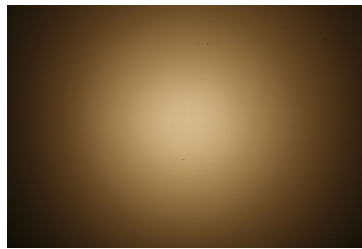
LED Soleriq S13 Gen2
FWHM 53.0°
Efficiency 93 %
Peak intensity 0.920 cd/lm
Required components:
BJB: 47.319.2021



PHOTOMETRIC DATA (MEASURED):

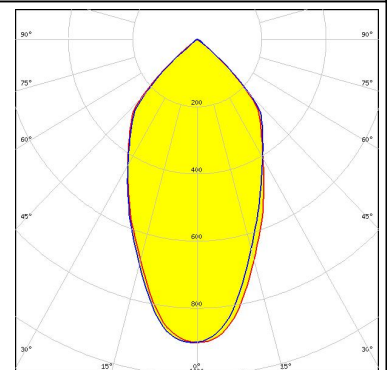
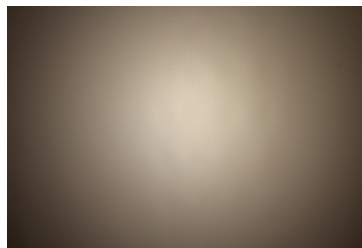
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM 55.0°
Efficiency 93 %
Peak intensity 0.900 cd/lm
Required components:
BJB: 47.319.2170



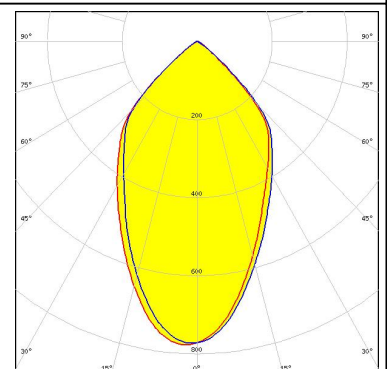
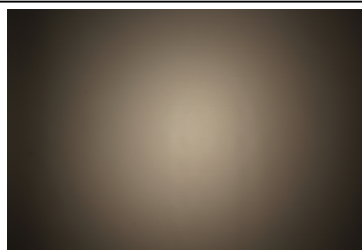
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM 55.0°
Efficiency 93 %
Peak intensity 0.900 cd/lm
Required components:
A.A.G. STUCCHI: 8503/G2



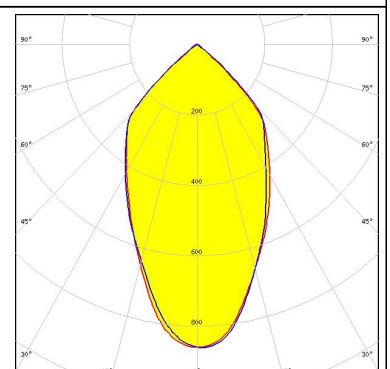
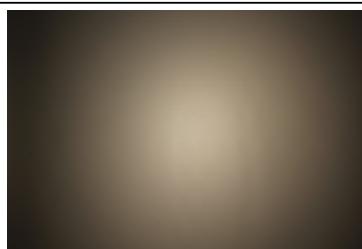
SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 62.0°
Efficiency 89 %
Peak intensity 0.780 cd/lm
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2021



SAMSUNG

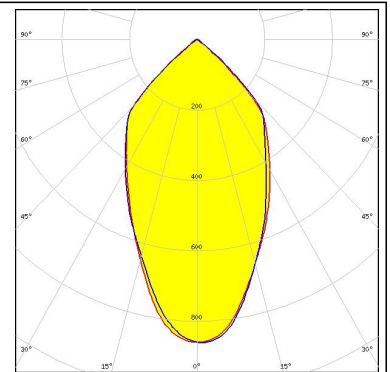
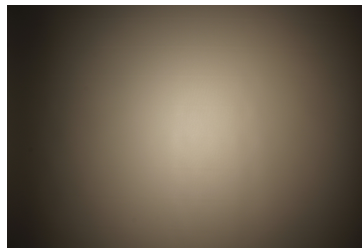
LED COB D Series LES 14.5 mm
FWHM 59.0°
Efficiency 93 %
Peak intensity 0.860 cd/lm
Required components:
A.A.G. STUCCHI: 8101/G2



PHOTOMETRIC DATA (MEASURED):

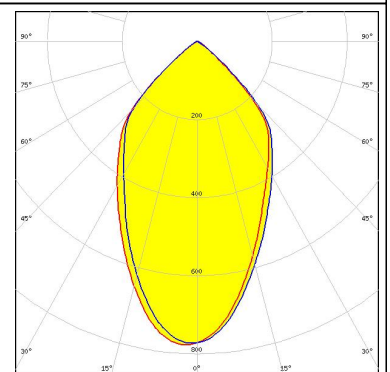
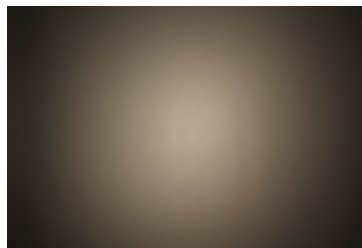
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 59.0°
 Efficiency 93 %
 Peak intensity 0.860 cd/lm
 Required components:
 BJB: 47.319.2021

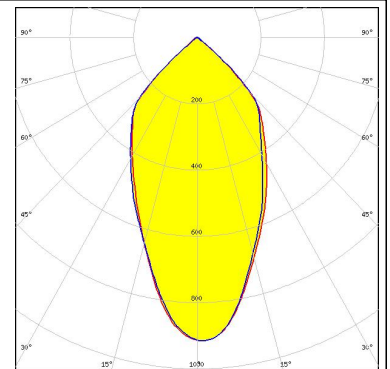
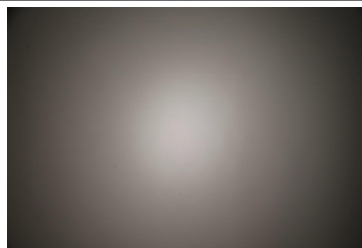


SAMSUNG

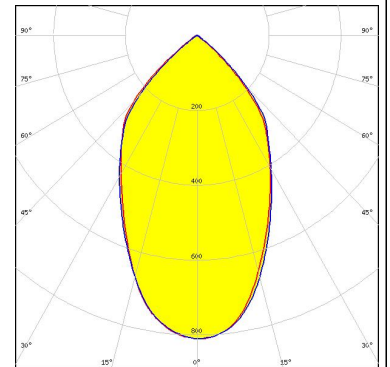
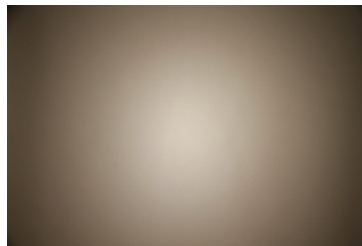
LED COB D Series LES 14.5 mm
 FWHM 62.0°
 Efficiency 89 %
 Peak intensity 0.780 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8101/G2



LED ZC12/18
 FWHM 54.0°
 Efficiency 93 %
 Peak intensity 0.920 cd/lm
 Required components:
 A.A.G. STUCCHI: 8101/G2



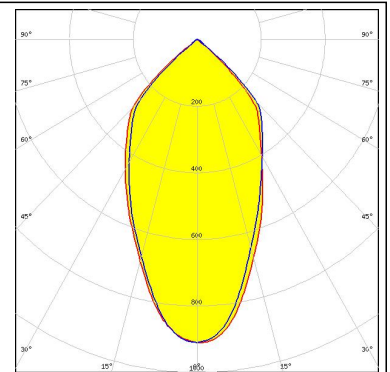
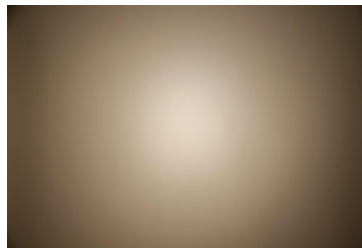
LED ZC25/40/60
 FWHM 62.0°
 Efficiency 92 %
 Peak intensity 0.810 cd/lm
 Required components:
 A.A.G. STUCCHI: 8102/G2



PHOTOMETRIC DATA (MEASURED):

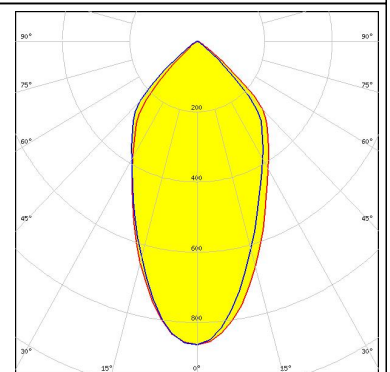
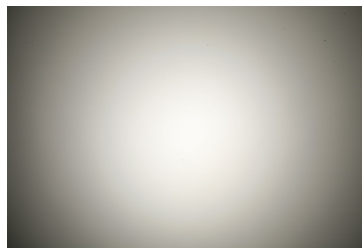
SHARP

LED Mega Zenigata (GW6DME)
 FWHM 55.0°
 Efficiency 94 %
 Peak intensity 0.910 cd/lm
 Required components:
 A.A.G. STUCCHI: 8301/G2



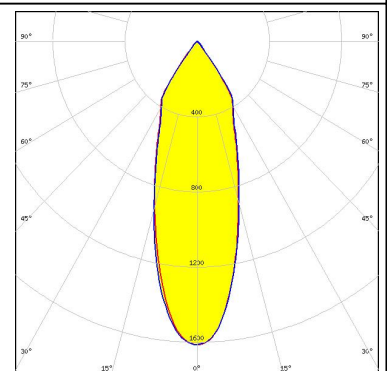
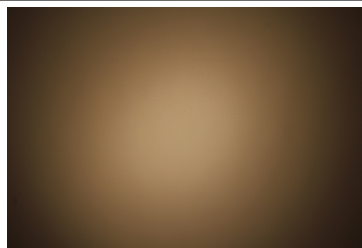
SHARP

LED Tiger Zenigata (GWTGCBG4FD)
 FWHM 54.0°
 Efficiency 90 %
 Peak intensity 0.870 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2051



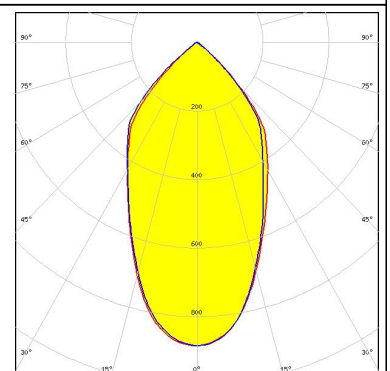
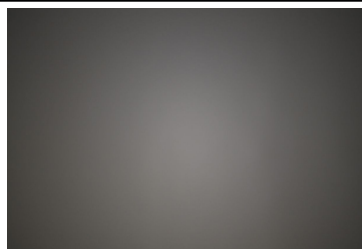
TRIDONIC

LED SLE G4 LES19 H
 FWHM 34.0°
 Efficiency 81 %
 Peak intensity 1.600 cd/lm
 Required components:



TRIDONIC

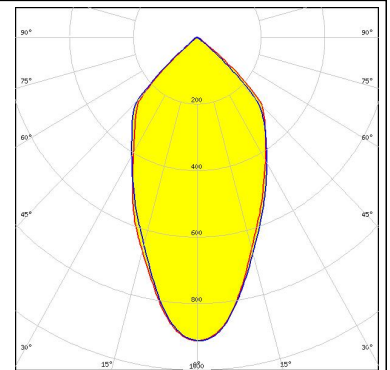
LED SLE G4 LES23 H
 FWHM 57.0°
 Efficiency 92 %
 Peak intensity 0.890 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

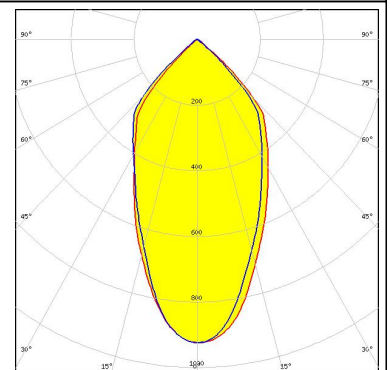
TRIDONIC

LED SLE G5 LES15
 FWHM 55.0°
 Efficiency 93 %
 Peak intensity 0.900 cd/lm
 Required components:
 BJB: 47.319.2021



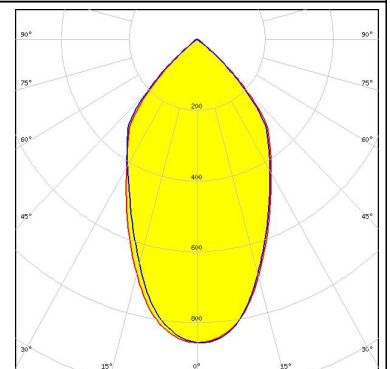
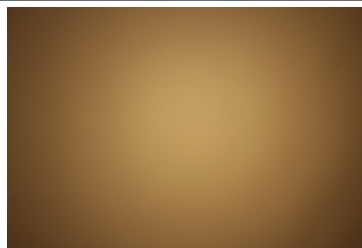
TRIDONIC

LED SLE G5 LES19 H
 FWHM 54.0°
 Efficiency 91 %
 Peak intensity 0.930 cd/lm
 Required components:



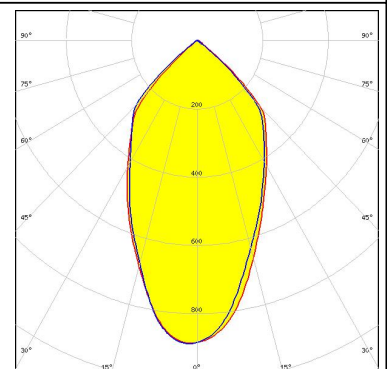
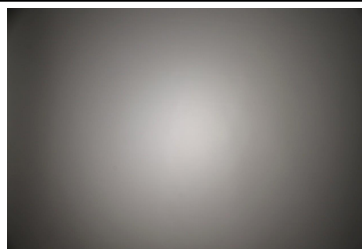
TRIDONIC

LED SLE G5 LES23 H
 FWHM 60.0°
 Efficiency 91 %
 Peak intensity 0.860 cd/lm
 Required components:



TRIDONIC

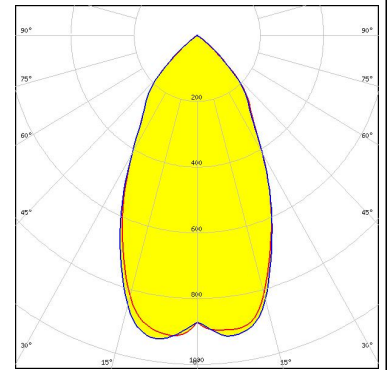
LED STARK SLE PURE G3 LES17
 FWHM 56.0°
 Efficiency 93 %
 Peak intensity 0.890 cd/lm
 Required components:
 A.A.G. STUCCHI: 8101/G2



PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED CLL04x/CLU04x
FWHM 55.0°
Efficiency 90 %
Peak intensity 0.940 cd/lm
Required components:
BJB: 47.319.2030

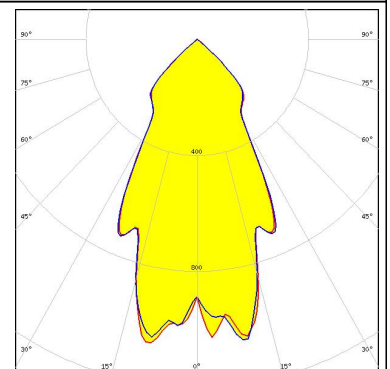


CITIZEN

LED CLL04x/CLU04x
FWHM 52.0°
Efficiency 95 %
Peak intensity 1.100 cd/lm
Required components:
BJB: 47.319.2030

CITIZEN

LED CLU730/731
FWHM 52.0°
Efficiency 93 %
Peak intensity 1.080 cd/lm
Required components:
BJB: 47.319.2030



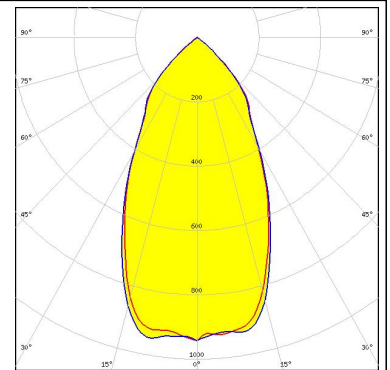
LUMILEDS

LED LUXEON K12
FWHM 46.0°
Efficiency %
Peak intensity cd/lm
Required components:
BJB: 47.319.2070

PHOTOMETRIC DATA (SIMULATED):

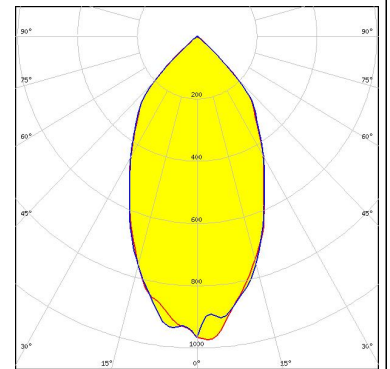
SAMSUNG

LED COB D Series LES 22 mm
FWHM 54.0°
Efficiency 90 %
Peak intensity 0.950 cd/lm
Required components:
BJB: 47.319.2030



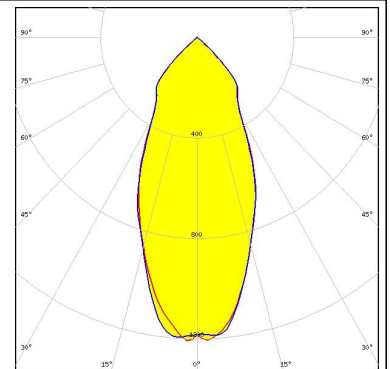
TRIDONIC

LED SLE G6 LES15 H D50
FWHM 54.0°
Efficiency 91 %
Peak intensity 0.990 cd/lm
Required components:



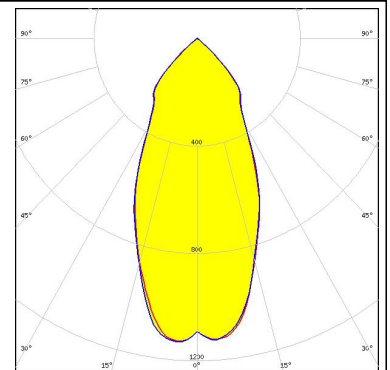
TRIDONIC

LED SLE G6 LES17 H
FWHM 46.0°
Efficiency 91 %
Peak intensity 1.200 cd/lm
Required components:



TRIDONIC

LED SLE G6 LES19 H
FWHM 48.0°
Efficiency 91 %
Peak intensity 1.160 cd/lm
Required components:



PHOTOMETRIC DATA (SIMULATED):

TRIDONIC

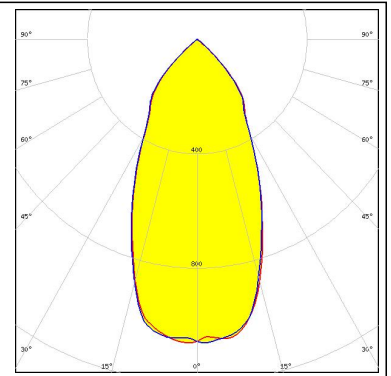
LED SLE G6 LES23 H

FWHM 50.0°

Efficiency 91 %

Peak intensity 1.080 cd/lm

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

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

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

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