



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

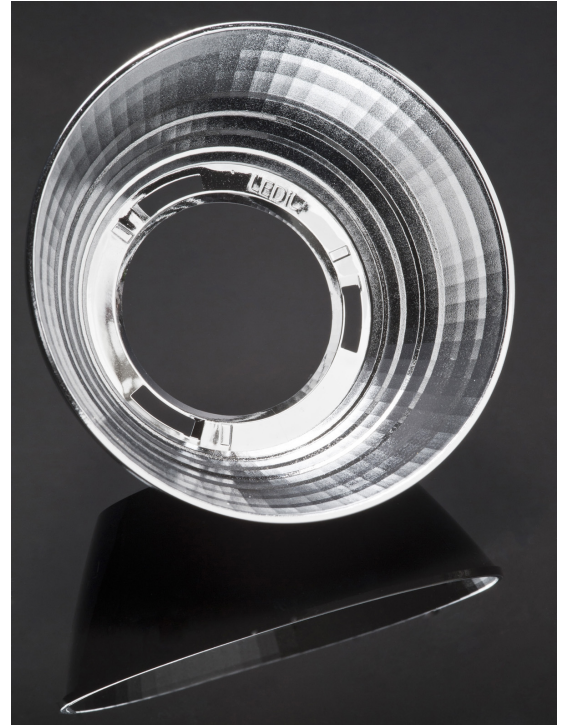


ANGELINA-M-B

~30° medium beam compatible with BJB connectors

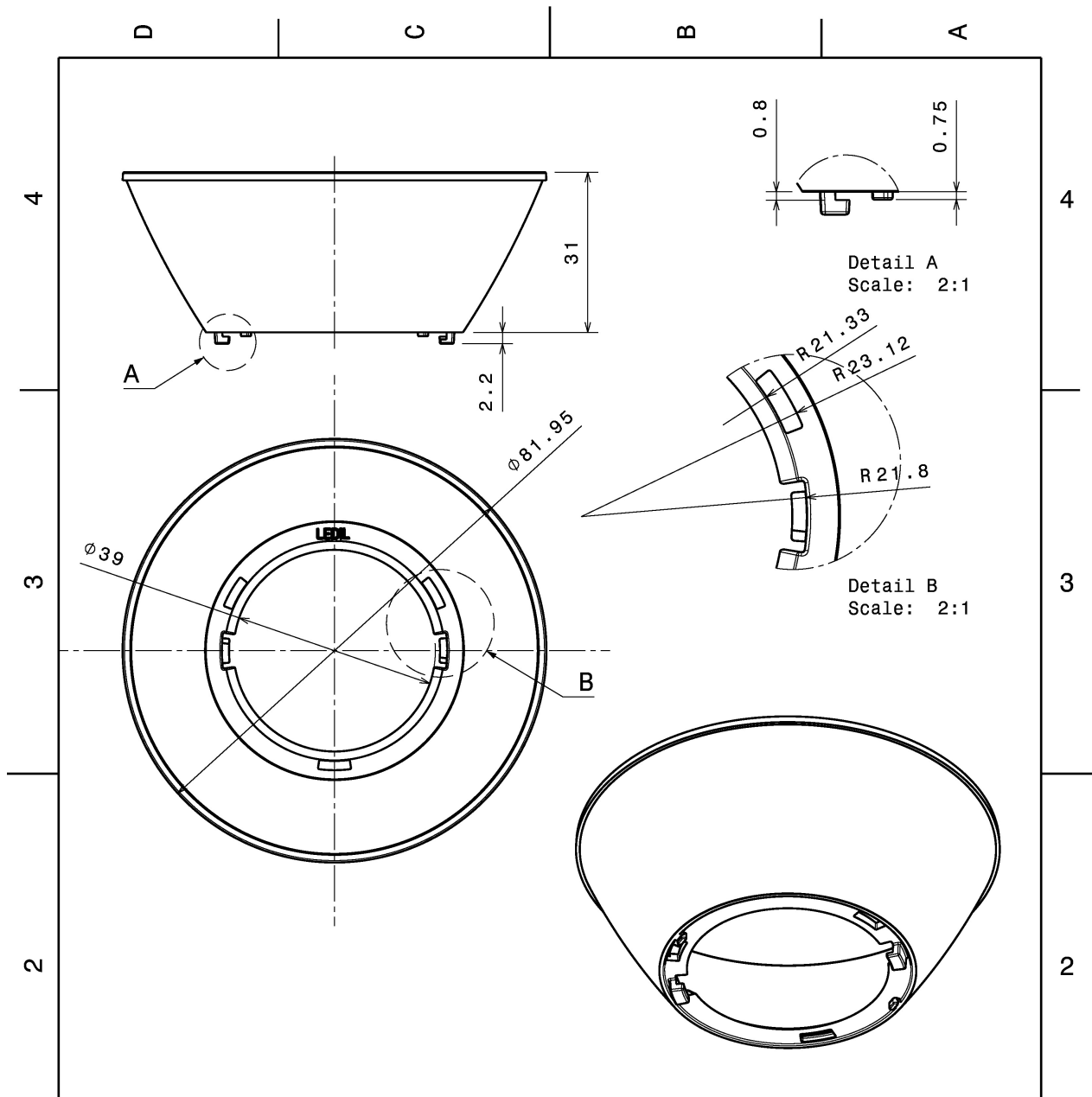
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 82 mm
Height	31 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	10 kg
Quantity in Box	2035 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
ANGELINA-M-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:

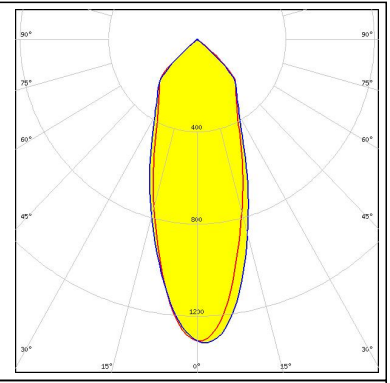
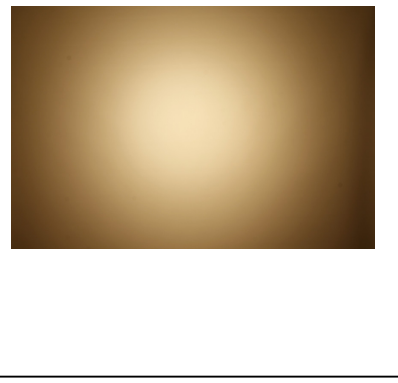
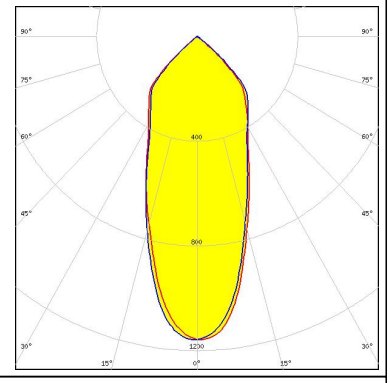
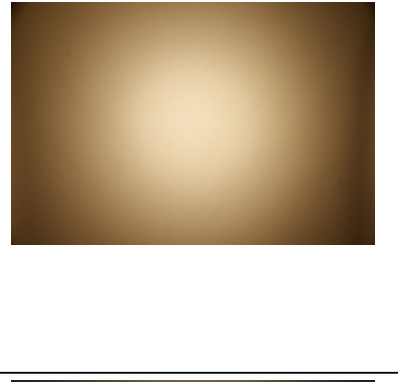
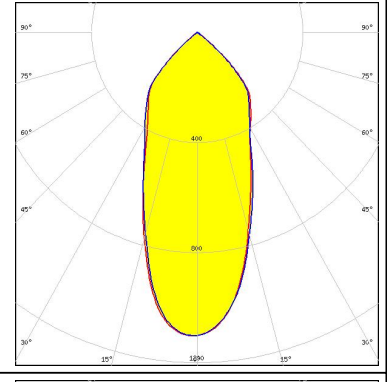
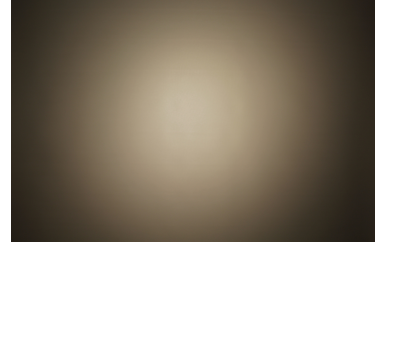
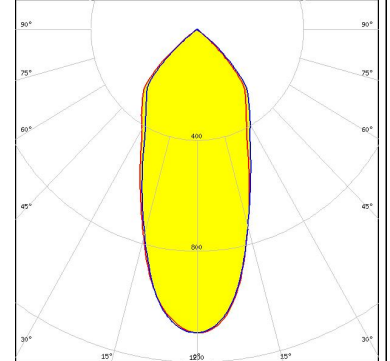
DRAWING TITLE
ANGELINA-B series Reflector

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
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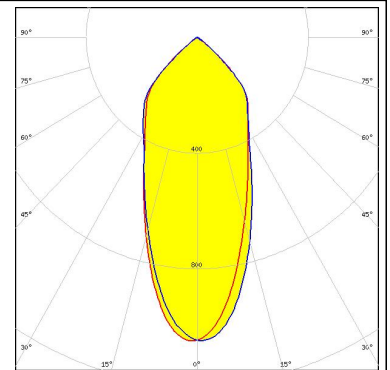
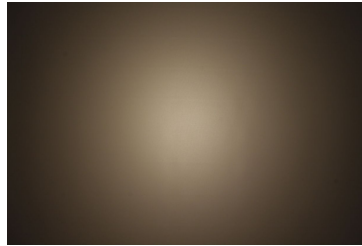
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 38.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.320 cd/lm</p> <p>Required components: BJB: 47.319.2040</p>		
<p>bridgelux.</p> <p>LED V15 Gen6</p> <p>FWHM 41.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: BJB: 47.319.2224</p>		
<p>bridgelux.</p> <p>LED V18 Gen6</p> <p>FWHM 44.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>Required components: BJB: 47.319.2274</p>		
<p>bridgelux.</p> <p>LED V18 Gen7</p> <p>FWHM 44.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>Required components: BJB: 47.319.2350</p>		

PHOTOMETRIC DATA (MEASURED):

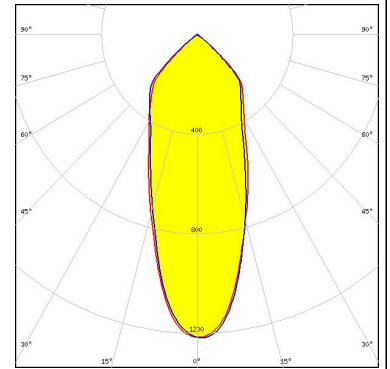
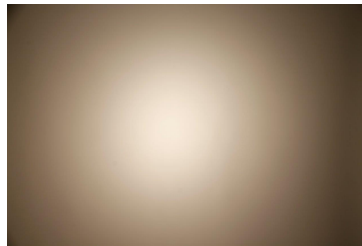
CITIZEN

LED CLL03x/CLU03x
 FWHM 43.0°
 Efficiency 89 %
 Peak intensity 1.050 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8101/G2



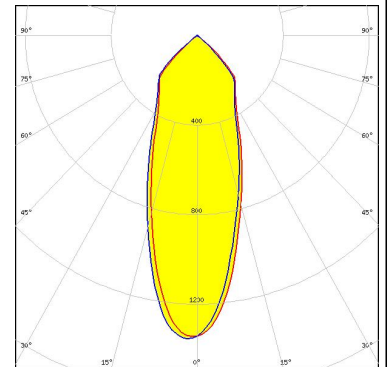
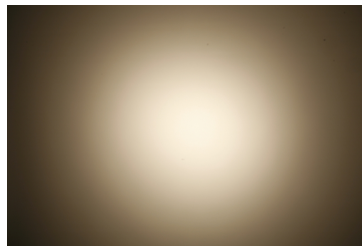
CITIZEN

LED CLL03x/CLU03x
 FWHM 39.0°
 Efficiency 94 %
 Peak intensity 1.220 cd/lm
 Required components:
 A.A.G. STUCCHI: 8101/G2



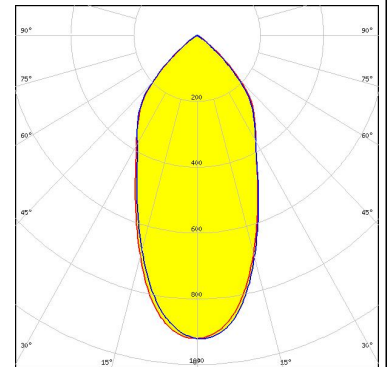
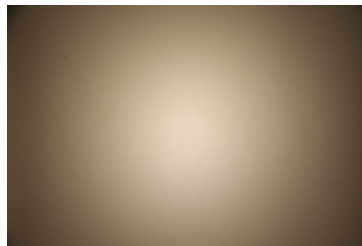
CITIZEN

LED CLL03x/CLU03x
 FWHM 37.0°
 Efficiency 92 %
 Peak intensity 1.400 cd/lm
 Required components:
 BJB: 47.319.2021



CITIZEN

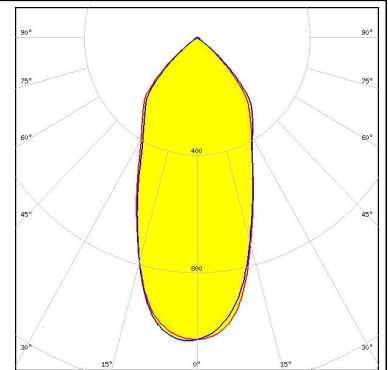
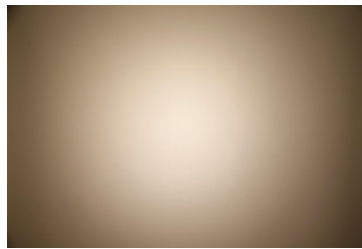
LED CLL04x/CLU04x
 FWHM 50.0°
 Efficiency 87 %
 Peak intensity 0.920 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8102/G2



PHOTOMETRIC DATA (MEASURED):

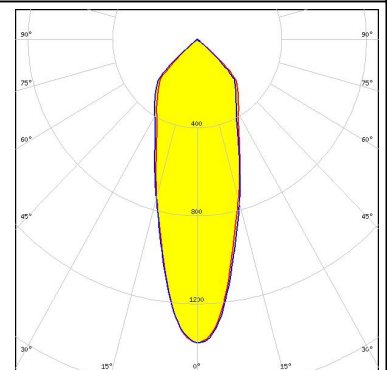
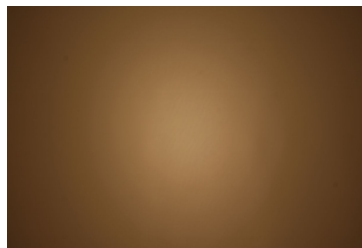
CITIZEN

LED CLL04x/CLU04x
 FWHM 39.0°
 Efficiency 94 %
 Peak intensity 1.200 cd/lm
 Required components:
 A.A.G. STUCCHI: 8102/G2



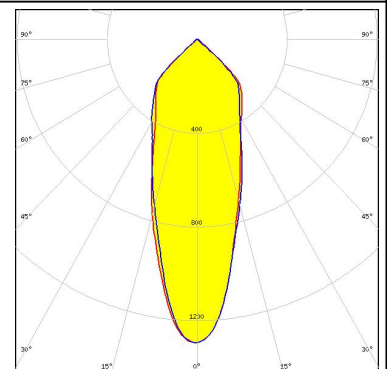
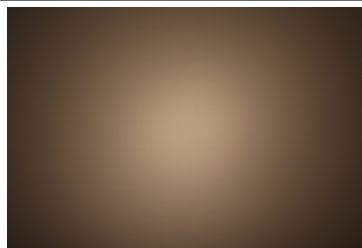
CITIZEN

LED CLU720/721
 FWHM 34.0°
 Efficiency 94 %
 Peak intensity 1.400 cd/lm
 Required components:
 BJB: 47.319.2021



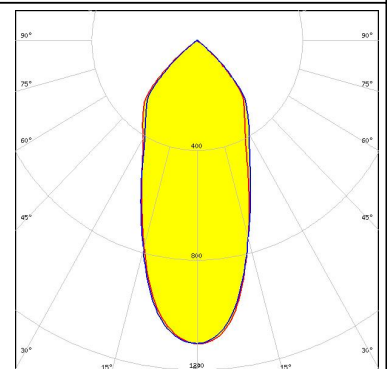
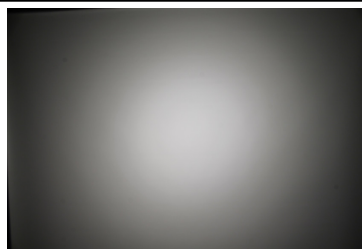
CITIZEN

LED CLU720/721
 FWHM 35.0°
 Efficiency 94 %
 Peak intensity 1.300 cd/lm
 Required components:
 A.A.G. STUCCHI: 8101/G2



CREE

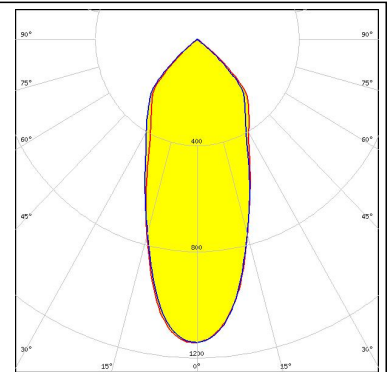
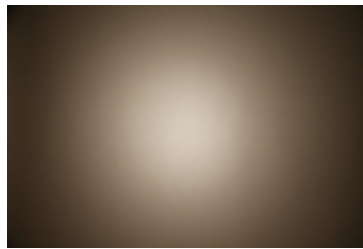
LED CXA/B 25xx
 FWHM 44.0°
 Efficiency 92 %
 Peak intensity 1.100 cd/lm
 Required components:
 BJB: 47.319.2141



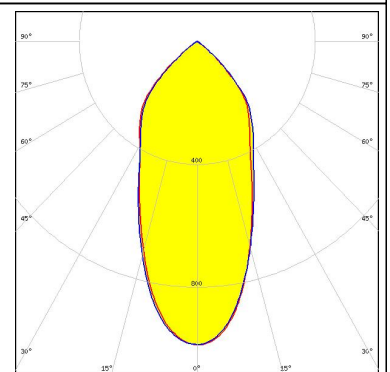
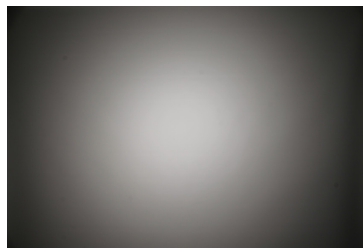
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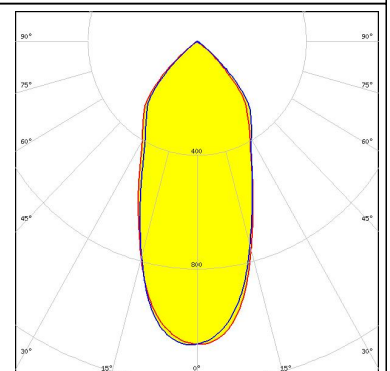
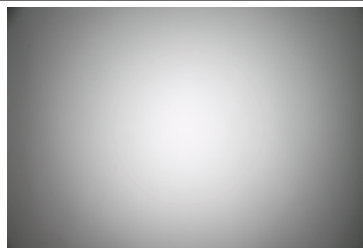
LED CXA/B 25xx
FWHM 42.0°
Efficiency 93 %
Peak intensity 1.140 cd/lm
Required components:
A.A.G. STUCCHI: 8401/G2



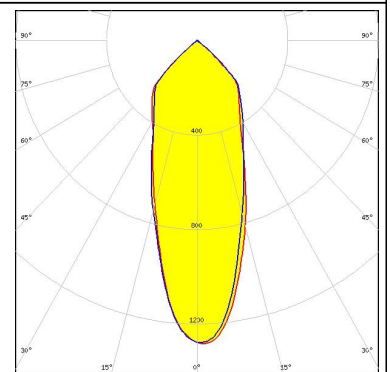
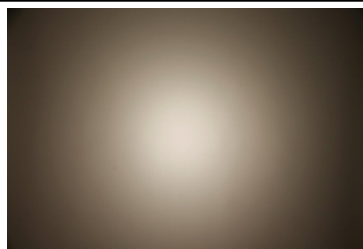
LED CXA/B 25xx
FWHM 46.0°
Efficiency 89 %
Peak intensity 0.990 cd/lm
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2141



LED CXA/B 30xx
FWHM 45.0°
Efficiency 92 %
Peak intensity 1.070 cd/lm
Required components:
A.A.G. STUCCHI: 8404/G2



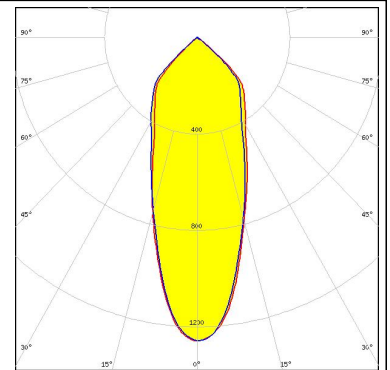
LED COB 10W/13W/17W/24W
FWHM 37.0°
Efficiency 94 %
Peak intensity 1.280 cd/lm
Required components:
A.A.G. STUCCHI: 8600/G2



PHOTOMETRIC DATA (MEASURED):

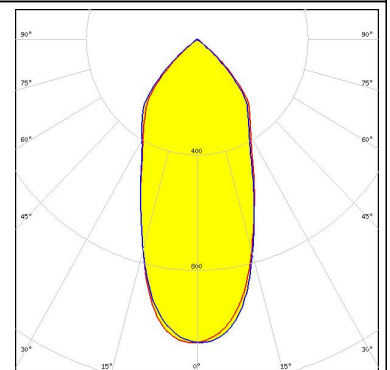
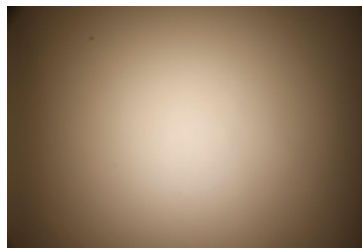
LG Innotek

LED COB 10W/13W/17W/24W
 FWHM 38.0°
 Efficiency 93 %
 Peak intensity 1.300 cd/lm
 Required components:
 BJB: 47.319.2080



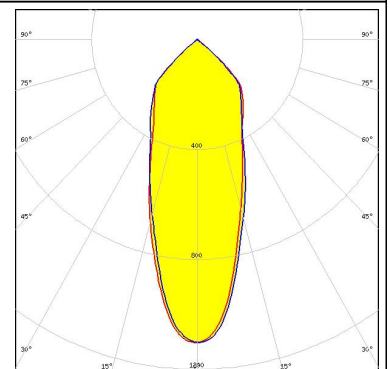
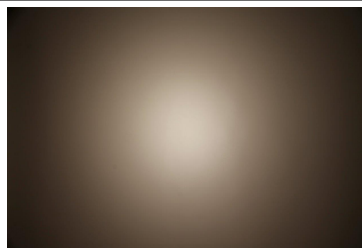
LG Innotek

LED COB 40W/60W
 FWHM 46.0°
 Efficiency 91 %
 Peak intensity 1.050 cd/lm
 Required components:
 A.A.G. STUCCHI: 8102/G2



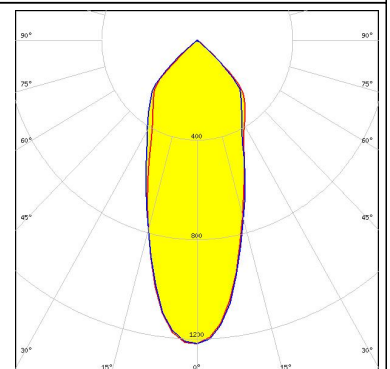
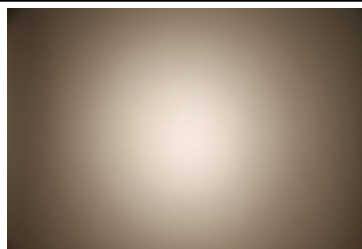
LUMILEDS

LED LUXEON CoB 1204/1205
 FWHM 38.0°
 Efficiency 94 %
 Peak intensity 1.260 cd/lm
 Required components:
 A.A.G. STUCCHI: 8301/G2



LUMILEDS

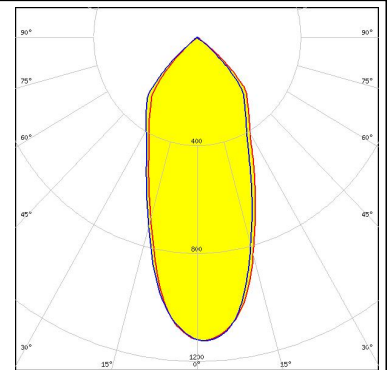
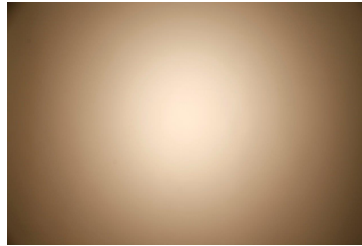
LED LUXEON CoB 1208
 FWHM 39.0°
 Efficiency 94 %
 Peak intensity 1.230 cd/lm
 Required components:
 A.A.G. STUCCHI: 8301/G2



PHOTOMETRIC DATA (MEASURED):

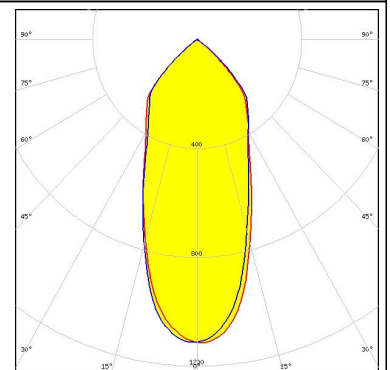
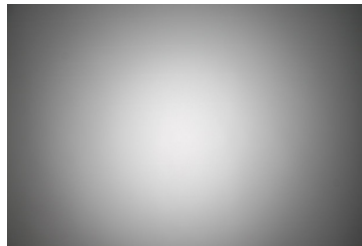
LUMILEDS

LED LUXEON CoB 1211
 FWHM 43.0°
 Efficiency 92 %
 Peak intensity 1.130 cd/lm
 Required components:
 A.A.G. STUCCHI: 8102/G2



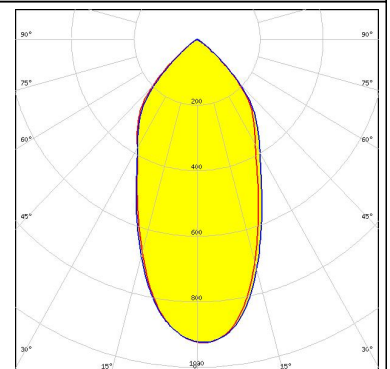
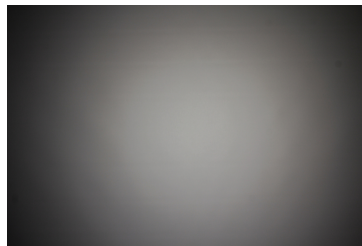
LUMILEDS

LED LUXEON CoB 1211
 FWHM 44.0°
 Efficiency 92 %
 Peak intensity 1.100 cd/lm
 Required components:
 BJB: 47.319.2030



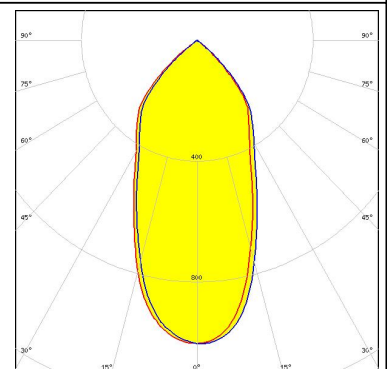
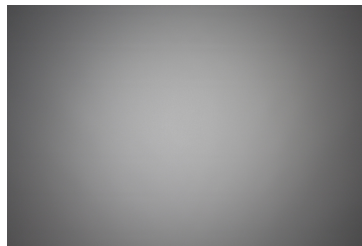
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM 50.0°
 Efficiency 88 %
 Peak intensity 0.930 cd/lm
 Required components:
 F13671_ANGLE-RZ-LENS
 BJB: 47.319.2030



LUMILEDS

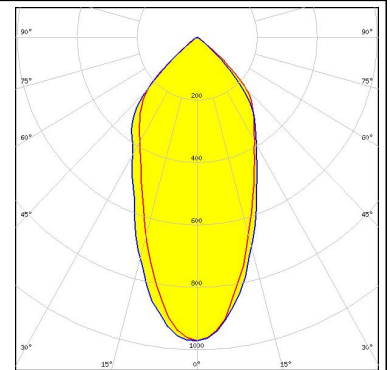
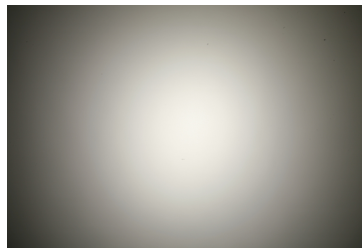
LED LUXEON CoB 1216/1812
 FWHM 49.0°
 Efficiency 91 %
 Peak intensity 1.000 cd/lm
 Required components:
 BJB: 47.319.2030



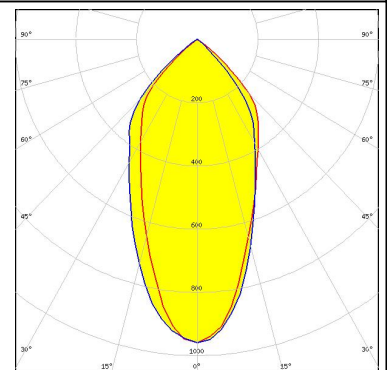
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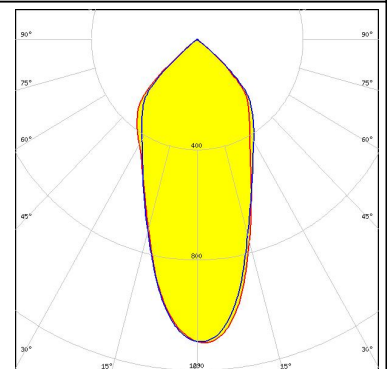
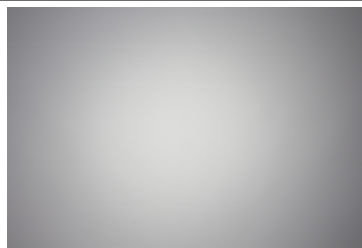
LED LUXEON K12
FWHM 48.0°
Efficiency 89 %
Peak intensity 1.000 cd/lm
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2070



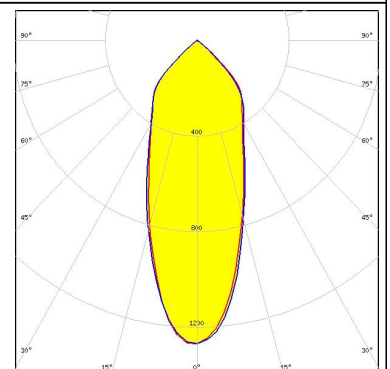
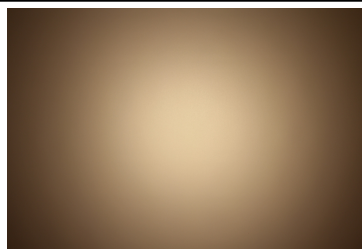
LED LUXEON K16
FWHM 50.0°
Efficiency 89 %
Peak intensity 1.000 cd/lm
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2070



LED LUXEON K16
FWHM 44.0°
Efficiency 94 %
Peak intensity 1.100 cd/lm
Required components:
BJB: 47.319.2070



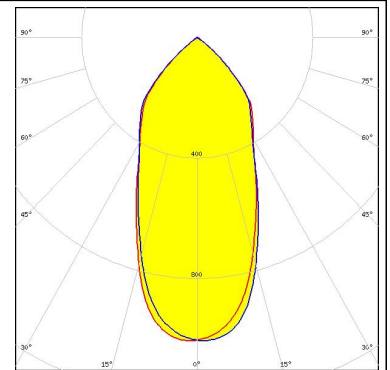
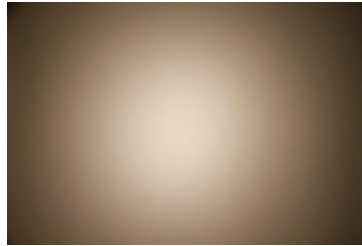
LED CXM-14
FWHM 40.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
Required components:
BJB: 47.319.2021



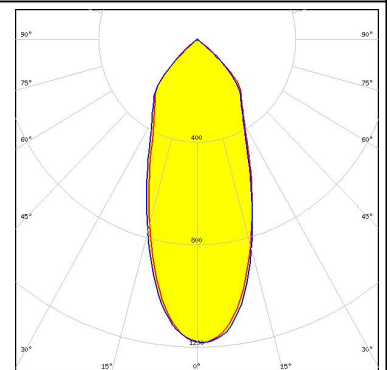
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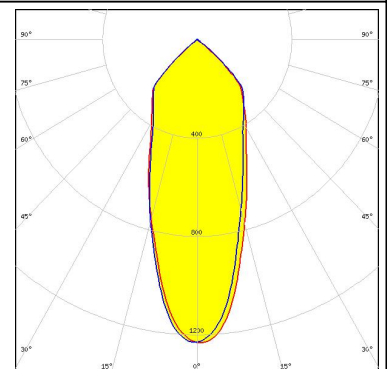
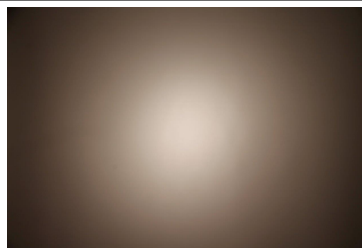
LED CXM-22
 FWHM 48.0°
 Efficiency 92 %
 Peak intensity 1.000 cd/lm
 Required components:
 BJB: 47.319.2030



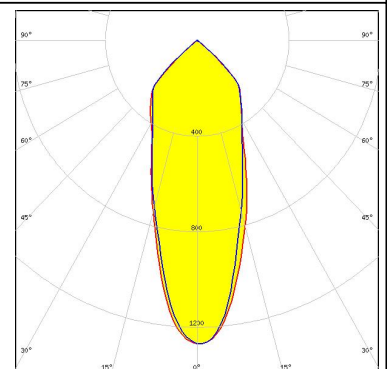
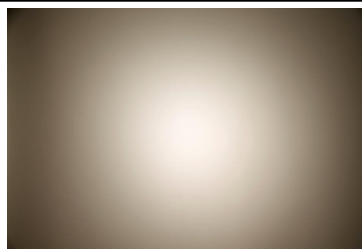
LED Soleriq E30
 FWHM 42.0°
 Efficiency 90 %
 Peak intensity 1.190 cd/lm
 Required components:
 BJB: 47.319.2090




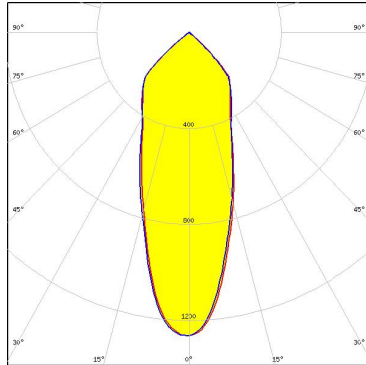
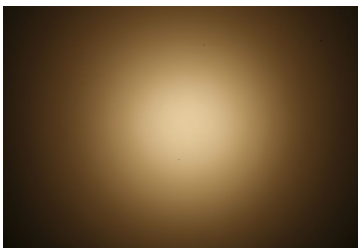
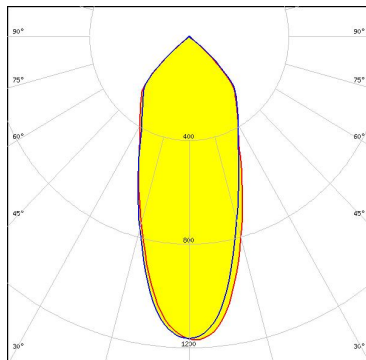

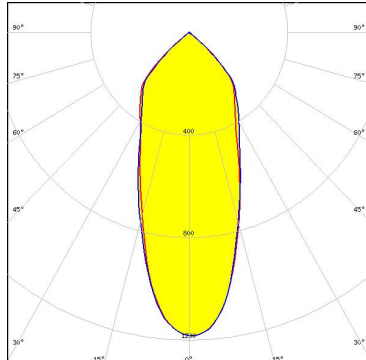
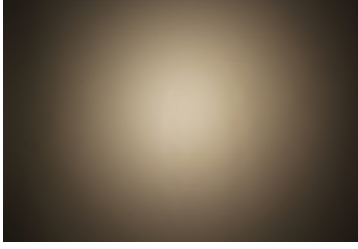
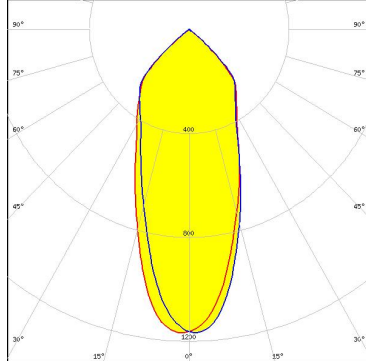
LED Soleriq P13
 FWHM 39.0°
 Efficiency 94 %
 Peak intensity 1.230 cd/lm
 Required components:
 A.A.G. STUCCHI: 8502/G2



LED Soleriq S13
 FWHM 37.0°
 Efficiency 94 %
 Peak intensity 1.270 cd/lm
 Required components:
 A.A.G. STUCCHI: 8502/G2



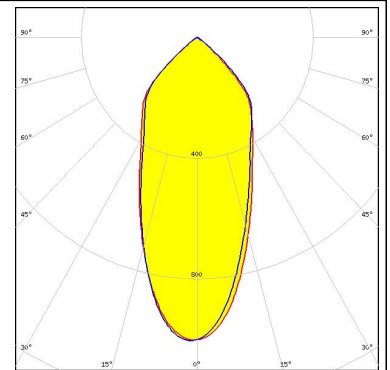
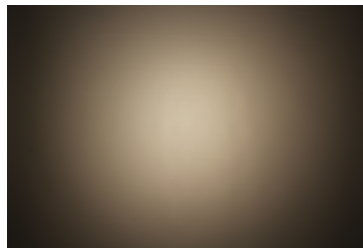
PHOTOMETRIC DATA (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13 Gen2 FWHM 37.0° Efficiency 93 % Peak intensity 0.920 cd/lm Required components: BJB: 47.319.2021</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S19 FWHM 41.0° Efficiency 94 % Peak intensity 1.170 cd/lm Required components: BJB: 47.319.2170</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S19 FWHM 41.0° Efficiency 93 % Peak intensity 1.200 cd/lm Required components: A.A.G. STUCCHI: 8503/G2</p>		
<p>SAMSUNG</p> <p>LED COB D Series LES 14.5 mm FWHM 41.0° Efficiency 93 % Peak intensity 1.170 cd/lm Required components: BJB: 47.319.2021</p>		

PHOTOMETRIC DATA (MEASURED):

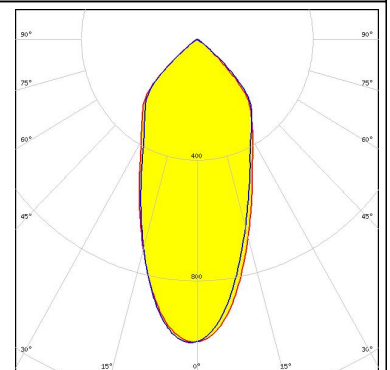
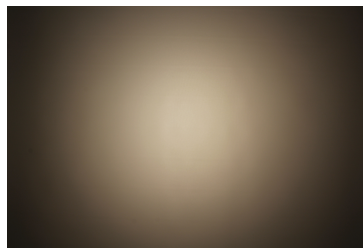
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 45.0°
 Efficiency 89 %
 Peak intensity 1.000 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8101/G2



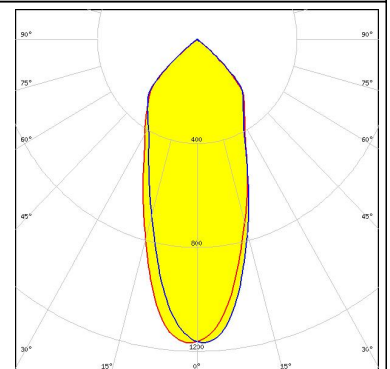
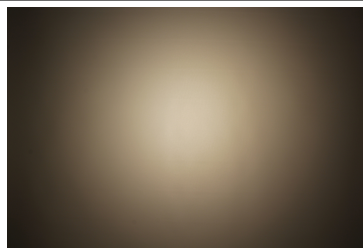
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 45.0°
 Efficiency 89 %
 Peak intensity 1.000 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 BJB: 47.319.2021



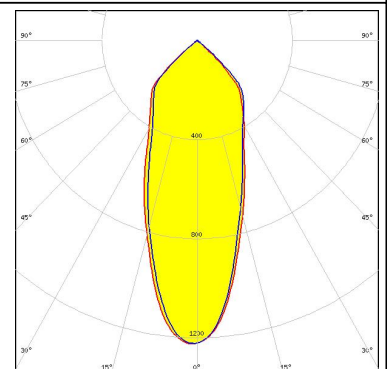
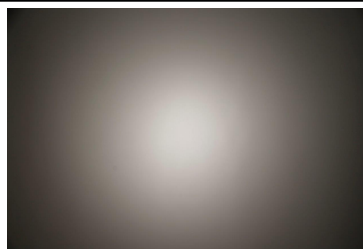
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 41.0°
 Efficiency 93 %
 Peak intensity 1.170 cd/lm
 Required components:
 A.A.G. STUCCHI: 8101/G2


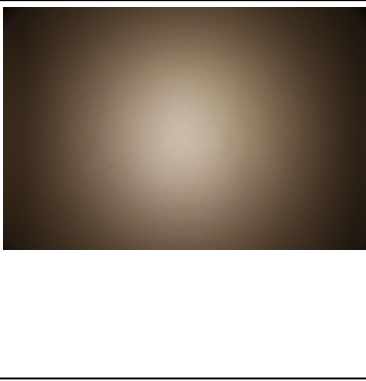
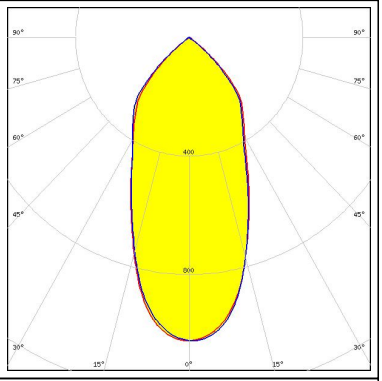
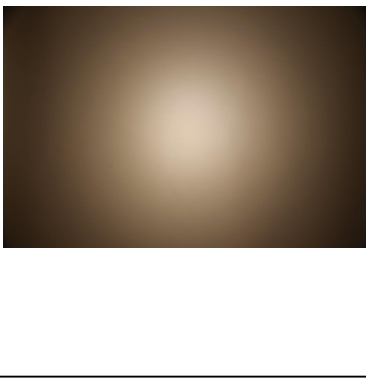
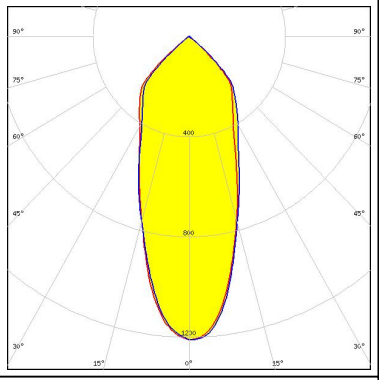
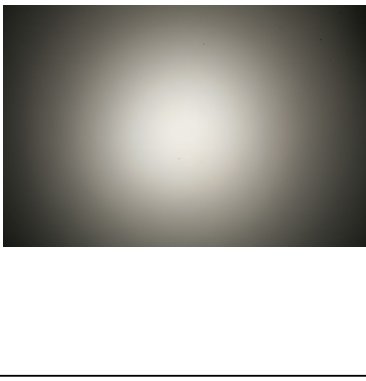
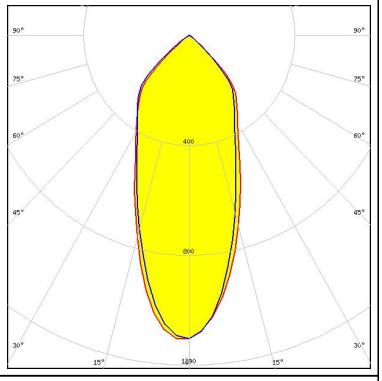

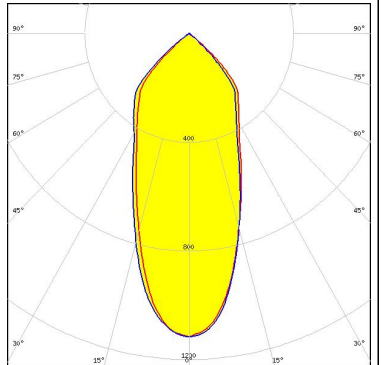


SEOUL SEMICONDUCTOR

LED ZC12/18
 FWHM 39.0°
 Efficiency 93 %
 Peak intensity 1.230 cd/lm
 Required components:
 A.A.G. STUCCHI: 8101/G2



PHOTOMETRIC DATA (MEASURED):

<p> SEUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 47.0° Efficiency 92 % Peak intensity 1.030 cd/lm Required components: A.A.G. STUCCHI: 8102/G2</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW6DME) FWHM 40.0° Efficiency 94 % Peak intensity 1.210 cd/lm Required components: A.A.G. STUCCHI: 8301/G2</p>		
<p>SHARP</p> <p>LED Tiger Zenigata (GWTGCBG4FD) FWHM 41.0° Efficiency 90 % Peak intensity 1.100 cd/lm Required components: F13671_ANGE-RZ-LENS BJB: 47.319.2051</p>		
<p>XICATO</p> <p>LED XTM - 19mm LES FWHM 43.0° Efficiency 93 % Peak intensity 1.100 cd/lm Required components: C15743_XTM-ADAPTER-50-B</p>		

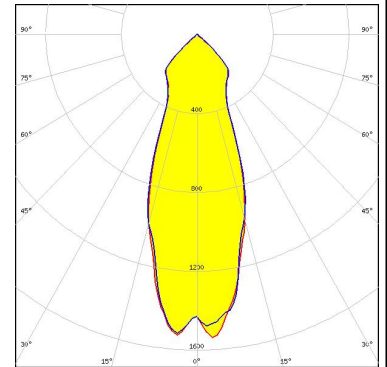
PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED CLL04x/CLU04x
FWHM 37.0°
Efficiency 95 %
Peak intensity 1.600 cd/lm
Required components:
BJB: 47.319.2030

CITIZEN

LED CLU730/731
FWHM 37.0°
Efficiency 91 %
Peak intensity 1.570 cd/lm
Required components:
BJB: 47.319.2030

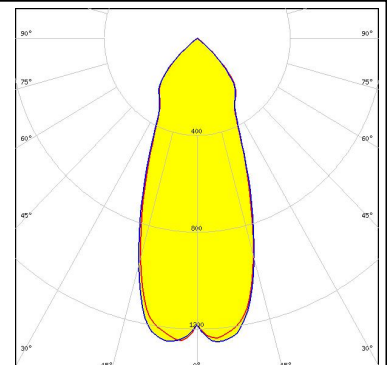


LUMILEDS

LED LUXEON K12
FWHM 29.0°
Efficiency %
Peak intensity cd/lm
Required components:
BJB: 47.319.2070

SAMSUNG

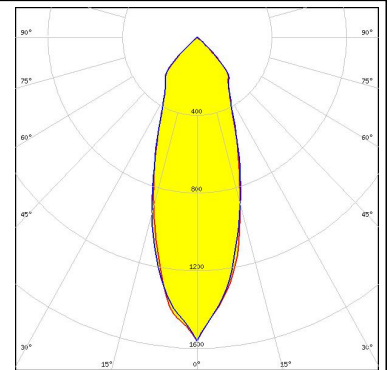
LED COB D Series LES 22 mm
FWHM 41.0°
Efficiency 90 %
Peak intensity 1.270 cd/lm
Required components:
BJB: 47.319.2030



PHOTOMETRIC DATA (SIMULATED):

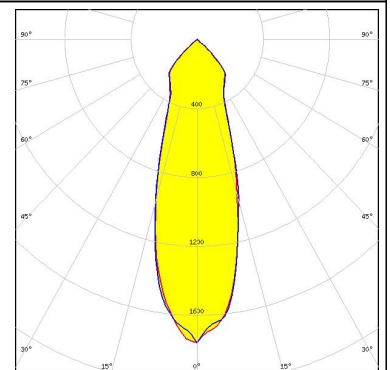
TRIDONIC

LED SLE G6 LES15 H D50
FWHM 35.0°
Efficiency 91 %
Peak intensity 1.560 cd/lm
Required components:



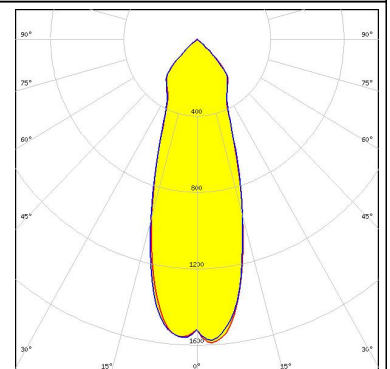
TRIDONIC

LED SLE G6 LES17 H
FWHM 32.0°
Efficiency 91 %
Peak intensity 1.800 cd/lm
Required components:



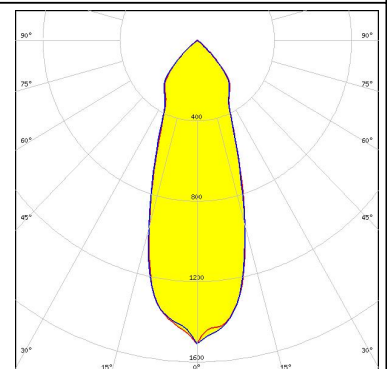
TRIDONIC

LED SLE G6 LES19 H
FWHM 34.0°
Efficiency 91 %
Peak intensity 1.620 cd/lm
Required components:



TRIDONIC

LED SLE G6 LES23 H
FWHM 36.0°
Efficiency 90 %
Peak intensity 1.510 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.

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