

LENA-WAS

Asymmetric beam for wall-washing

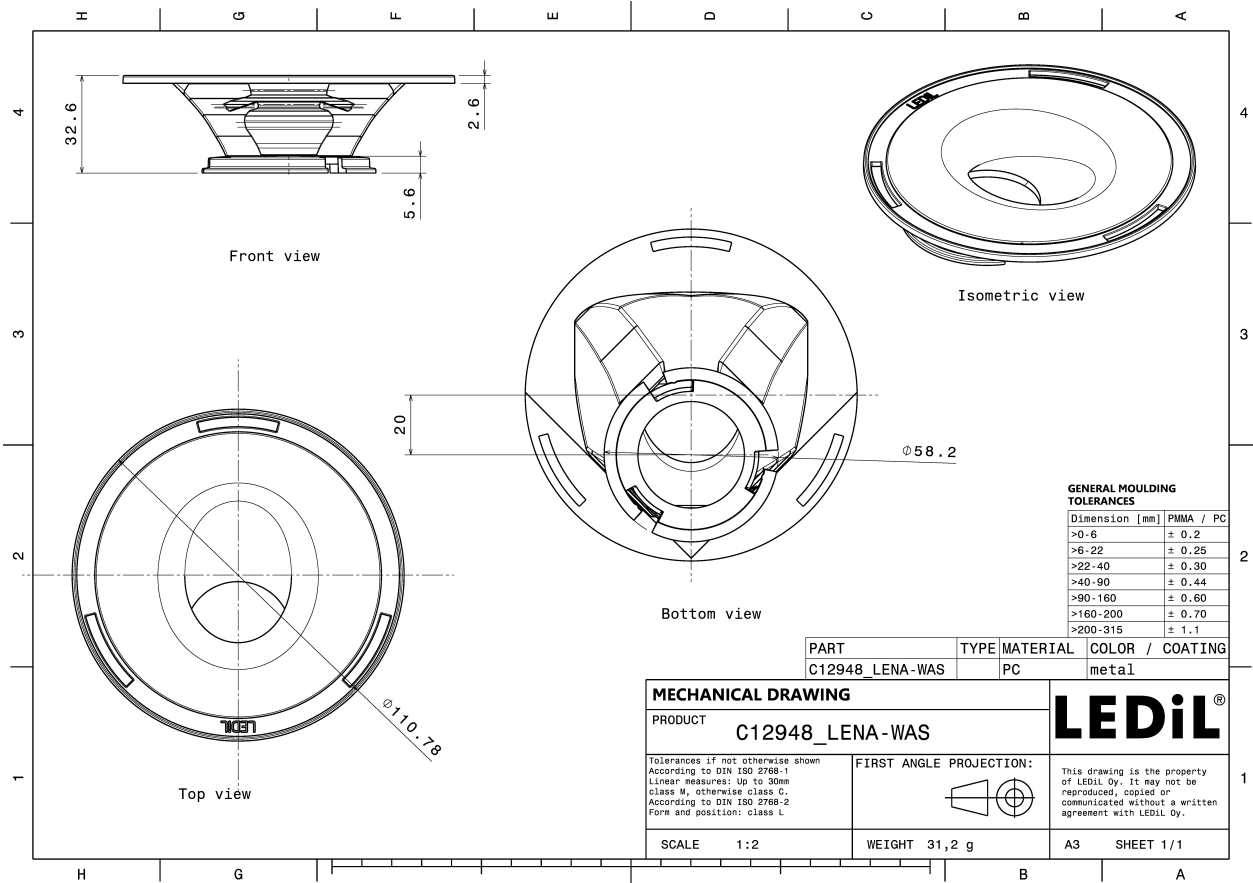
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 111.0 mm
Height	37 mm
Fastening	glue
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	3.1 kg
Quantity in Box	56 pcs
ROHS compliant	yes ⓘ


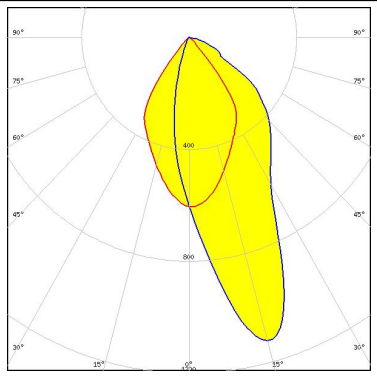

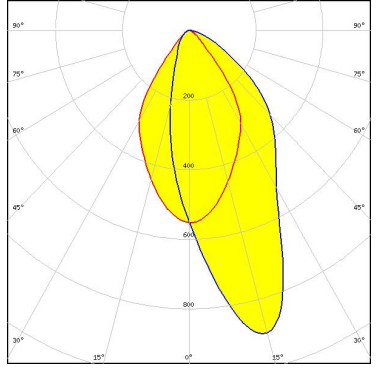

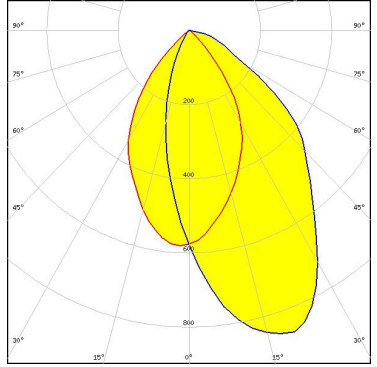

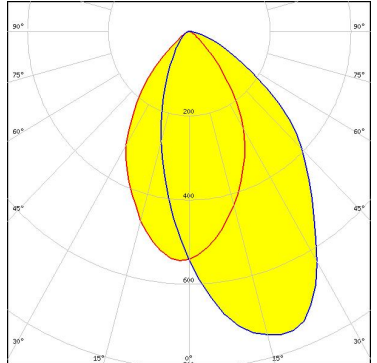


MATERIAL SPECIFICATIONS:


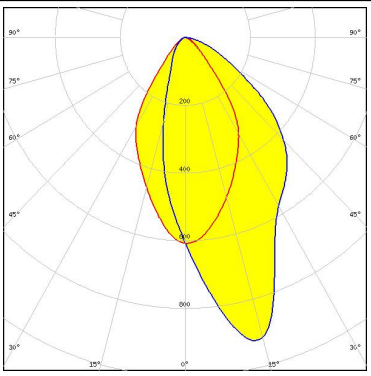

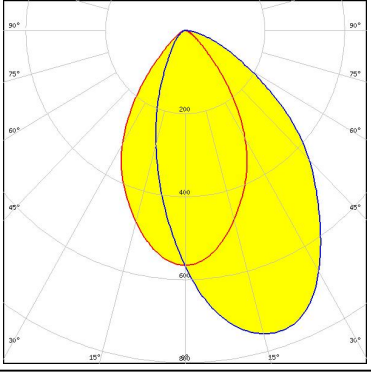

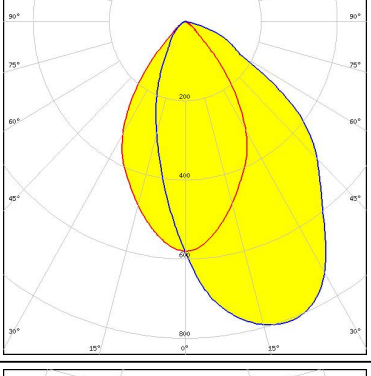

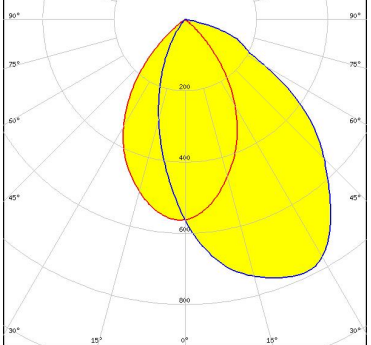
Component	Type	Material	Colour	Coating
LENA-WAS	Reflector	PC	metal	lacquer



PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM Asymmetric</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.130 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</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>LEDs/each optic 1</p> <p>Light colour White</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 80 %</p> <p>Peak intensity 0.900 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12229_LENA-STD-BASE-RS</p>		
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM Asymmetric</p> <p>Efficiency 75 %</p> <p>Peak intensity 0.800 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS</p>		

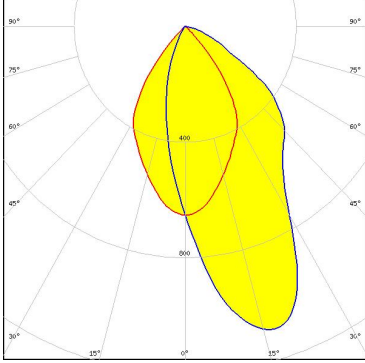
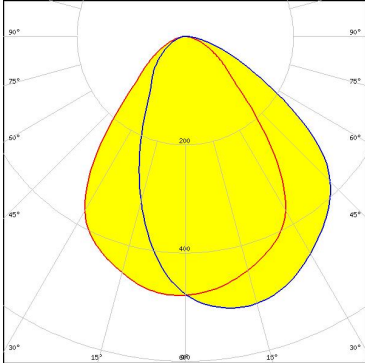
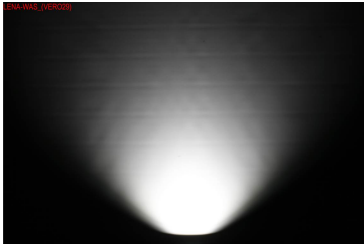
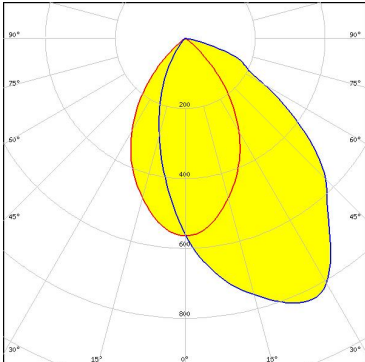
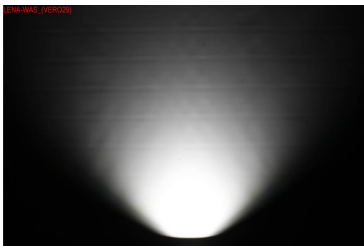
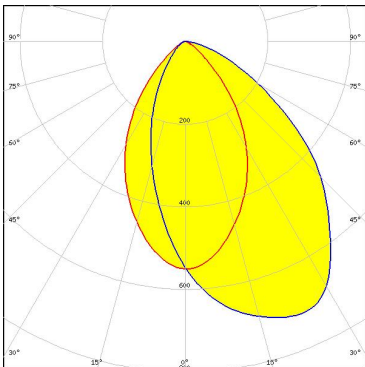
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen6 FWHM Asymmetric Efficiency 83 % Peak intensity 0.920 cd/lm LEDs/each optic 1 Light colour White Required components: C13186_LENA-STD-BASE-CXA15 C11996_LENA-LENS</p>		
<p>bridgelux.</p> <p>LED V22 Gen7 FWHM Asymmetric Efficiency 82 % Peak intensity 0.800 cd/lm LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 C11996_LENA-LENS Bender Wirth: 431 Typ L3</p>		
<p>bridgelux.</p> <p>LED V22 Gen7 FWHM Asymmetric Efficiency 84 % Peak intensity 0.800 cd/lm LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 C14169_LENA-CLEAR-LENS Bender Wirth: 431 Typ L3</p>		
<p>bridgelux.</p> <p>LED Vero SE 29 FWHM Asymmetric Efficiency 87 % Peak intensity 0.800 cd/lm LEDs/each optic 1 Light colour White Required components: C15083_LENA-STD-BASE-VERO29</p>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO13 FWHM Asymmetric Efficiency 87 % Peak intensity 1.050 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS</p>	
<p>bridgelux.</p> <p>LED VERO13 FWHM Asymmetric Efficiency 91 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18</p>	
<p>bridgelux.</p> <p>LED VERO13 FWHM Asymmetric Efficiency 87 % Peak intensity 0.510 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS</p>	
<p>bridgelux.</p> <p>LED VERO18 FWHM Asymmetric Efficiency 86 % Peak intensity 0.930 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS</p>	

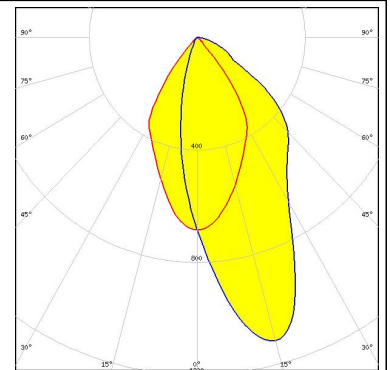
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM Asymmetric</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM Asymmetric</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.510 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM Asymmetric</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.830 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13867_LENA-STD-BASE-VERO29</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM Asymmetric</p> <p>Efficiency 82 %</p> <p>Peak intensity 0.720 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 C11996_LENA-LENS</p>		

PHOTOMETRIC DATA (MEASURED):

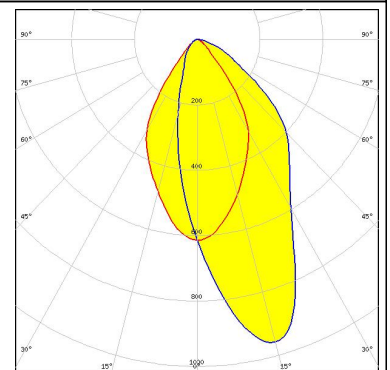
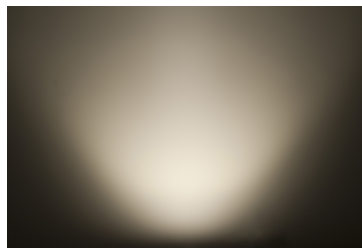
CITIZEN

LED CL-L340
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 1.170 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C11995_LENA-STD-BASE-CL340



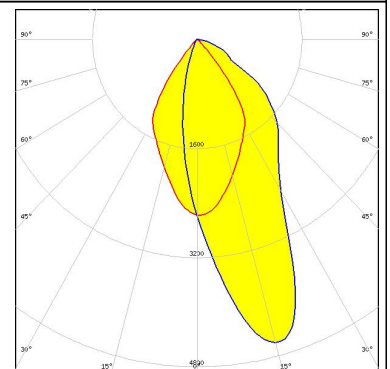
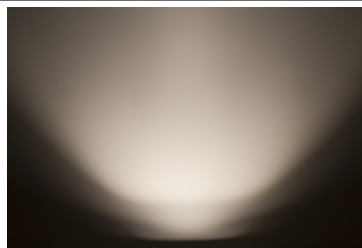
CITIZEN

LED CL-L340
 FWHM Asymmetric
 Efficiency 73 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C11995_LENA-STD-BASE-CL340
 C11996_LENA-LENS



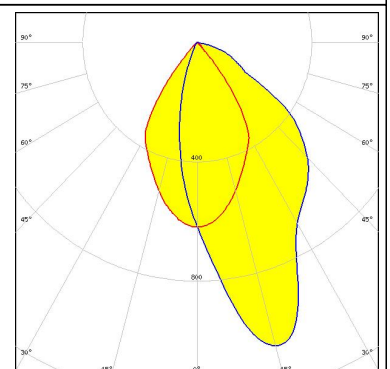
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 81 %
 Peak intensity 1.160 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



CITIZEN

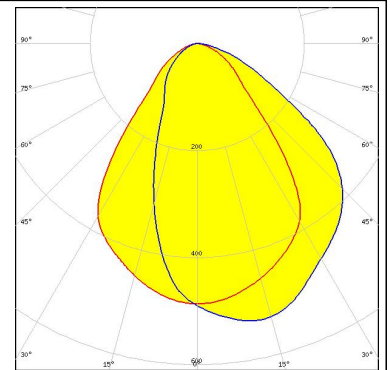
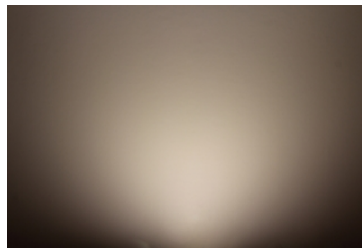
LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8101/G2 + S-8000/11



PHOTOMETRIC DATA (MEASURED):

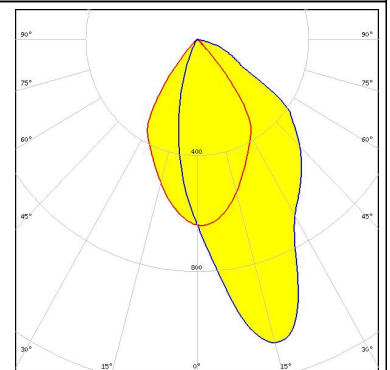
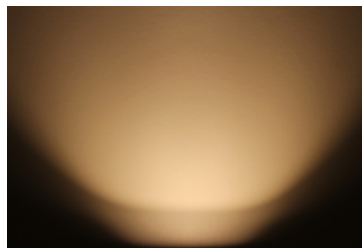
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 0.530 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 433 Typ L1



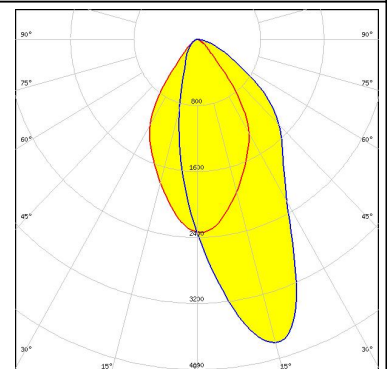
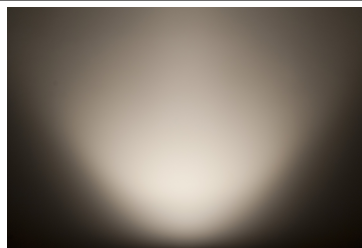
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.090 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 433 Typ L1



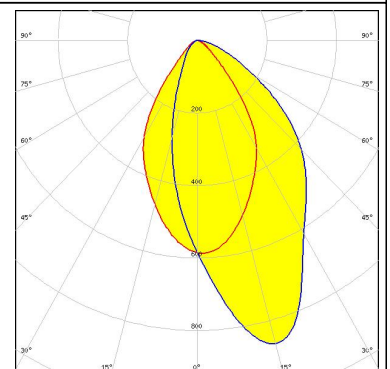
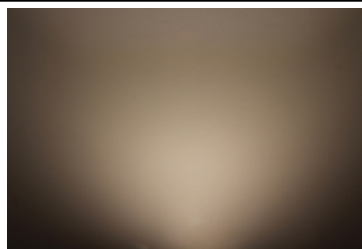
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 76 %
 Peak intensity 0.960 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



CITIZEN

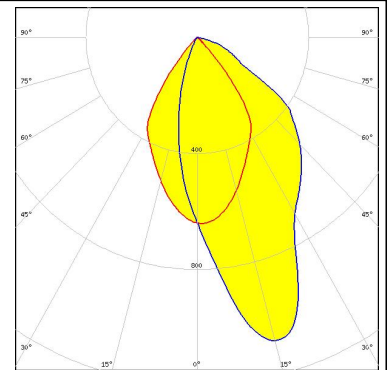
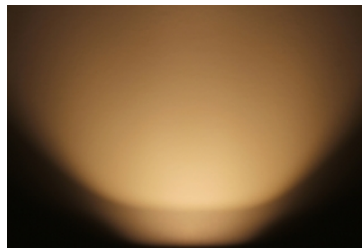
LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 0.870 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

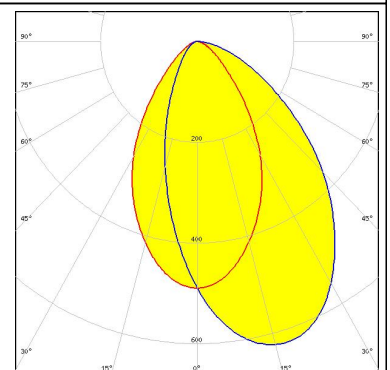
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 433 Typ L1



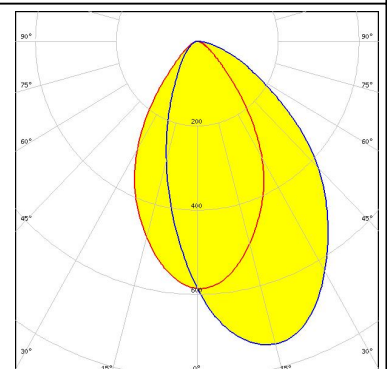
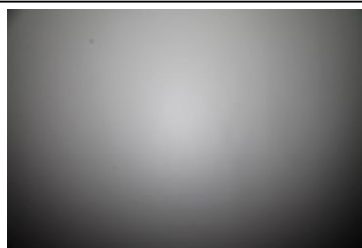
CITIZEN

LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 74 %
 Peak intensity 0.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C11996_LENA-LENS
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



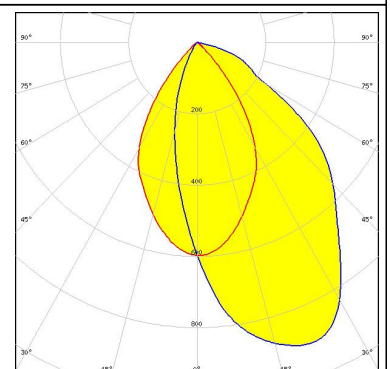
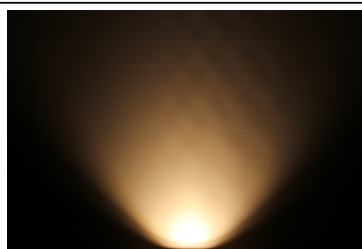
CITIZEN

LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 82 %
 Peak intensity 0.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C11996_LENA-LENS
 IDEAL: 50-2204CT + 50-2100LN



CITIZEN

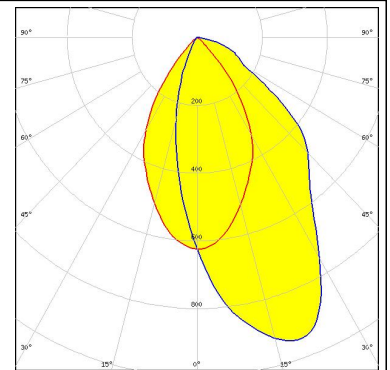
LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 0.910 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (MEASURED):

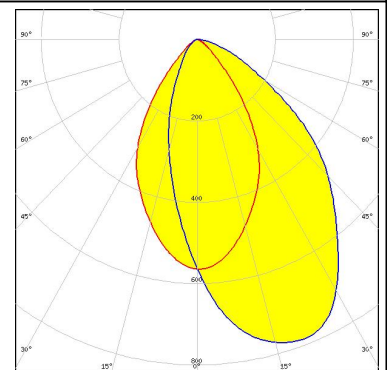
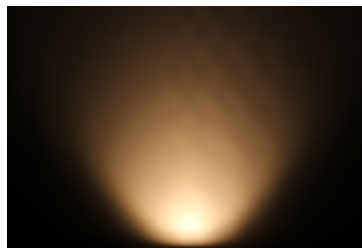
CITIZEN

LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 82 %
 Peak intensity 0.950 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040



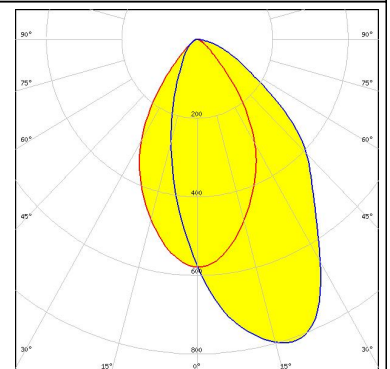
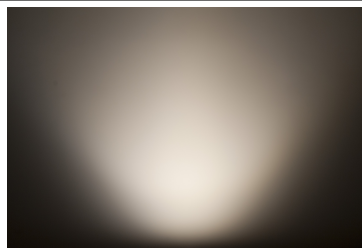
CITIZEN

LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.790 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 431 Typ L3



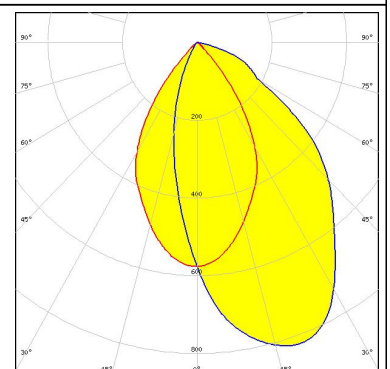
CITIZEN

LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 78 %
 Peak intensity 0.810 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



CITIZEN

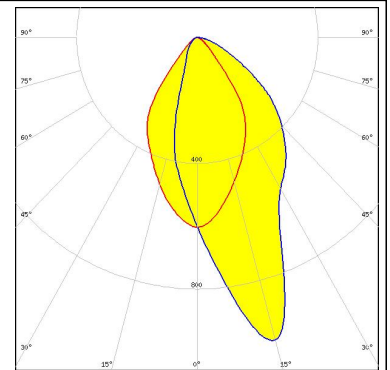
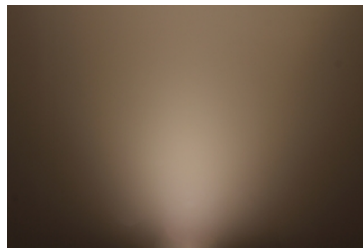
LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 0.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):

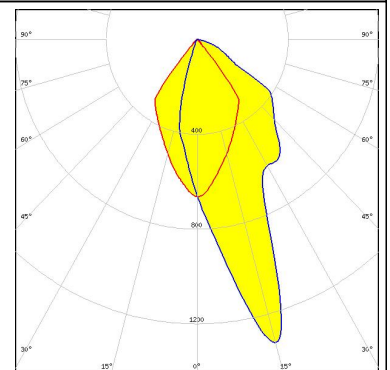
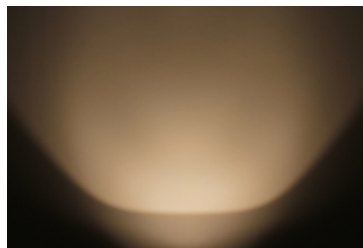
CITIZEN

LED CLU700/701
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 434 Typ L1



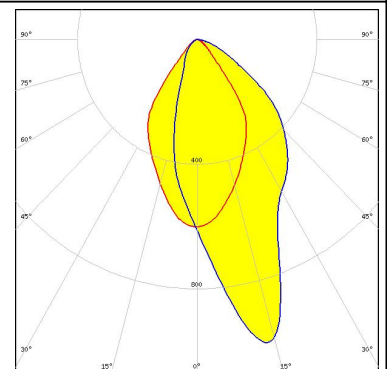
CITIZEN

LED CLU700/701
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 434 Typ L1



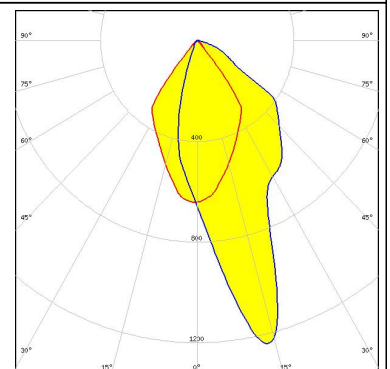
CITIZEN

LED CLU710/711
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



CITIZEN

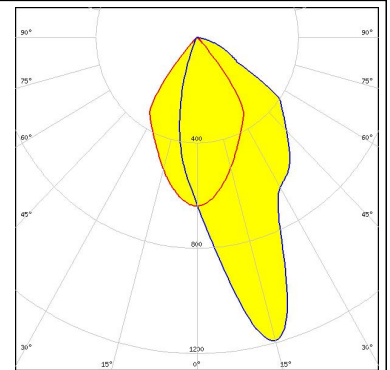
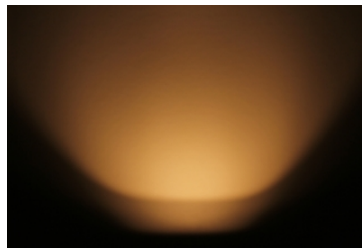
LED CLU710/711
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



PHOTOMETRIC DATA (MEASURED):

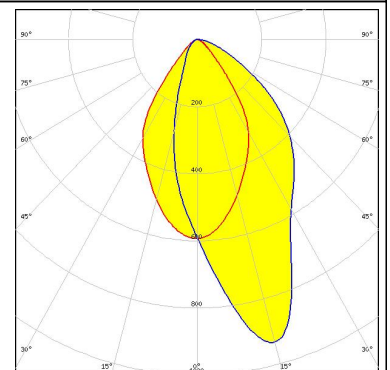
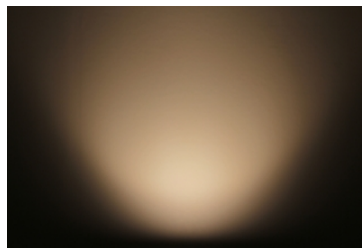
CITIZEN

LED CLU720/721
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 433 Typ L1



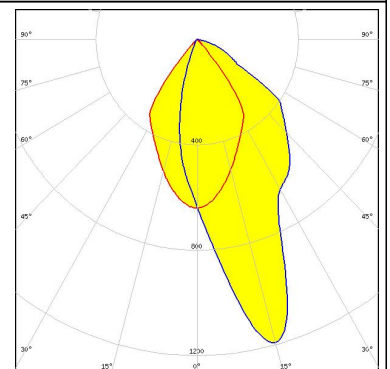
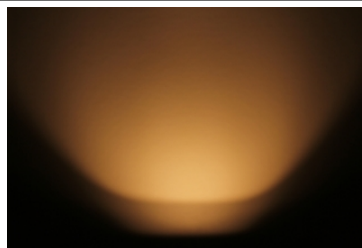
CITIZEN

LED CLU720/721
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 0.940 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 433 Typ L1



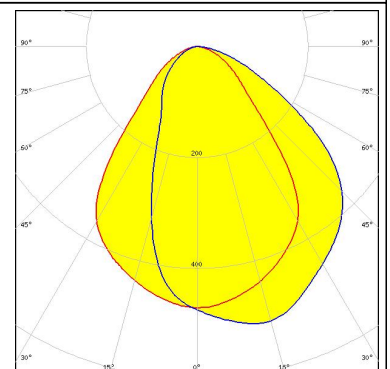
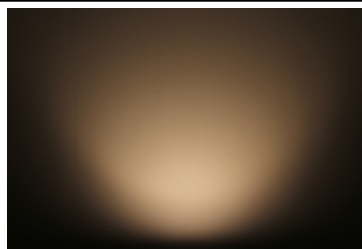
CITIZEN

LED CLU720/721
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 433 Typ L1



CITIZEN

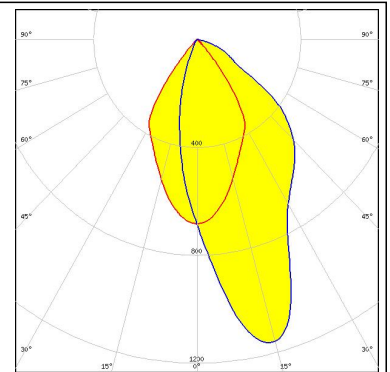
LED CLU720/721
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.510 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 433 Typ L1



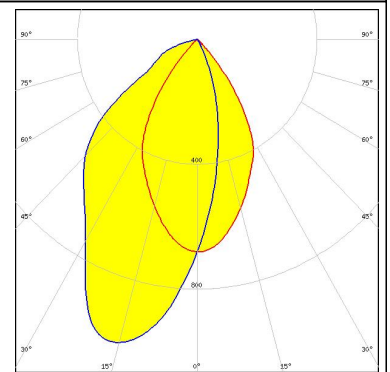
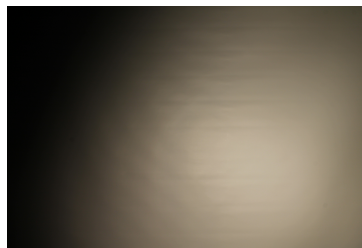
PHOTOMETRIC DATA (MEASURED):



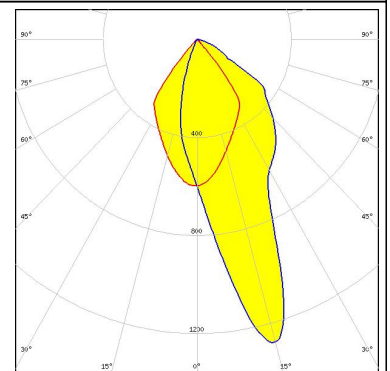
LED CMA1840
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 1.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14146_LENA-STD-BASE-CXA18



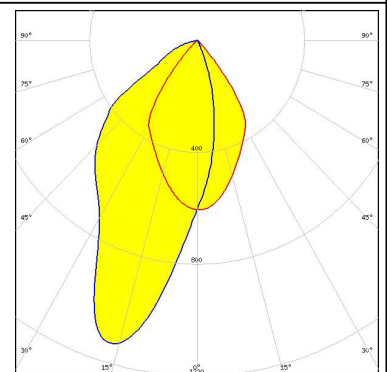
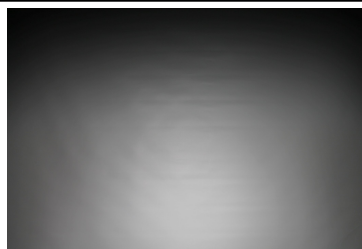
LED CMA2550
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13324_LENA-STD-BASE-CXA25



LED CMT14xx
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 434 Typ L1



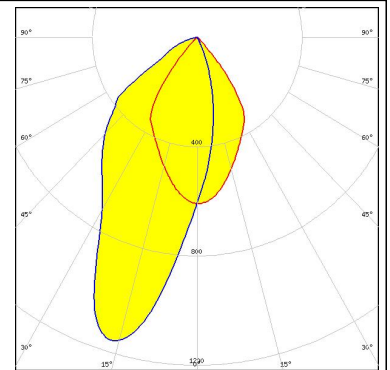
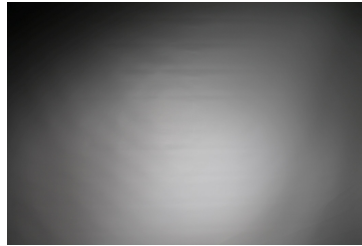
LED CMT19xx
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 1.131 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



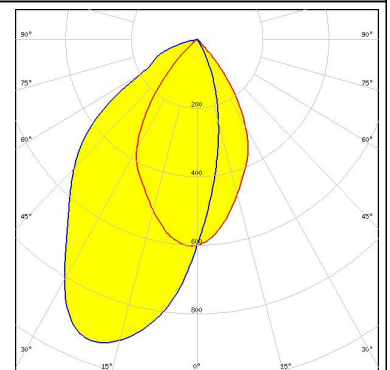
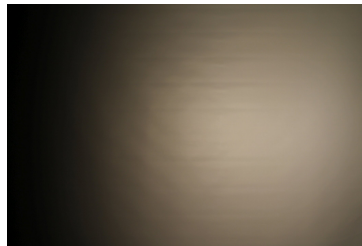
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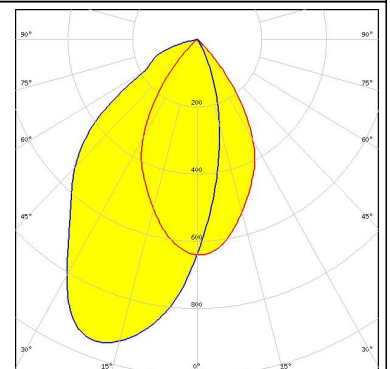
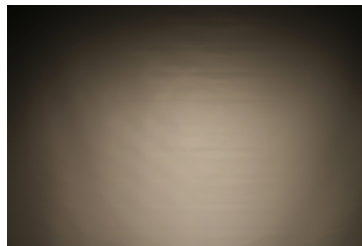
LED CMT19xx
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 1.158 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 477 Typ L1



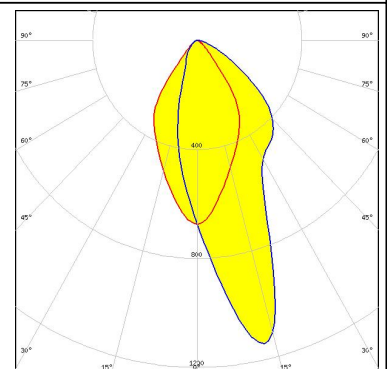
LED CMT28xx
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 0.930 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 471 Typ L3



LED CMT28xx
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 0.950 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040



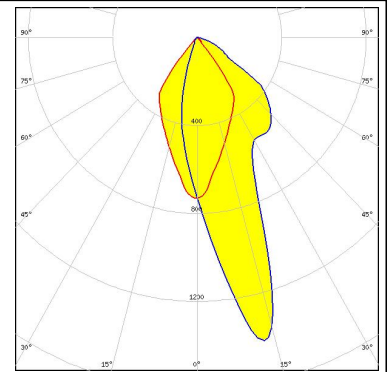
LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 1.140 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13186_LENA-STD-BASE-CXA15
 C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

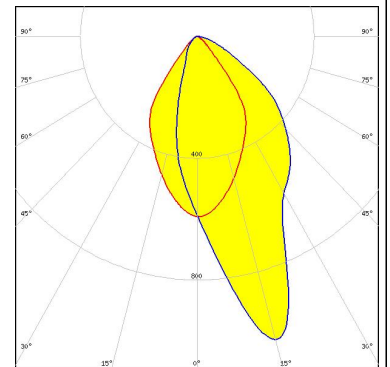
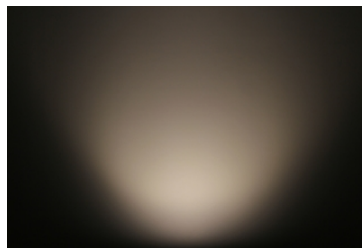
CREE

LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.420 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13186_LENA-STD-BASE-CXA15



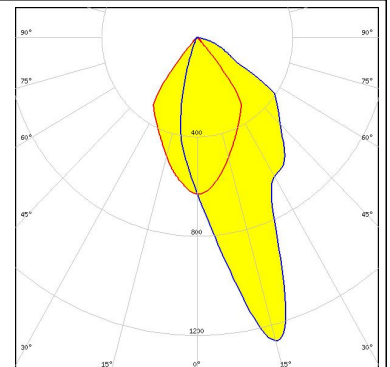
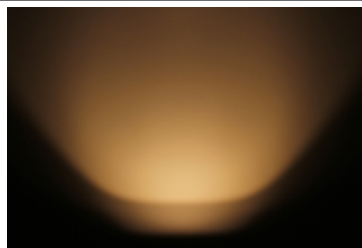
CREE

LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 441 Typ L1



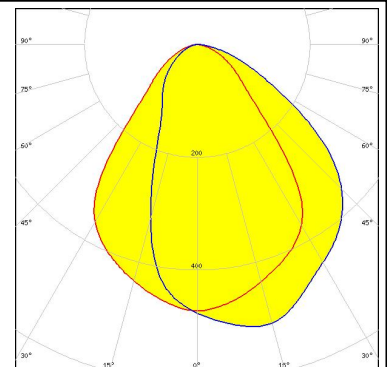
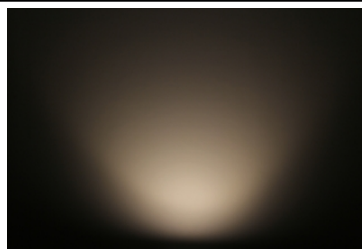
CREE

LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 441 Typ L1



CREE

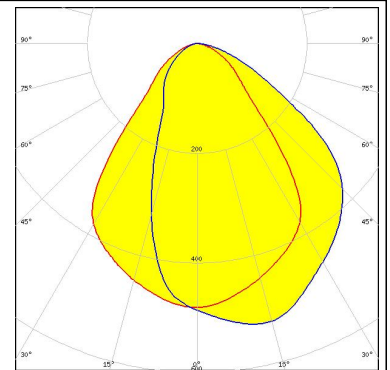
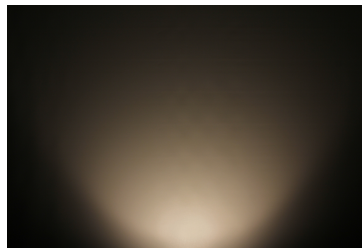
LED CXA/B 15xx
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.510 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 441 Typ L1



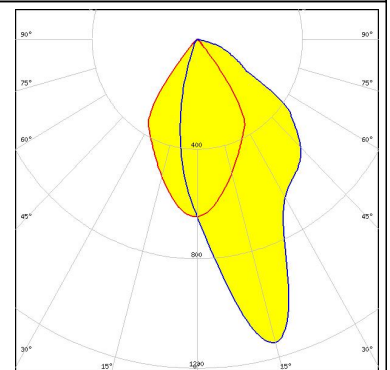
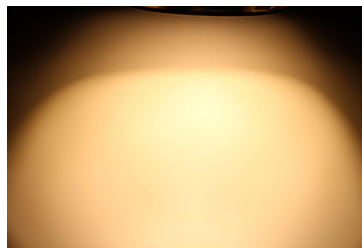
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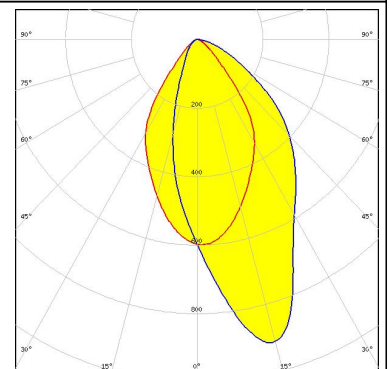
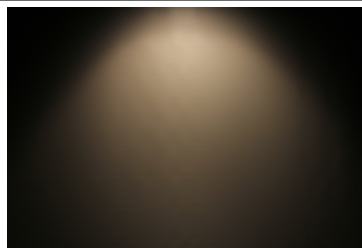
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.520 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 437 Typ L1



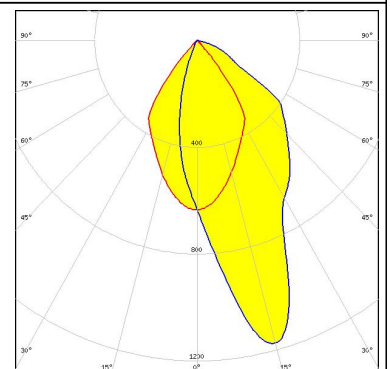
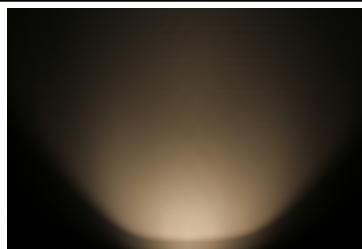
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14146_LENA-STD-BASE-CXA18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.920 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 437 Typ L1



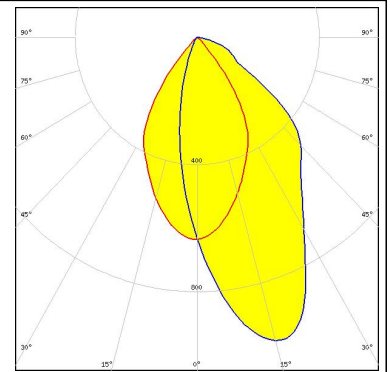
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 1.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):

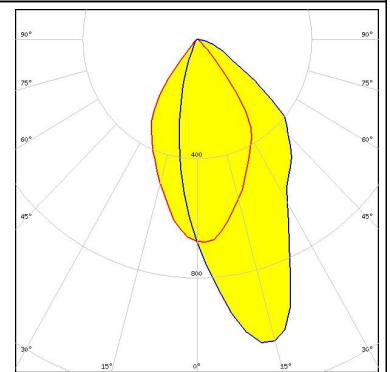
CREE

LED CXA/B 25xx
 FWHM Asymmetric
 Efficiency 75 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13324_LENA-STD-BASE-CXA25



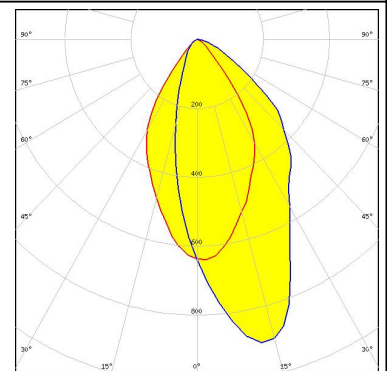
CREE

LED CXA2011
 FWHM Asymmetric
 Efficiency 79 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12105_LENA-STD-BASE-CXA20



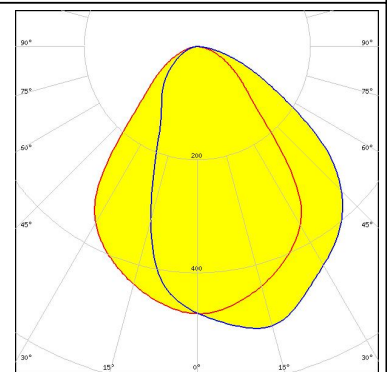
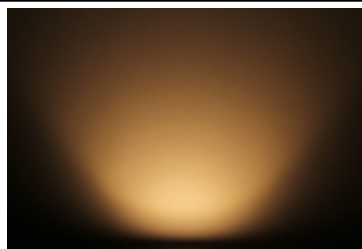
CREE

LED CXA2011
 FWHM Asymmetric
 Efficiency 75 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12105_LENA-STD-BASE-CXA20
 C11996_LENA-LENS

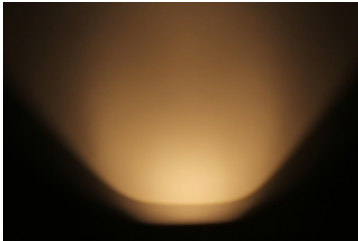
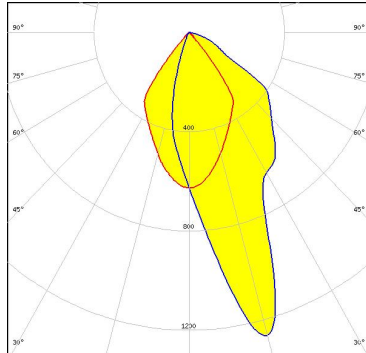
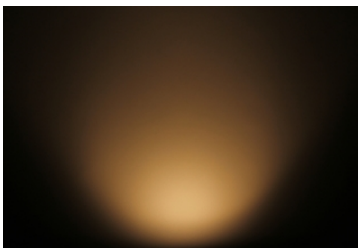
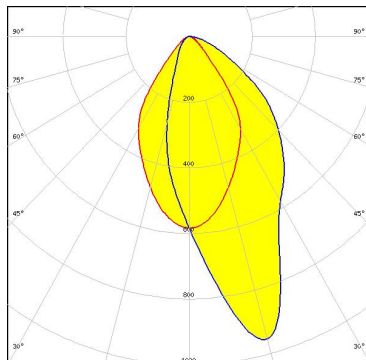
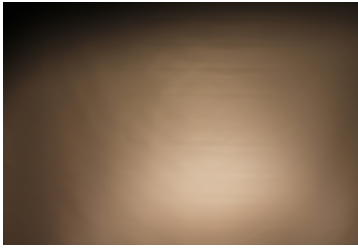
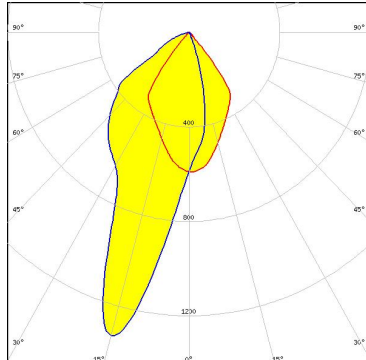
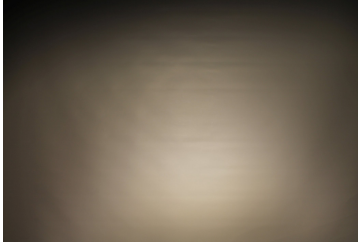
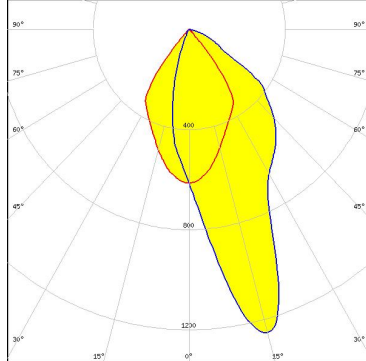


LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1



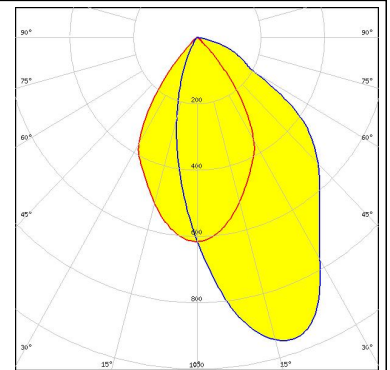
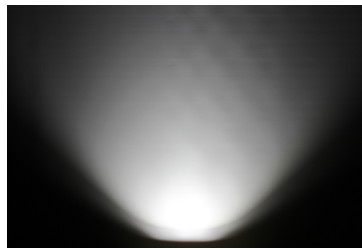
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM Asymmetric</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 438 Typ L1</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM Asymmetric</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.000 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 438 Typ L1</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1204HD</p> <p>FWHM Asymmetric</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.330 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C11981_LENA-STD-BASE-COB-L110</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1205HD</p> <p>FWHM Asymmetric</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C11981_LENA-STD-BASE-COB-L110</p>		

PHOTOMETRIC DATA (MEASURED):

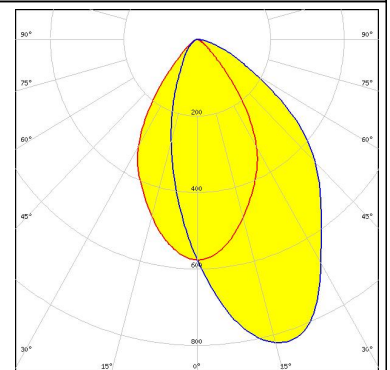
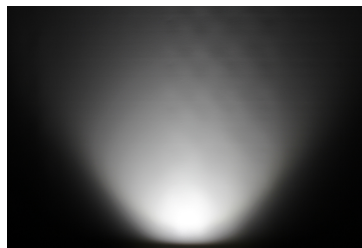
LUMILEDS

LED LUXEON CoB 1211
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 0.960 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 431 Typ L3



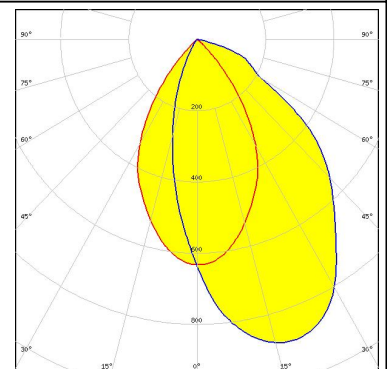
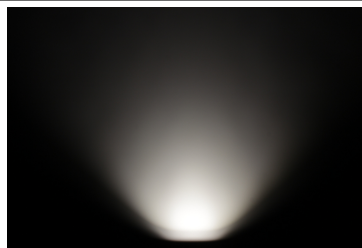
LUMILEDS

LED LUXEON CoB 1211
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.830 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 431 Typ L3



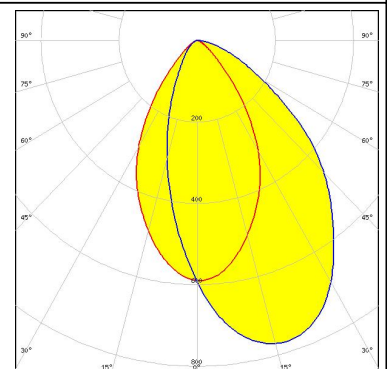
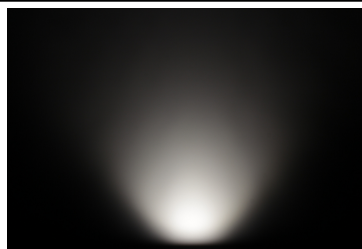
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 0.890 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040



LUMILEDS

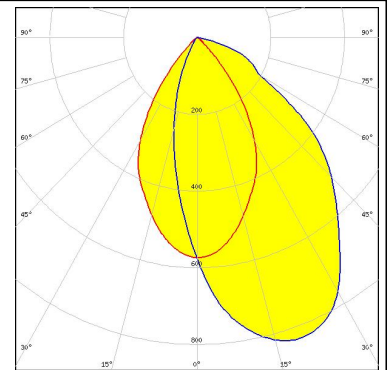
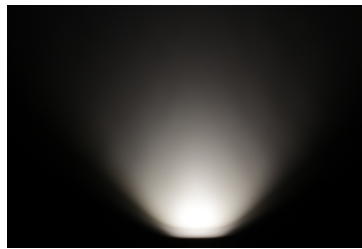
LED LUXEON CoB 1216/1812
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.780 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

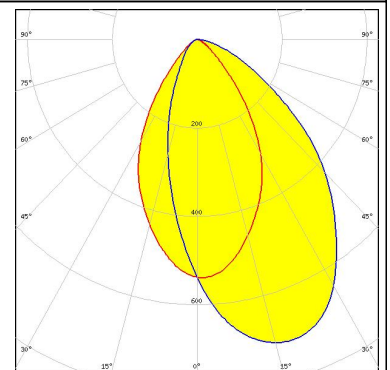
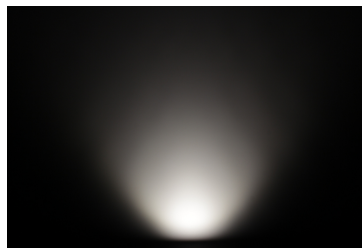
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM 60.0°
 Efficiency 81 %
 Peak intensity 0.830 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



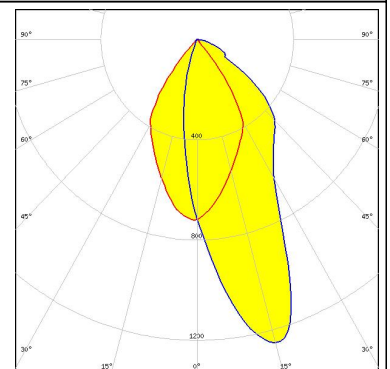
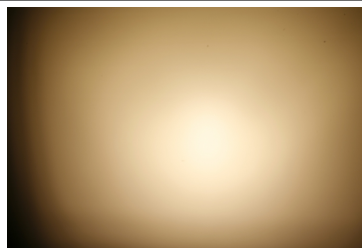
LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM Asymmetric
 Efficiency 77 %
 Peak intensity 0.720 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C11996_LENA-LENS
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



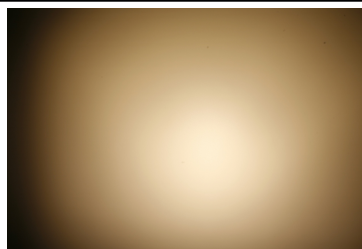
LUMILEDS

LED LUXEON K12
 FWHM Asymmetric
 Efficiency 82 %
 Peak intensity 1.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12924_LENA-STD-BASE-LUXEON-K


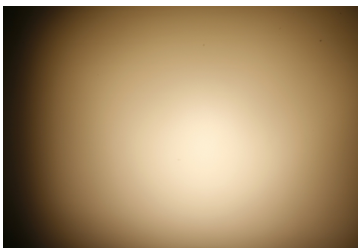
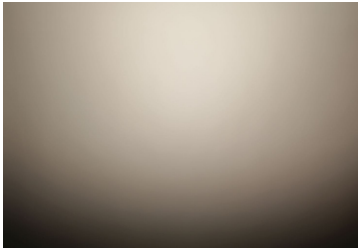
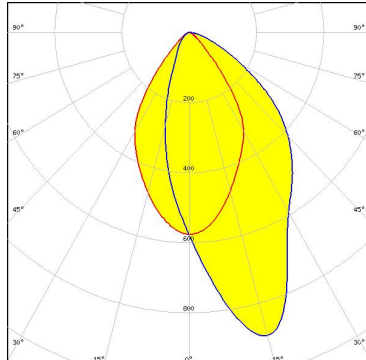
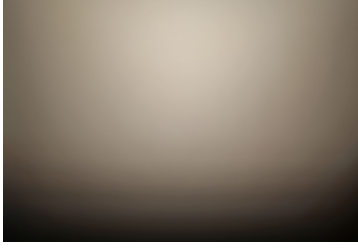
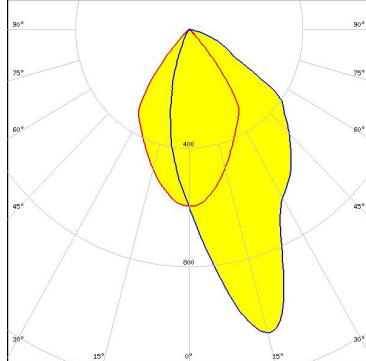


LUMILEDS


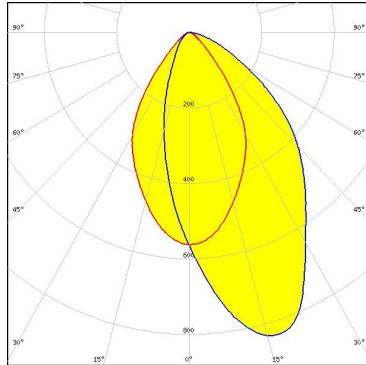
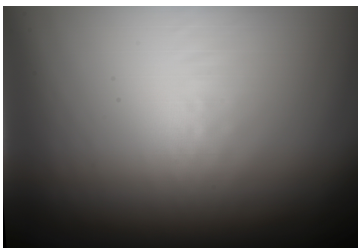
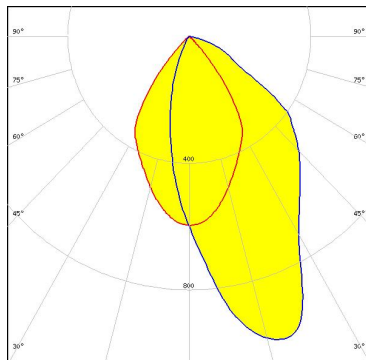

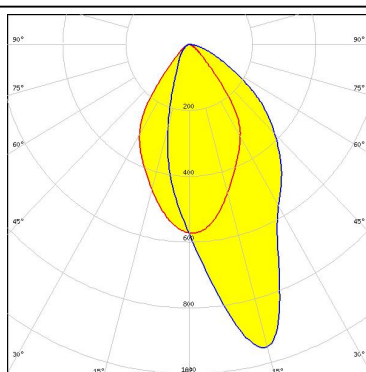
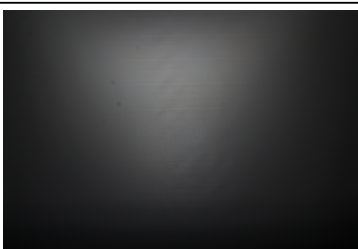
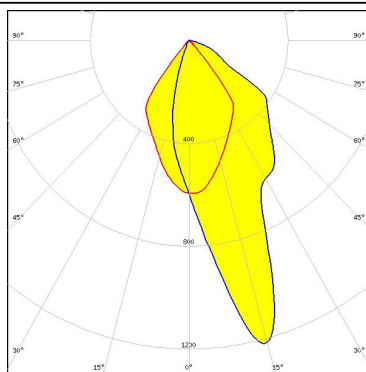
LED LUXEON K12
 FWHM Asymmetric
 Efficiency 77 %
 Peak intensity 1.050 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12924_LENA-STD-BASE-LUXEON-K
 C11996_LENA-LENS




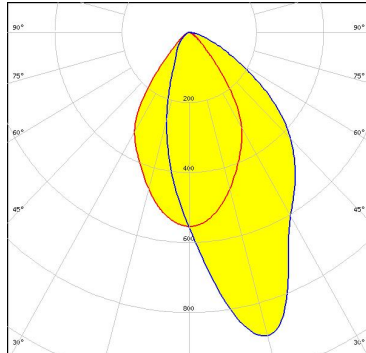
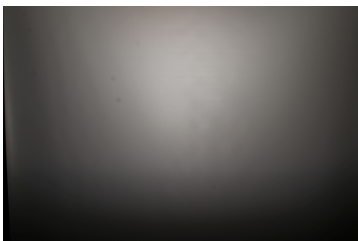
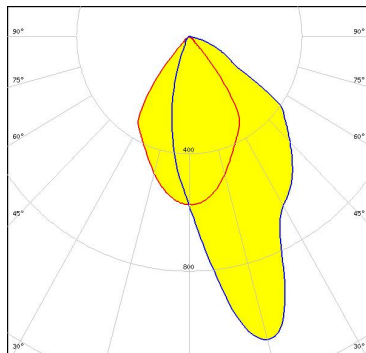
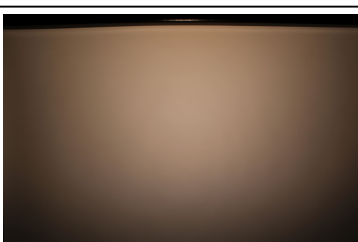
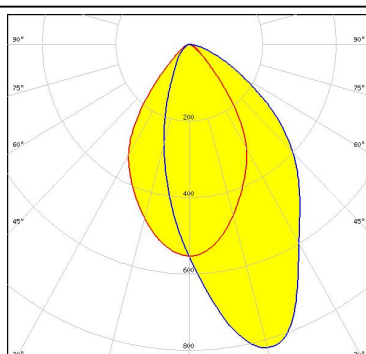
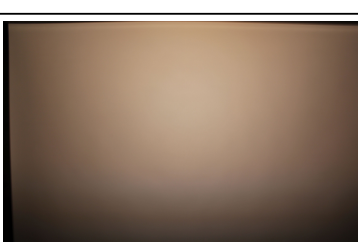
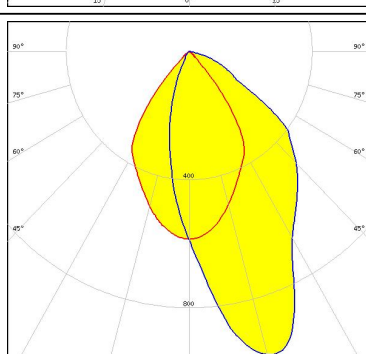
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON K16 FWHM Asymmetric Efficiency 81 % Peak intensity 1.140 cd/lm LEDs/each optic 1 Light colour White Required components: C12924_LENA-STD-BASE-LUXEON-K</p>		
<p>LUMILEDS</p> <p>LED LUXEON K16 FWHM Asymmetric Efficiency 76 % Peak intensity 0.970 cd/lm LEDs/each optic 1 Light colour White Required components: C12924_LENA-STD-BASE-LUXEON-K C11996_LENA-LENS</p>		
<p>LUMINUS</p> <p>LED CDM-14 (Dim-To-Warm) FWHM Asymmetric Efficiency 83 % Peak intensity 0.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 491 Typ L2</p>		
<p>LUMINUS</p> <p>LED CDM-14 (Dim-To-Warm) FWHM 59.0° Efficiency 88 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 491 Typ L2</p>		

PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CDM-18 (Dim-To-Warm) FWHM Asymmetric Efficiency 83 % Peak intensity 0.800 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 491 Typ L2</p>		
<p>LUMINUS</p> <p>LED CDM-18 (Dim-To-Warm) FWHM Asymmetric Efficiency 88 % Peak intensity 1.000 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 491 Typ L2</p>		
<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm) FWHM Asymmetric Efficiency 83 % Peak intensity 0.960 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 490 Typ L1</p>		
<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm) FWHM Asymmetric Efficiency 88 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 490 Typ L1</p>		

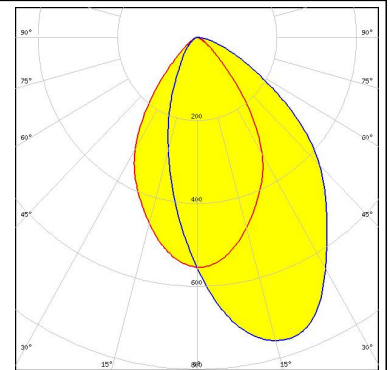
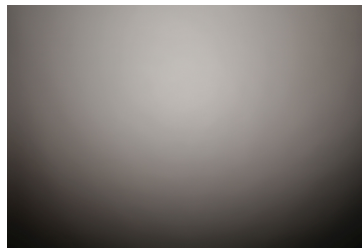
PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CTM-14 (Tunable White) FWHM Asymmetric Efficiency 87 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 C12606_LENINA-DL Bender Wirth: 442 Typ L3</p>		
<p>LUMINUS</p> <p>LED CTM-14 (Tunable White) FWHM Asymmetric Efficiency 87 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 442 Typ L3</p>		
<p>LUMINUS</p> <p>LED CTM-18 (Tunable White) FWHM Asymmetric Efficiency 82 % Peak intensity 0.800 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 C11996_LENA-LENS Bender Wirth: 442 Typ L3</p>		
<p>LUMINUS</p> <p>LED CTM-18 (Tunable White) FWHM Asymmetric Efficiency 88 % Peak intensity 1.000 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 442 Typ L3</p>		

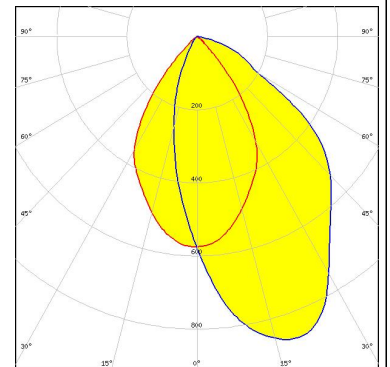
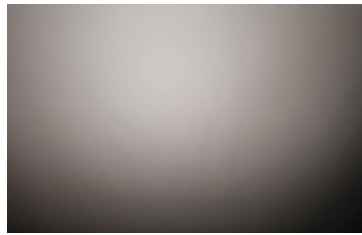
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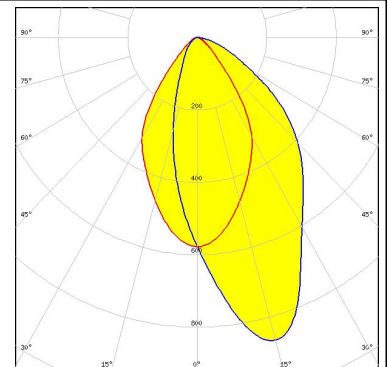
LED CTM-22 (Tunable White)
 FWHM Asymmetric
 Efficiency 83 %
 Peak intensity 0.760 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 494 Typ L3



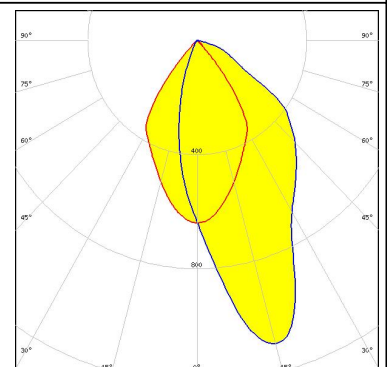
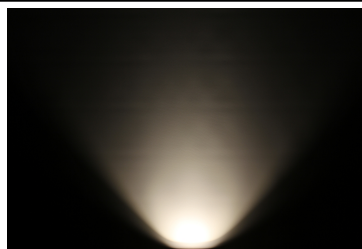
LED CTM-22 (Tunable White)
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 0.870 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 494 Typ L3



LED CxM-14 (19x19)
 FWHM Asymmetric
 Efficiency 82 %
 Peak intensity 0.870 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



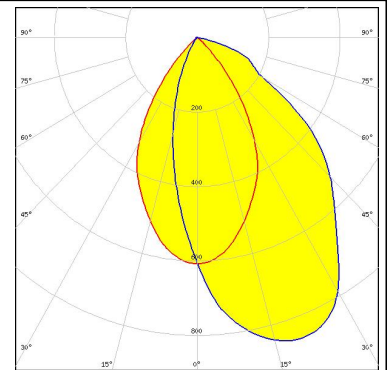
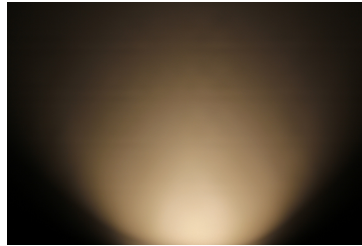
LED CxM-14 (19x19)
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



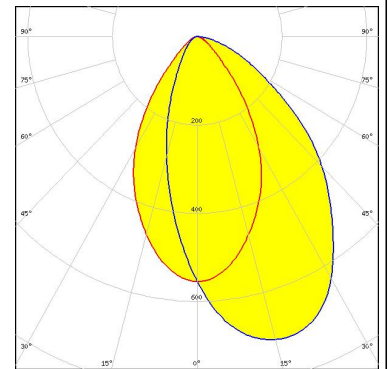
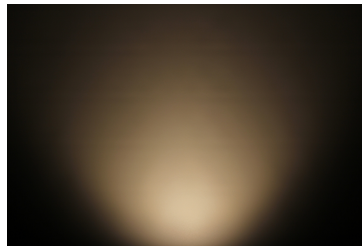
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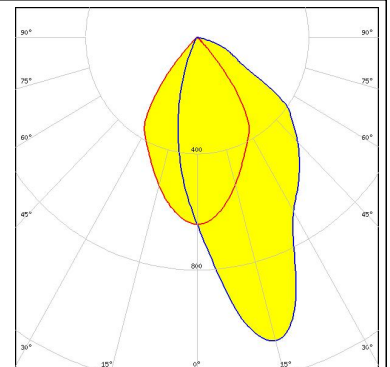
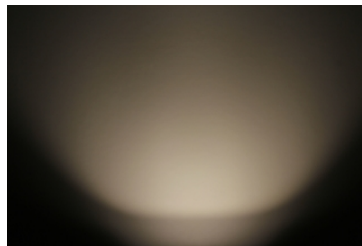
LED CxM-22 (28x28)
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040



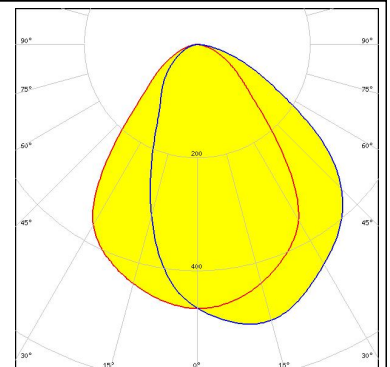
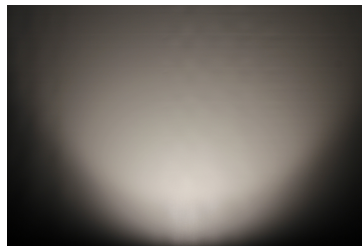
LED CxM-22 (28x28)
 FWHM Asymmetric
 Efficiency 79 %
 Peak intensity 0.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



LED COB J-Type
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 463 Typ L2



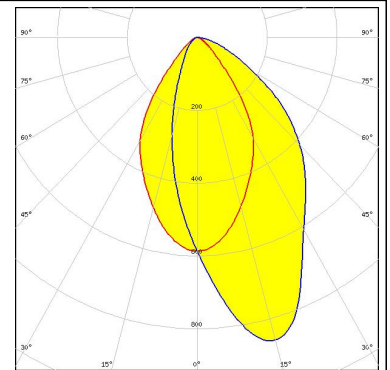
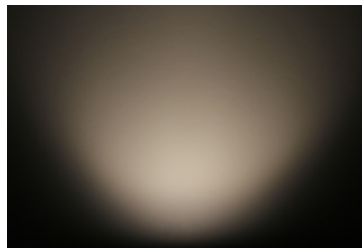
LED COB J-Type
 FWHM Asymmetric
 Efficiency 86 %
 Peak intensity 0.510 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
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 C11996_LENA-LENS
 Bender Wirth: 463 Typ L2



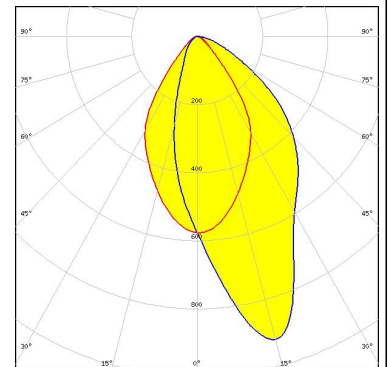
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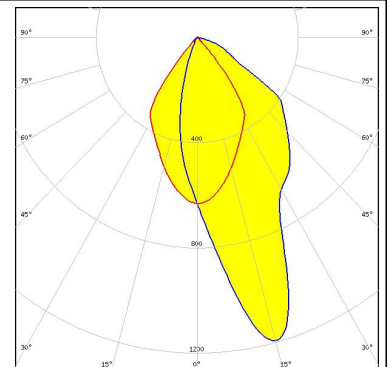
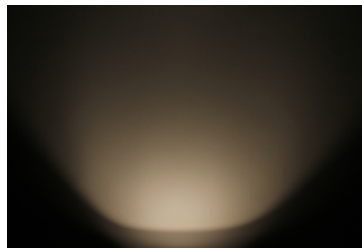
LED COB J-Type
FWHM Asymmetric
Efficiency 84 %
Peak intensity 0.860 cd/lm
LEDs/each optic 1
Light colour White
Required components:
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 C11996_LENA-LENS
 Bender Wirth: 463 Typ L2



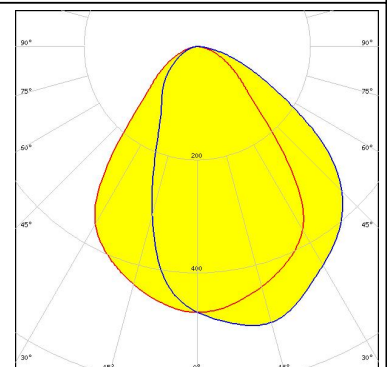
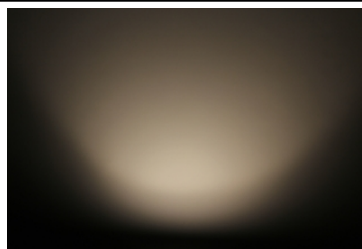
LED COB L-Type (LES 11)
FWHM Asymmetric
Efficiency 84 %
Peak intensity 0.920 cd/lm
LEDs/each optic 1
Light colour White
Required components:
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 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1




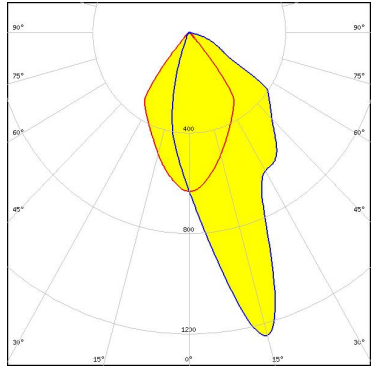
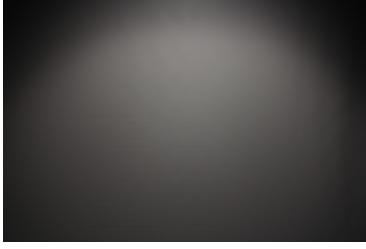
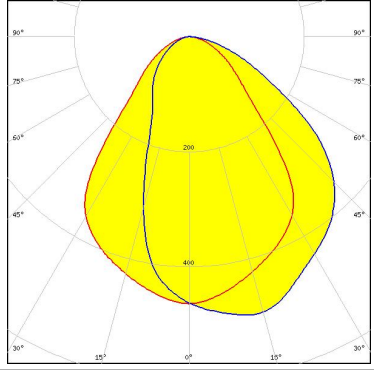
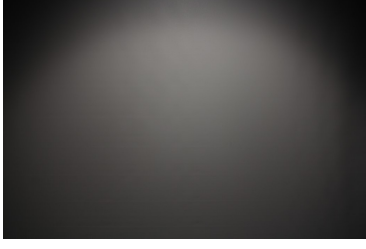
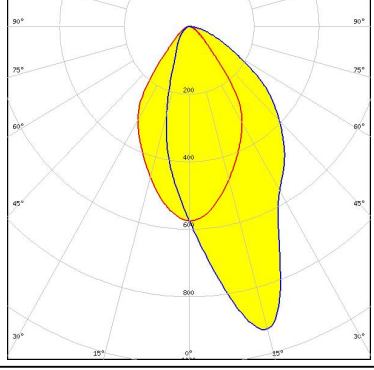
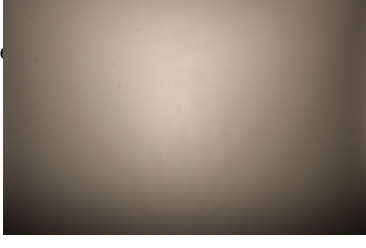
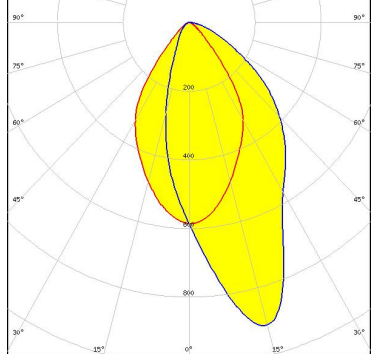
LED COB L-Type (LES 11)
FWHM Asymmetric
Efficiency 89 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 438 Typ L1




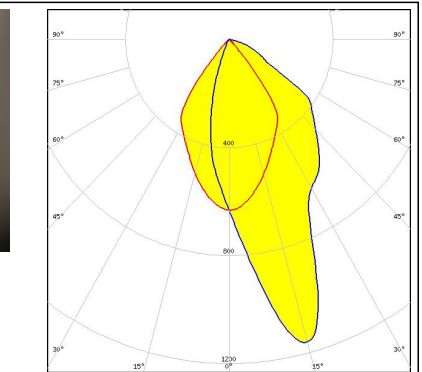
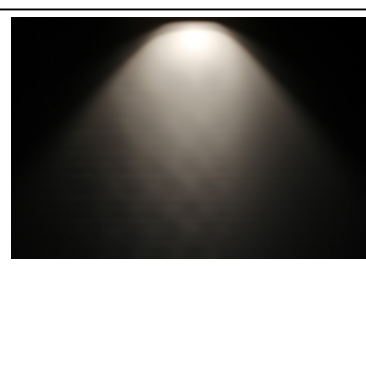
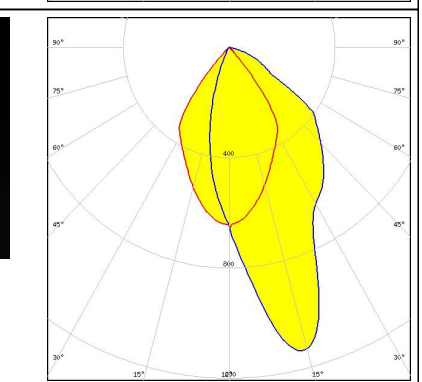
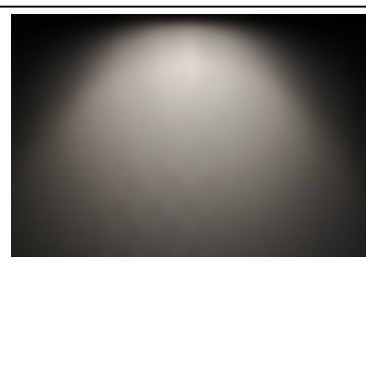
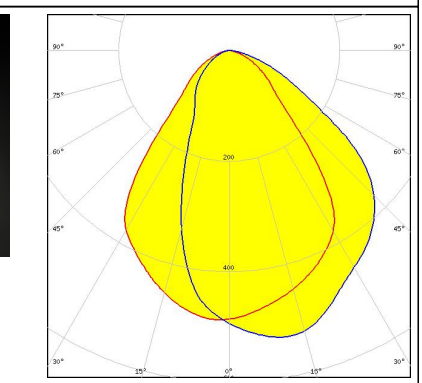
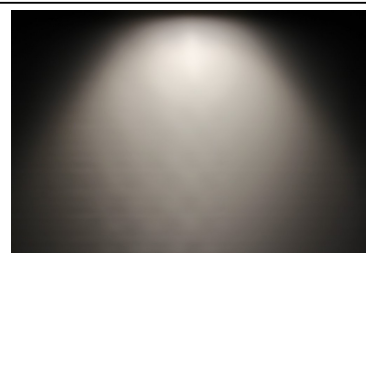
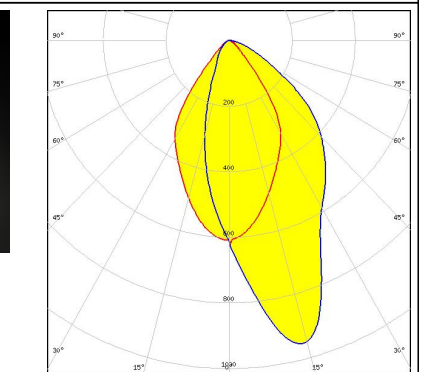
LED COB L-Type (LES 11)
FWHM Asymmetric
Efficiency 86 %
Peak intensity 0.510 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1



PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM Asymmetric Efficiency 90 % Peak intensity 1.250 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM Asymmetric Efficiency 85 % Peak intensity 0.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM Asymmetric Efficiency 84 % Peak intensity 0.930 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White FWHM Asymmetric Efficiency 83 % Peak intensity 0.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 498 Typ L2</p>		

PHOTOMETRIC DATA (MEASURED):

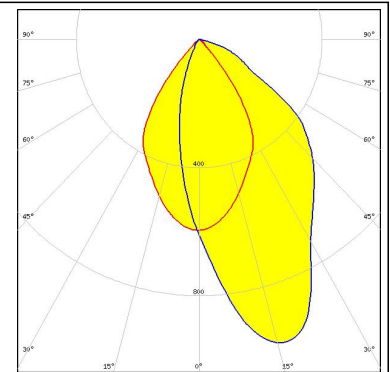
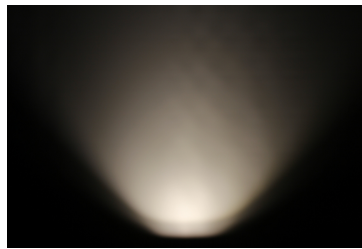
<p>NICHIA</p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM Asymmetric</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 498 Typ L2</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM Asymmetric</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 437 Typ L1</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM Asymmetric</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.530 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 437 Typ L1</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM Asymmetric</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.000 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 437 Typ L1</p>		

PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

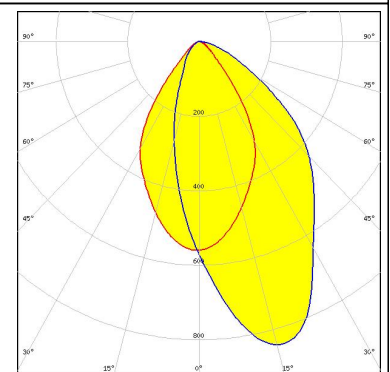
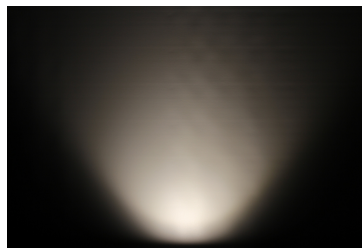
LED Soleriq S19
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 462 Typ L3



OSRAM

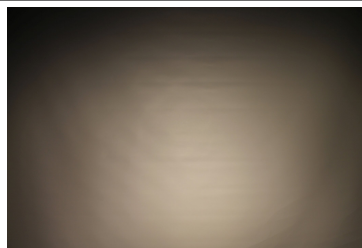
Opto Semiconductors

LED Soleriq S19
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 462 Typ L3



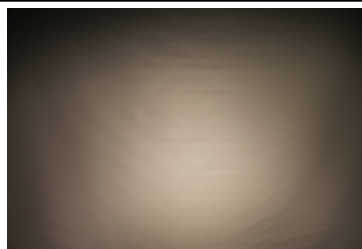
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



PHILIPS

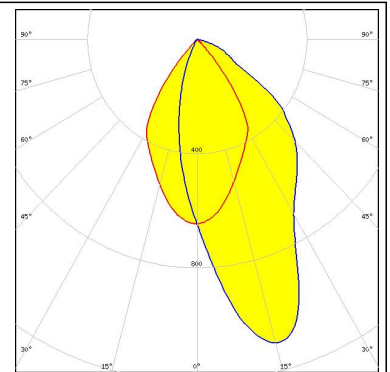
LED Fortimo SLM L13 CoB
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ



PHOTOMETRIC DATA (MEASURED):

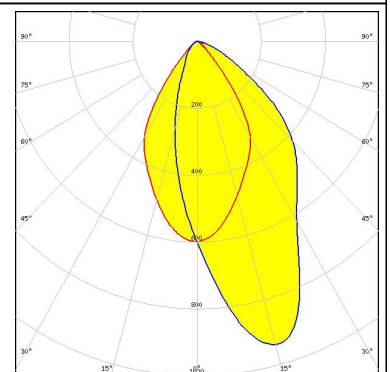
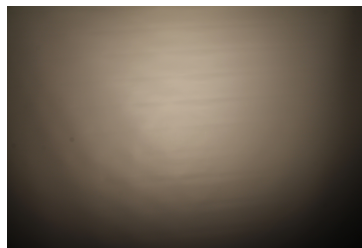
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ



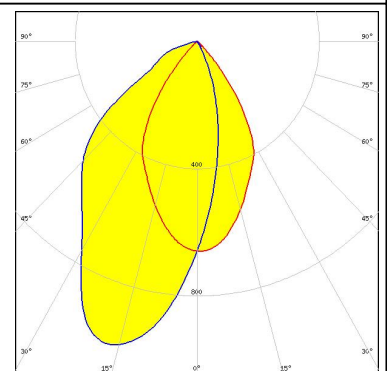
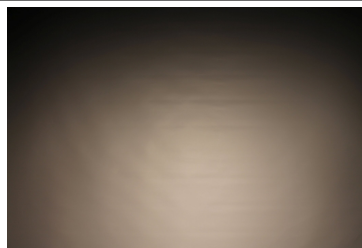
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 0.940 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



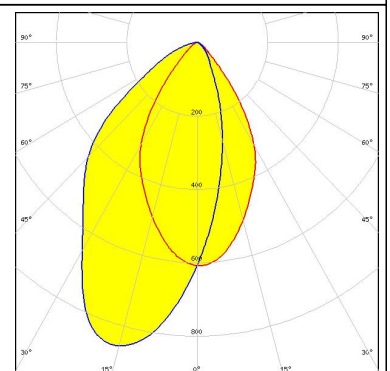
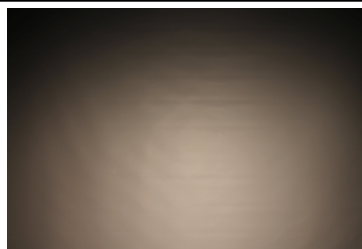
PHILIPS

LED Fortimo SLM L19 CoB
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040



PHILIPS

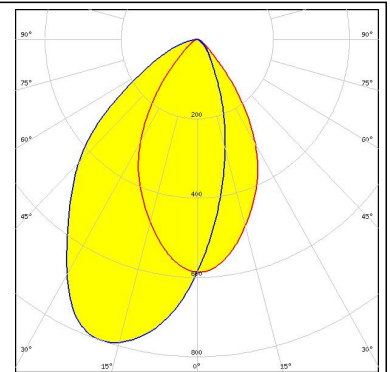
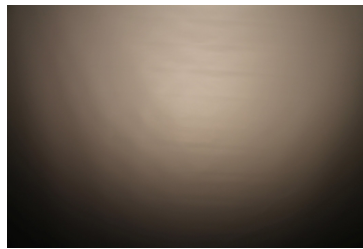
LED Fortimo SLM L19 CoB
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

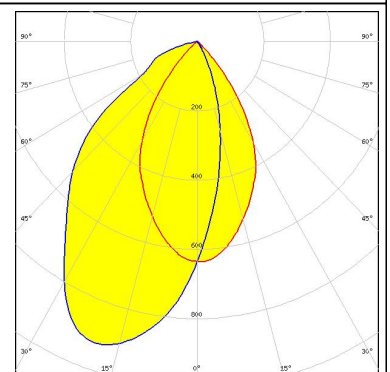
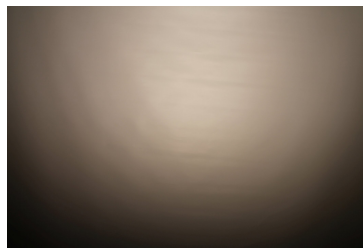
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 0.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



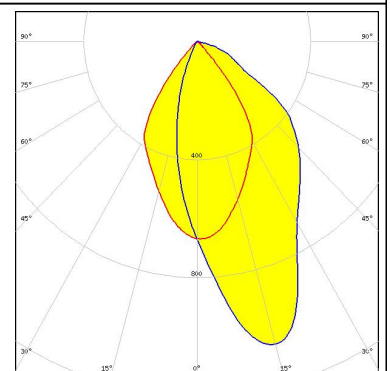
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040



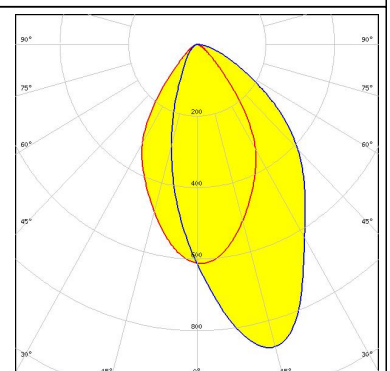
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



SAMSUNG

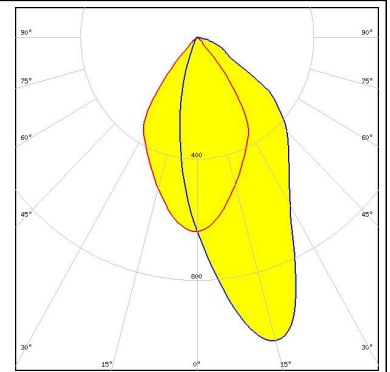
LED COB D Series LES 14.5 mm
 FWHM Asymmetric
 Efficiency 84 %
 Peak intensity 0.880 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

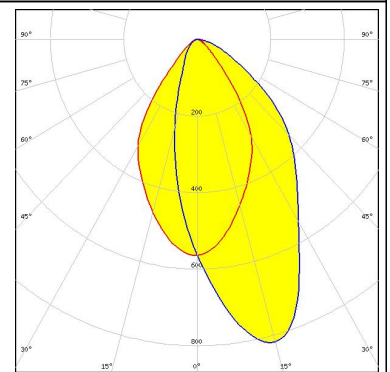
SHARP

LED Mega Zenigata (GW6DME)
 FWHM Asymmetric
 Efficiency 80 %
 Peak intensity 1.040 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ



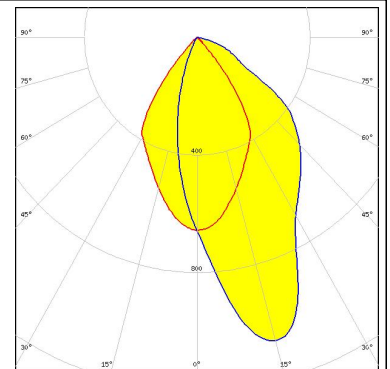
SHARP

LED Mega Zenigata (GW6DME)
 FWHM Asymmetric
 Efficiency 75 %
 Peak intensity 0.820 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



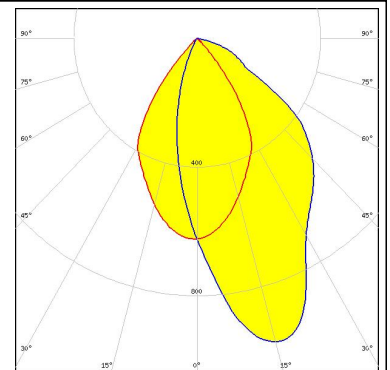
TRIDONIC

LED SLE G7 LES15
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



TRIDONIC

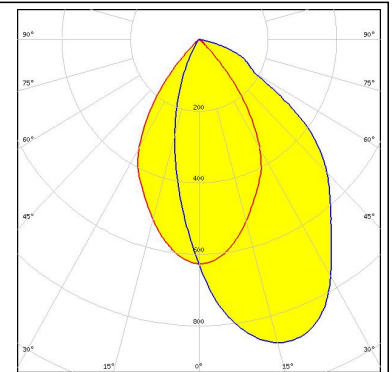
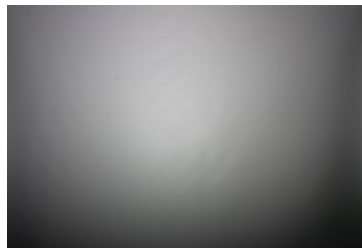
LED SLE G7 LES17 H
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 0.980 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14547_LENA-ADAPTER-B



PHOTOMETRIC DATA (MEASURED):

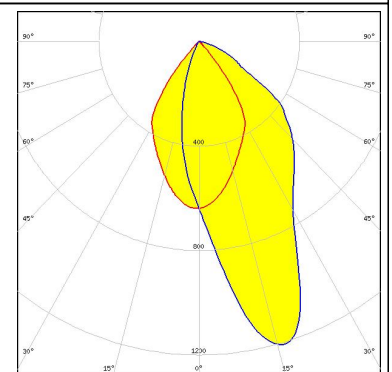
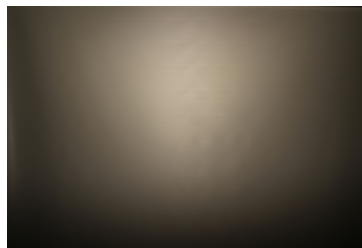
TRIDONIC

LED SLE G7 LES21 H
FWHM Asymmetric
Efficiency 86 %
Peak intensity 0.880 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14547_LENA-ADAPTER-B



XICATO

LED XOB 14.5 mm
FWHM Asymmetric
Efficiency 91 %
Peak intensity 1.210 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENA-STD-BASE-CLL030



PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V10 Gen7 FWHM Asymmetric Efficiency 88 % Peak intensity 1.350 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 486 Typ L1</p>	
<p>bridgelux.</p> <p>LED V10 Gen7 FWHM Asymmetric Efficiency 81 % Peak intensity 0.630 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 486 Typ L1</p>	
<p>bridgelux.</p> <p>LED V10 Gen7 FWHM Asymmetric Efficiency 84 % Peak intensity 1.110 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 486 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7 FWHM Asymmetric Efficiency 85 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White Required components: C11996_LENA-LENS</p>	

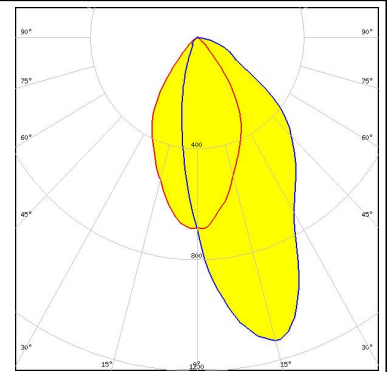
PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V13 Gen7 FWHM Asymmetric Efficiency 88 % Peak intensity 1.230 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7 FWHM Asymmetric Efficiency 88 % Peak intensity 1.090 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7 FWHM Asymmetric Efficiency 84 % Peak intensity 1.030 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7 FWHM Asymmetric Efficiency 88 % Peak intensity 1.310 cd/lm LEDs/each optic 1 Light colour White Required components: IDEAL: 50-2103CT + 50-2100LN</p>	

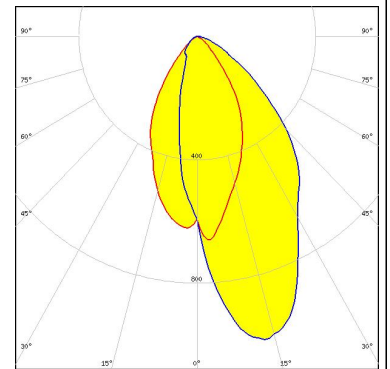
PHOTOMETRIC DATA (SIMULATED):



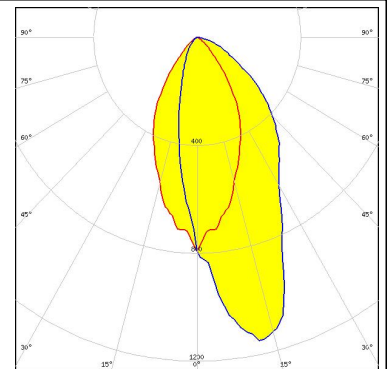
LED CXA/B 30xx
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.130 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2234C + 50-2100LN



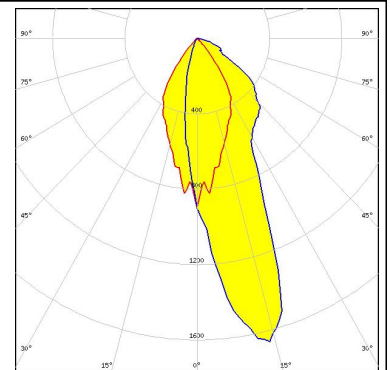
LED CXA/B 30xx
 FWHM Asymmetric
 Efficiency 81 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C11996_LENA-LENS
 IDEAL: 50-2234C + 50-2100LN



LED LUXEON CoB 1204/1205
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



LED LUXEON CoB 1204/1205
 FWHM Asymmetric
 Efficiency 93 %
 Peak intensity 1.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ



PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1208 FWHM Asymmetric Efficiency 92 % Peak intensity 1.600 cd/lm LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ</p>	
<p>LUMILEDS</p> <p>LED LUXEON CoB 1208 FWHM Asymmetric Efficiency 87 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ C11996_LENA-LENS</p>	
<p>LUMINUS</p> <p>LED CxM-14 (19x19) FWHM Asymmetric Efficiency 85 % Peak intensity 0.870 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 433 Typ L1</p>	
<p>LUMINUS</p> <p>LED CxM-14 (19x19) FWHM Asymmetric Efficiency 87 % Peak intensity 0.530 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 433 Typ L1</p>	

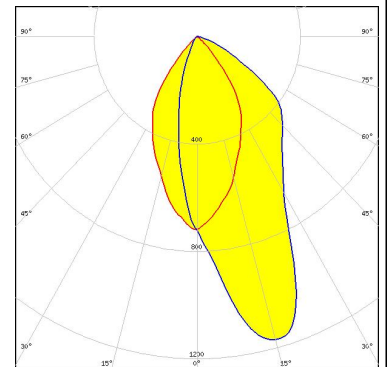
PHOTOMETRIC DATA (SIMULATED):



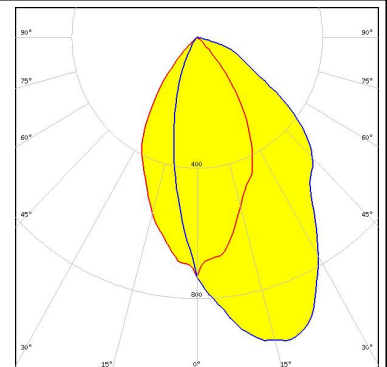
LED CxM-14 (19x19)
FWHM Asymmetric
Efficiency 90 %
Peak intensity 1.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1



LED Soleriq S15
FWHM Asymmetric
Efficiency 88 %
Peak intensity 1.170 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENA-STD-BASE-CLL030



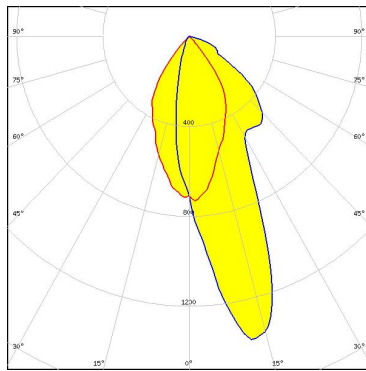


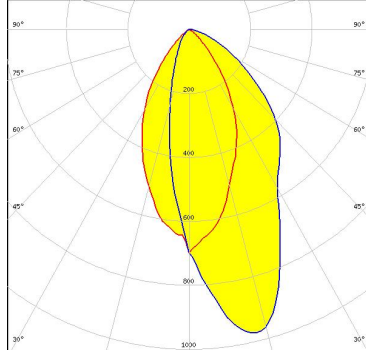


LED COB D Series LES 22 mm
FWHM Asymmetric
Efficiency 86 %
Peak intensity 0.970 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040



LED ZC12/18
FWHM Asymmetric
Efficiency 85 %
Peak intensity 0.870 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

<p> SEUL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM Asymmetric Efficiency 87 % Peak intensity 0.530 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 C11996_LENA-LENS Bender Wirth: 433 Typ L1</p>	
<p> SEUL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM Asymmetric Efficiency 86 % Peak intensity 1.400 cd/lm LEDs/each optic 1 Light colour White Required components: C12691_LENA-STD-BASE-CLL030</p>	
<p> SEUL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM Asymmetric Efficiency 90 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirth: 433 Typ L1</p>	
<p> SEUL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM Asymmetric Efficiency % Peak intensity cd/lm LEDs/each optic 1 Light colour White Required components: C12691_LENA-STD-BASE-CLL030 C11996_LENA-LENS</p>	

PHOTOMETRIC DATA (SIMULATED):

SHARP

LED Mega Zenigata (GW5DGC)
FWHM Asymmetric
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS

SHARP

LED Mega Zenigata (GW5DGC)
FWHM Asymmetric
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
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

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Hong Kong, China

Distribution Partners

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