

ANGELETTE-WW

~60° wide beam

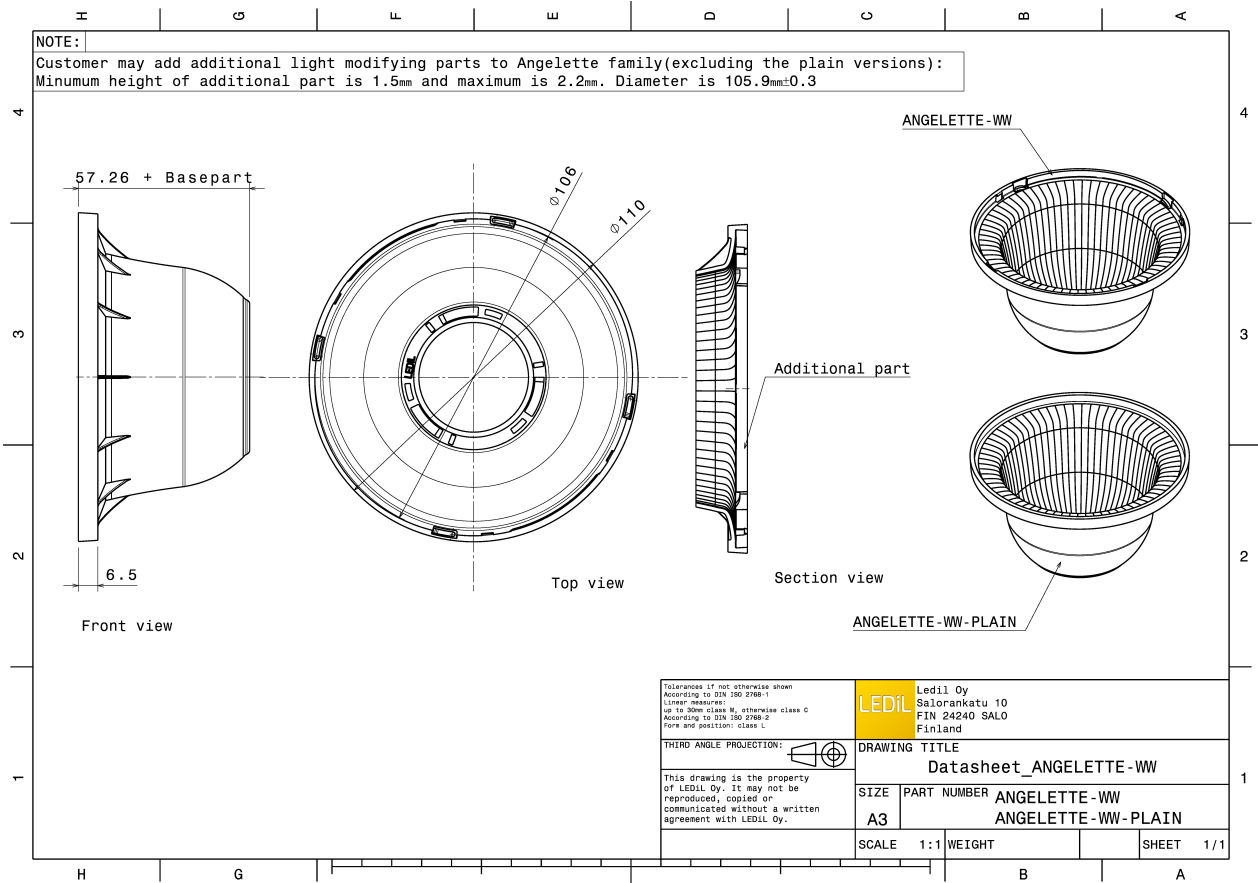
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 110.0 mm
Height	57.3 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	5.3 kg
Quantity in Box	120 pcs
ROHS compliant	yes ⓘ


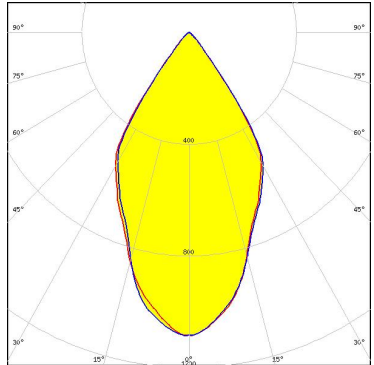

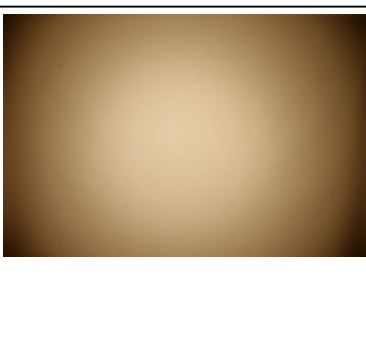
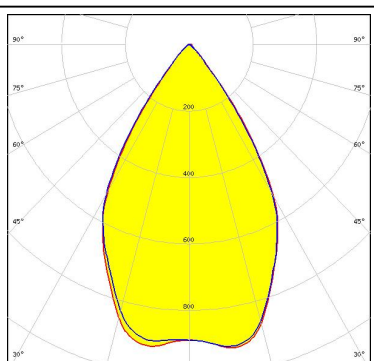
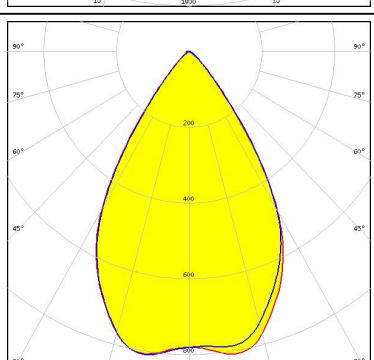


MATERIAL SPECIFICATIONS:

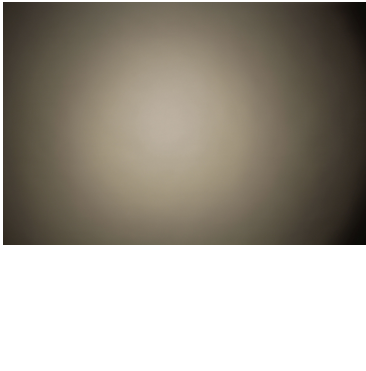
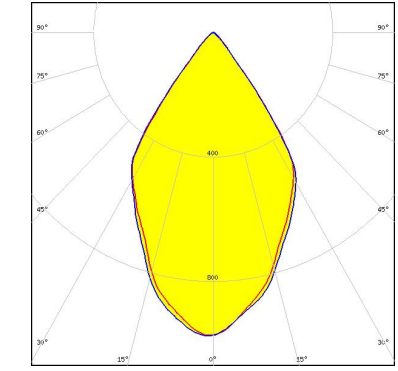
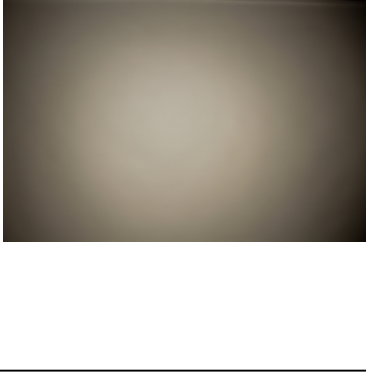
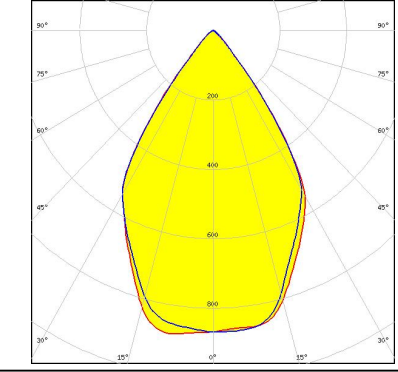
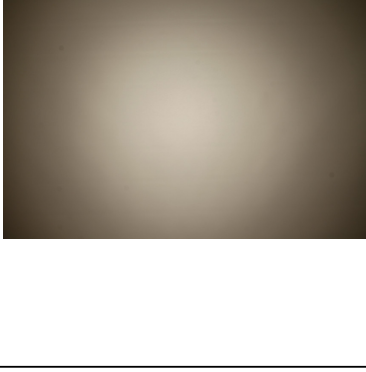
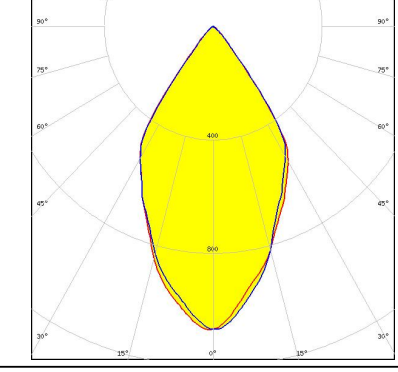
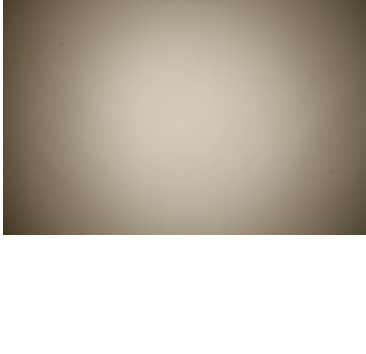
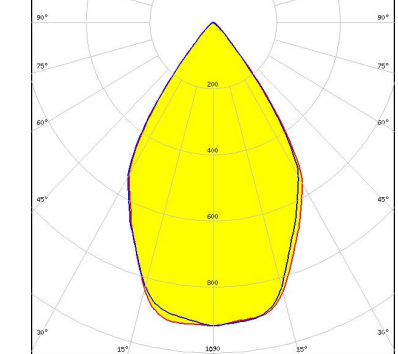
Component	Type	Material	Colour	Coating
ANGELETTE-WW	Reflector	PC	metal	




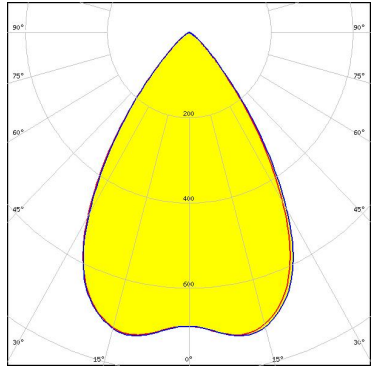

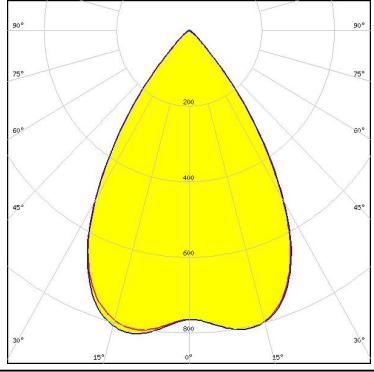
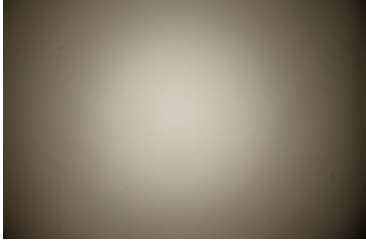
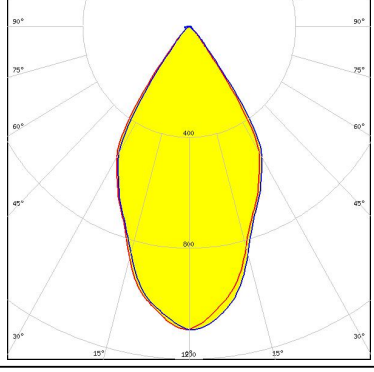
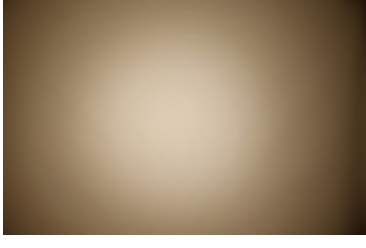
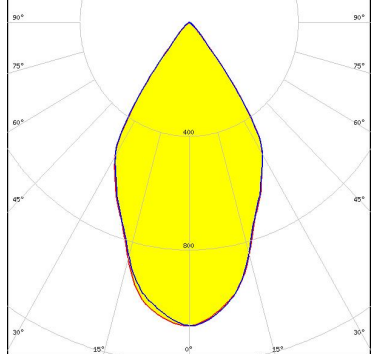
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 60.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 65.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.900 cd/lm</p> <p>Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V22 Gen6</p> <p>FWHM 63.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.920 cd/lm</p> <p>Required components: IDEAL: 50-2204-CT + 50-2100AN</p>		
<p>bridgelux.</p> <p>LED V22 Gen6</p> <p>FWHM 65.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.810 cd/lm</p> <p>Required components: F13671_ANGE-RZ-LENS IDEAL: 50-2204-CT + 50-2100AN</p>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED Vero SE 13</p> <p>FWHM 66.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.980 cd/lm</p> <p>Required components:</p> <p> C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED Vero SE 18</p> <p>FWHM 67.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.880 cd/lm</p> <p>Required components:</p> <p> C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 60.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>Required components:</p> <p> C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 66.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.900 cd/lm</p> <p>Required components:</p> <p> C13658_CLAMP-VERO13-18</p>		

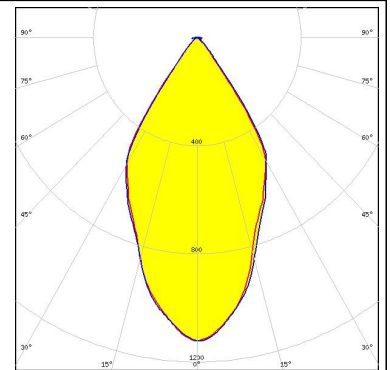
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO29 FWHM 69.0° Efficiency 85 % Peak intensity 0.700 cd/lm Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED VERO29 FWHM 68.0° Efficiency 90 % Peak intensity 0.800 cd/lm Required components: C13584_CLAMP-VERO29</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM 59.0° Efficiency 89 % Peak intensity 1.100 cd/lm Required components: IDEAL: 50-2103CT + 50-2100AN</p>		
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM 61.0° Efficiency 89 % Peak intensity 1.100 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

PHOTOMETRIC DATA (MEASURED):

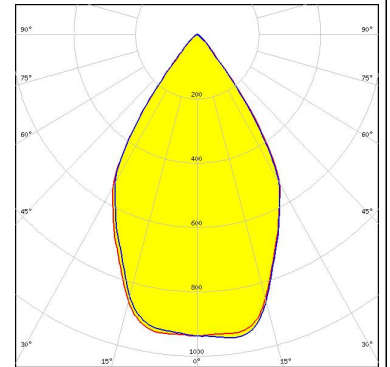
CITIZEN

LED CLU730/731
 FWHM 57.0°
 Efficiency 89 %
 Peak intensity 1.100 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



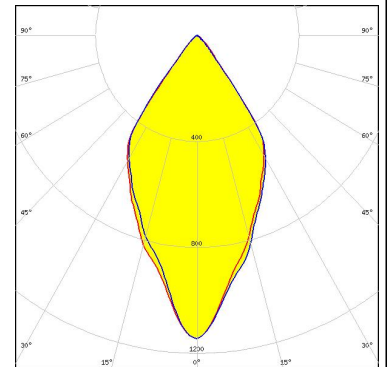
CREE

LED CMA2550
 FWHM 64.0°
 Efficiency 90 %
 Peak intensity 0.950 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



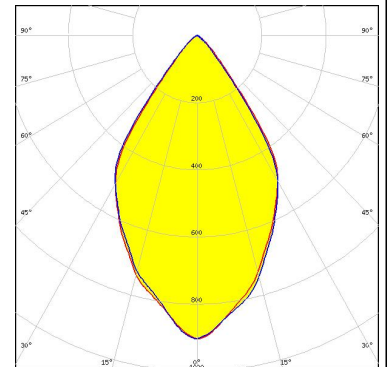
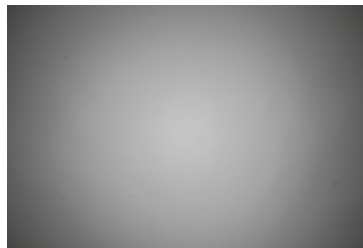
CREE

LED CXA/B 15xx
 FWHM 55.0°
 Efficiency 90 %
 Peak intensity 1.100 cd/lm
 Required components:
 C14123_CLAMP-CXA15-18



CREE

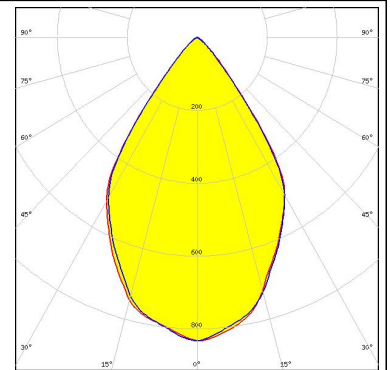
LED CXA/B 15xx
 FWHM 66.0°
 Efficiency 86 %
 Peak intensity 0.900 cd/lm
 Required components:
 C14123_CLAMP-CXA15-18
 F13671_ANGE-RZ-LENS



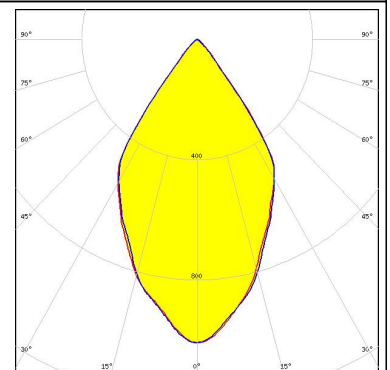
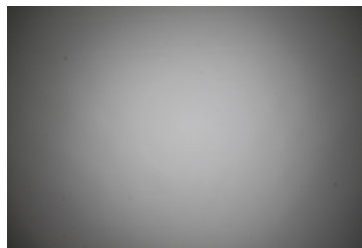
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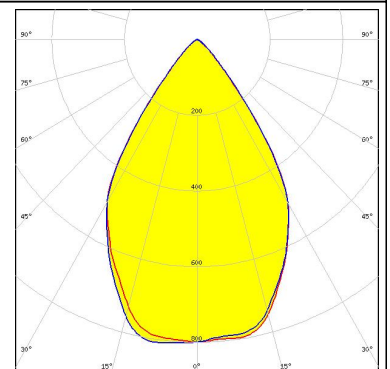
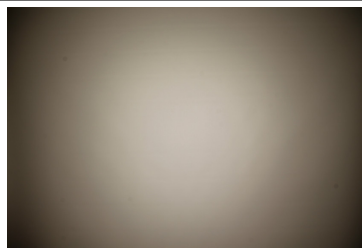
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 68.0°
 Efficiency 86 %
 Peak intensity 0.800 cd/lm
 Required components:
 C14123_CLAMP-CXA15-18
 F13671_ANGE-RZ-LENS



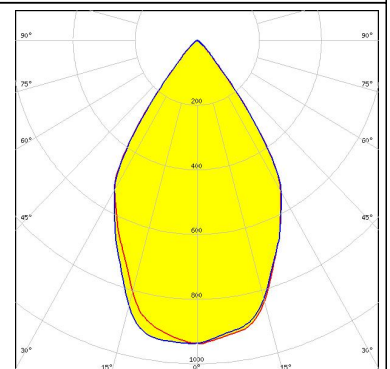
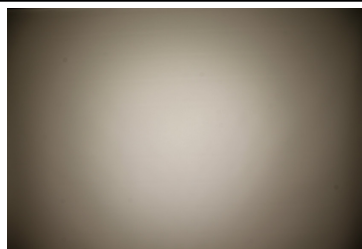
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 64.0°
 Efficiency 90 %
 Peak intensity 1.000 cd/lm
 Required components:
 C14123_CLAMP-CXA15-18



LED CXA/B 25xx
 FWHM 67.0°
 Efficiency 85 %
 Peak intensity 0.800 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30
 F13671_ANGE-RZ-LENS



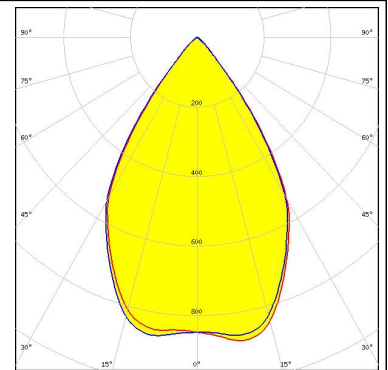
LED CXA/B 25xx
 FWHM 65.0°
 Efficiency 89 %
 Peak intensity 0.900 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



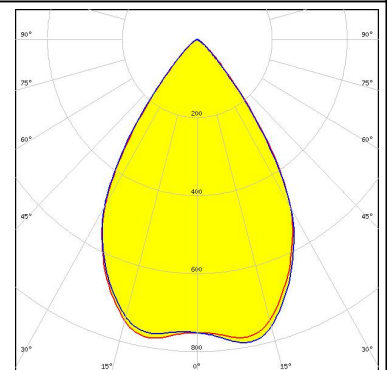
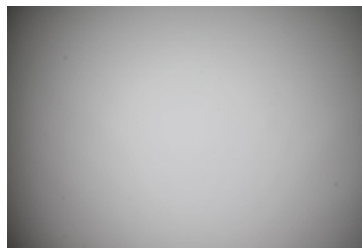
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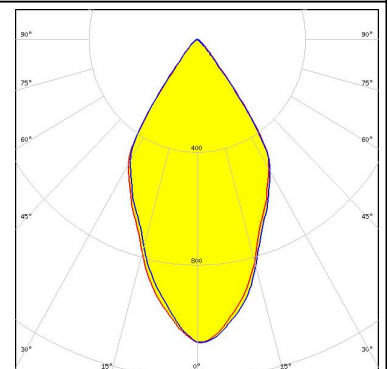
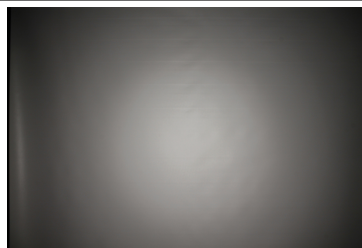
LED CXA/B 30xx
 FWHM 66.0°
 Efficiency 90 %
 Peak intensity 0.900 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



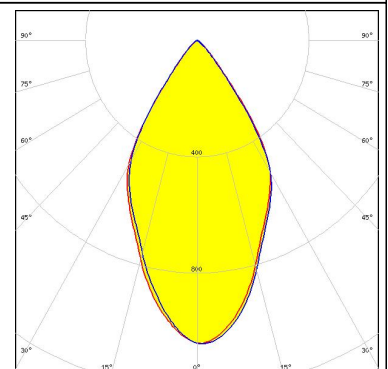
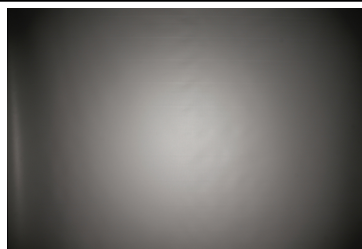
LED CXA/B 30xx
 FWHM 67.0°
 Efficiency 86 %
 Peak intensity 0.800 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30
 F13671_ANGE-RZ-LENS



LED LUXEON CoB 1204/1205
 FWHM 58.0°
 Efficiency 86 %
 Peak intensity 1.100 cd/lm
 Required components:
 F15176_ANGELETTE-LENS
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1204/1205
 FWHM 59.0°
 Efficiency 86 %
 Peak intensity 1.000 cd/lm
 Required components:
 F15412_ANGELETTE-DL
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):



LED LUXEON CoB 1204/1205

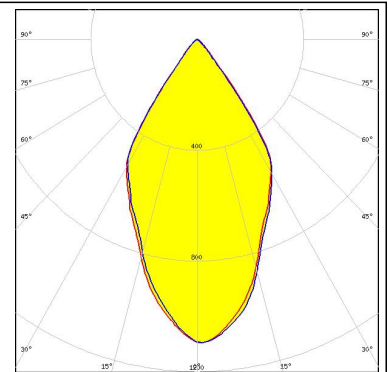
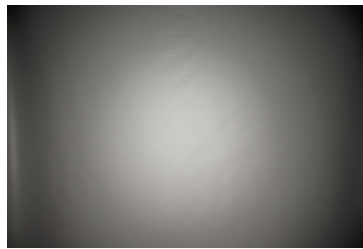
FWHM 59.0°

Efficiency 89 %

Peak intensity 1.100 cd/lm

Required components:

TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208

FWHM 64.0°

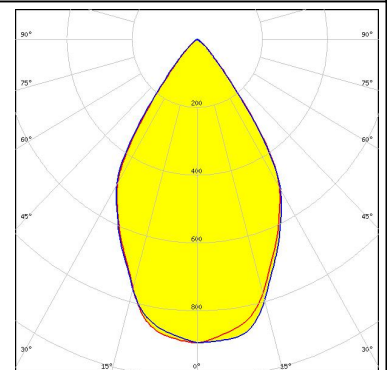
Efficiency 85 %

Peak intensity 0.890 cd/lm

Required components:

F13671_ANGE-RZ-LENS

TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208

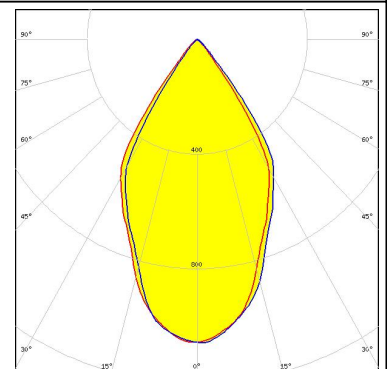
FWHM 61.0°

Efficiency 89 %

Peak intensity 1.100 cd/lm

Required components:

TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208

FWHM 63.0°

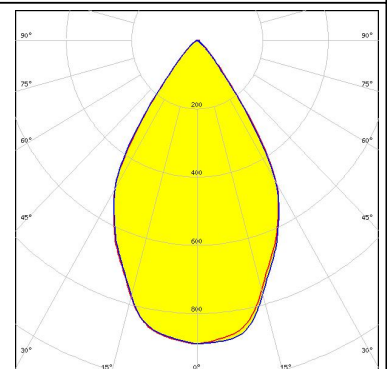
Efficiency 84 %

Peak intensity 0.890 cd/lm

Required components:

F13671_ANGE-RZ-LENS

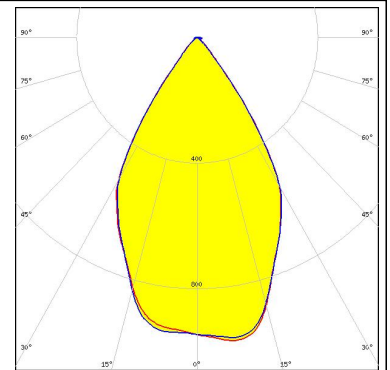
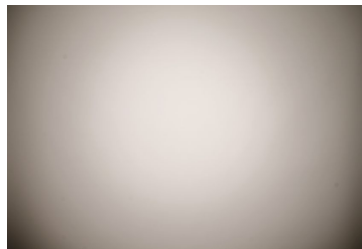
IDEAL: 50-2100SH + 50-2100AN



PHOTOMETRIC DATA (MEASURED):

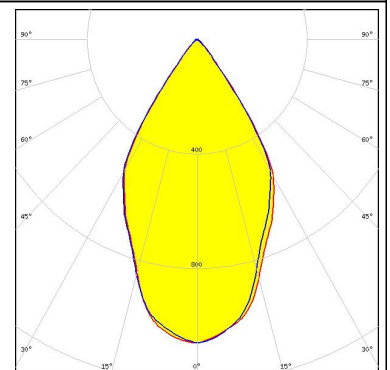
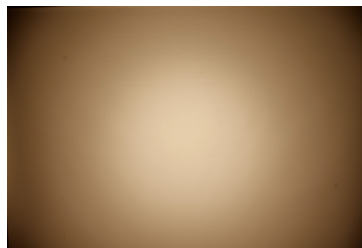
LUMILEDS

LED LUXEON CoB 1208
FWHM 63.0°
Efficiency 89 %
Peak intensity 0.970 cd/lm
Required components:
IDEAL: 50-2204-CT + 50-2100AN



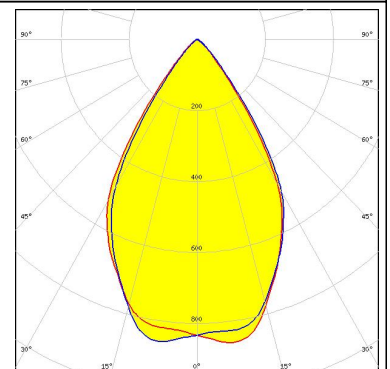
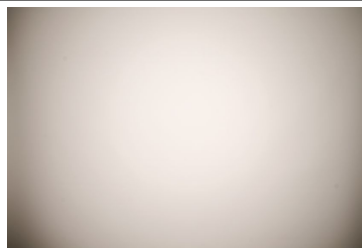
LUMILEDS

LED LUXEON CoB 1208
FWHM 61.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:
IDEAL: 50-2100SH + 50-2100AN



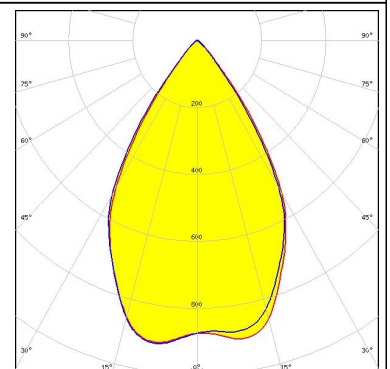
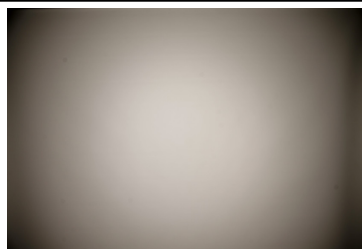
LUMILEDS

LED LUXEON CoB 1211
FWHM 64.0°
Efficiency 85 %
Peak intensity 0.870 cd/lm
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



LUMILEDS

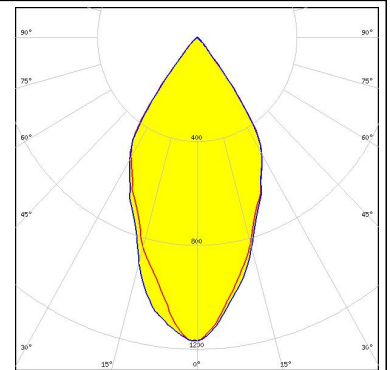
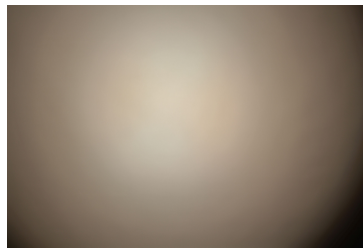
LED LUXEON CoB 1216/1812
FWHM 63.0°
Efficiency 89 %
Peak intensity 0.920 cd/lm
Required components:
IDEAL: 50-2204-CT + 50-2100AN



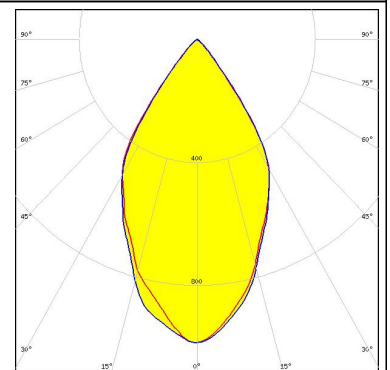
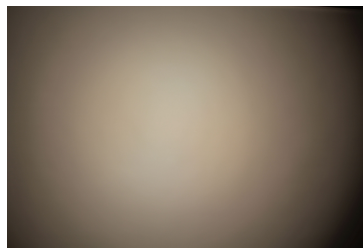
PHOTOMETRIC DATA (MEASURED):



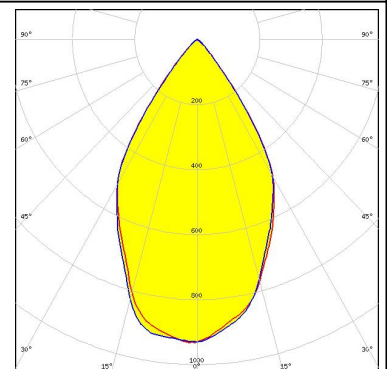
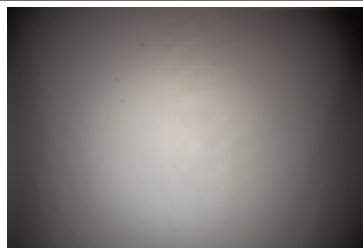
LED CDM-14 (Dim-To-Warm)
 FWHM 53.0°
 Efficiency 88 %
 Peak intensity 1.200 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



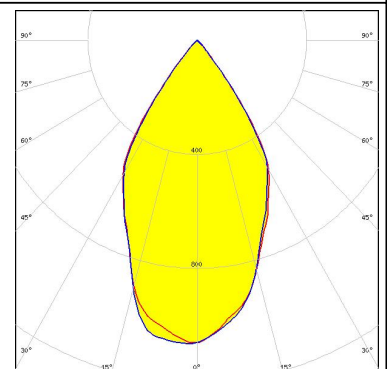
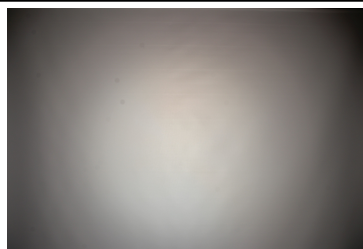
LED CDM-14 (Dim-To-Warm)
 FWHM 60.0°
 Efficiency 84 %
 Peak intensity 0.990 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



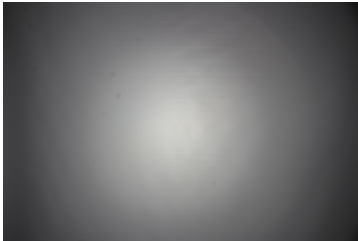
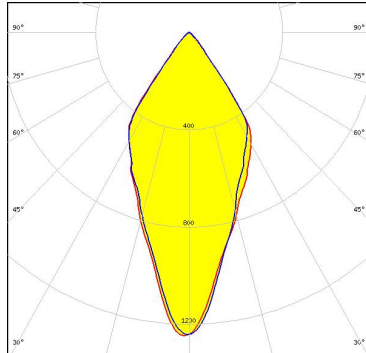
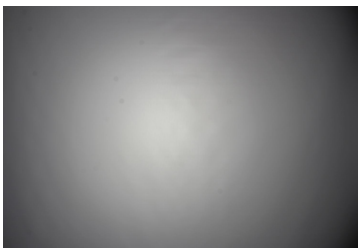
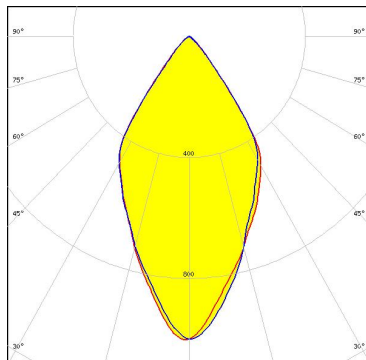

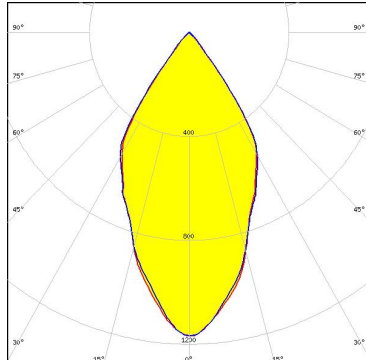
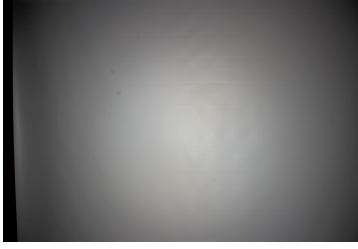
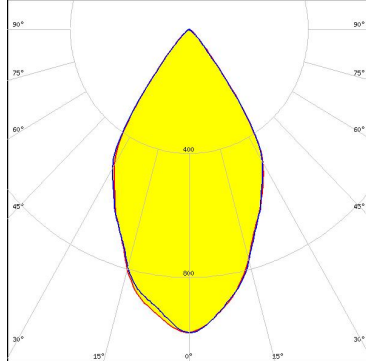
LED CDM-18 (Dim-To-Warm)
 FWHM 63.0°
 Efficiency 84 %
 Peak intensity 0.900 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)
 FWHM 60.0°
 Efficiency 88 %
 Peak intensity 1.100 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



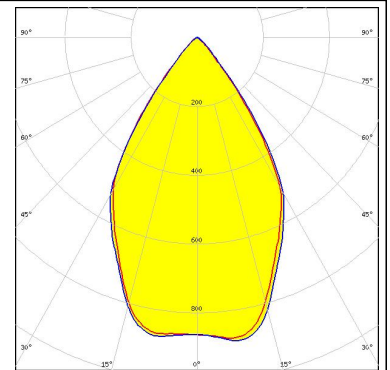
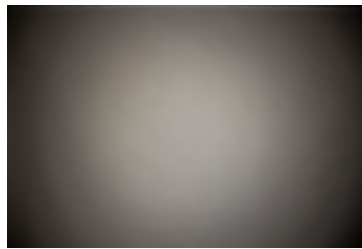
PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM 46.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 490 Typ L1</p>		
<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM 57.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.000 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 490 Typ L1</p>		
<p>LUMINUS</p> <p>LED CTM-14 (Tunable White)</p> <p>FWHM 55.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: C13584_CLAMP-VERO29 Bender Wirth: 442 Typ L3</p>		
<p>LUMINUS</p> <p>LED CTM-14 (Tunable White)</p> <p>FWHM 61.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.980 cd/lm</p> <p>Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS Bender Wirth: 442 Typ L3</p>		

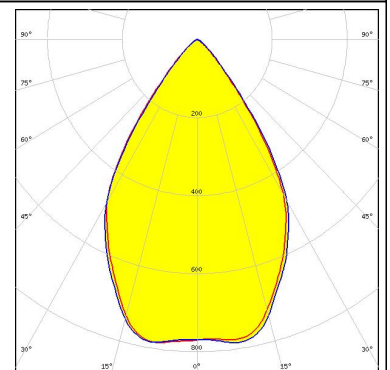
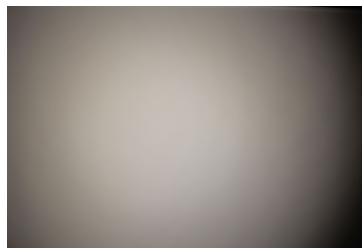
PHOTOMETRIC DATA (MEASURED):



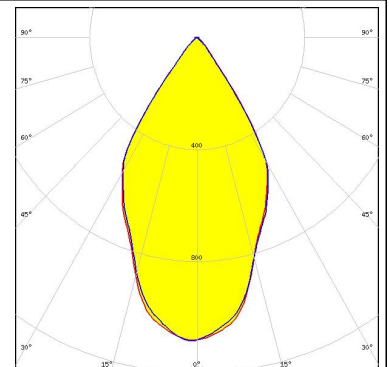
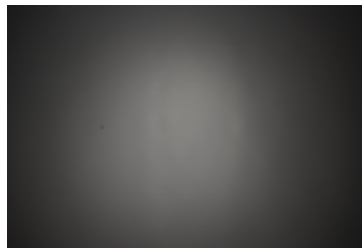
LED CTM-22 (Tunable White)
 FWHM 65.0°
 Efficiency 87 %
 Peak intensity 0.890 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



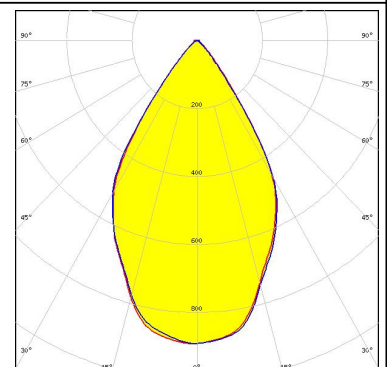
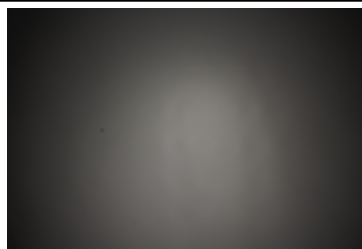
LED CTM-22 (Tunable White)
 FWHM 66.0°
 Efficiency 83 %
 Peak intensity 0.790 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



LED COB J-Type
 FWHM 60.0°
 Efficiency 89 %
 Peak intensity 1.100 cd/lm
 Required components:
 IDEAL: 50-2103NC + 50-2100AN



LED COB J-Type
 FWHM 63.0°
 Efficiency 85 %
 Peak intensity 0.890 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103NC + 50-2100AN



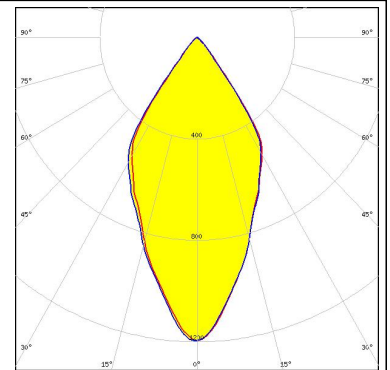
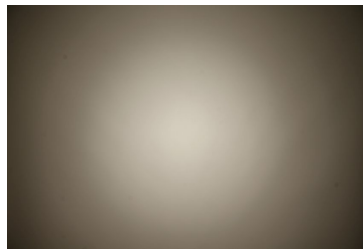
PHOTOMETRIC DATA (MEASURED):



LED COB L-Type (LES 11)
 FWHM 53.0°
 Efficiency 89 %
 Peak intensity 1.200 cd/lm

Required components:

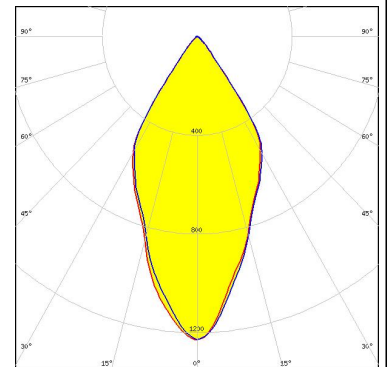
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 11)
 FWHM 51.0°
 Efficiency 88 %
 Peak intensity 1.200 cd/lm

Required components:

IDEAL: 50-2100NC + 50-2100AN

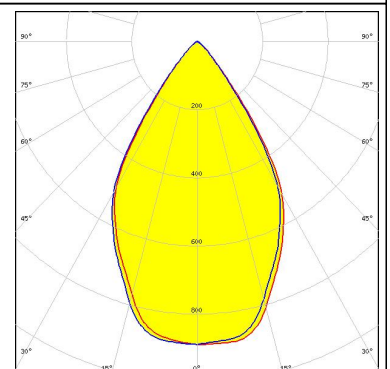
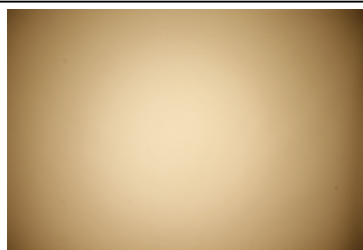


LED PrevaLED Core Z4 LES19
 FWHM 64.0°
 Efficiency 86 %
 Peak intensity 0.900 cd/lm

Required components:

F13671_ANGE-RZ-LENS

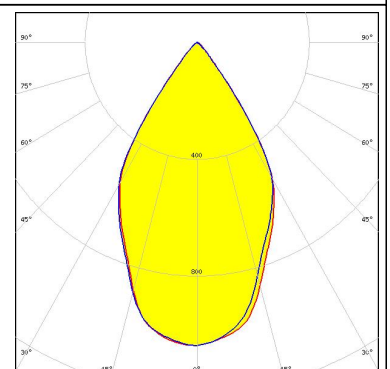
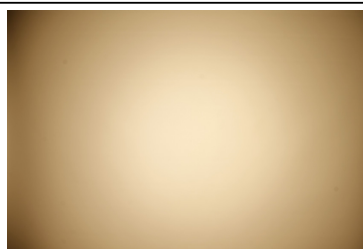
TE: 2213130-2



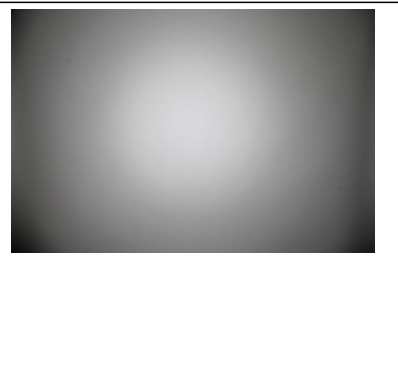
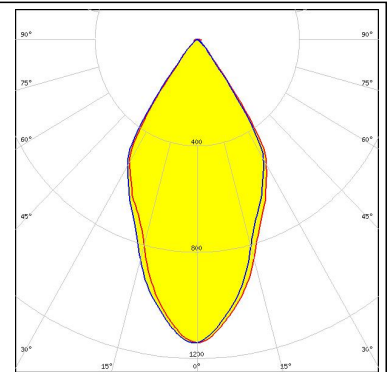
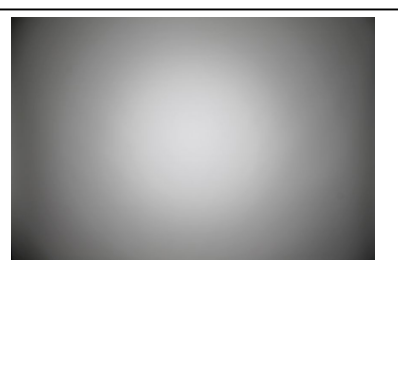
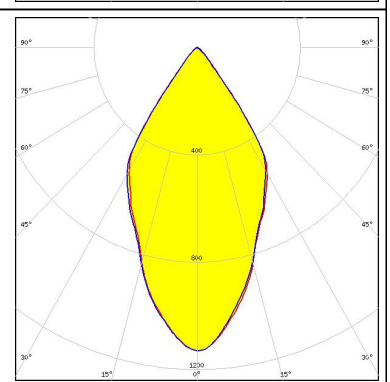

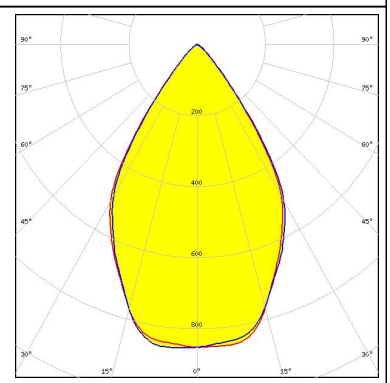
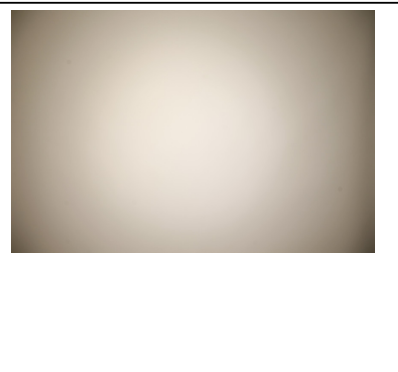
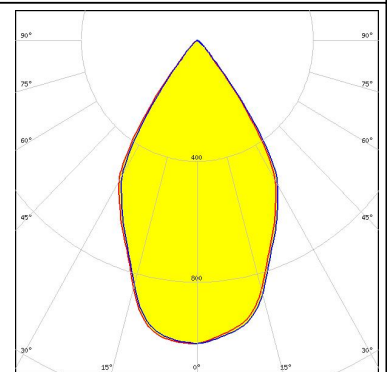
LED PrevaLED Core Z4 LES19
 FWHM 62.0°
 Efficiency 89 %
 Peak intensity 1.000 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



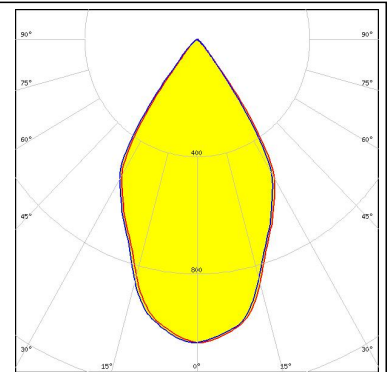
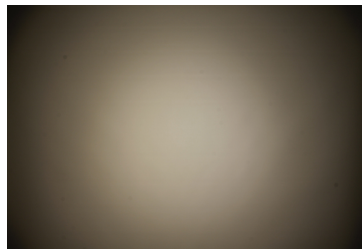
PHOTOMETRIC DATA (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13 Gen2 FWHM 56.0° Efficiency 88 % Peak intensity 1.100 cd/lm Required components: IDEAL: 50-2103CT + 50-2100AN</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13 Gen2 FWHM 56.0° Efficiency 89 % Peak intensity 1.100 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S19 FWHM 65.0° Efficiency 85 % Peak intensity 0.860 cd/lm Required components: F13671_ANGE-RZ-LENS TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S19 FWHM 63.0° Efficiency 89 % Peak intensity 1.000 cd/lm Required components: TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

PHOTOMETRIC DATA (MEASURED):

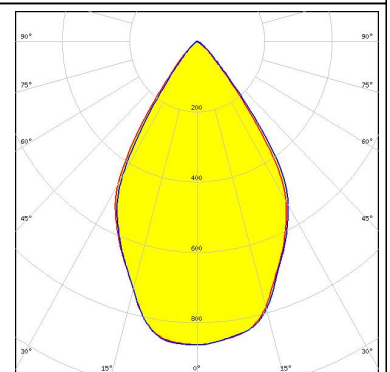
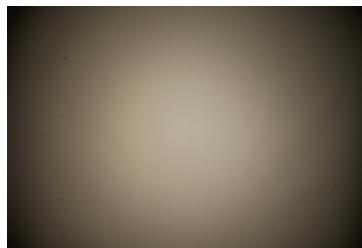
PHILIPS

LED Fortimo SLM L15 Standard
 FWHM 62.0°
 Efficiency 89 %
 Peak intensity 1.000 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



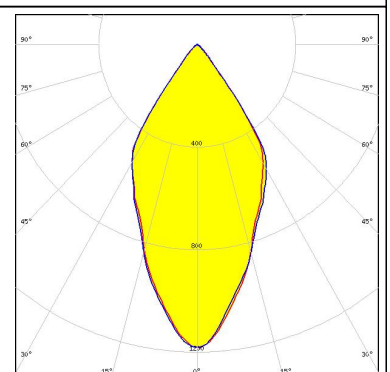
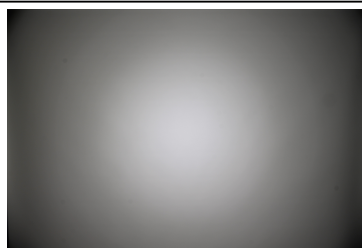
PHILIPS

LED Fortimo SLM L15 Standard
 FWHM 65.0°
 Efficiency 84 %
 Peak intensity 0.850 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1

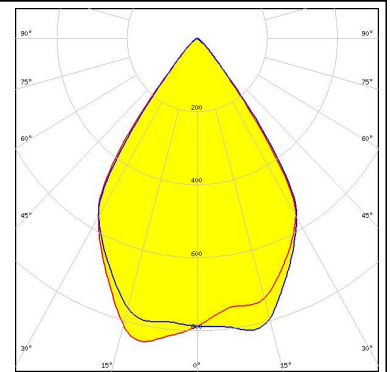
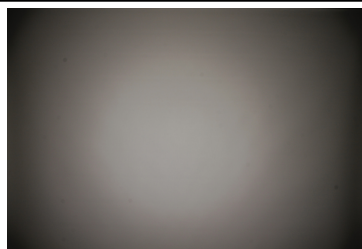


SAMSUNG

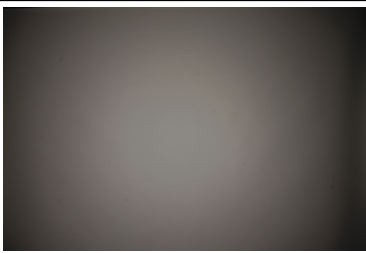
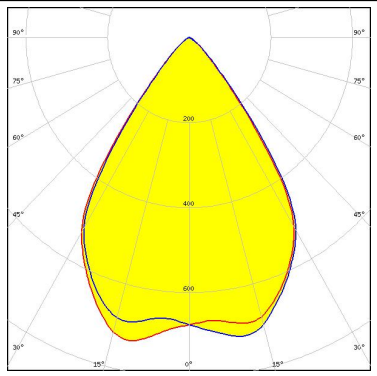

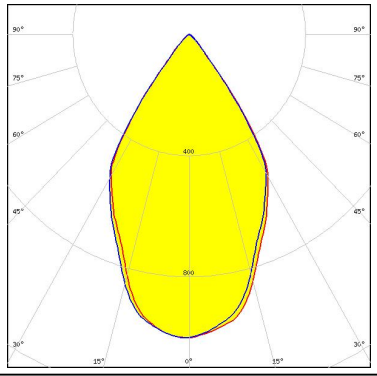
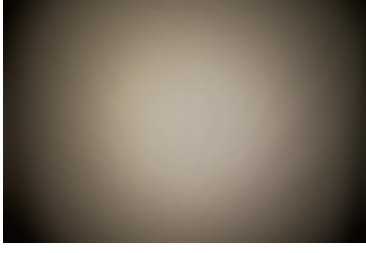
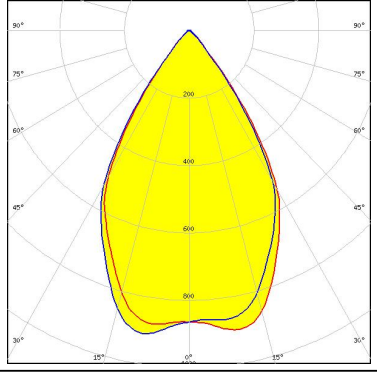

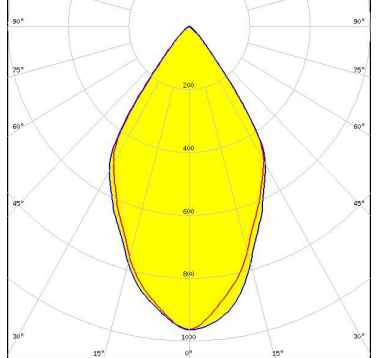
LED LC040C
 FWHM 53.0°
 Efficiency 89 %
 Peak intensity 1.200 cd/lm
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED AC Zhaga COB
 FWHM 70.0°
 Efficiency 89 %
 Peak intensity 0.850 cd/lm
 Required components:
 Optosource: SEHSMJD-A



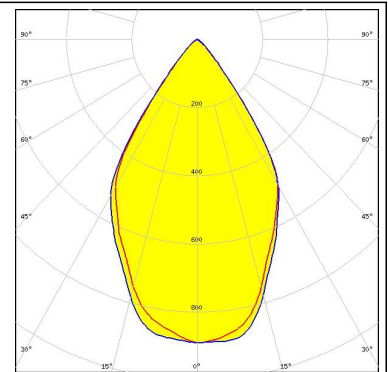
PHOTOMETRIC DATA (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED AC Zhaga COB FWHM 71.0° Efficiency 85 % Peak intensity 0.740 cd/lm Required components: F13671_ANGE-RZ-LENS Optosource: SEHSMJD-A</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 14.5 FWHM 64.0° Efficiency 89 % Peak intensity 1.000 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22 FWHM 64.0° Efficiency 87 % Peak intensity 0.910 cd/lm Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3</p>		
<p>TRIDONIC</p> <p>LED SLE G1 11mm 1000lm 927 Sunset R EXC FWHM 62.0° Efficiency 85 % Peak intensity 0.960 cd/lm Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

PHOTOMETRIC DATA (MEASURED):

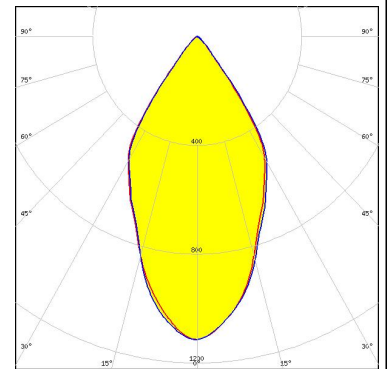
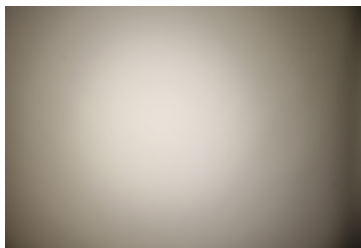
TRIDONIC

LED SLE G1 15mm 2000lm 927 Sunset R EXC
FWHM 65.0°
Efficiency 85 %
Peak intensity 0.910 cd/lm
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



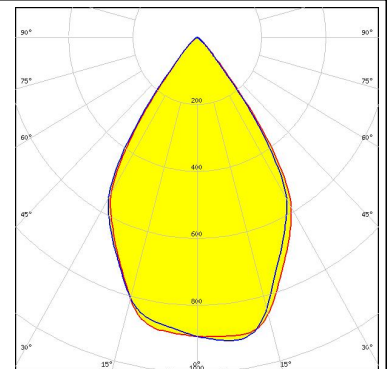
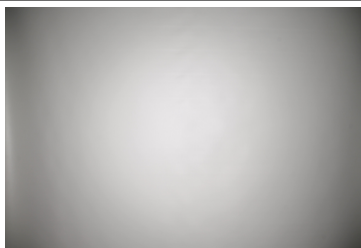
V5 LIGHTING SOLUTIONS

LED WU-M-484
FWHM 56.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

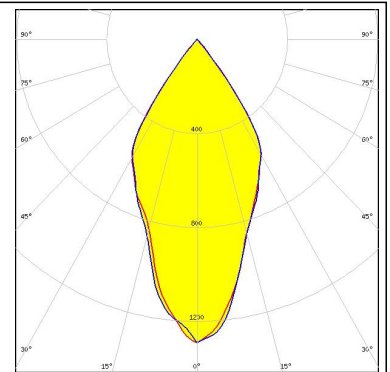
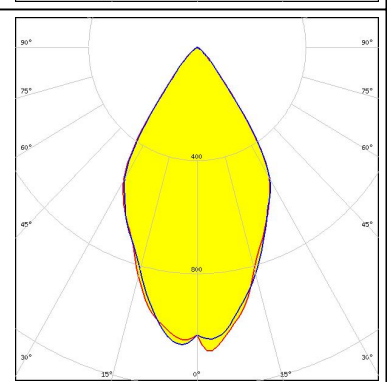
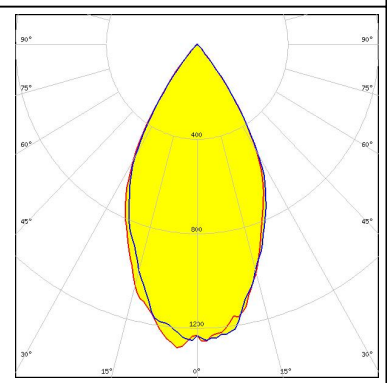
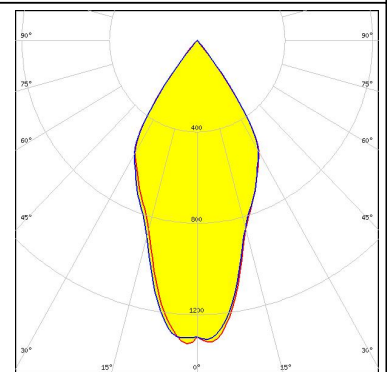


XICATO

LED XIM - 19mm LES
FWHM 66.0°
Efficiency 90 %
Peak intensity 0.920 cd/lm
Required components:
C16491_XTM-ADAPTER-50-A



PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 51.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 62.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.070 cd/lm</p> <p>Required components: IDEAL: 50-2103CT + 50-2100AN</p>	
<p>bridgelux.</p> <p>LED V22 Gen7</p> <p>FWHM 55.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.341 cd/lm</p> <p>Required components: IDEAL: 50-2204-CT + 50-2100AN</p>	
<p>TRIDONIC</p> <p>LED SLE G6 LES15</p> <p>FWHM 48.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>	

PHOTOMETRIC DATA (SIMULATED):

TRIDONIC

LED SLE G6 LES17

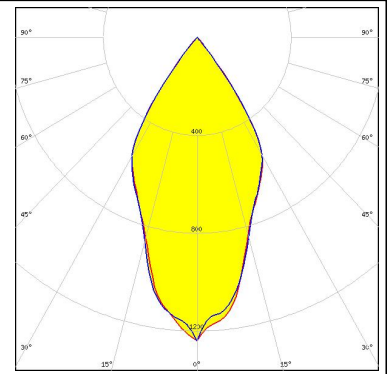
FWHM 52.0°

Efficiency 86 %

Peak intensity 1.240 cd/lm

Required components:

TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



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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