

## MIRELLA-G2-M

~25° wide beam. Compatible with LEDiL HEKLA.

### SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	22.6 mm
Fastening	socket
ROHS compliant	yes ⓘ

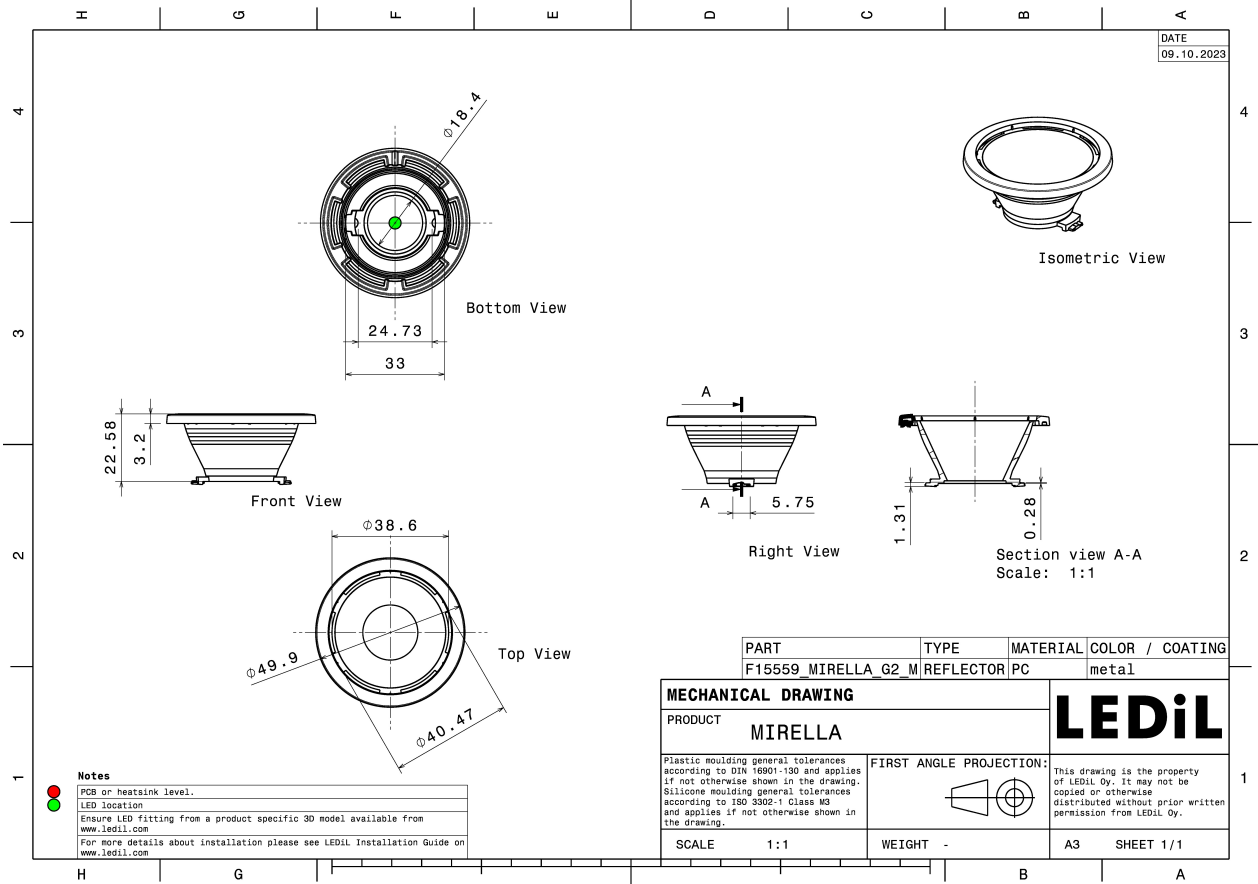
### MATERIALS:

Component	Type	Material	Colour	Finish	Coating
MIRELLA-G2-M	Reflector	PC	metal		



### ORDERING INFORMATION:


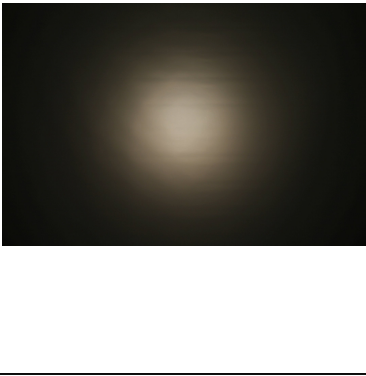
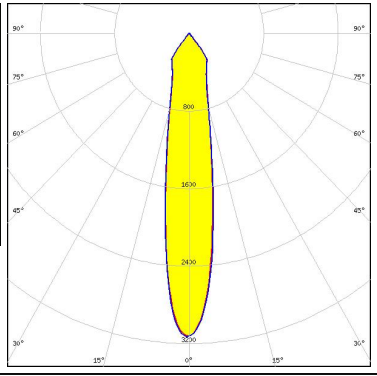


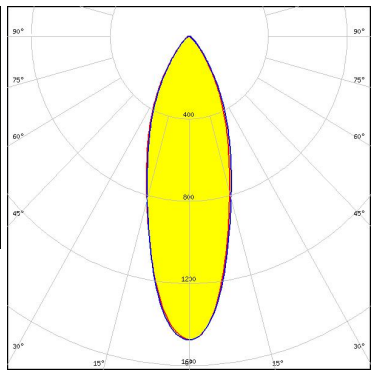

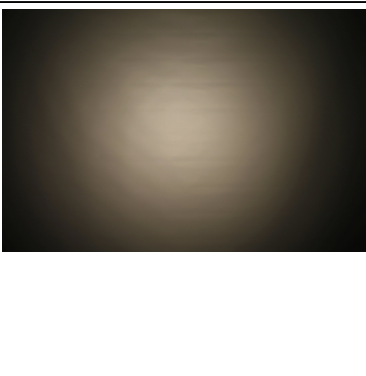
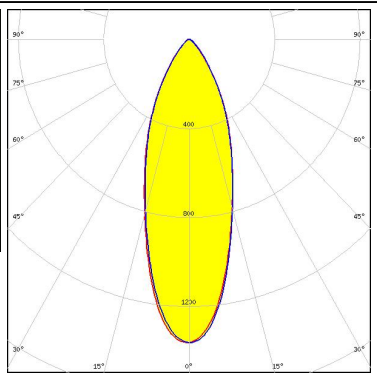

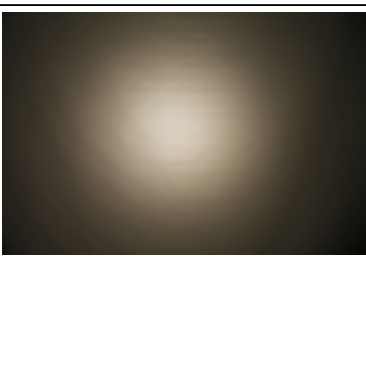
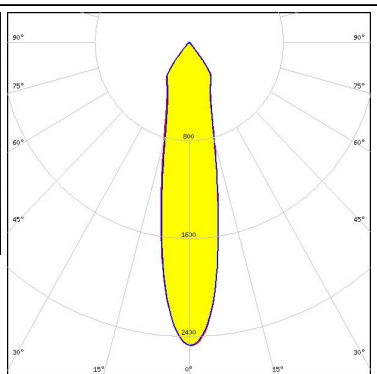
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F15559_MIRELLA-G2-M » Box size: 480 x 280 x 300 mm	336		28	3.2




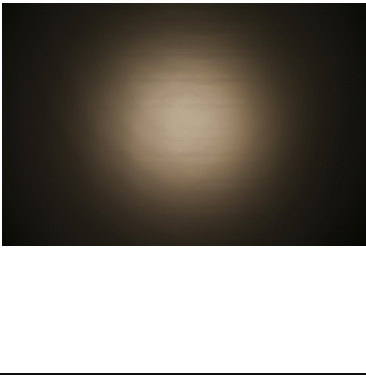
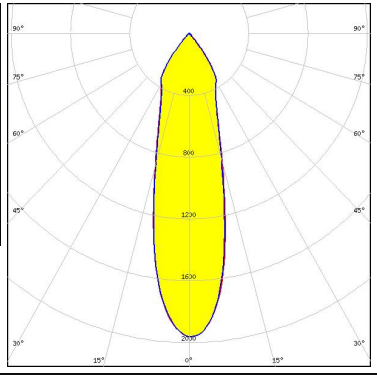


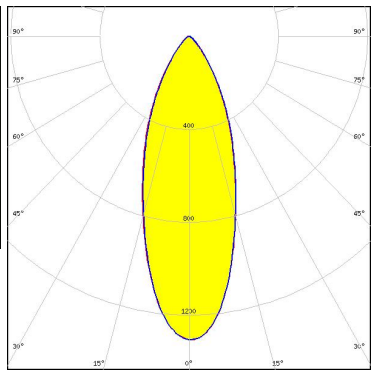


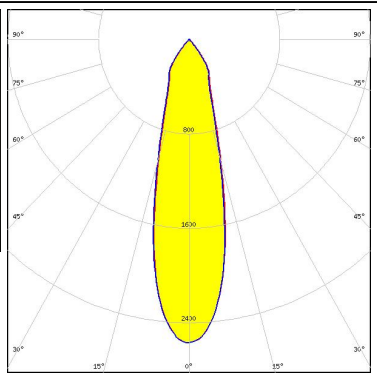


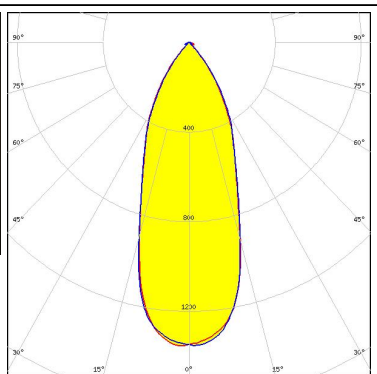
See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)





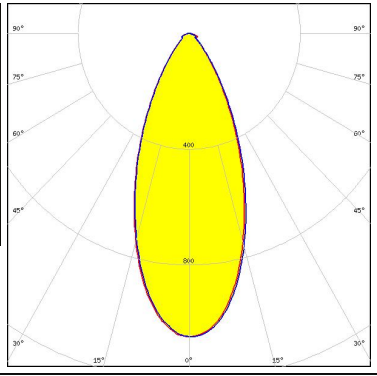


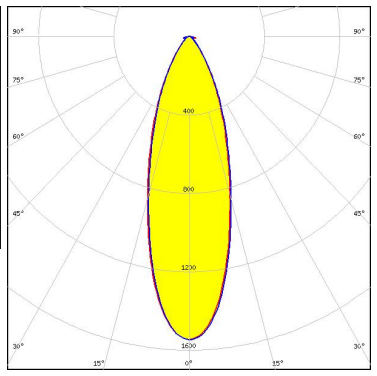


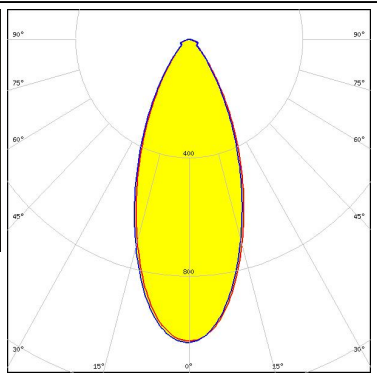


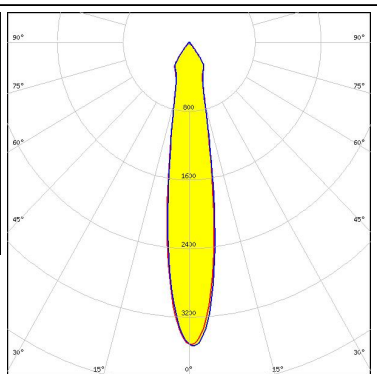
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V4 HD Gen 7            FWHM / FWTM 19.0° / 73.0°            Efficiency 86 %            Peak intensity 3.1 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V4 HD Gen 7            FWHM / FWTM 33.0° / 75.0°            Efficiency 78 %            Peak intensity 1.5 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A            C13723_MIRELLA-RZL</p>		
<p></p> <p>LED V6 HD Gen 7            FWHM / FWTM 35.0° / 77.0°            Efficiency 76 %            Peak intensity 1.4 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C            C13723_MIRELLA-RZL</p>		
<p></p> <p>LED V6 HD Gen 7            FWHM / FWTM 22.0° / 74.0°            Efficiency 84 %            Peak intensity 2.5 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		


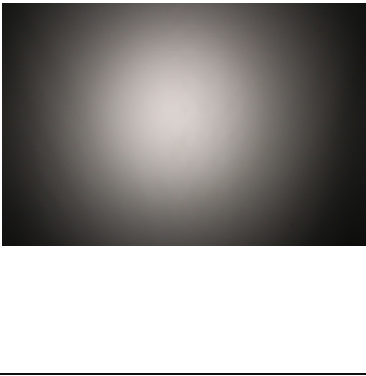
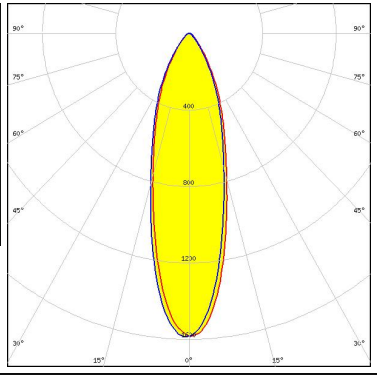

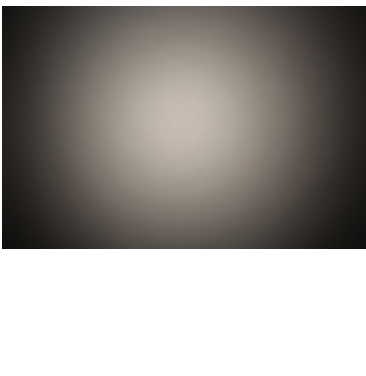
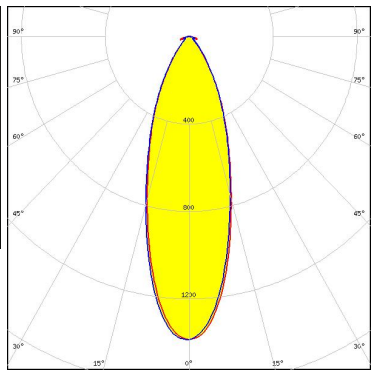


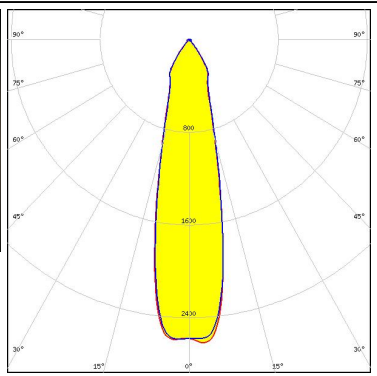

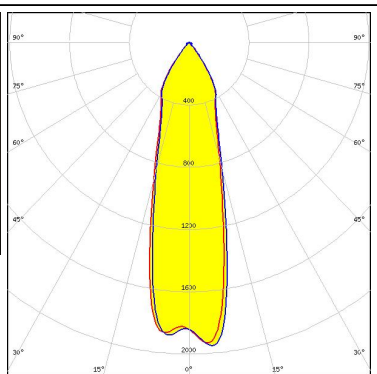
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V9 HD Gen7            FWHM / FWTM 27.0° / 76.0°            Efficiency 82 %            Peak intensity 2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED V9 HD Gen7            FWHM / FWTM 37.0° / 77.0°            Efficiency 75 %            Peak intensity 1.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I            C13723_MIRELLA-RZL</p>		
<p></p> <p>LED VERO10            FWHM / FWTM 27.0° / 71.0°            Efficiency 90 %            Peak intensity 2.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15616_HEKLA-SOCKET-F</p>		
<p></p> <p>LED Vesta DTW 13mm (21W)            FWHM / FWTM 39.0° / 78.0°            Efficiency 81 %            Peak intensity 1.4 cd/lm            LEDs/each optic 1            Light colour Tunable White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 491 Typ L8</p>		

#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta DTW 13mm (21W)            FWHM / FWTM 43.0° / 81.0°            Efficiency 73 %            Peak intensity 1 cd/lm            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            C13723_MIRELLA-RZL            Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta DTW 9mm (4W/6W/12W)            FWHM / FWTM 33.0° / 70.0°            Efficiency 77 %            Peak intensity 1.5 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            C13723_MIRELLA-RZL            Bender Wirth: 490 Typ L8</p>		
<p></p> <p>LED Vesta TW 13mm (25W) CSP            FWHM / FWTM 43.0° / 81.0°            Efficiency 77 %            Peak intensity 1 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            C13723_MIRELLA-RZL            Bender Wirth: 492 Typ L8</p>		
<p></p> <p>LED Vesta TW 6mm DP            FWHM / FWTM 18.0° / 58.0°            Efficiency 81 %            Peak intensity 3.5 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 504 Typ L8</p>		

#### OPTICAL RESULTS (MEASURED):

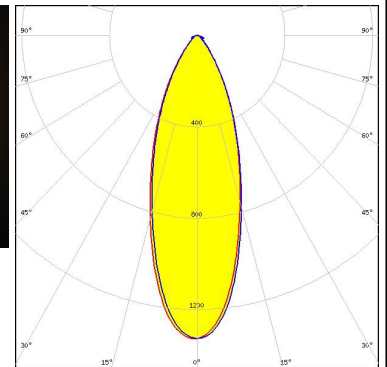
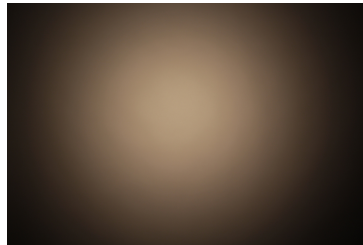
<p></p> <p>LED Vesta TW 6mm DP</p> <p>FWHM / FWTM 29.0° / 71.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>C16142_HEKLA-SOCKET-K</li> <li>C13723_MIRELLA-RZL</li> <li>Bender Wirth: 504 Typ L8</li> </ul>		
<p></p> <p>LED Vesta TW 9mm (12W) CSP</p> <p>FWHM / FWTM 33.0° / 73.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>C16142_HEKLA-SOCKET-K</li> <li>C13723_MIRELLA-RZL</li> <li>Bender Wirth: 489 Typ L8</li> </ul>		
<p></p> <p>LED Vesta TW 9mm (12W) CSP</p> <p>FWHM / FWTM 25.0° / 68.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 2.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>C16142_HEKLA-SOCKET-K</li> <li>Bender Wirth: 490 Typ L8</li> </ul>		
<p><b>CITIZEN</b></p> <p>LED CLC020 Series (Dim-To-Warm)</p> <p>FWHM / FWTM 28.0° / 72.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>C16142_HEKLA-SOCKET-K</li> </ul>		



#### OPTICAL RESULTS (MEASURED):

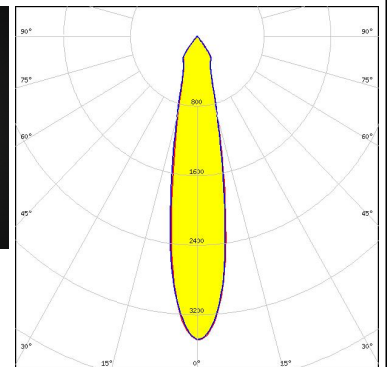
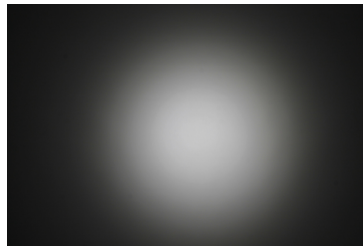
#### CITIZEN

LED CLC020 Series (Dim-To-Warm)  
 FWHM / FWTM 36.0° / 74.0°  
 Efficiency 74 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C13723\_MIRELLA-RZL  
 Bender Wirth: 487 Typ L8



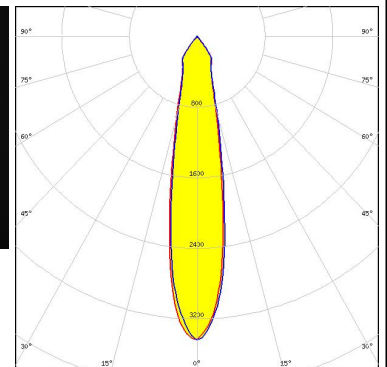
#### CITIZEN

LED CLU025/CLU027 (LES 6)  
 FWHM / FWTM 21.0° / 55.0°  
 Efficiency 86 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



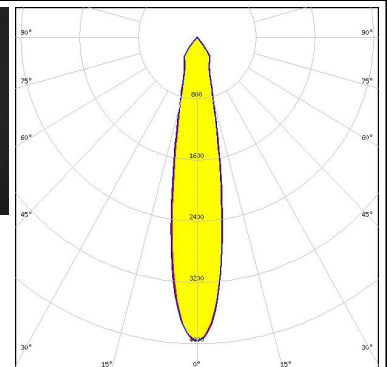
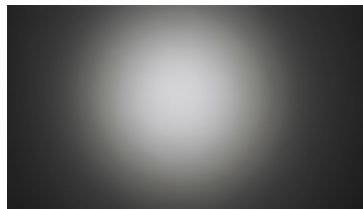
#### CITIZEN

LED CLU025/CLU027 (LES 6)  
 FWHM / FWTM 20.0° / 59.0°  
 Efficiency 87 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### CITIZEN

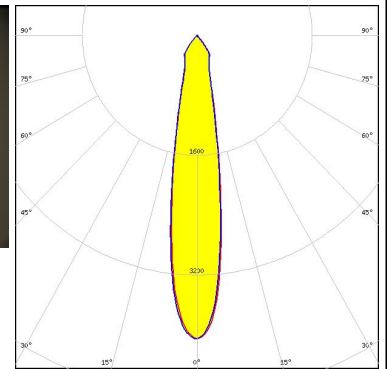
LED CLU700/701/702/703  
 FWHM / FWTM 19.0° / 50.0°  
 Efficiency 90 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### OPTICAL RESULTS (MEASURED):

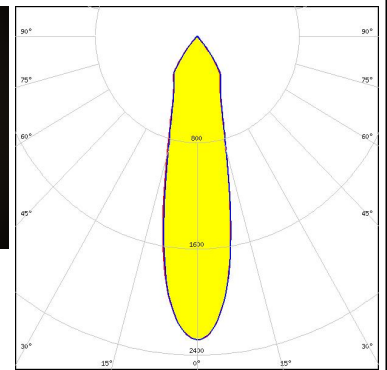
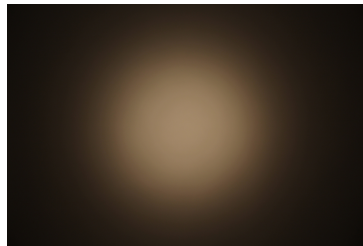
#### CITIZEN

LED CLU700/701/702/703  
 FWHM / FWTM 19.0° / 49.0°  
 Efficiency 90 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



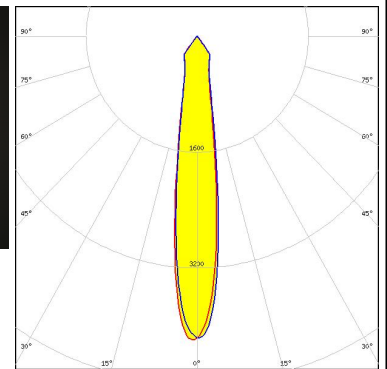
#### CITIZEN

LED CLU710/711  
 FWHM / FWTM 26.0° / 73.0°  
 Efficiency 85 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



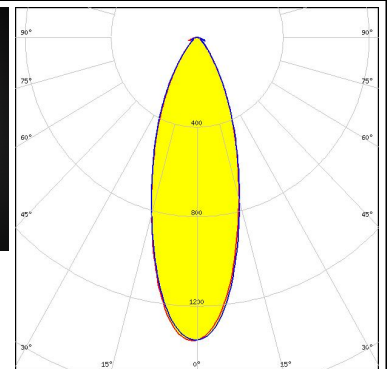
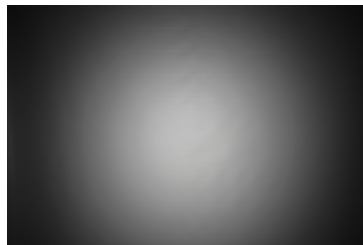
#### CITIZEN

LED CLU7A2/7A3  
 FWHM / FWTM 16.0° / 49.0°  
 Efficiency 87 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### CITIZEN

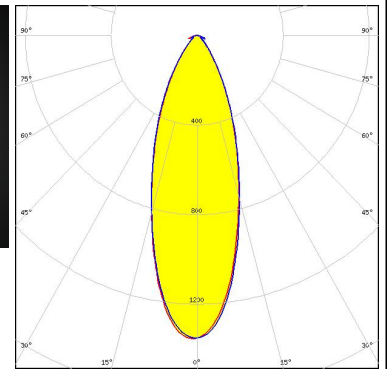
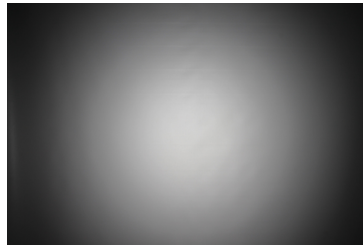
LED LCN-C01B (Tunable White)  
 FWHM / FWTM 35.0° / 74.0°  
 Efficiency 75 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C13723\_MIRELLA-RZL  
 Bender Wirth: 481 Typ L8



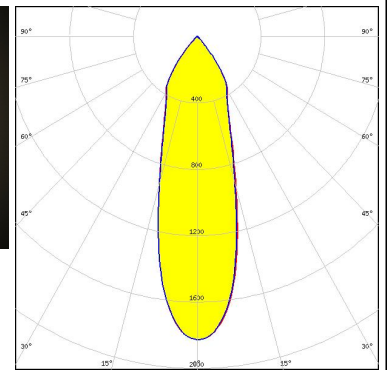
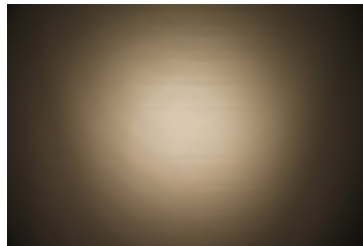
#### OPTICAL RESULTS (MEASURED):

#### CITIZEN

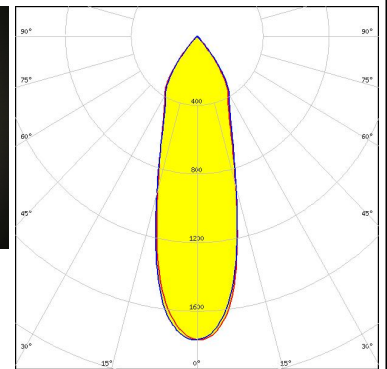
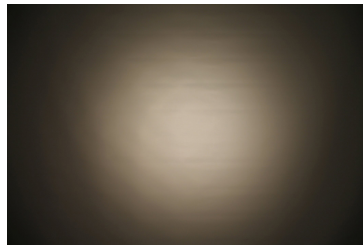
LED LCN-C01B (Tunable White)  
 FWHM / FWTM 35.0° / 70.0°  
 Efficiency 75 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C13723\_MIRELLA-RZL  
 Bender Wirth: 481 Typ L8



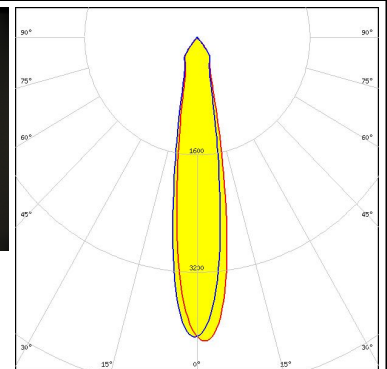
LED CMA1516  
 FWHM / FWTM 30.0° / 77.0°  
 Efficiency 85 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



LED CMT14xx  
 FWHM / FWTM 31.0° / 77.0°  
 Efficiency 85 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



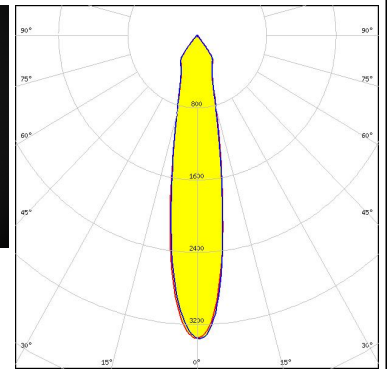
LED CXA/B 13xx  
 FWHM / FWTM 19.0° / 50.0°  
 Efficiency 91 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15956\_HEKLA-SOCKET-J  
 C13333\_MIRELLA-CL



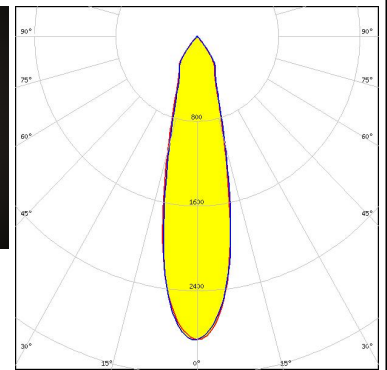
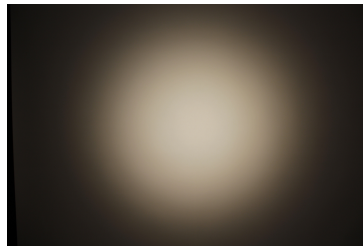
#### OPTICAL RESULTS (MEASURED):



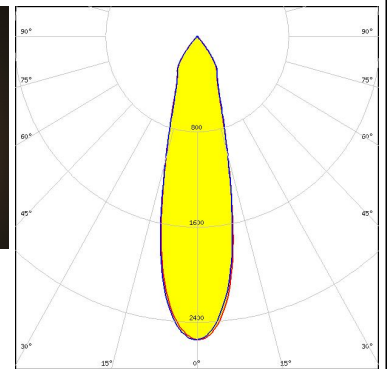
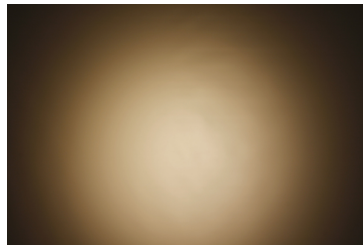
LED CXA/B 13xx  
 FWHM / FWTM 20.0° / 66.0°  
 Efficiency 90 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15956\_HEKLA-SOCKET-J



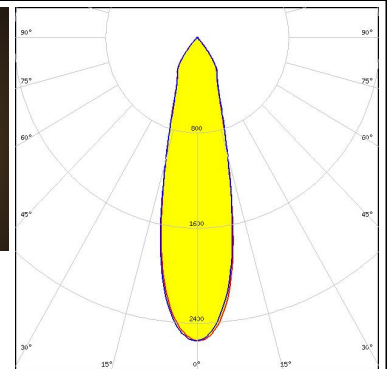
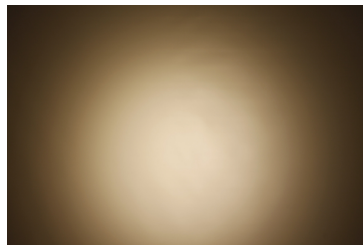
LED CXA/B 15xx  
 FWHM / FWTM 25.0° / 67.0°  
 Efficiency 91 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



LED LUXEON CoB 1202/1203  
 FWHM / FWTM 27.0° / 71.0°  
 Efficiency 89 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H


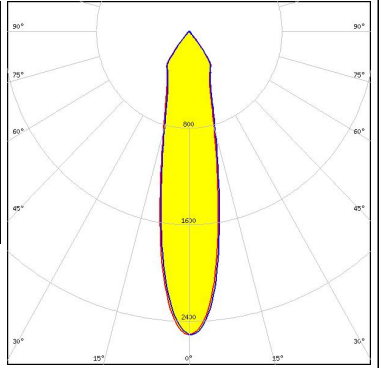

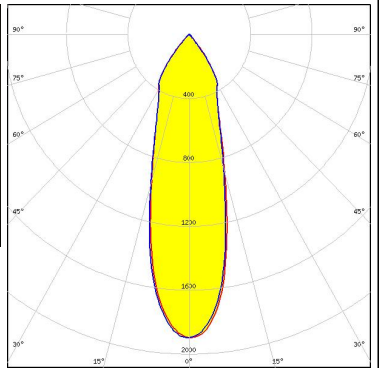
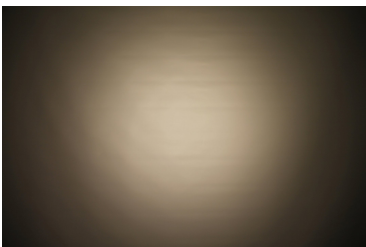
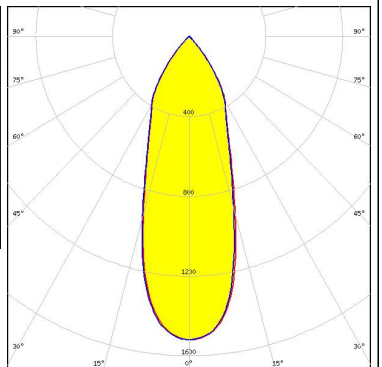
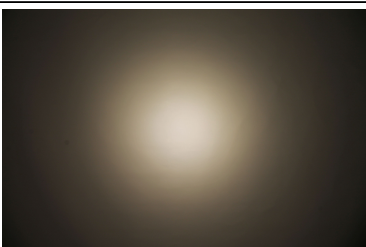
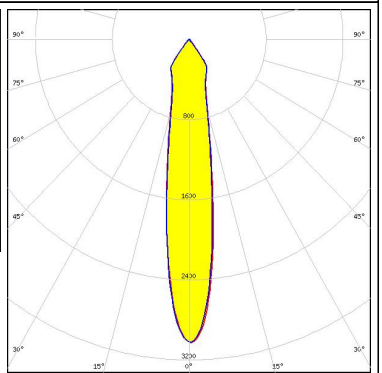


LED LUXEON CoB 1202/1203  
 FWHM / FWTM 27.0° / 71.0°  
 Efficiency 89 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H  
 C12479\_MIRELLA-DL


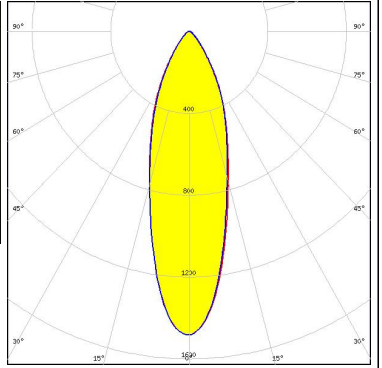

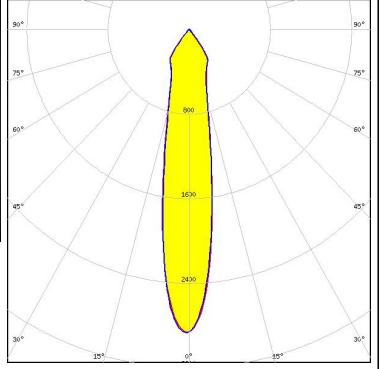
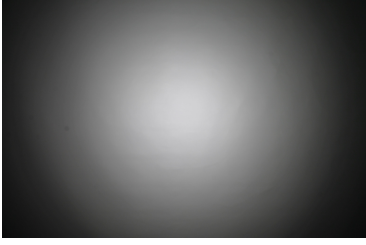
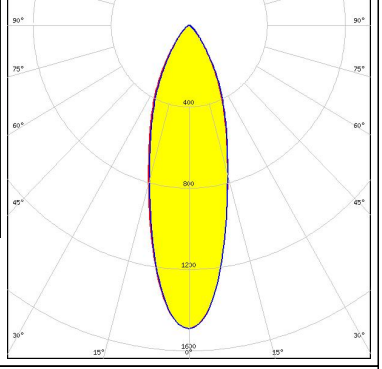

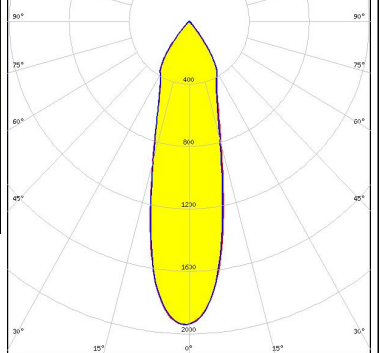





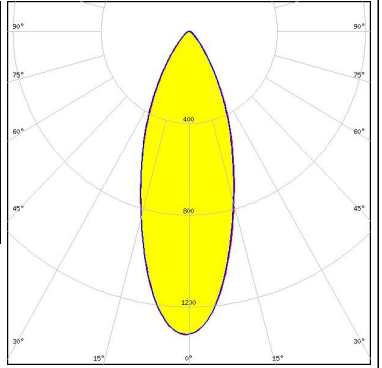
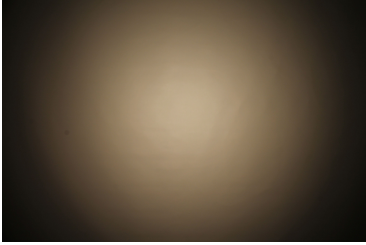
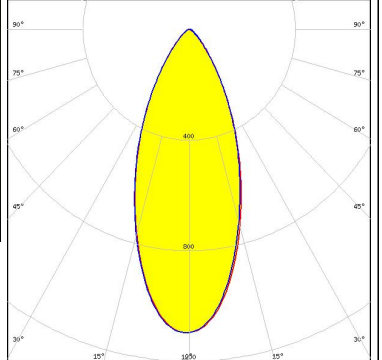
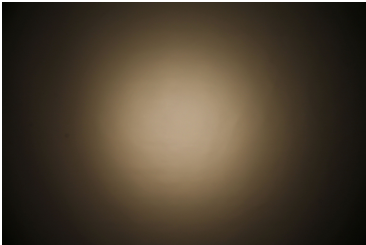
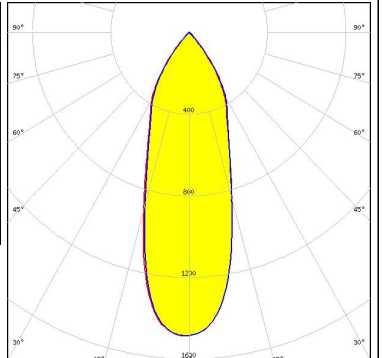
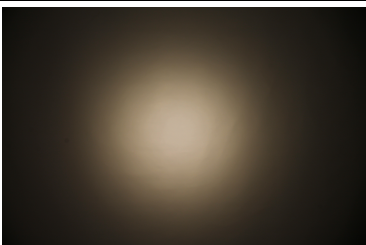
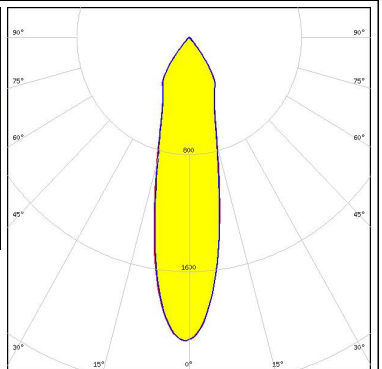
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202HD</p> <p>FWHM / FWTM 23.0° / 74.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204HD</p> <p>FWHM / FWTM 29.0° / 77.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1205HD</p> <p>FWHM / FWTM 35.0° / 79.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 19.0° / 70.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		


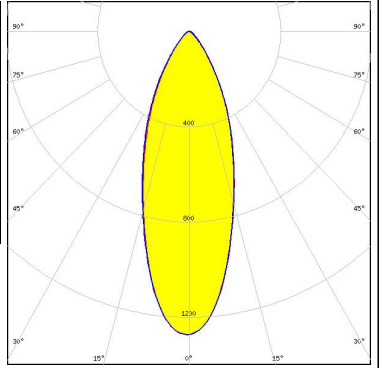

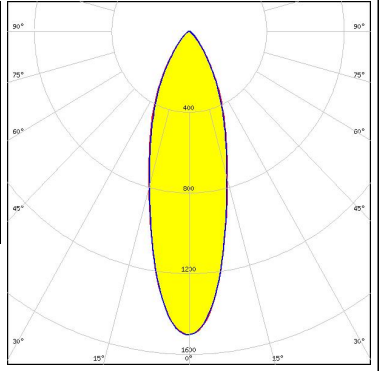

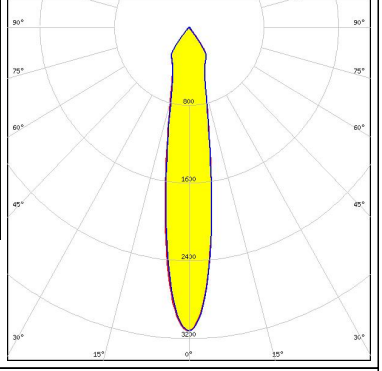

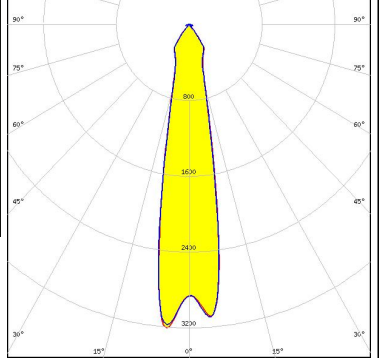
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 31.0° / 74.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13723_MIRELLA-RZL Bender Wirth: 634c Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S02H6</p> <p>FWHM / FWTM 19.0° / 71.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S02H6</p> <p>FWHM / FWTM 32.0° / 74.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13723_MIRELLA-RZL Bender Wirth: 634c Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 28.0° / 75.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		

#### OPTICAL RESULTS (MEASURED):


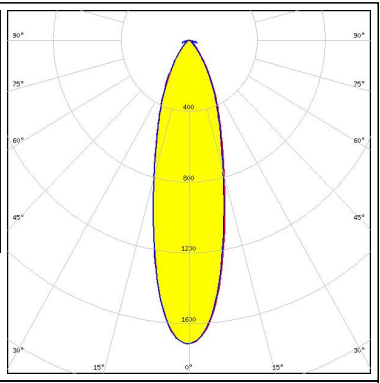

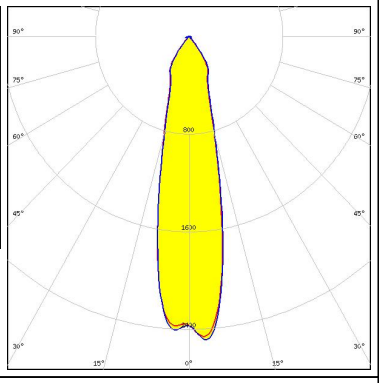
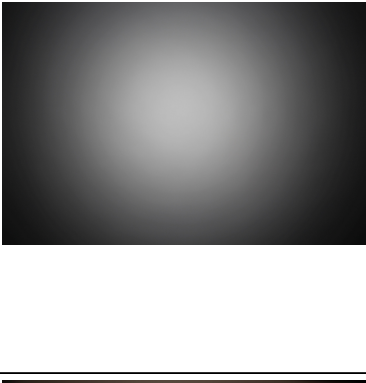
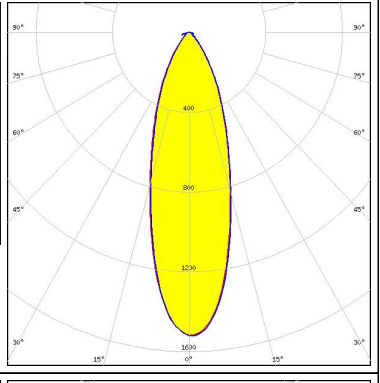

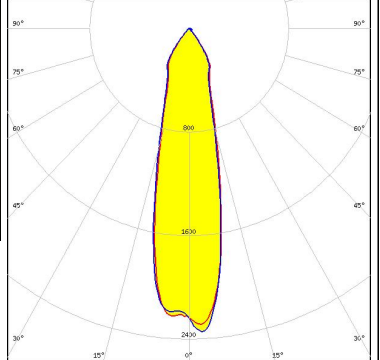
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 37.0° / 76.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13723_MIRELLA-RZL Bender Wirth: 634c Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 42.0° / 81.0°</p> <p>Efficiency 72 %</p> <p>Peak intensity 1.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13723_MIRELLA-RZL Bender Wirth: 637a Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 35.0° / 78.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 25.0° / 74.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 2.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 641a Hekla</p>		

#### OPTICAL RESULTS (MEASURED):


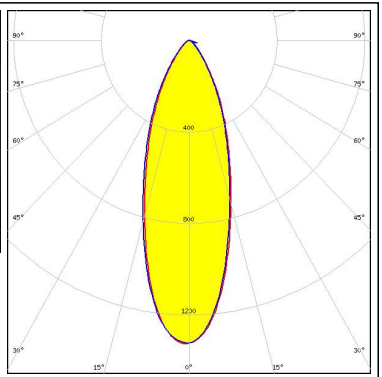

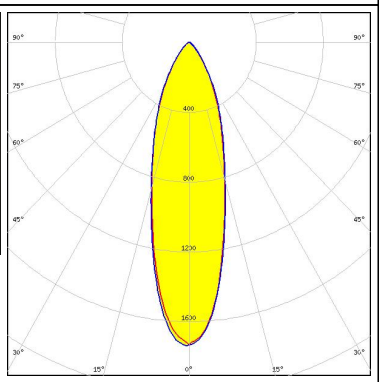

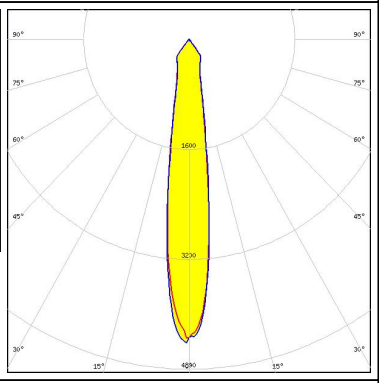

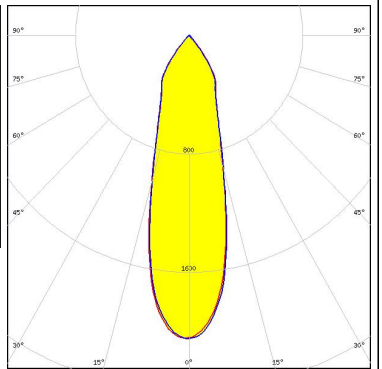
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 37.0° / 77.0°</p> <p>Efficiency 73 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13723_MIRELLA-RZL Bender Wirth: 641a Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 31.0° / 73.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13723_MIRELLA-RZL Bender Wirth: 634c Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 18.0° / 69.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 3.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-6 (Dim-To-Warm)</p> <p>FWHM / FWTM 20.0° / 60.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 490 Typ L8</p>		




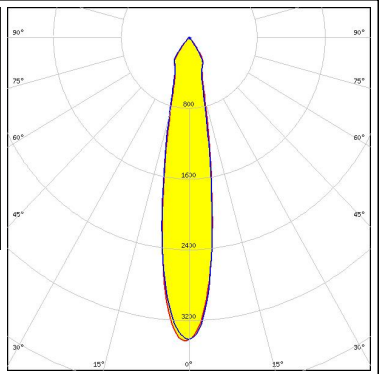

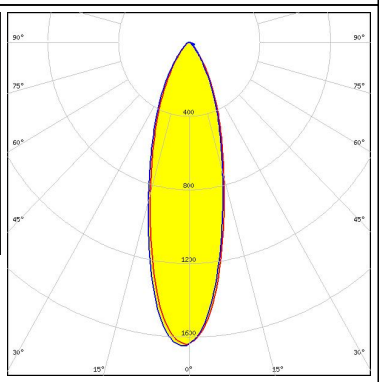

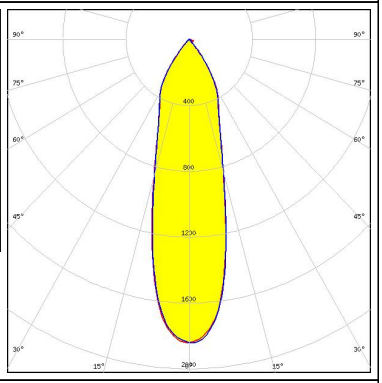

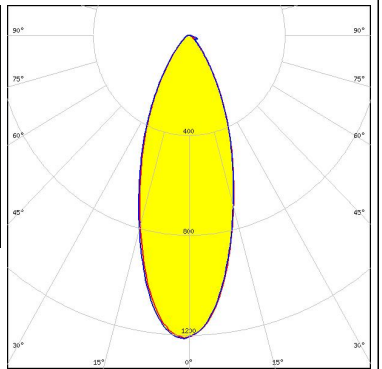
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CDM-6 (Dim-To-Warm)</p> <p>FWHM / FWTM 28.0° / 68.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C16142_HEKLA-SOCKET-K</p> <p>C13723_MIRELLA-RZL</p> <p>Bender Wirth: 490 Typ L8</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM / FWTM 24.0° / 69.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C16142_HEKLA-SOCKET-K</p> <p>Bender Wirth: 490 Typ L8</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM / FWTM 32.0° / 71.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C16142_HEKLA-SOCKET-K</p> <p>C13723_MIRELLA-RZL</p> <p>Bender Wirth: 490 Typ L8</p>		
<p><b>LUMINUS</b></p> <p>LED CTM-9 (Tunable White)</p> <p>FWHM / FWTM 25.0° / 70.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C16142_HEKLA-SOCKET-K</p> <p>Bender Wirth: 495 Typ L8</p>		


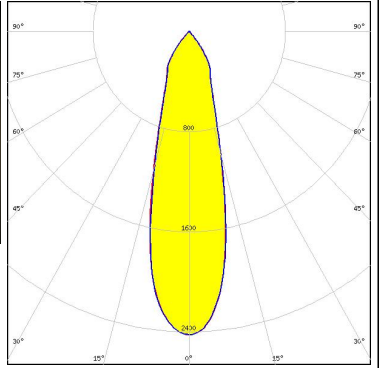
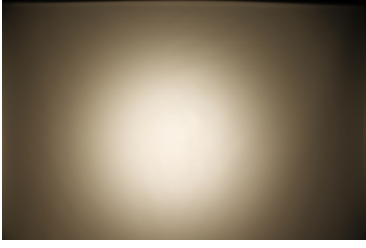
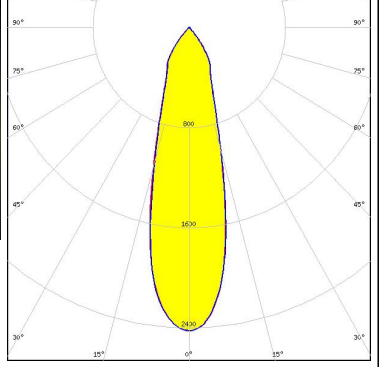
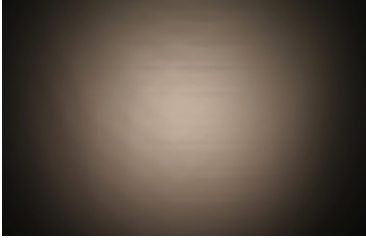
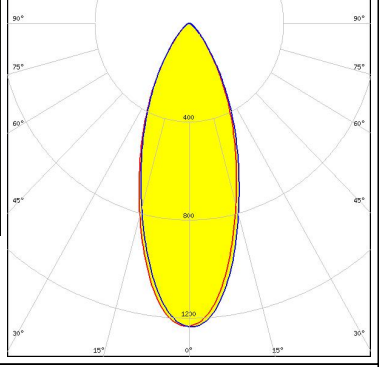

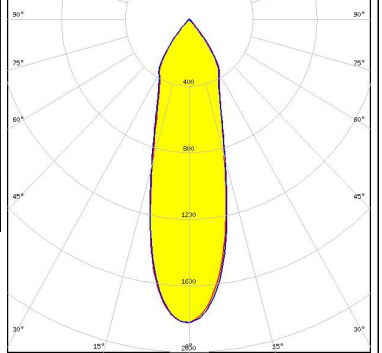
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CTM-9 (Tunable White)</p> <p>FWHM / FWTM 34.0° / 75.0°</p> <p>Efficiency 72 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>C16142_HEKLA-SOCKET-K</li> <li>C13723_MIRELLA-RZL</li> <li>Bender Wirth: 495 Typ L8</li> </ul>		
<p><b>LUMINUS</b></p> <p>LED CXM-4</p> <p>FWHM / FWTM 29.0° / 71.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>F15255_HEKLA-SOCKET-C</li> <li>C13723_MIRELLA-RZL</li> </ul>		
<p><b>LUMINUS</b></p> <p>LED CXM-4</p> <p>FWHM / FWTM 16.0° / 46.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 4.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>F15255_HEKLA-SOCKET-C</li> </ul>		
<p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)</p> <p>FWHM / FWTM 29.0° / 75.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <ul style="list-style-type: none"> <li>F15255_HEKLA-SOCKET-C</li> </ul>		

#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NJCWL024Z-V1MT: COB L-Type Tunable White</p> <p>FWHM / FWTM 19.0° / 58.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 497 Typ L8</p>		
<p><b>NICHIA</b></p> <p>LED NJCWL024Z-V1MT: COB L-Type Tunable White</p> <p>FWHM / FWTM 30.0° / 69.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C13723_MIRELLA-RZL Bender Wirth: 497 Typ L8</p>		
<p><b>NICHIA</b></p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM / FWTM 28.0° / 73.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 498 Typ L8</p>		
<p><b>NICHIA</b></p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM / FWTM 37.0° / 77.0°</p> <p>Efficiency 73 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C13723_MIRELLA-RZL Bender Wirth: 498 Typ L8</p>		

#### OPTICAL RESULTS (MEASURED):

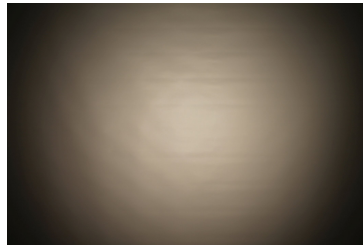
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S9</p> <p>FWHM / FWTM 28.0° / 71.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S9</p> <p>FWHM / FWTM 28.0° / 71.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C C13723_MIRELLA-RZL</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L09 CoB</p> <p>FWHM / FWTM 39.0° / 78.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H C13723_MIRELLA-RZL</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L09 CoB</p> <p>FWHM / FWTM 29.0° / 77.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		



#### OPTICAL RESULTS (MEASURED):

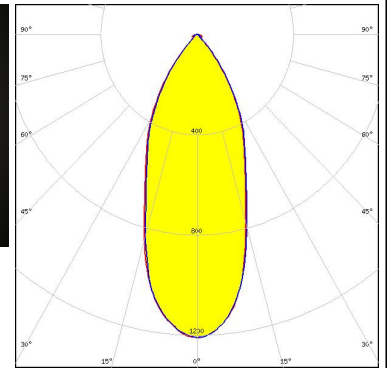
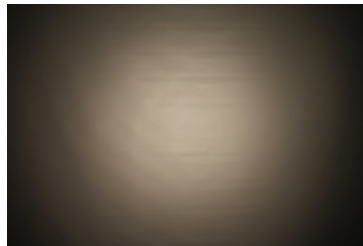
### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM / FWTM 45.0° / 82.0°  
 Efficiency 71 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C13723\_MIRELLA-RZL  
 Bender Wirth: 432 Typ L8



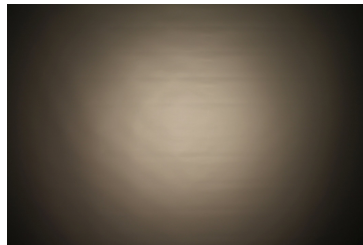
### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM / FWTM 40.0° / 80.0°  
 Efficiency 77 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



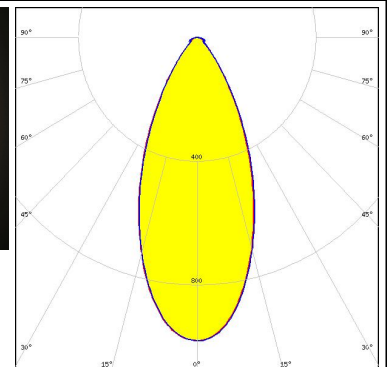
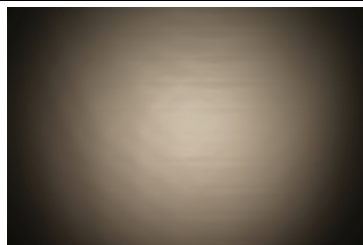
### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM / FWTM 40.0° / 80.0°  
 Efficiency 77 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



### PHILIPS

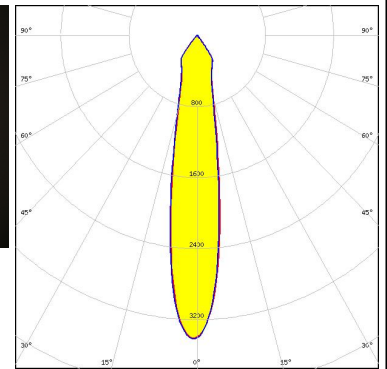
LED Fortimo SLM L13 CoB  
 FWHM / FWTM 45.0° / 82.0°  
 Efficiency 71 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C13723\_MIRELLA-RZL  
 Bender Wirth: 432 Typ L8



#### OPTICAL RESULTS (MEASURED):

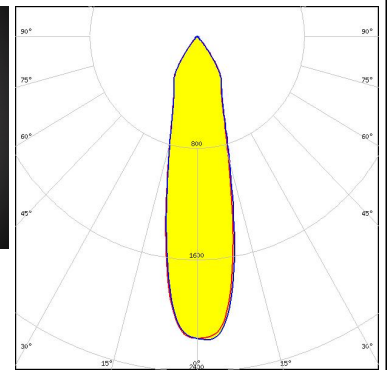
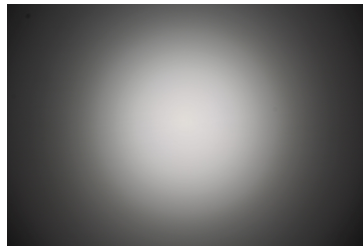
### SAMSUNG

LED LC010C G2  
 FWHM / FWTM 19.0° / 65.0°  
 Efficiency 86 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



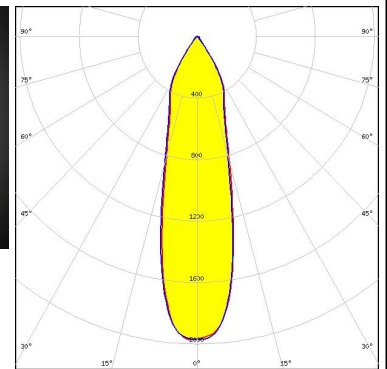
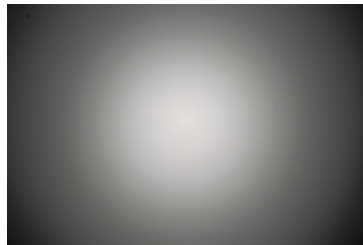
### SAMSUNG

LED LC010T (Tunable White)  
 FWHM / FWTM 26.0° / 72.0°  
 Efficiency 81 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8



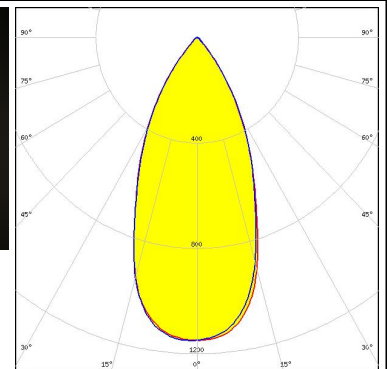
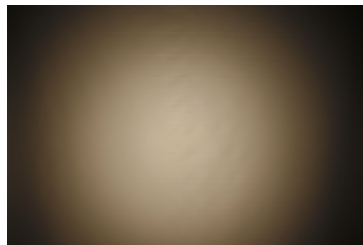
### SAMSUNG

LED LC010T (Tunable White)  
 FWHM / FWTM 27.0° / 69.0°  
 Efficiency 76 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C14658\_BARBARA-RZ-LENS  
 Bender Wirth: 501 Typ L8



### SAMSUNG

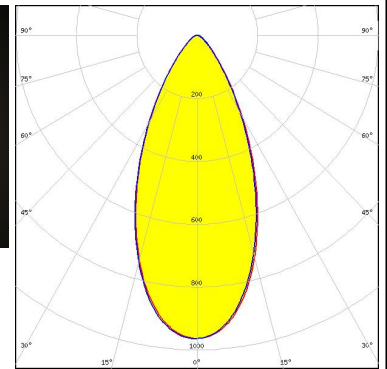
LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 47.0° / 79.0°  
 Efficiency 79 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C15570\_LENA-STD-BASE2-VERO13-18  
 C13333\_MIRELLA-CL



#### OPTICAL RESULTS (MEASURED):

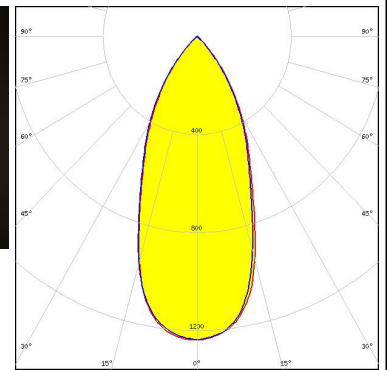
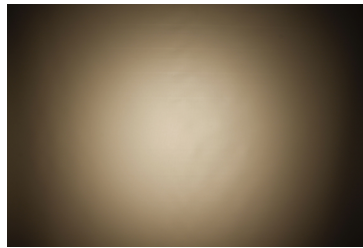
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 47.0° / 85.0°  
 Efficiency 74 %  
 Peak intensity 1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I  
 C13723\_MIRELLA-RZL



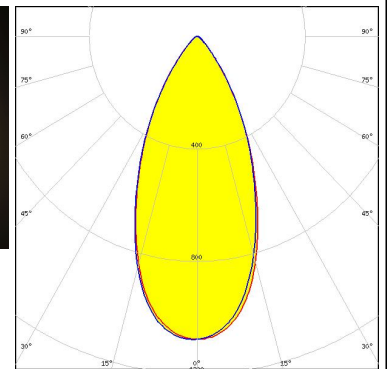
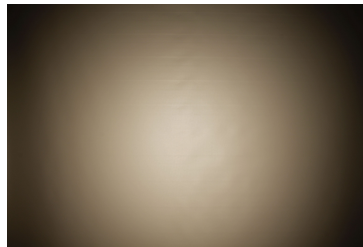
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 44.0° / 82.0°  
 Efficiency 83 %  
 Peak intensity 1.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



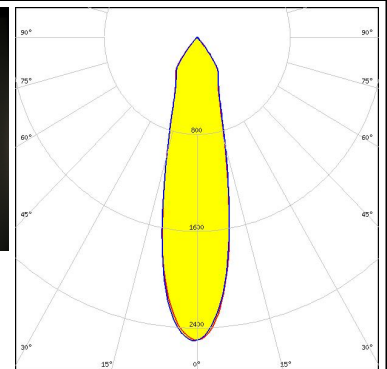
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 47.0° / 81.0°  
 Efficiency 77 %  
 Peak intensity 1.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I  
 C12479\_MIRELLA-DL



### SAMSUNG

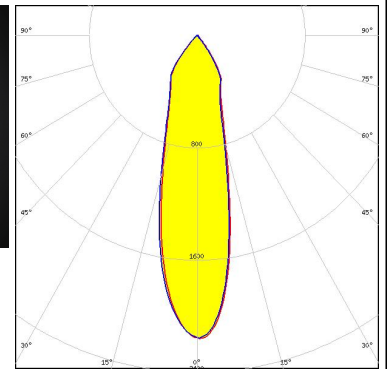
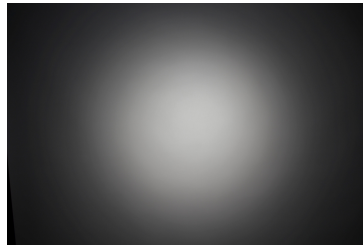
LED LC020C  
 FWHM / FWTM 25.0° / 73.0°  
 Efficiency 88 %  
 Peak intensity 2.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



#### OPTICAL RESULTS (MEASURED):

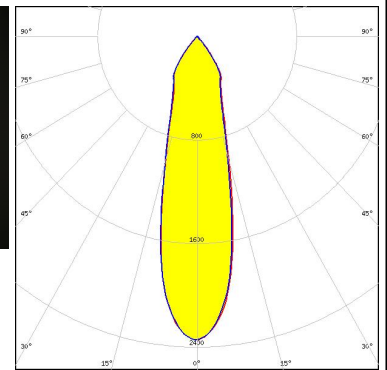
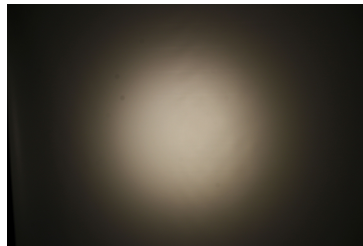
### SAMSUNG

LED LC020C G2  
 FWHM / FWTM 27.0° / 74.0°  
 Efficiency 85 %  
 Peak intensity 2.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



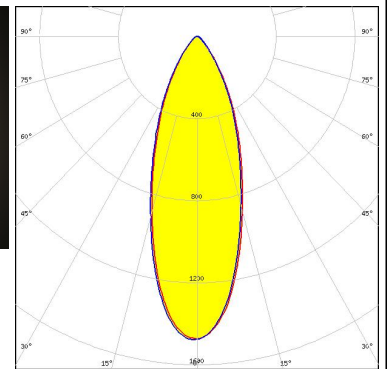
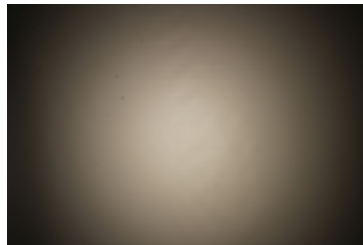
### TRIDONIC

LED SLE G7 LES09  
 FWHM / FWTM 27.0° / 73.0°  
 Efficiency 89 %  
 Peak intensity 2.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



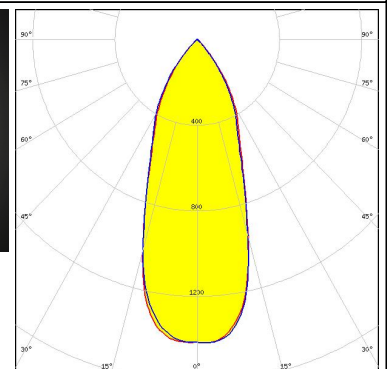
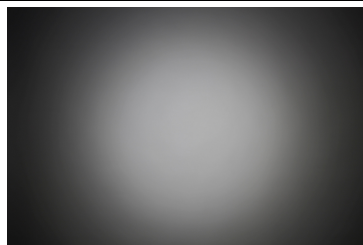
### TRIDONIC

LED SLE G7 LES09  
 FWHM / FWTM 36.0° / 75.0°  
 Efficiency 82 %  
 Peak intensity 1.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C  
 C13723\_MIRELLA-RZL



### TRIDONIC

LED SLE G7 LES13  
 FWHM / FWTM 39.0° / 80.0°  
 Efficiency 84 %  
 Peak intensity 1.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

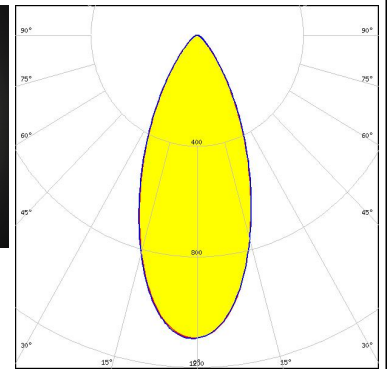
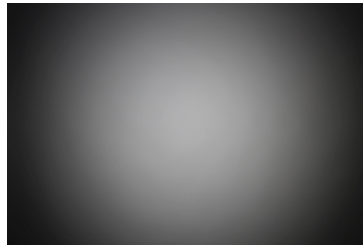




#### OPTICAL RESULTS (MEASURED):

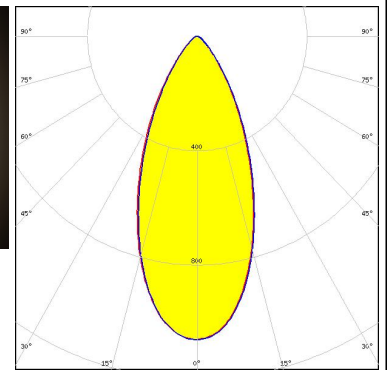
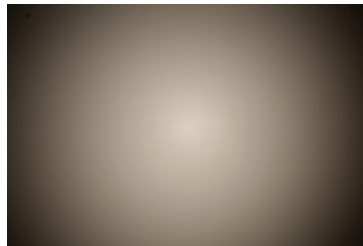
#### TRIDONIC

LED SLE G7 LES13  
 FWHM / FWTM 44.0° / 82.0°  
 Efficiency 76 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I  
 C13723\_MIRELLA-RZL



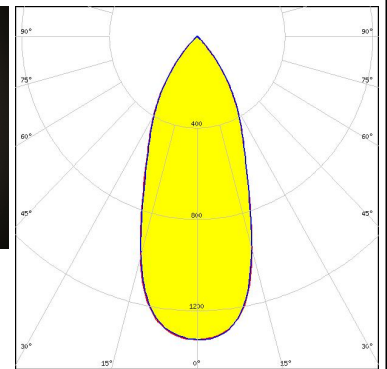
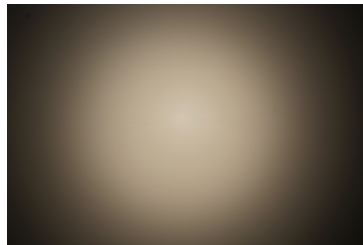
#### XICATO

LED XOB 14.5 mm  
 FWHM / FWTM 46.0° / 84.0°  
 Efficiency 77 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I  
 C13723\_MIRELLA-RZL



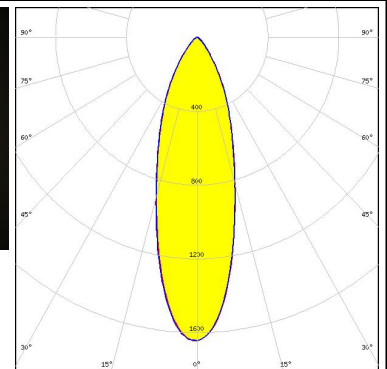
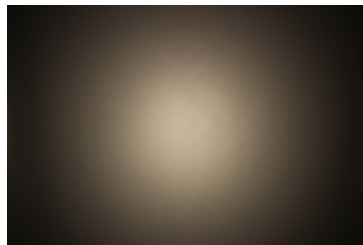
#### XICATO

LED XOB 14.5 mm  
 FWHM / FWTM 42.0° / 81.0°  
 Efficiency 84 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



#### XICATO

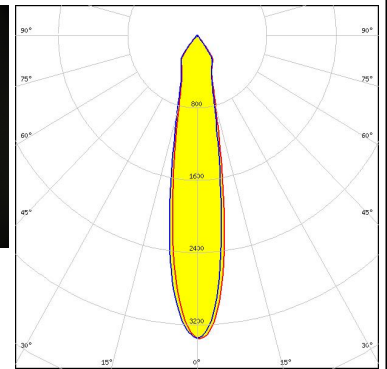
LED XOB 6 mm  
 FWHM / FWTM 31.0° / 72.0°  
 Efficiency 80 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C  
 C13723\_MIRELLA-RZL



#### OPTICAL RESULTS (MEASURED):

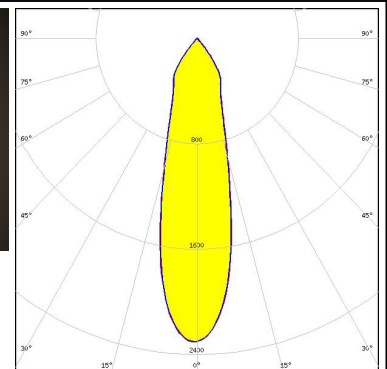
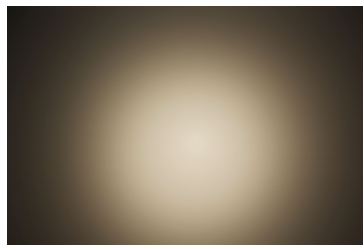
#### XICATO

LED XOB 6 mm  
 FWHM / FWTM 20.0° / 65.0°  
 Efficiency 87 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



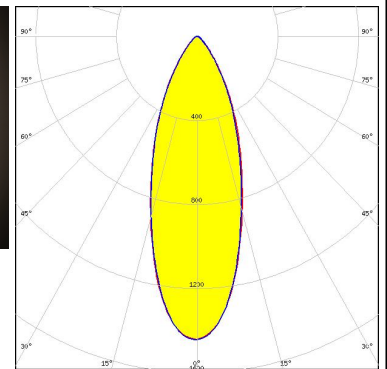
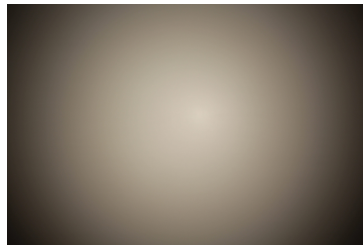
#### XICATO

LED XOB 9.8 mm  
 FWHM / FWTM 27.0° / 74.0°  
 Efficiency 88 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C  
 C13723\_MIRELLA-RZL



#### XICATO

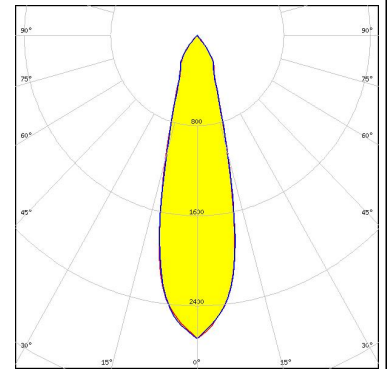
LED XOB 9.8 mm  
 FWHM / FWTM 36.0° / 76.0°  
 Efficiency 80 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C  
 C13723\_MIRELLA-RZL



#### OPTICAL RESULTS (SIMULATED):

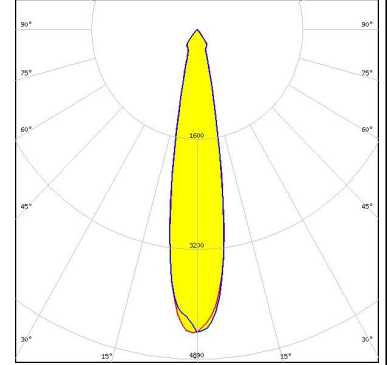
### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 27.3° / 65.3°  
 Efficiency 87 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



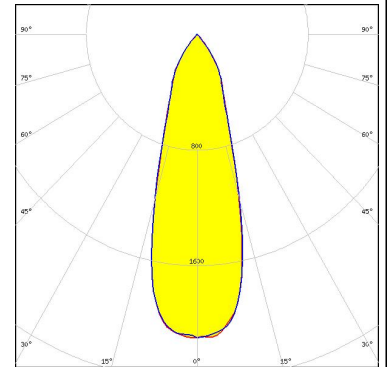
### LUMILEDS

LED LUXEON M/MX  
 FWHM / FWTM 20.0° / 41.0°  
 Efficiency 89 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



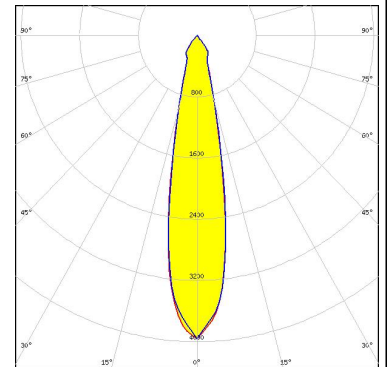
### NICHIA

LED COB L-Type (LES 11)  
 FWHM / FWTM 32.0° / 71.0°  
 Efficiency 88 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



### NICHIA

LED COB T-Type  
 FWHM / FWTM 21.0° / 43.0°  
 Efficiency 88 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



### 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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P.R.CHINA

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