

LENA-X-WAS

White version with asymmetric beam for wall-washing

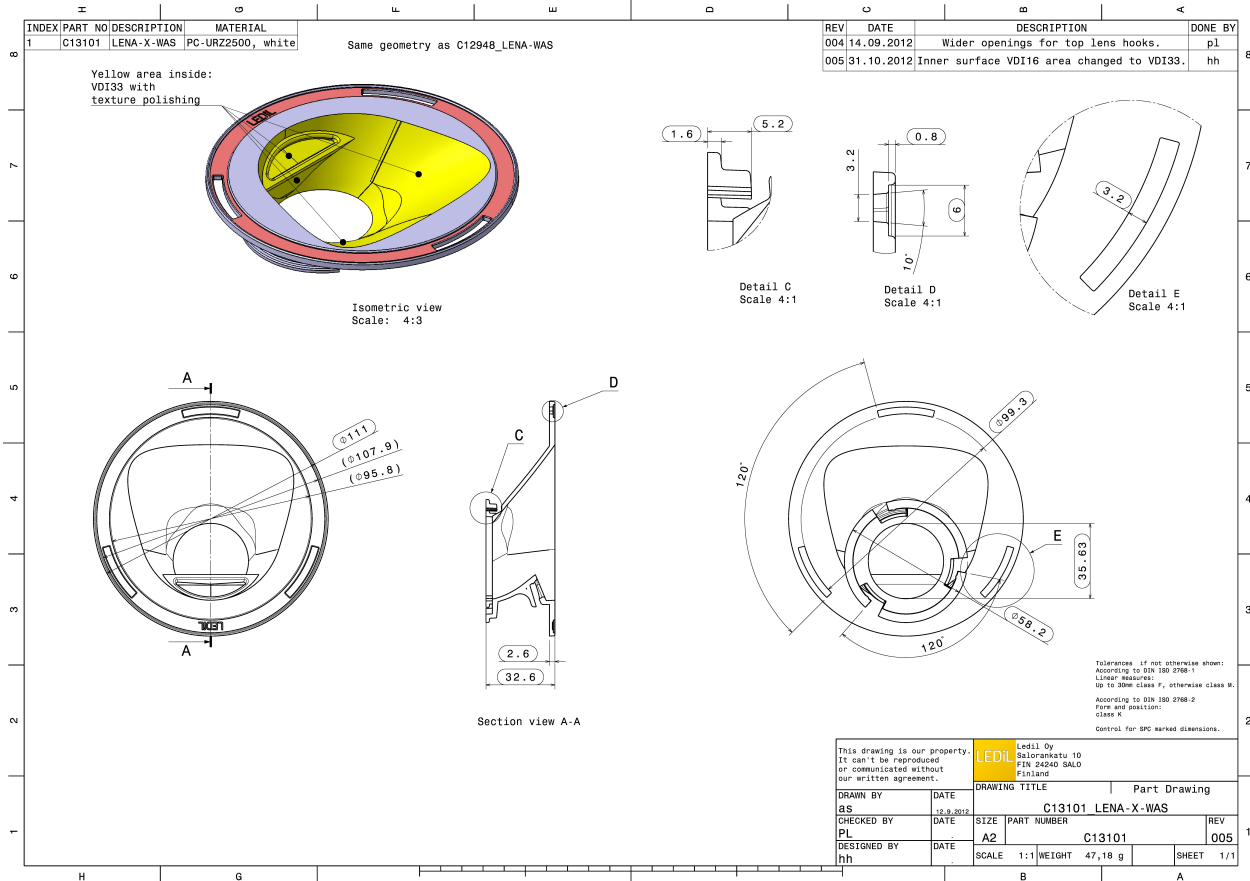
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 111.0 mm
Height	32.6 mm
Fastening	glue
Colour	white
Box size	480 x 280 x 300 mm
Box weight	3.2 kg
Quantity in Box	56 pcs
ROHS compliant	yes ⓘ

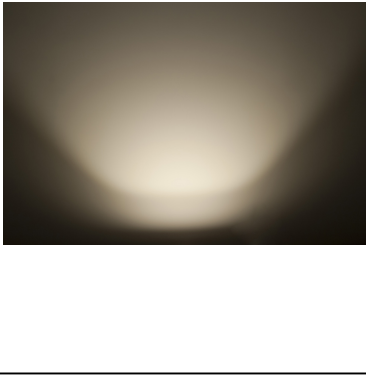
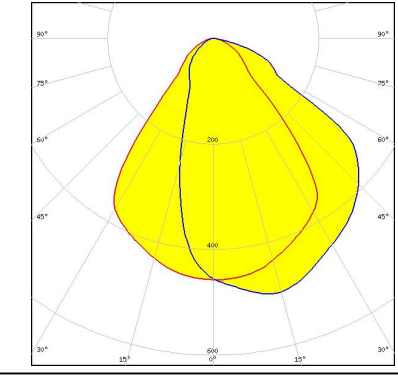
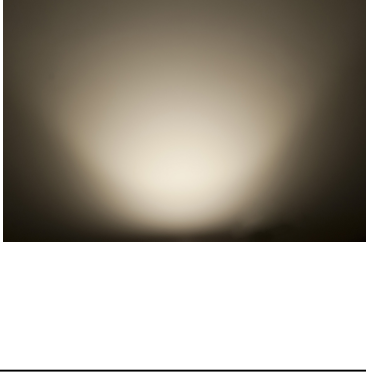
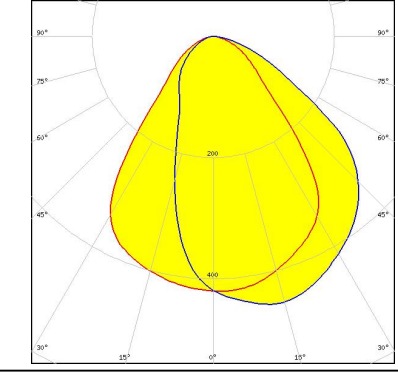

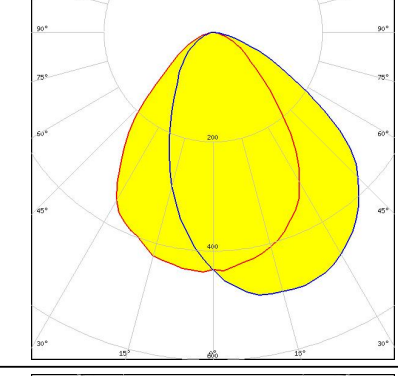

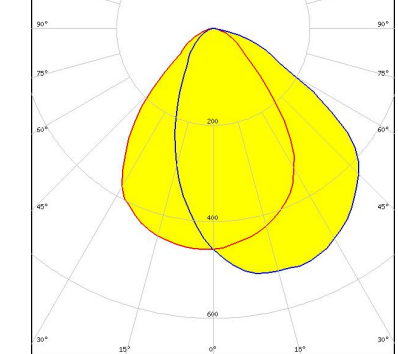


MATERIAL SPECIFICATIONS:


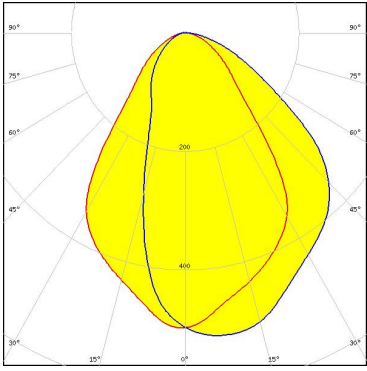
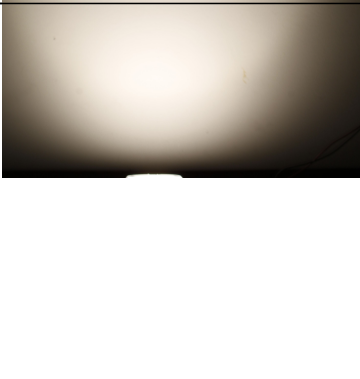
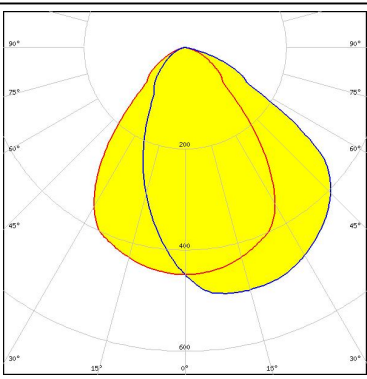

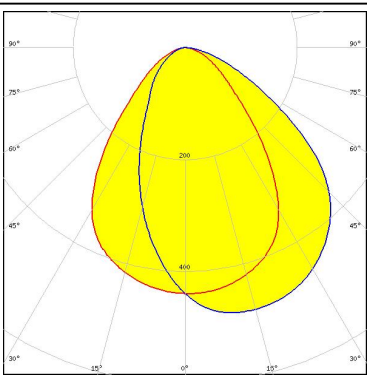

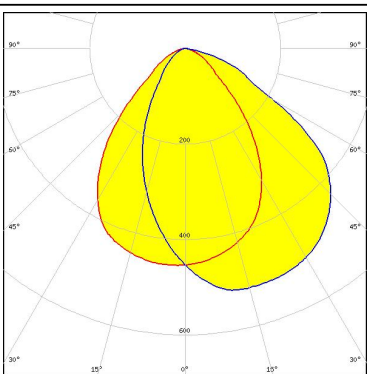
Component	Type	Material	Colour	Coating
LENA-X-WAS	Reflector	HRPC	white	



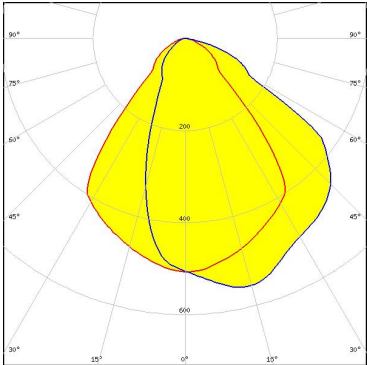
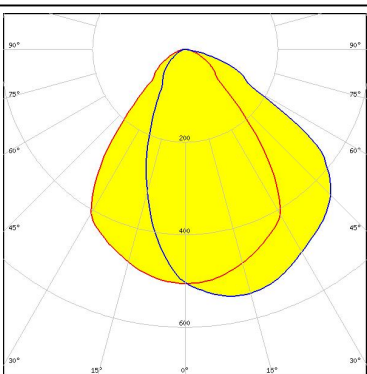
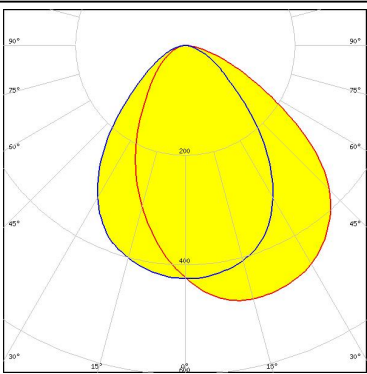
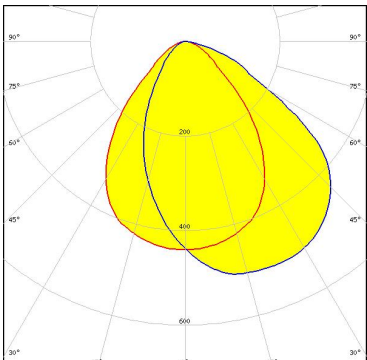
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM Asymmetric</p> <p>Efficiency 81 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components: C12153_LENA-STD-BASE-BXRA</p>		
<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM Asymmetric</p> <p>Efficiency 77 %</p> <p>Peak intensity 0.460 cd/lm</p> <p>Required components: C12153_LENA-STD-BASE-BXRA C11996_LENA-LENS</p>		
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM Asymmetric</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS</p>		
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM Asymmetric</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components: C12229_LENA-STD-BASE-RS</p>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen6</p> <p>FWHM Asymmetric</p> <p>Efficiency 82 %</p> <p>Peak intensity 0.520 cd/lm</p> <p>Required components:</p> <p>C13186_LENA-STD-BASE-CXA15</p> <p>C11996_LENA-LENS</p>		
<p>bridgelux.</p> <p>LED V22 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components:</p> <p>C13867_LENA-STD-BASE-VERO29</p> <p>C14169_LENA-CLEAR-LENS</p> <p>Bender Wirth: 431 Typ L3</p>		
<p>bridgelux.</p> <p>LED V22 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components:</p> <p>C13867_LENA-STD-BASE-VERO29</p> <p>C11996_LENA-LENS</p> <p>Bender Wirth: 431 Typ L3</p>		
<p>bridgelux.</p> <p>LED Vero SE 29</p> <p>FWHM Asymmetric</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components:</p> <p>C15083_LENA-STD-BASE-VERO29</p>		

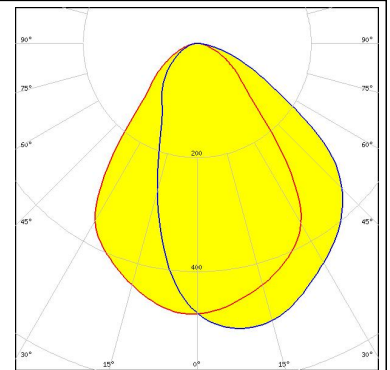
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM Asymmetric</p> <p>Efficiency 92 %</p> <p>Peak intensity 0.550 cd/lm</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18</p>	
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM Asymmetric</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.550 cd/lm</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18</p>	
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM Asymmetric</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.480 cd/lm</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 C11996_LENA-LENS</p>	
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM Asymmetric</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.510 cd/lm</p> <p>Required components: C13867_LENA-STD-BASE-VERO29</p>	

PHOTOMETRIC DATA (MEASURED):

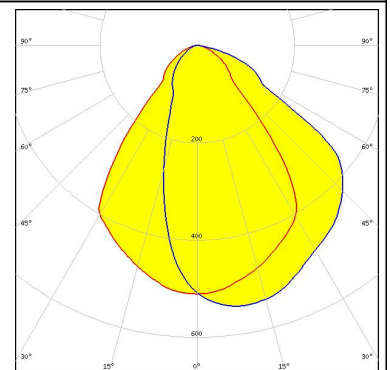
CITIZEN

LED CL-L340
 FWHM Asymmetric
 Efficiency 82 %
 Peak intensity 0.500 cd/lm
 Required components:
 C11995_LENA-STD-BASE-CL340
 C11996_LENA-LENS



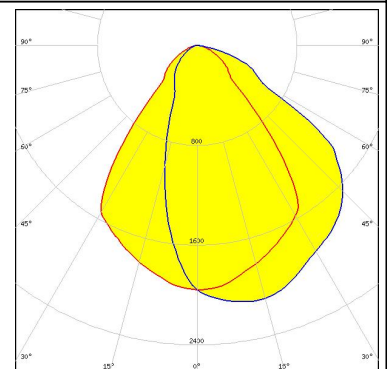
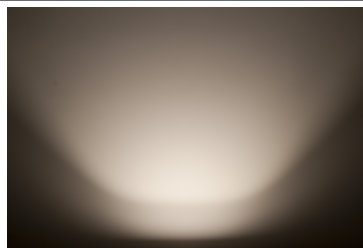
CITIZEN

LED CL-L340
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 1.170 cd/lm
 Required components:
 C11995_LENA-STD-BASE-CL340



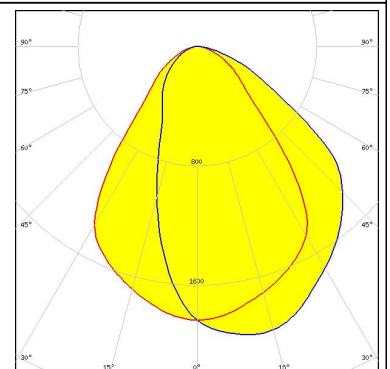
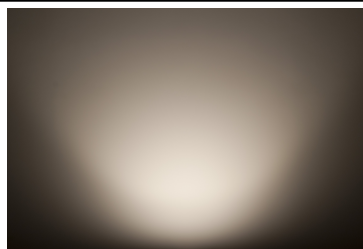
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 81 %
 Peak intensity 1.160 cd/lm
 Required components:
 C12691_LENA-STD-BASE-CLL030



CITIZEN

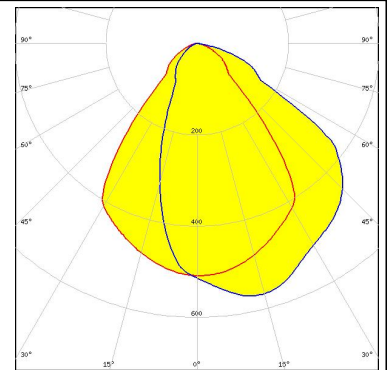
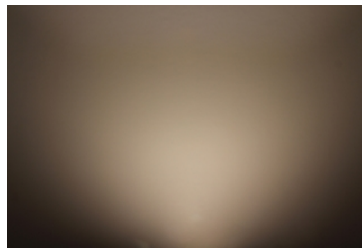
LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 0.500 cd/lm
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

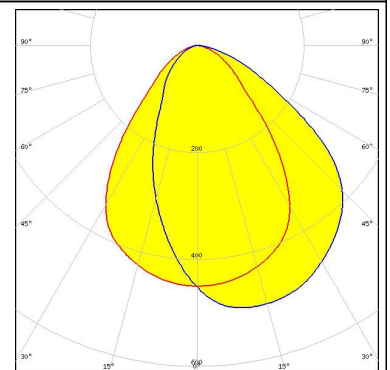
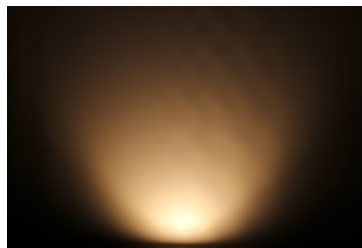
CITIZEN

LED CLL03x/CLU03x
FWHM Asymmetric
Efficiency 91 %
Peak intensity 0.570 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1



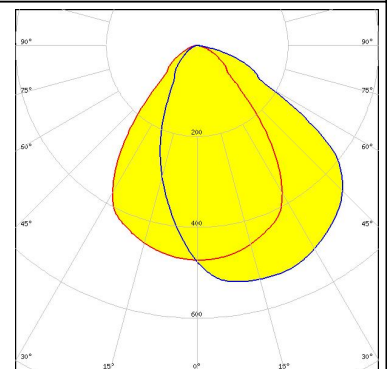
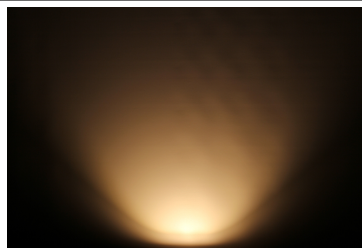
CITIZEN

LED CLL04x/CLU04x
FWHM Asymmetric
Efficiency 85 %
Peak intensity 0.500 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
C11996_LENA-LENS
Bender Wirth: 431 Typ L3



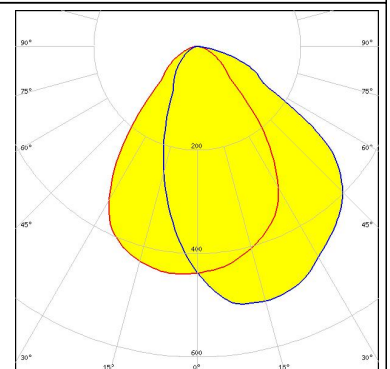
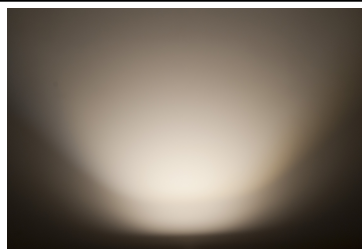
CITIZEN

LED CLL04x/CLU04x
FWHM Asymmetric
Efficiency 90 %
Peak intensity 0.530 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



CITIZEN

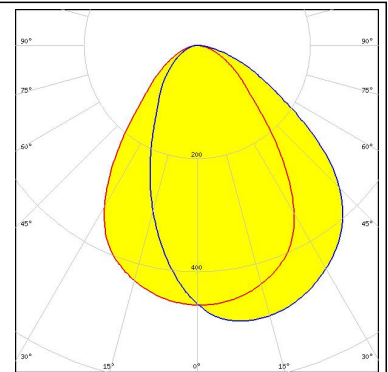
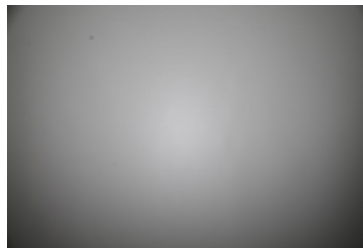
LED CLL04x/CLU04x
FWHM Asymmetric
Efficiency 82 %
Peak intensity 0.950 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):

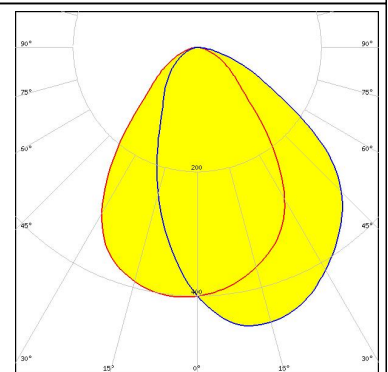
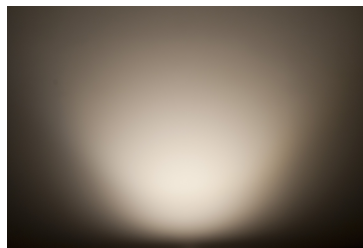
CITIZEN

LED CLL04x/CLU04x
FWHM Asymmetric
Efficiency 84 %
Peak intensity 0.500 cd/lm
Required components:
C11996_LENA-LENS
IDEAL: 50-2204CT + 50-2100LN



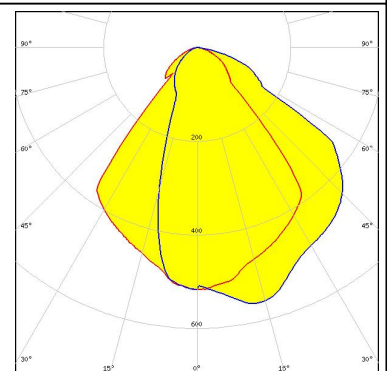
CITIZEN

LED CLL04x/CLU04x
FWHM Asymmetric
Efficiency 74 %
Peak intensity 0.500 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



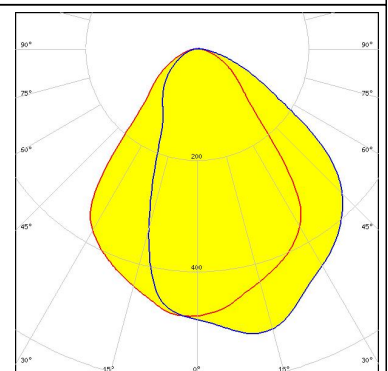
CITIZEN

LED CLU710/711
FWHM Asymmetric
Efficiency 91 %
Peak intensity 0.560 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030



CITIZEN

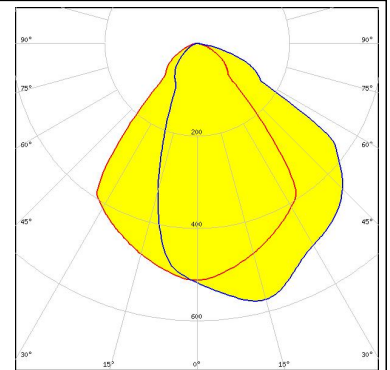
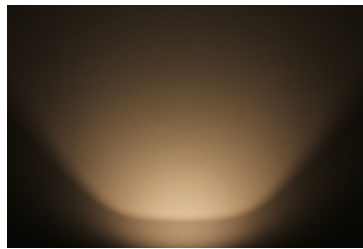
LED CLU710/711
FWHM Asymmetric
Efficiency 86 %
Peak intensity 0.500 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030
C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

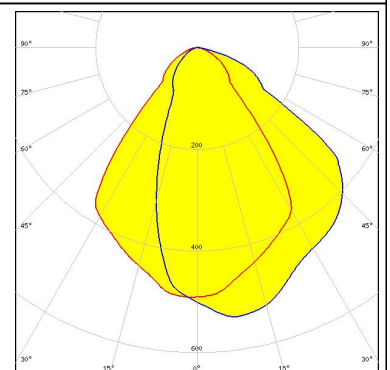
CITIZEN

LED CLU720/721
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 433 Typ L1



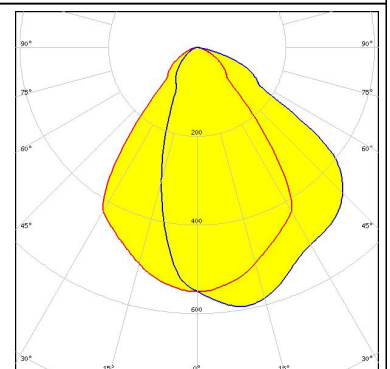
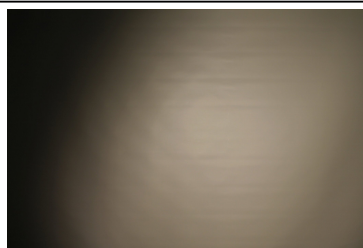
CITIZEN

LED CLU730/731
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.540 cd/lm
 Required components:
 C12692_LENA-STD-BASE-CLL040



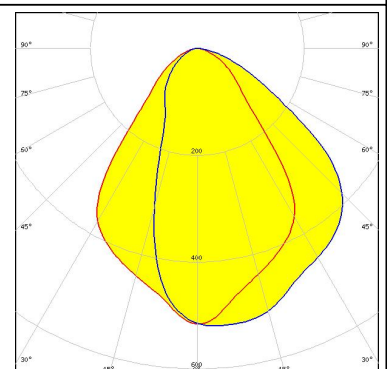
CREE

LED CMA1840
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 0.600 cd/lm
 Required components:
 C14146_LENA-STD-BASE-CXA18



CREE

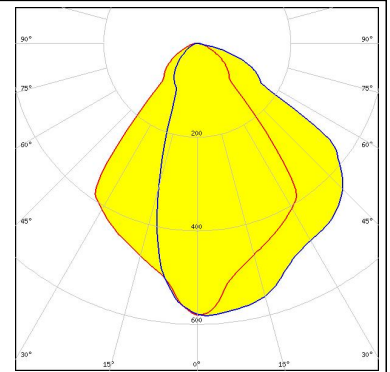
LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.520 cd/lm
 Required components:
 C13186_LENA-STD-BASE-CXA15
 C11996_LENA-LENS



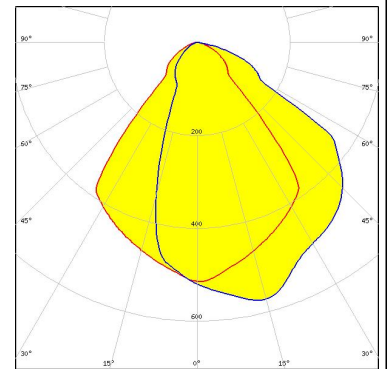
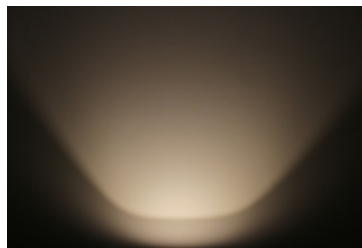
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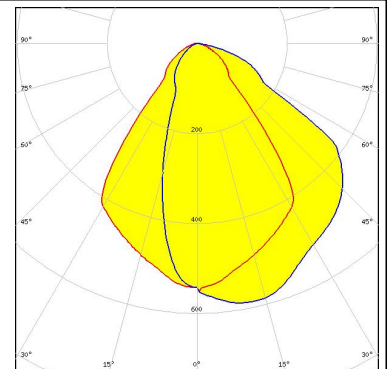
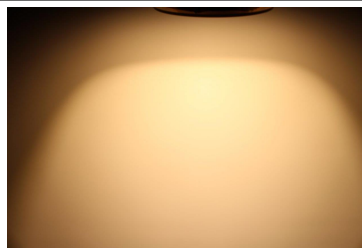
LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 0.580 cd/lm
 Required components:
 C13186_LENA-STD-BASE-CXA15



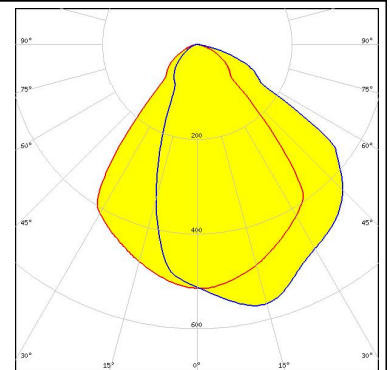
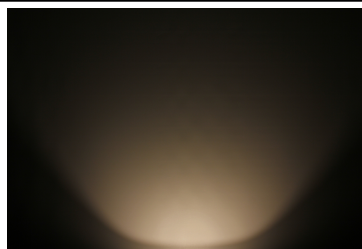
LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 441 Typ L1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.590 cd/lm
 Required components:
 C14146_LENA-STD-BASE-CXA18



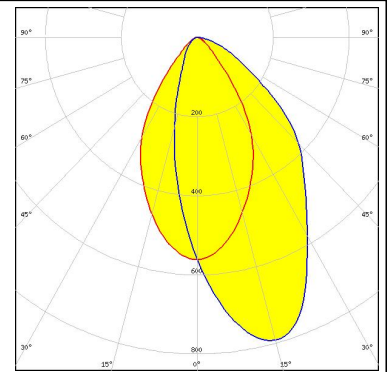
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



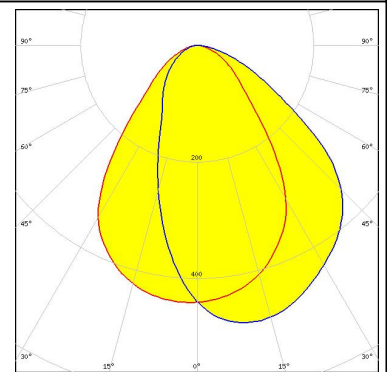
PHOTOMETRIC DATA (MEASURED):



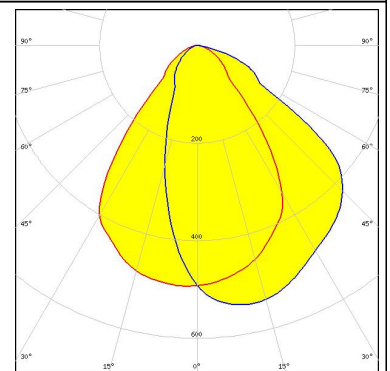
LED CXA/B 25xx
 FWHM Asymmetric
 Efficiency 73 %
 Peak intensity 0.900 cd/lm
 Required components:
 C13324_LENA-STD-BASE-CXA25
 C11996_LENA-LENS



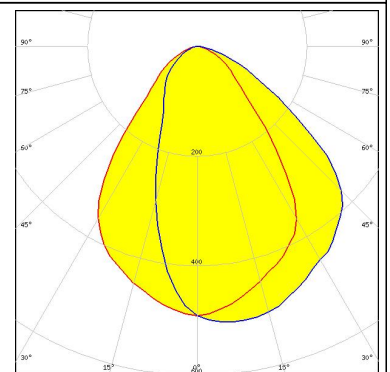
LED CXA/B 25xx
 FWHM Asymmetric
 Efficiency 78 %
 Peak intensity 0.500 cd/lm
 Required components:
 C13324_LENA-STD-BASE-CXA25
 C11996_LENA-LENS



LED CXA/B 25xx
 FWHM Asymmetric
 Efficiency 82 %
 Peak intensity 0.600 cd/lm
 Required components:
 C13324_LENA-STD-BASE-CXA25



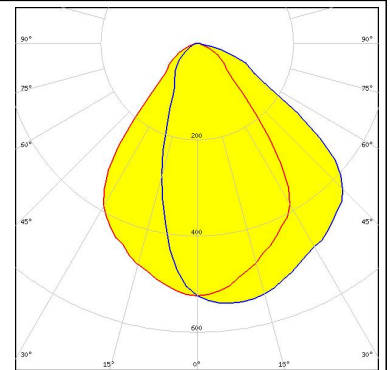
LED CXA2011
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 0.500 cd/lm
 Required components:
 C12105_LENA-STD-BASE-CXA20
 C11996_LENA-LENS



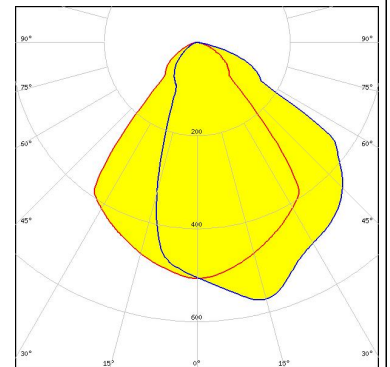
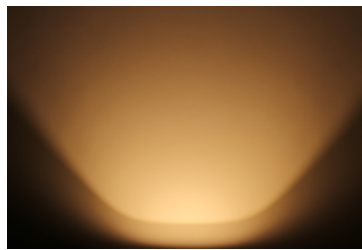
PHOTOMETRIC DATA (MEASURED):



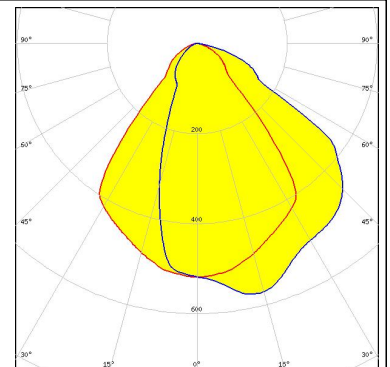
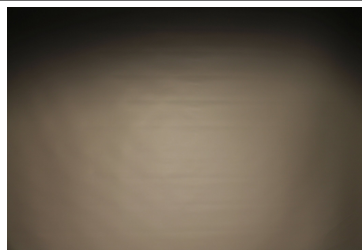
LED CXA2011
 FWHM Asymmetric
 Efficiency 83 %
 Peak intensity 0.500 cd/lm
 Required components:
 C12105_LENA-STD-BASE-CXA20



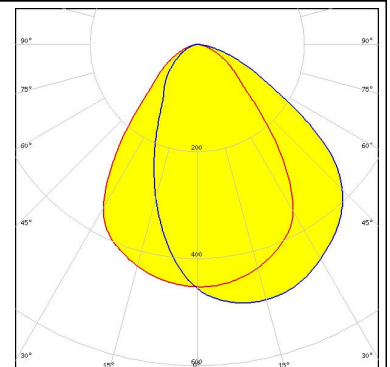
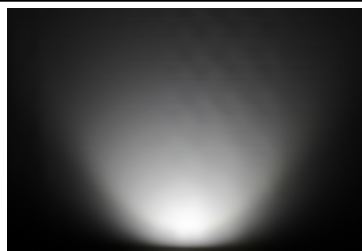
LED LUXEON CoB 1202/1203
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.600 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 438 Typ L1



LED LUXEON CoB 1205HD
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.570 cd/lm
 Required components:
 C11981_LENA-STD-BASE-COB-L110



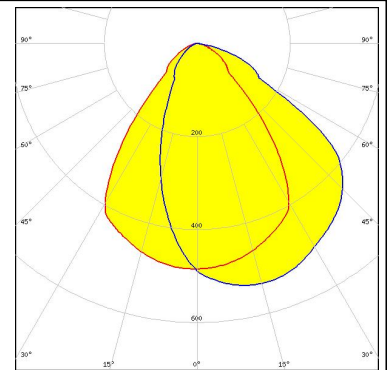
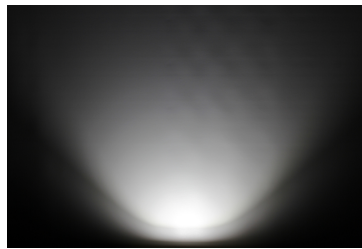
LED LUXEON CoB 1211
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 0.490 cd/lm
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (MEASURED):

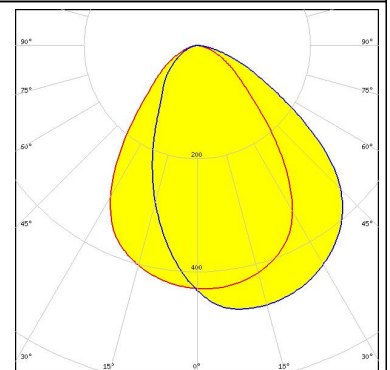
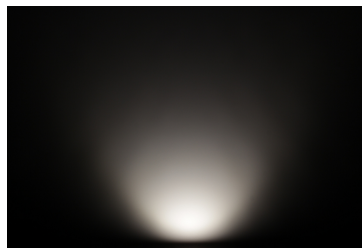
LUMILEDS

LED LUXEON CoB 1211
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 0.530 cd/lm
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 431 Typ L3



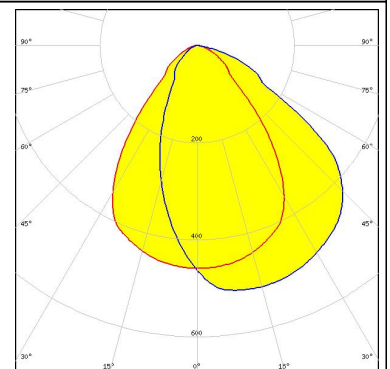
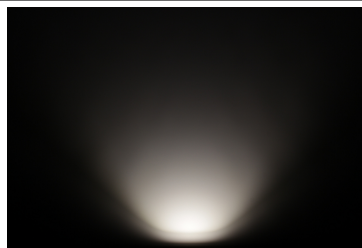
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM Asymmetric
 Efficiency 81 %
 Peak intensity 0.480 cd/lm
 Required components:
 C11996_LENA-LENS
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



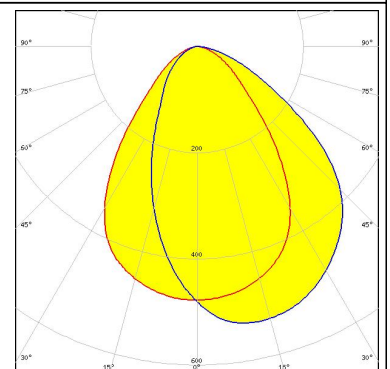
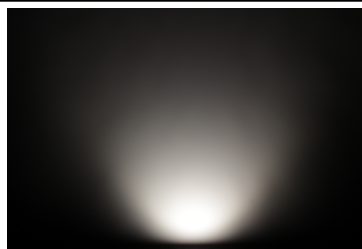
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM 75.0°
 Efficiency 85 %
 Peak intensity 0.510 cd/lm
 Required components:
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



LUMILEDS

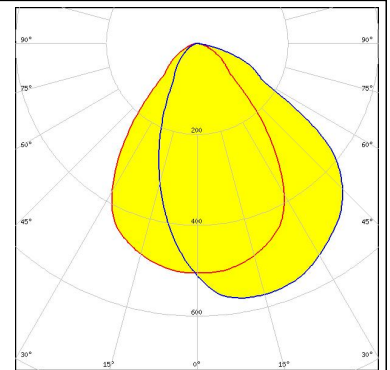
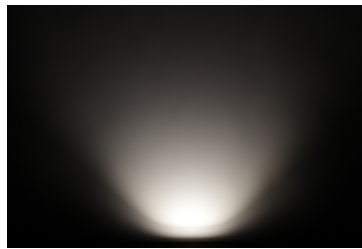
LED LUXEON CoB 1216/1812
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 0.530 cd/lm
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



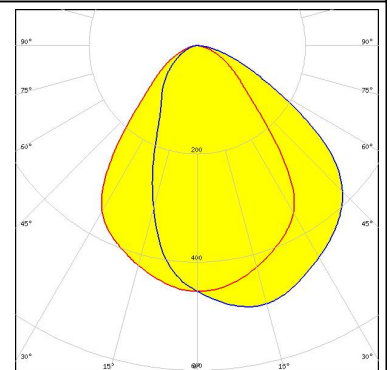
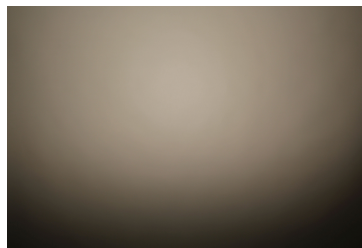
PHOTOMETRIC DATA (MEASURED):



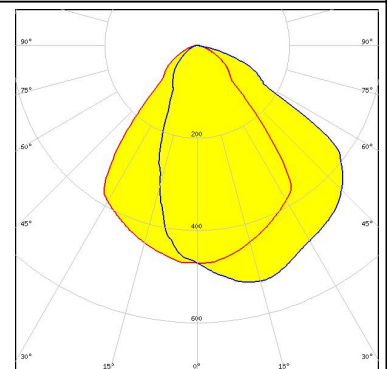
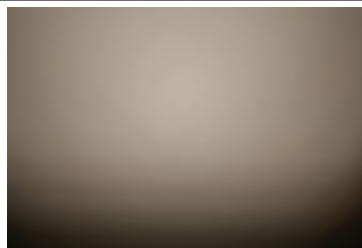
LED LUXEON CoB 1216/1812
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 0.570 cd/lm
 Required components:
 C12692_LENA-STD-BASE-CLL040



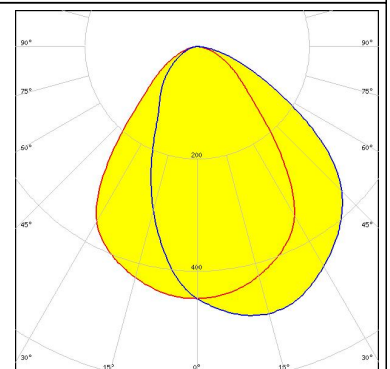
LED CDM-14 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.500 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 491 Typ L2



LED CDM-14 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.500 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.490 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 491 Typ L2



PHOTOMETRIC DATA (MEASURED):



LED CDM-18 (Dim-To-Warm)

FWHM Asymmetric

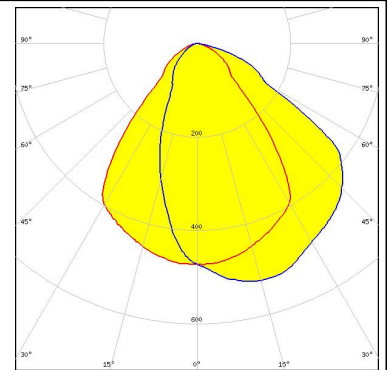
Efficiency 91 %

Peak intensity 0.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 491 Typ L2



LED CDM-9 (Dim-To-Warm)

FWHM Asymmetric

Efficiency 85 %

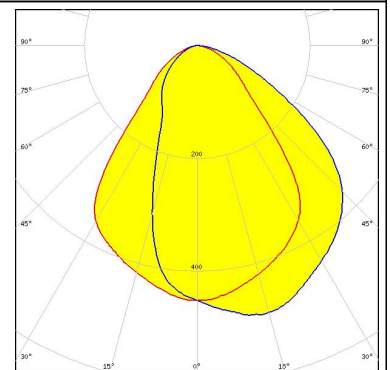
Peak intensity 0.490 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

Bender Wirth: 490 Typ L1



LED CDM-9 (Dim-To-Warm)

FWHM Asymmetric

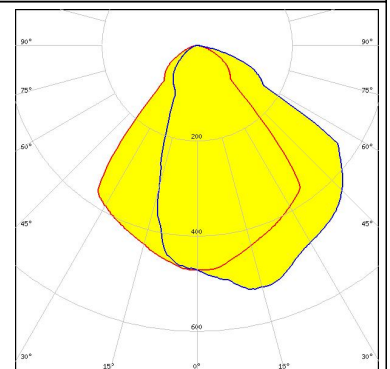
Efficiency 89 %

Peak intensity 0.530 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 490 Typ L1



LED CTM-14 (Tunable White)

FWHM Asymmetric

Efficiency 84 %

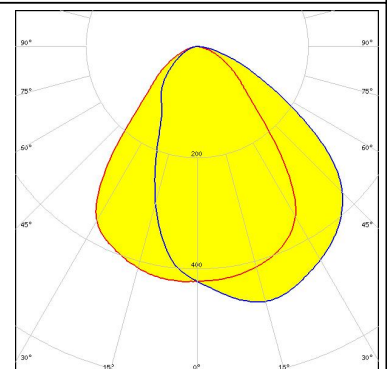
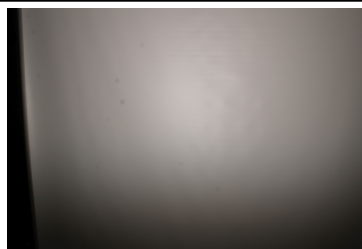
Peak intensity 0.480 cd/lm

Required components:


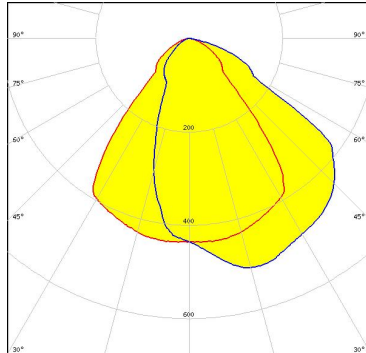
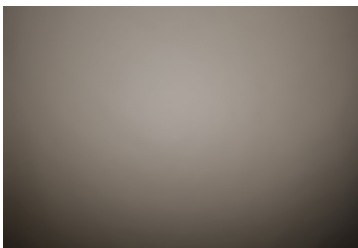
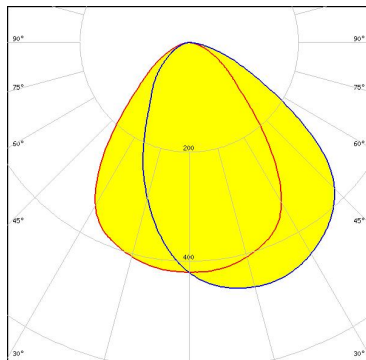

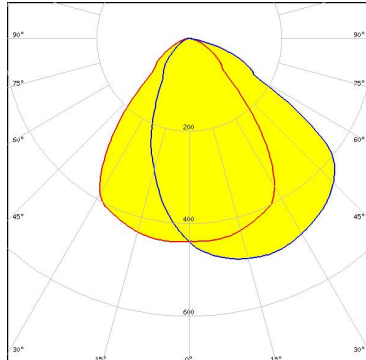
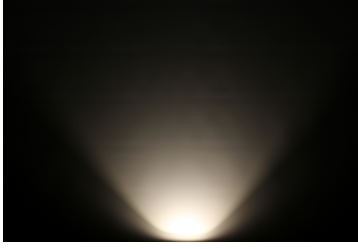
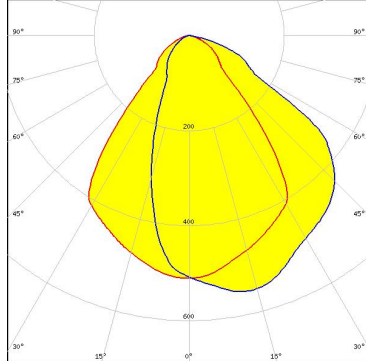
C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 442 Typ L3



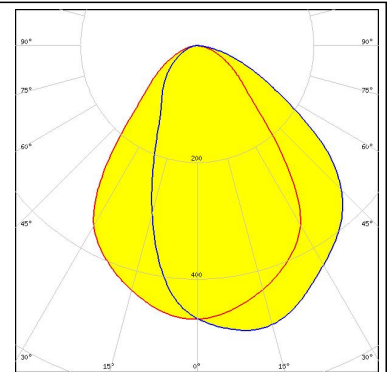
PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CTM-14 (Tunable White)</p> <p>FWHM Asymmetric</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.510 cd/lm</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 442 Typ L3</p>		
<p>LUMINUS</p> <p>LED CTM-22 (Tunable White)</p> <p>FWHM Asymmetric</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.460 cd/lm</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 C11996_LENA-LENS Bender Wirth: 494 Typ L3</p>		
<p>LUMINUS</p> <p>LED CTM-22 (Tunable White)</p> <p>FWHM Asymmetric</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 494 Typ L3</p>		
<p>LUMINUS</p> <p>LED CXM-14</p> <p>FWHM Asymmetric</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.550 cd/lm</p> <p>Required components: C12691_LENA-STD-BASE-CLL030</p>		

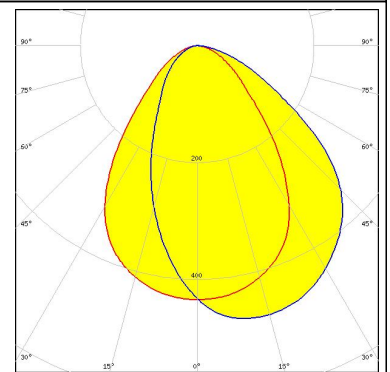
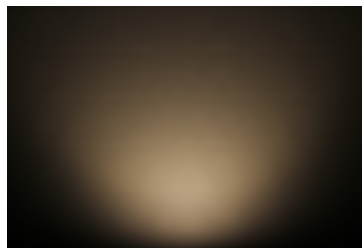
PHOTOMETRIC DATA (MEASURED):



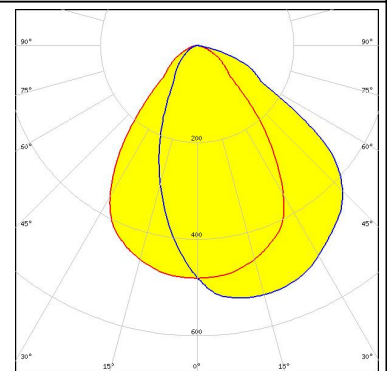
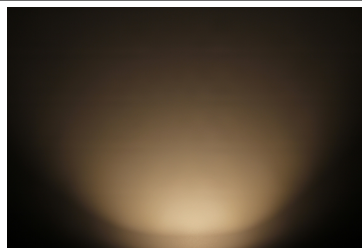
LED CXM-14
 FWHM Asymmetric
 Efficiency 83 %
 Peak intensity 0.500 cd/lm
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



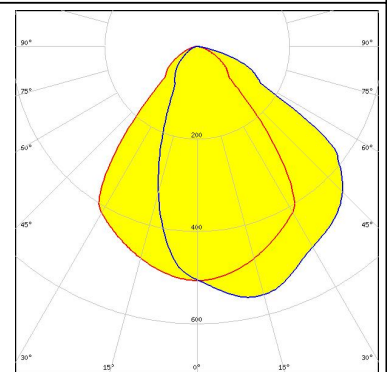
LED CXM-22
 FWHM Asymmetric
 Efficiency 79 %
 Peak intensity 0.500 cd/lm
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



LED CXM-22
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.500 cd/lm
 Required components:
 C12692_LENA-STD-BASE-CLL040



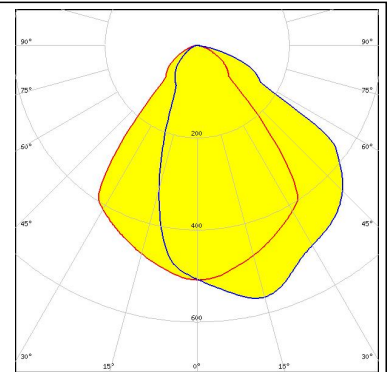
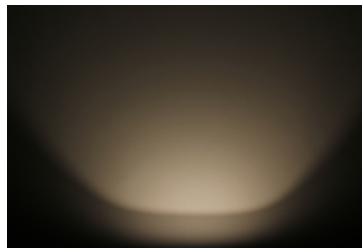
LED COB J-Type
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.600 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 463 Typ L2



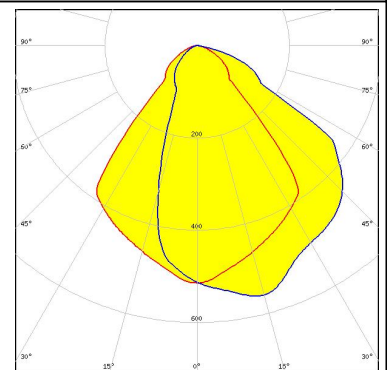
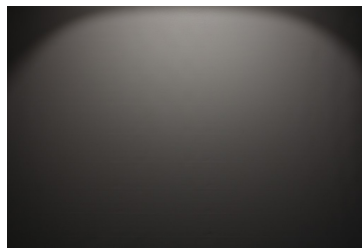
PHOTOMETRIC DATA (MEASURED):



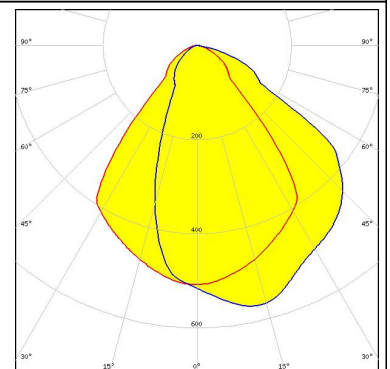
LED COB L-Type (LES 11)
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 438 Typ L1



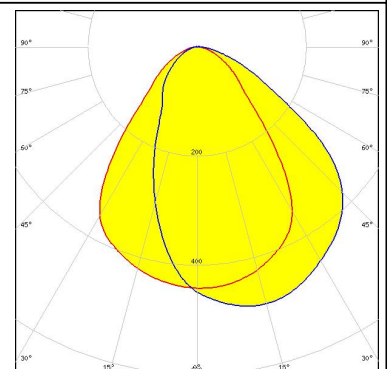
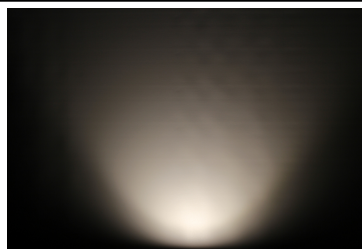
LED COB L-Type (LES 9)
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 0.560 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 438 Typ L1



LED Soleriq S13
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



LED Soleriq S19
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 0.500 cd/lm
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 462 Typ L3



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM Asymmetric

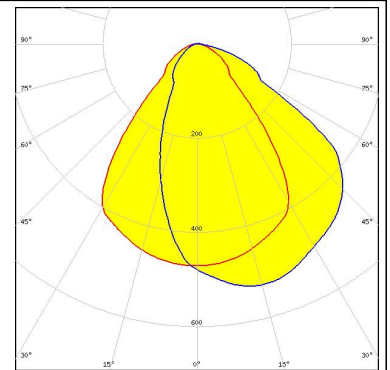
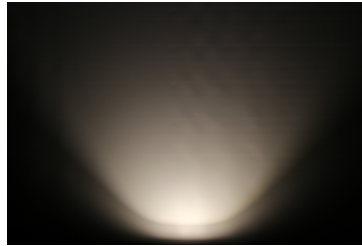
Efficiency 89 %

Peak intensity 0.500 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 462 Typ L3



SAMSUNG

LED COB D Series LES 14.5 mm

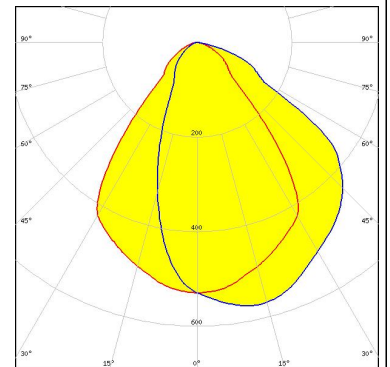
FWHM Asymmetric

Efficiency 91 %

Peak intensity 0.570 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030



SAMSUNG

LED COB D Series LES 14.5 mm

FWHM Asymmetric

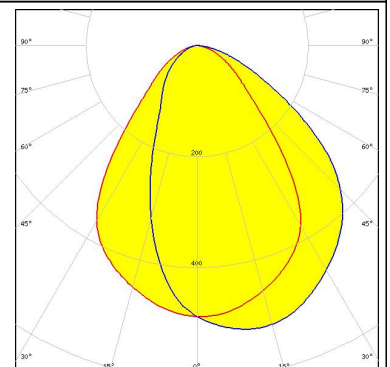
Efficiency 87 %

Peak intensity 0.520 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030

C11996_LENA-LENS



SAMSUNG

LED COB D Series LES 22 mm

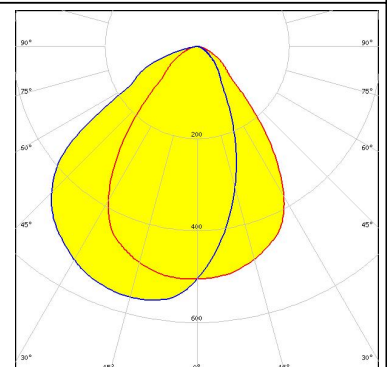
FWHM Asymmetric

Efficiency 91 %

Peak intensity 0.560 cd/lm

Required components:

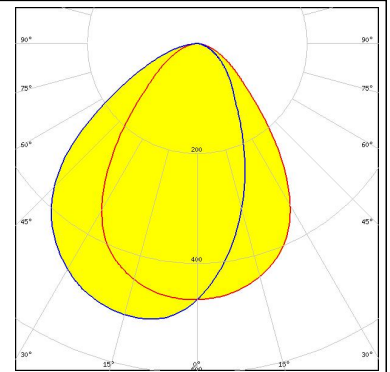
C12692_LENA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):

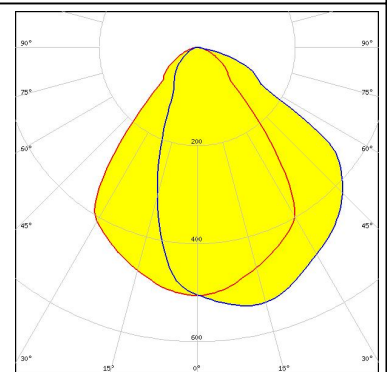
SAMSUNG

LED COB D Series LES 22 mm
FWHM Asymmetric
Efficiency 86 %
Peak intensity 0.510 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



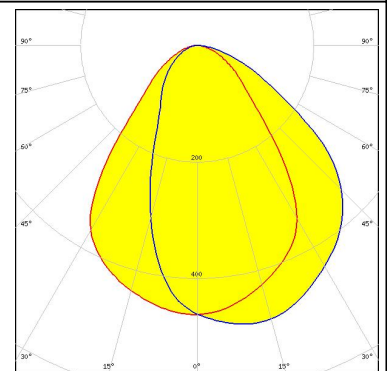
SHARP

LED Mega Zenigata (GW6DME)
FWHM Asymmetric
Efficiency 87 %
Peak intensity 0.540 cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ



SHARP


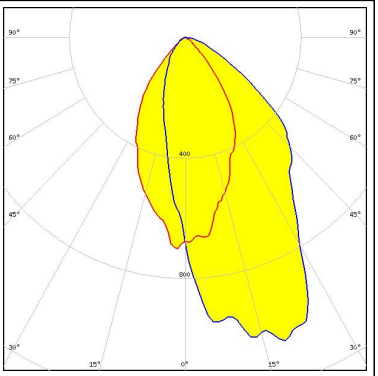

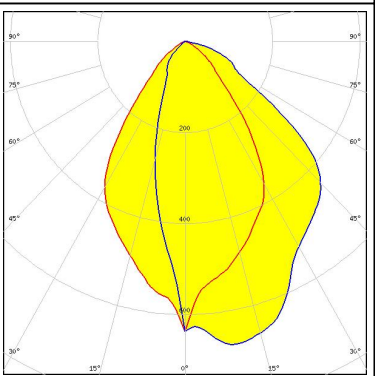

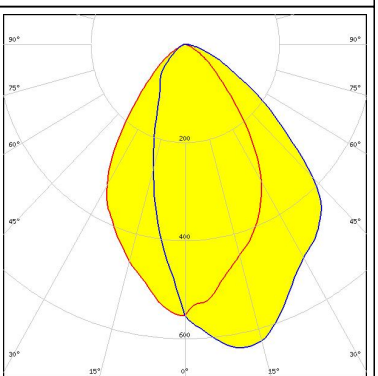

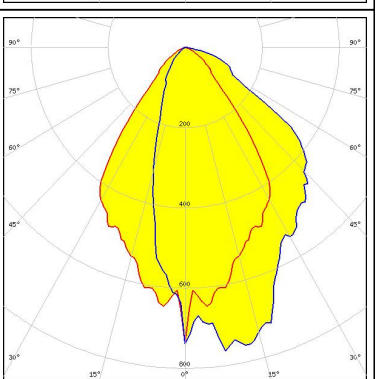
LED Mega Zenigata (GW6DME)
FWHM Asymmetric
Efficiency 83 %
Peak intensity 0.490 cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS



PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.670 cd/lm</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 434 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.680 cd/lm</p> <p>Required components: IDEAL: 50-2103CT + 50-2100LN</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.650 cd/lm</p> <p>Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 50-2100LN</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 91 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 477 Typ L1</p>	

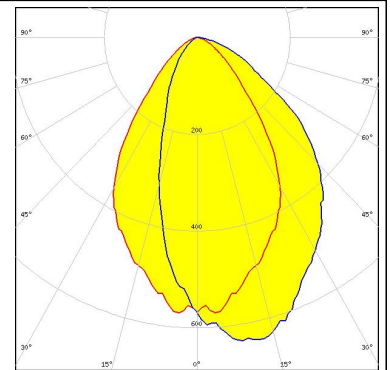
PHOTOMETRIC DATA (SIMULATED):

<p> bridgelux</p> <p>LED V22 Gen7 FWHM Asymmetric Efficiency 90 % Peak intensity 1.064 cd/lm</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 C11996_LENA-LENS Bender Wirth: 431 Typ L3</p>	
<p> CREE</p> <p>LED CXA/B 30xx FWHM Asymmetric Efficiency 82 % Peak intensity 0.680 cd/lm</p> <p>Required components: IDEAL: 50-2234C + 50-2100LN</p>	
<p> CREE</p> <p>LED CXA/B 30xx FWHM Asymmetric Efficiency 78 % Peak intensity cd/lm</p> <p>Required components: C11996_LENA-LENS IDEAL: 50-2234C + 50-2100LN</p>	
<p> LUMILEDS</p> <p>LED LUXEON CoB 1204/1205 FWHM Asymmetric Efficiency 90 % Peak intensity 0.800 cd/lm</p> <p>Required components: C12292_LENA-STD-BASE-MEZ</p>	

PHOTOMETRIC DATA (SIMULATED):

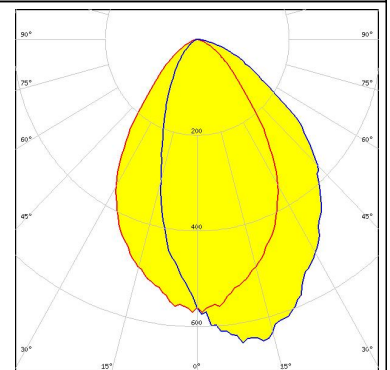
LUMILEDS

LED LUXEON CoB 1204/1205
 FWHM Asymmetric
 Efficiency 83 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



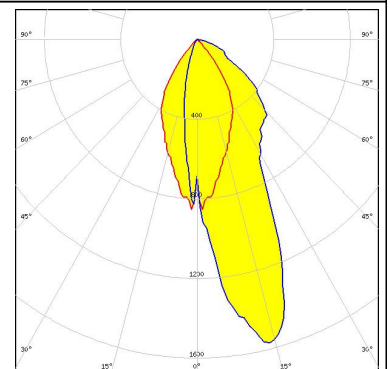
LUMILEDS

LED LUXEON CoB 1208
 FWHM Asymmetric
 Efficiency 82 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



LUMILEDS

LED LUXEON CoB 1208
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 0.800 cd/lm
 Required components:
 C12292_LENA-STD-BASE-MEZ



LUMILEDS

LED LUXEON K12
 FWHM Asymmetric
 Efficiency %
 Peak intensity cd/lm
 Required components:
 C12924_LENA-STD-BASE-LUXEON-K

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON K12

FWHM Asymmetric

Efficiency %

Peak intensity cd/lm

Required components:

C12924_LENA-STD-BASE-LUXEON-K

C11996_LENA-LENS

LUMILEDS

LED LUXEON K16

FWHM Asymmetric

Efficiency %

Peak intensity cd/lm

Required components:

C12924_LENA-STD-BASE-LUXEON-K

C11996_LENA-LENS

LUMILEDS

LED LUXEON K16

FWHM Asymmetric

Efficiency %

Peak intensity cd/lm

Required components:

C12924_LENA-STD-BASE-LUXEON-K

LUMINUS

LED CXM-14

FWHM Asymmetric

Efficiency 91 %

Peak intensity 0.570 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

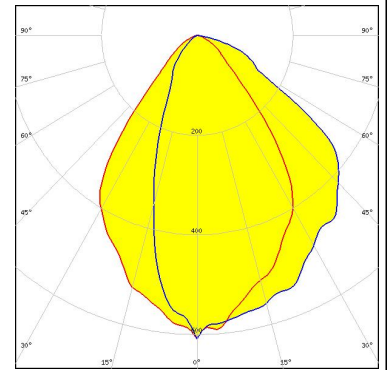
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED Soleriq S15
FWHM Asymmetric
Efficiency 86 %
Peak intensity 0.600 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030



SEKUL

SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM Asymmetric
Efficiency 91 %
Peak intensity 0.570 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1

SHARP

LED Mega Zenigata (GW5DGC)
FWHM Asymmetric
Efficiency %
Peak intensity cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS

SHARP

LED Mega Zenigata (GW5DGC)
FWHM Asymmetric
Efficiency %
Peak intensity cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ

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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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
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