

## ANGELETTE-WW-PLAIN

~60° wide beam. Clean appearance with no additional attachment interface.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 110.0 mm
Height	57.3 mm
Fastening	socket
ROHS compliant	yes ⓘ

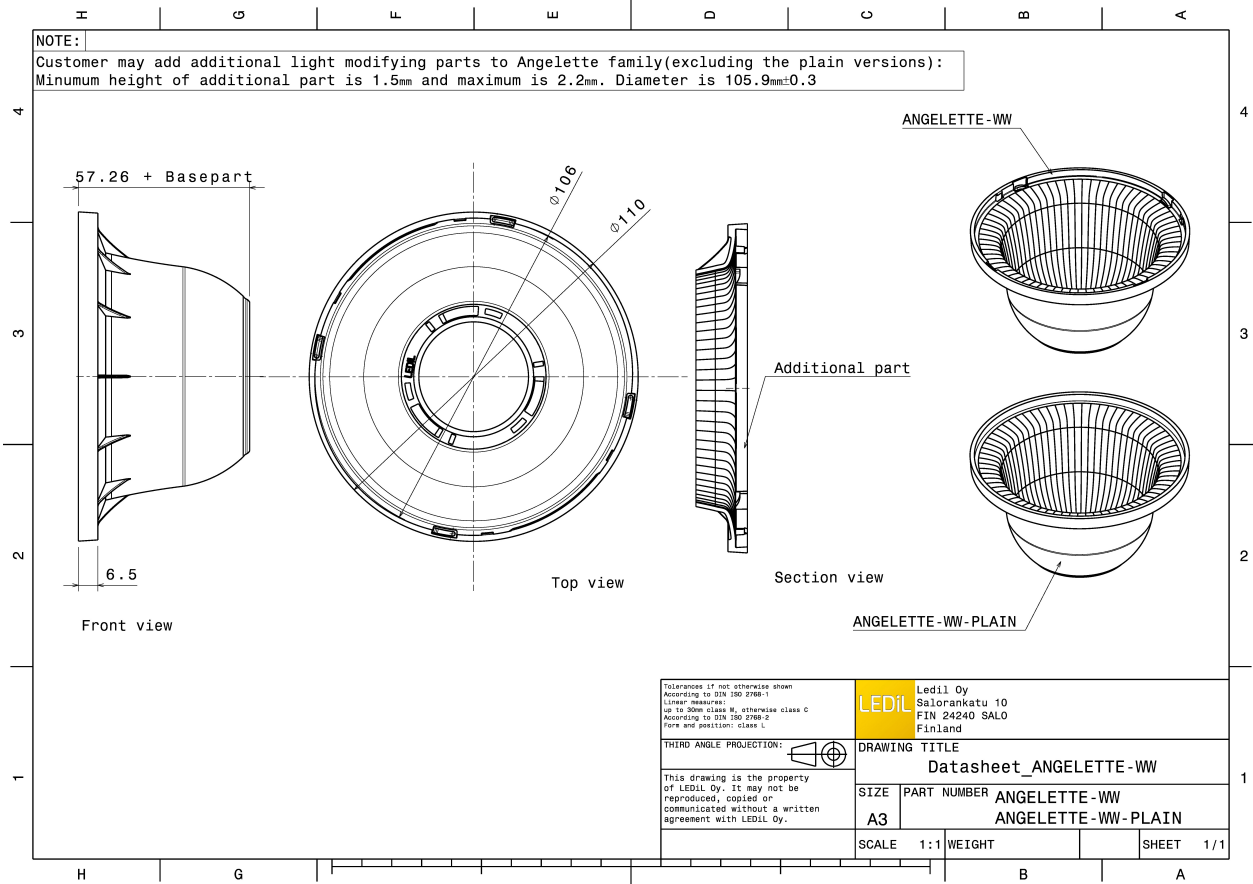


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
ANGELETTE-WW-PLAIN	Reflector	PC	metal		HMDS


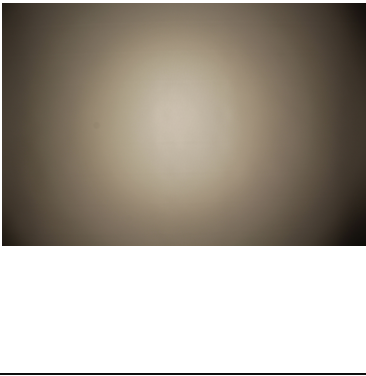
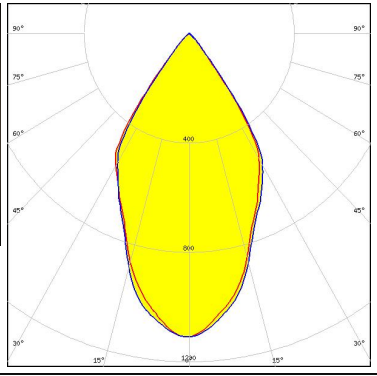


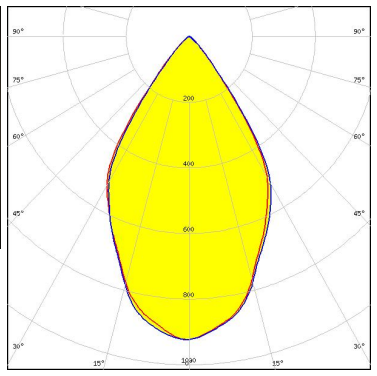


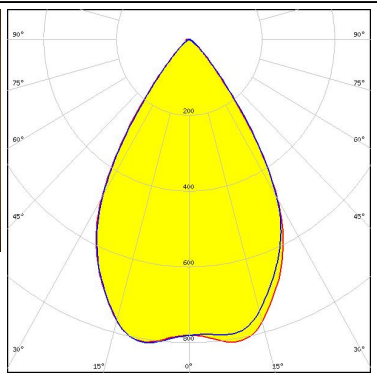

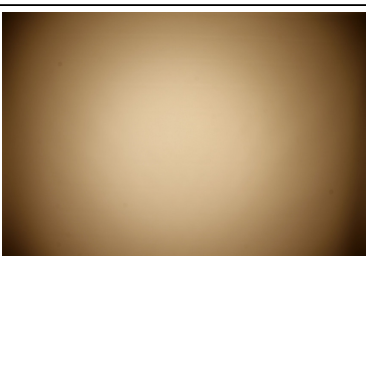
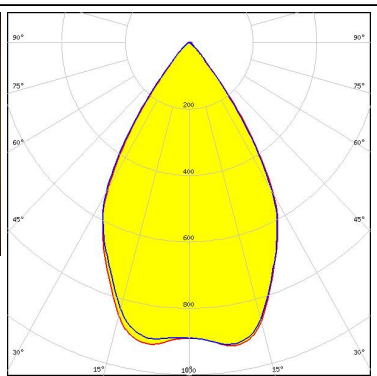
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14622_ANGELETTE-WW-PLAIN » Box size: 398 x 298 x 265 mm	120	90	30	5.3

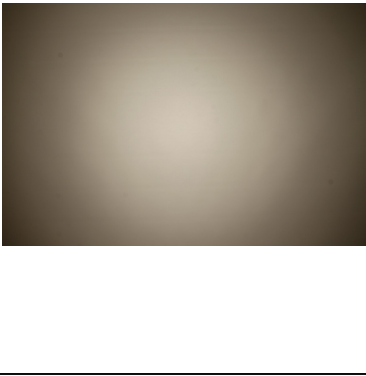
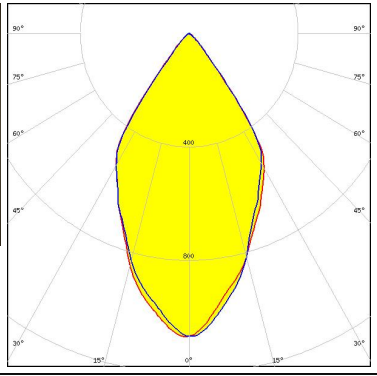
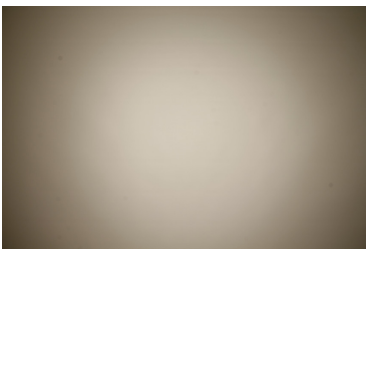
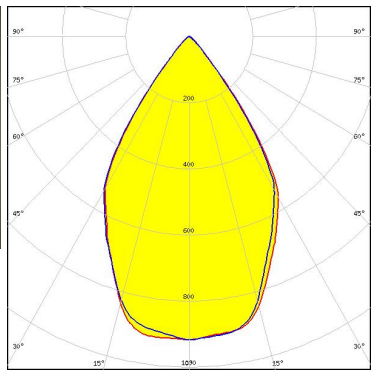

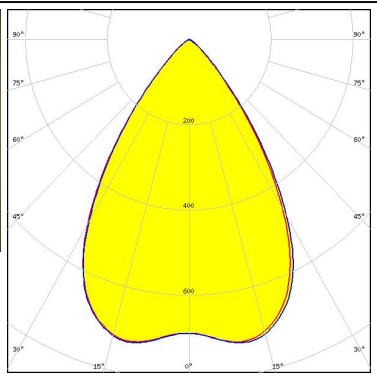
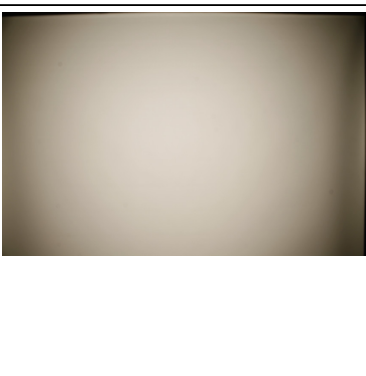
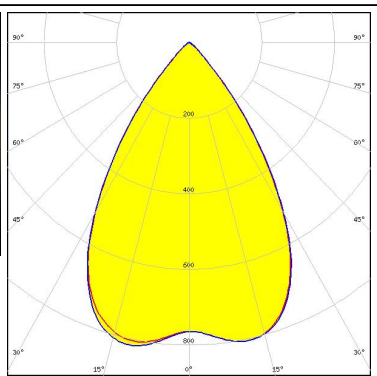


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)


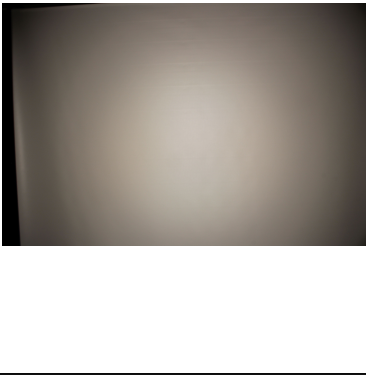
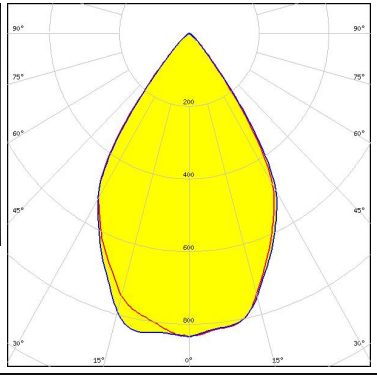

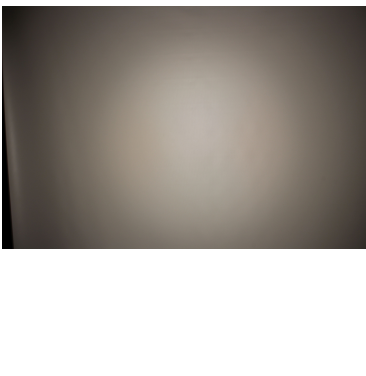
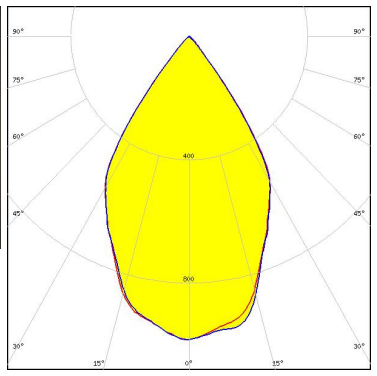


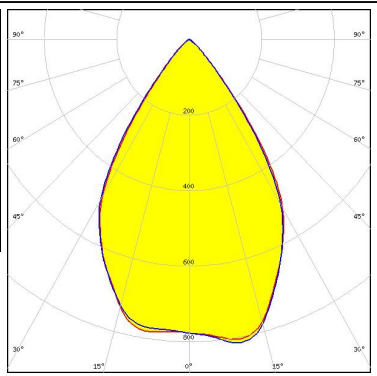

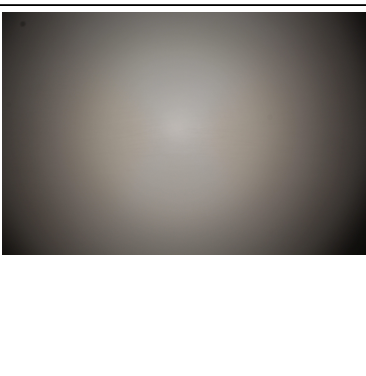
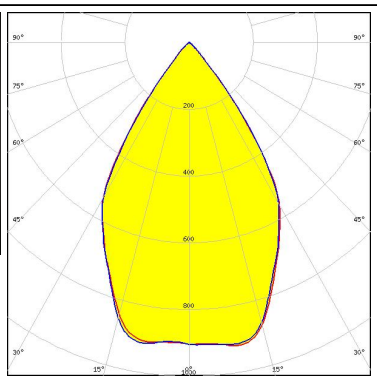
#### PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED V13 Gen7            FWHM / FWTM 59.0° / 80.0°            Efficiency 90 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p></p> <p>LED V13 Gen7            FWHM / FWTM 64.0° / 86.0°            Efficiency 86 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p></p> <p>LED V22 Gen6            FWHM / FWTM 65.0° / 88.0°            Efficiency 85 %            Peak intensity 0.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            IDEAL: 50-2204-CT + 50-2100AN</p>		
<p></p> <p>LED V22 Gen6            FWHM / FWTM 63.0° / 83.0°            Efficiency 89 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            IDEAL: 50-2204-CT + 50-2100AN</p>		


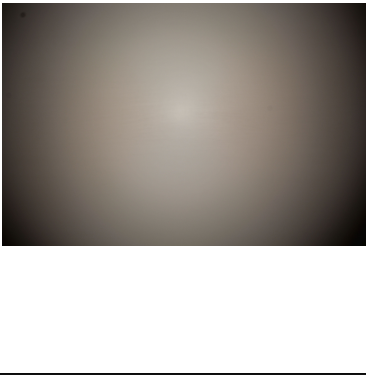
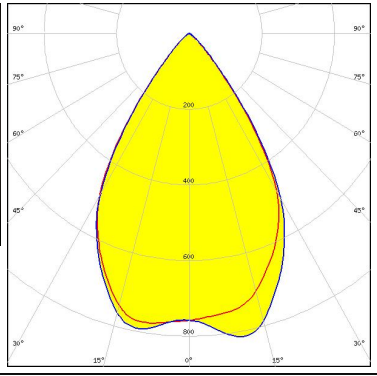


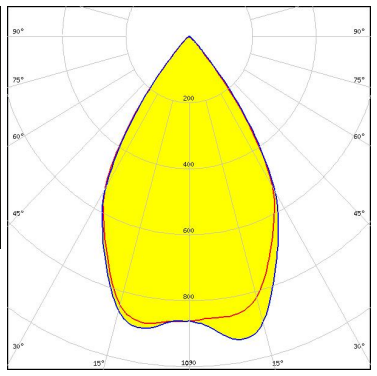

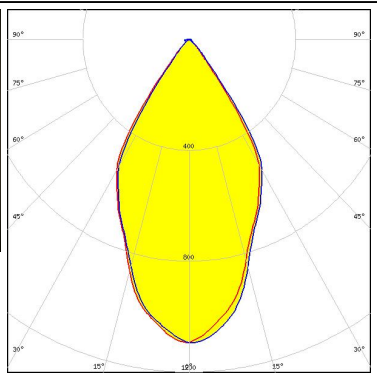
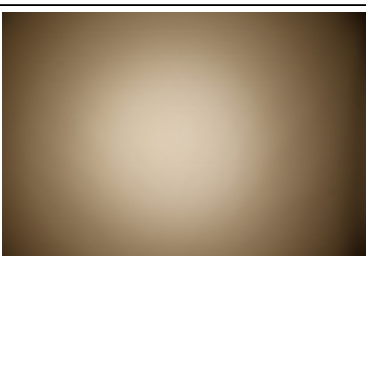
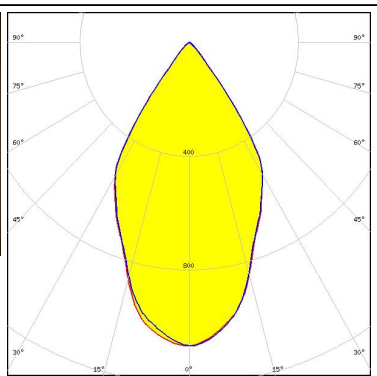
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM / FWTM 60.0° / 82.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM / FWTM 66.0° / 84.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM / FWTM 69.0° / 94.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM / FWTM 68.0° / 89.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13584_CLAMP-VERO29</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED Vesta TW 15mm DP            FWHM / FWTM 66.0° / 86.0°            Efficiency 84 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C13658_CLAMP-VERO13-18            F13671_ANGE-RZ-LENS            Bender Wirth: 482 Typ L2</p>		
<p></p> <p>LED Vesta TW 15mm DP            FWHM / FWTM 65.0° / 82.0°            Efficiency 89 %            Peak intensity 1 cd/m            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 482 Typ L2</p>		
<p></p> <p>LED Vesta TW 18mm (31W) DP            FWHM / FWTM 67.0° / 88.0°            Efficiency 84 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C13584_CLAMP-VERO29            F13671_ANGE-RZ-LENS            Bender Wirth: 483 Typ L3</p>		
<p></p> <p>LED Vesta TW 18mm (31W) DP            FWHM / FWTM 66.0° / 83.0°            Efficiency 89 %            Peak intensity 0.9 cd/m            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C13584_CLAMP-VERO29            Bender Wirth: 483 Typ L3</p>		

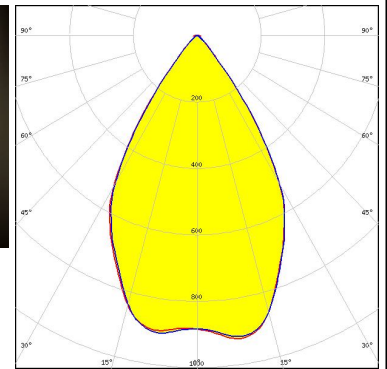
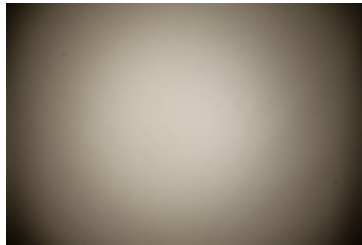
#### PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED Vesta TW 22mm DP            FWHM / FWTM 66.0° / 88.0°            Efficiency 84 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C13584_CLAMP-VERO29            F13671_ANGE-RZ-LENS            Bender Wirth: 494 Typ L3</p>		
<p></p> <p>LED Vesta TW 22mm DP            FWHM / FWTM 65.0° / 83.0°            Efficiency 88 %            Peak intensity 0.9 cd/m            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C13584_CLAMP-VERO29            Bender Wirth: 494 Typ L3</p>		
<h3>CITIZEN</h3> <p>LED CLL03x/CLU03x            FWHM / FWTM 59.0° / 80.0°            Efficiency 89 %            Peak intensity 1.1 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            IDEAL: 50-2103CT + 50-2100AN</p>		
<h3>CITIZEN</h3> <p>LED CLL03x/CLU03x            FWHM / FWTM 61.0° / 81.0°            Efficiency 89 %            Peak intensity 1.1 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

#### PHOTOMETRIC DATA (MEASURED):

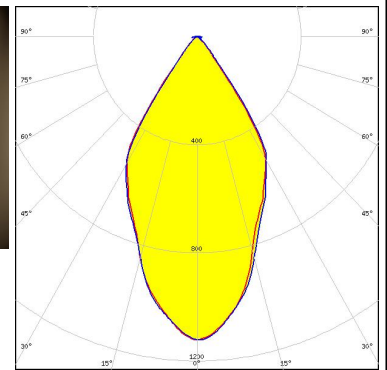
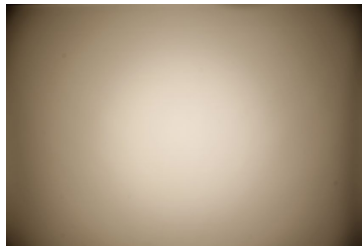
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 63.0° / 83.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



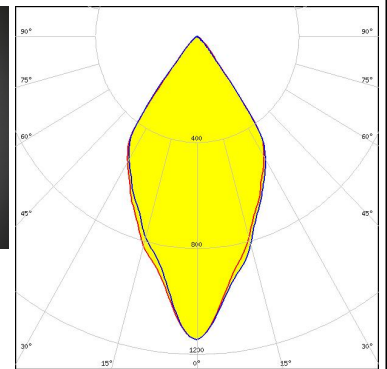
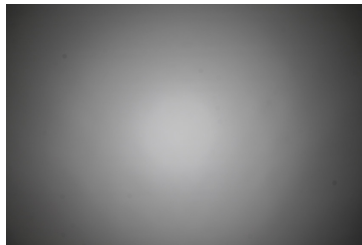
#### CITIZEN

LED CLU730/731  
 FWHM / FWTM 57.0° / 79.0°  
 Efficiency 89 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



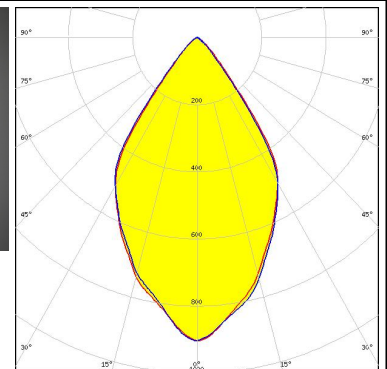
#### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 55.0° / 81.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14123\_CLAMP-CXA15-18



#### CREE LED

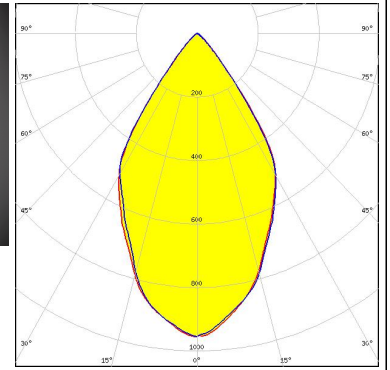
LED CXA/B 15xx  
 FWHM / FWTM 66.0° / 88.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14123\_CLAMP-CXA15-18  
 F13671\_ANGE-RZ-LENS



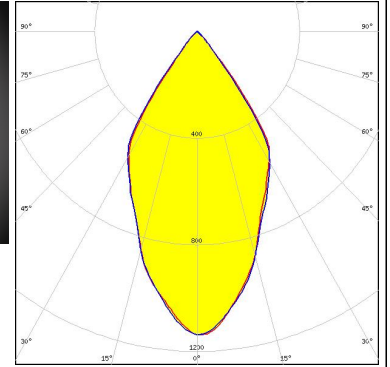
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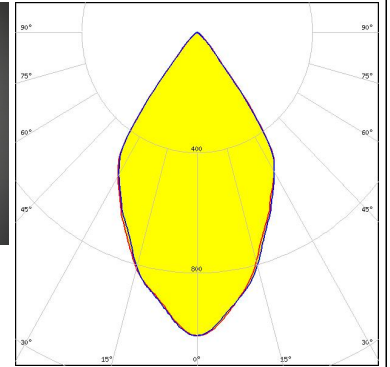
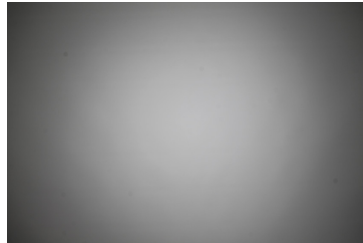
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 63.0° / 85.0°  
 Efficiency 86 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



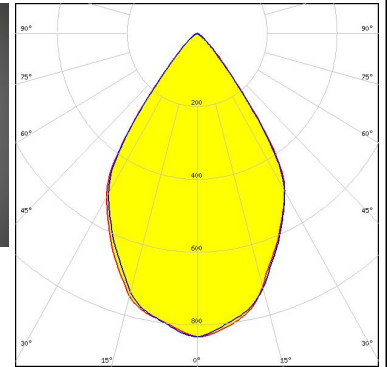
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 58.0° / 80.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 64.0° / 83.0°  
 Efficiency 90 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14123\_CLAMP-CXA15-18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 68.0° / 89.0°  
 Efficiency 86 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14123\_CLAMP-CXA15-18  
 F13671\_ANGE-RZ-LENS

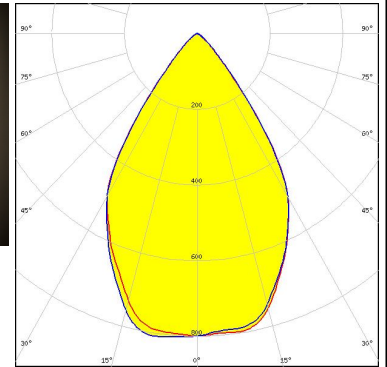
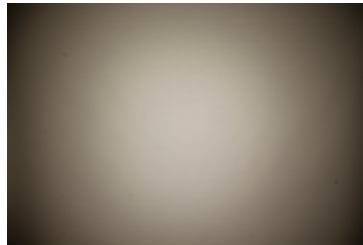




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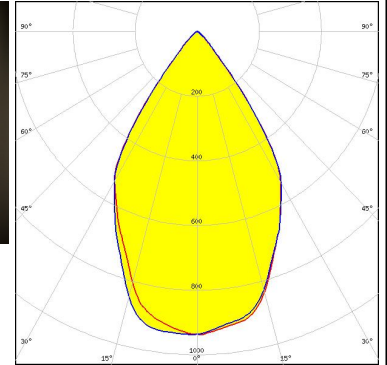
##### CREE LED

LED CXA/B 25xx  
 FWHM / FWTM 67.0° / 90.0°  
 Efficiency 85 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14036\_CLAMP\_CXA25-30  
 F13671\_ANGE-RZ-LENS



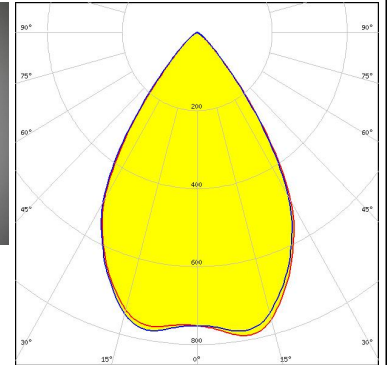
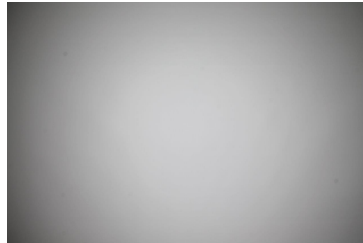
##### CREE LED

LED CXA/B 25xx  
 FWHM / FWTM 65.0° / 84.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



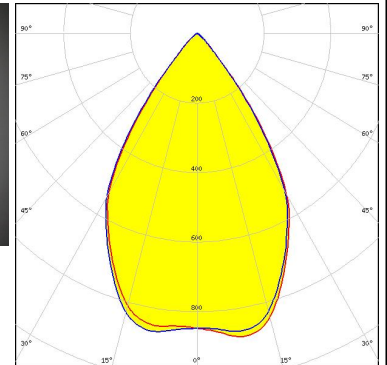
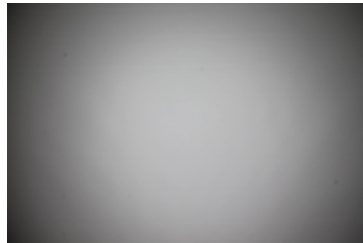
##### CREE LED

LED CXA/B 30xx  
 FWHM / FWTM 67.0° / 91.0°  
 Efficiency 86 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14036\_CLAMP\_CXA25-30  
 F13671\_ANGE-RZ-LENS



##### CREE LED

LED CXA/B 30xx  
 FWHM / FWTM 66.0° / 86.0°  
 Efficiency 90 %  
 Peak intensity 0.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



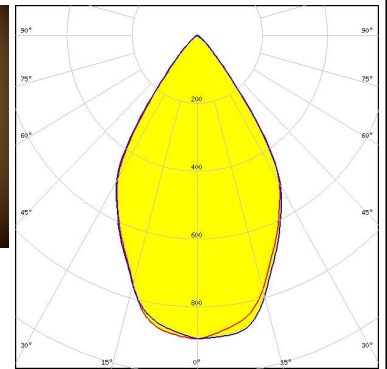
#### PHOTOMETRIC DATA (MEASURED):

#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM / FWTM 64.0° / 86.0°  
 Efficiency 85 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

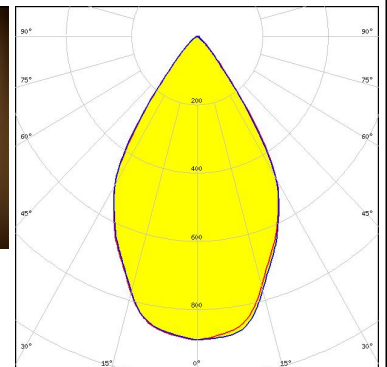
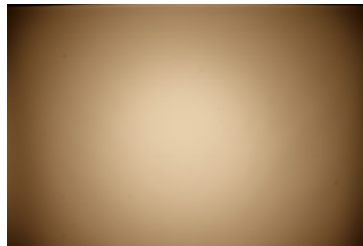


#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM / FWTM 63.0° / 85.0°  
 Efficiency 84 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN

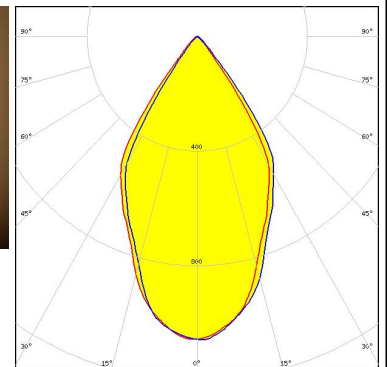


#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM / FWTM 61.0° / 81.0°  
 Efficiency 89 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

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

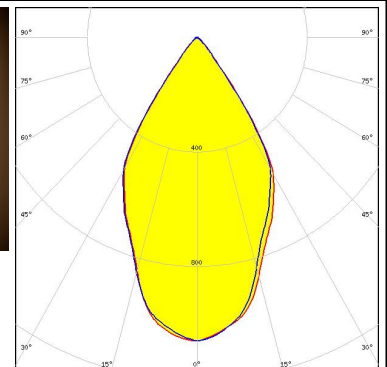
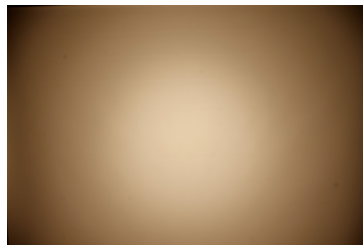


#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM / FWTM 61.0° / 80.0°  
 Efficiency 89 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

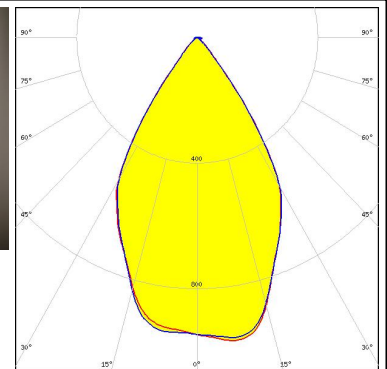
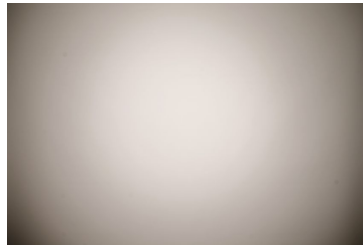
IDEAL: 50-2100SH + 50-2100AN



#### PHOTOMETRIC DATA (MEASURED):

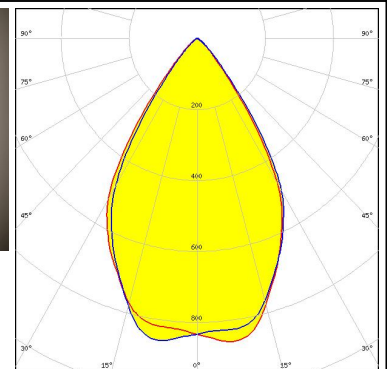
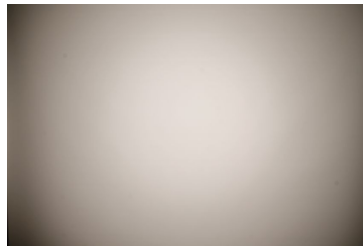
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM / FWTM 63.0° / 82.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



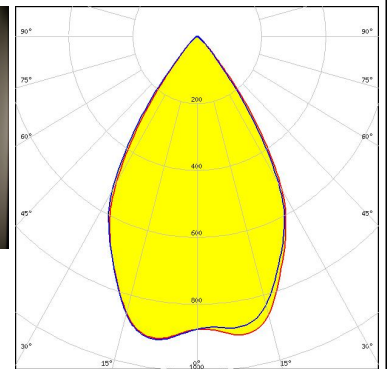
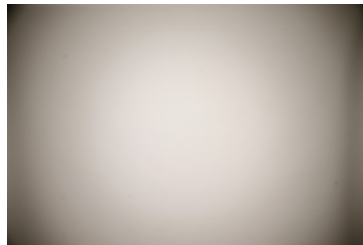
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM / FWTM 64.0° / 87.0°  
 Efficiency 85 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



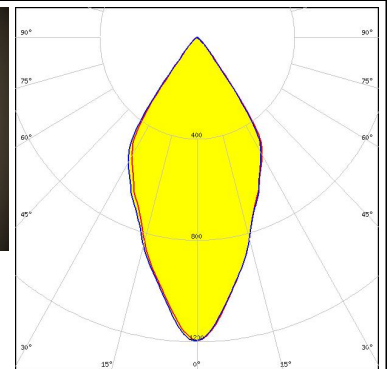
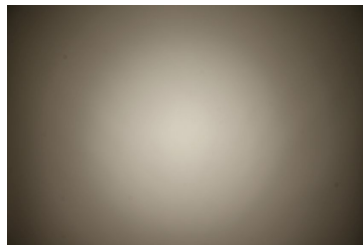
#### LUMILEDS

LED LUXEON CoB 1216/1812  
 FWHM / FWTM 63.0° / 84.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



#### NICHIA

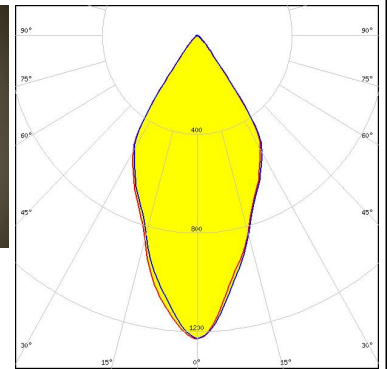
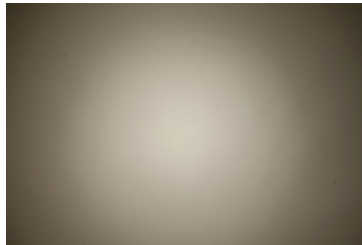
LED COB L-Type (LES 11)  
 FWHM / FWTM 53.0° / 79.0°  
 Efficiency 89 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



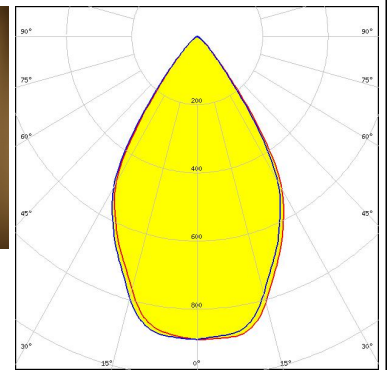
#### PHOTOMETRIC DATA (MEASURED):



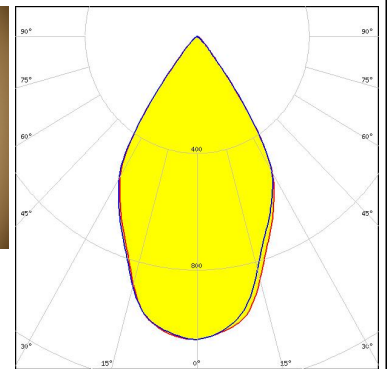
LED COB L-Type (LES 11)  
 FWHM / FWTM 51.0° / 77.0°  
 Efficiency 88 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2100NC + 50-2100AN



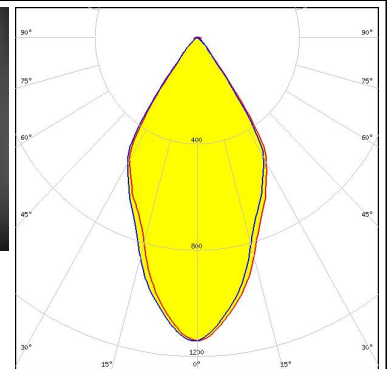
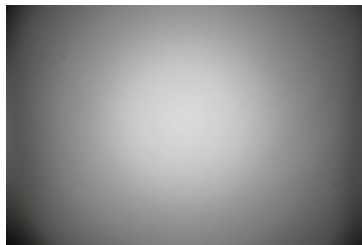
LED PrevaLED Core Z4 LES19  
 FWHM / FWTM 64.0° / 86.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213130-2



LED PrevaLED Core Z4 LES19  
 FWHM / FWTM 62.0° / 81.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



LED Soleriq S13 19x19  
 FWHM / FWTM 56.0° / 79.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



#### PHOTOMETRIC DATA (MEASURED):

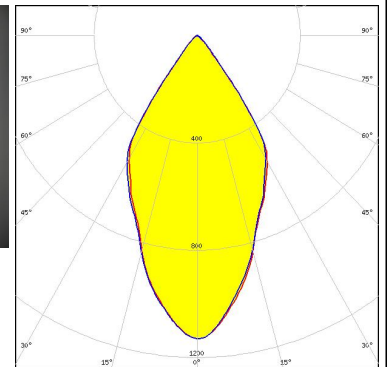
#### OSRAM

Opto Semiconductors

LED Soleriq S13 19x19  
 FWHM / FWTM 56.0° / 80.0°  
 Efficiency 89 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

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



#### OSRAM

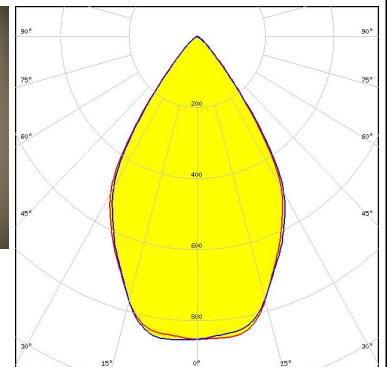
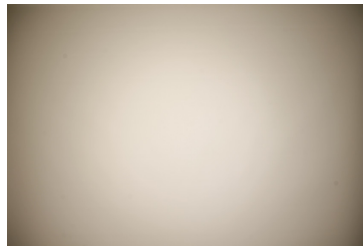
Opto Semiconductors

LED Soleriq S19  
 FWHM / FWTM 65.0° / 87.0°  
 Efficiency 85 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



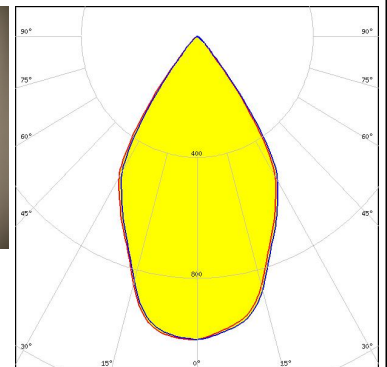
#### OSRAM

Opto Semiconductors

LED Soleriq S19  
 FWHM / FWTM 63.0° / 82.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1

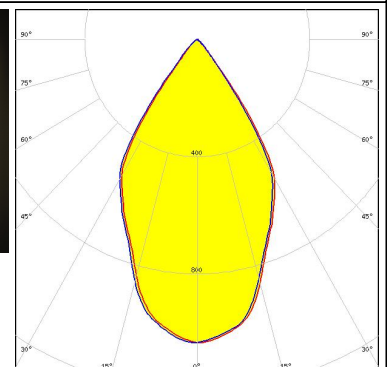
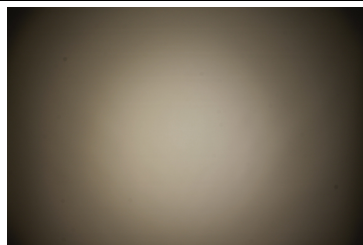


#### PHILIPS

LED Fortimo SLM L15 + SLM holder  
 FWHM / FWTM 62.0° / 81.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

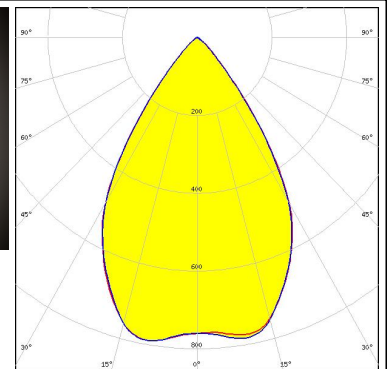
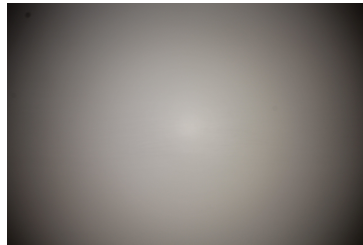
TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

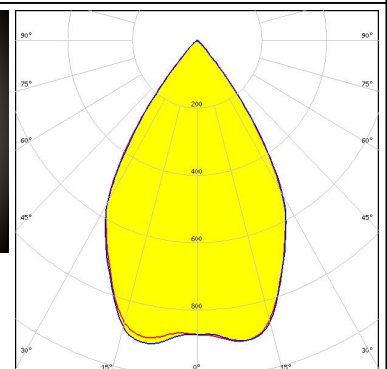
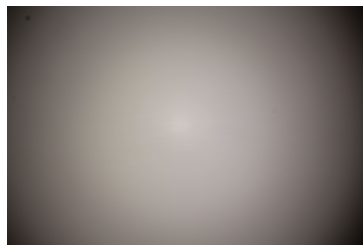
### SAMSUNG

LED LC035T (Tunable white)  
 FWHM / FWTM 66.0° / 89.0°  
 Efficiency 84 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour Tunable White  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 502 Typ L3



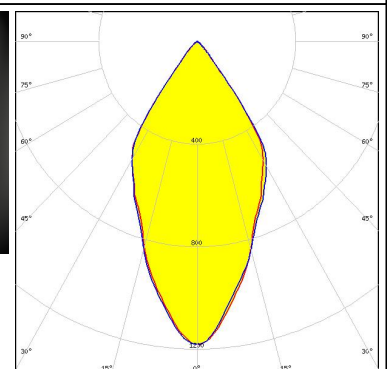
### SAMSUNG

LED LC035T (Tunable white)  
 FWHM / FWTM 65.0° / 84.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour Tunable White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 502 Typ L3

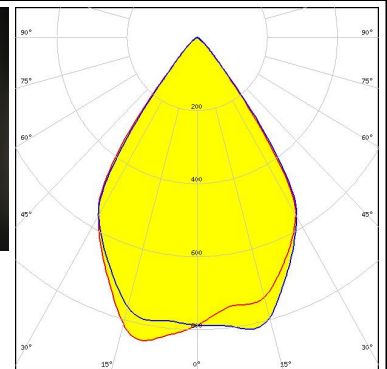
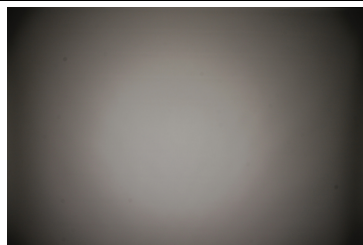


### SAMSUNG

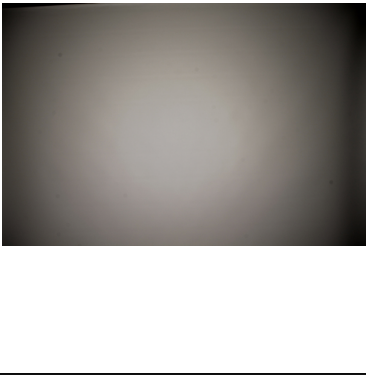
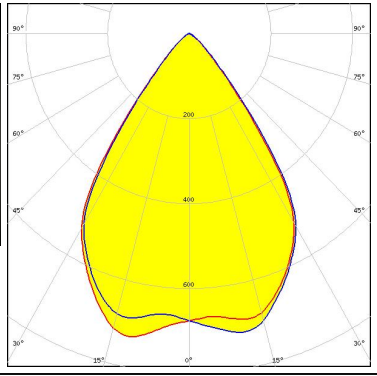
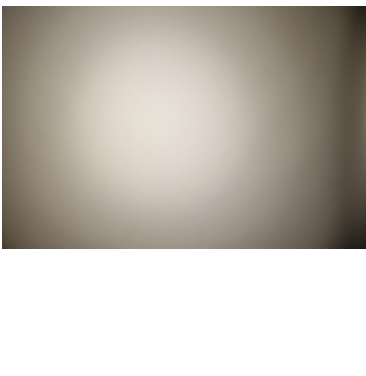
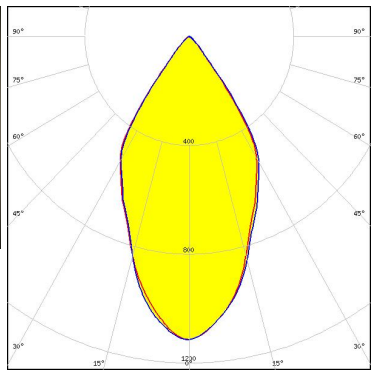

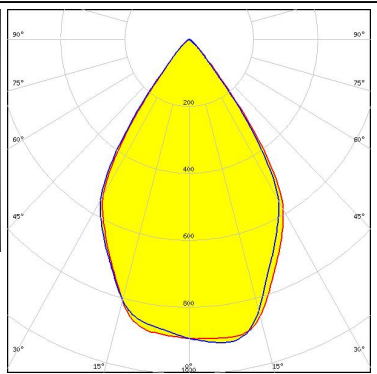
LED LC040C  
 FWHM / FWTM 53.0° / 79.0°  
 Efficiency 89 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOL SEMICONDUCTOR  
 LED AC Zhaga COB  
 FWHM / FWTM 70.0° / 87.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Optosource: SEHSMJD-A



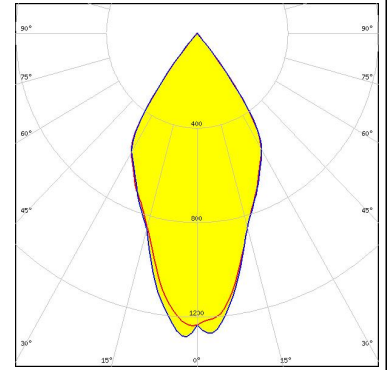
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEUL</b> SEOUL SEMICONDUCTOR</p> <p>LED AC Zhaga COB</p> <p>FWHM / FWTM 71.0° / 92.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F13671_ANGE-RZ-LENS Optosource: SEHSMJD-A</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-484</p> <p>FWHM / FWTM 56.0° / 81.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>XICATO</b></p> <p>LED XIM - 19mm LES</p> <p>FWHM / FWTM 66.0° / 84.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16491_XTM-ADAPTER-50-A</p>		

#### PHOTOMETRIC DATA (SIMULATED):

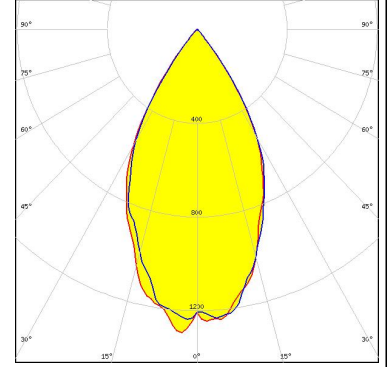
bridgelux.

LED V13 Gen7  
FWHM / FWTM 51.0° / 79.0°  
Efficiency 90 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 477 Typ L1



bridgelux.

LED V22 Gen7  
FWHM / FWTM 55.0° / 78.0°  
Efficiency 94 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2204-CT + 50-2100AN





#### 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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