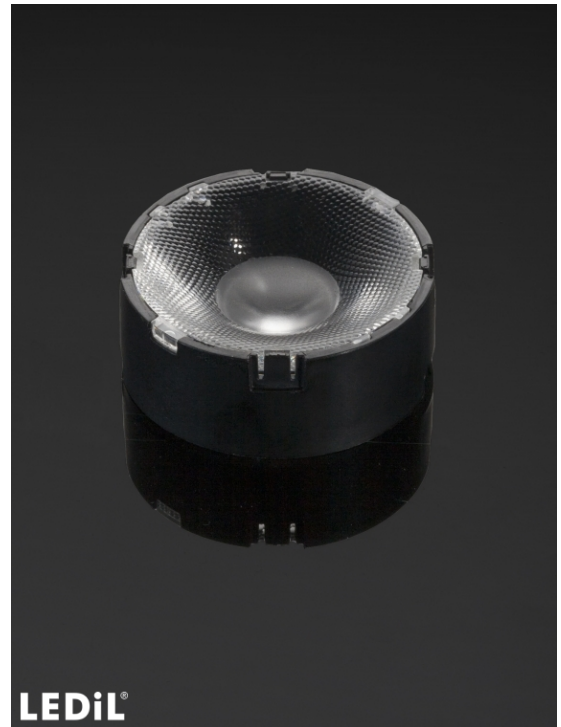


### WINNIE-M-C

~35° spot beam with holder C compatible with LEDiL HEKLA

#### SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	19.5 mm
Fastening	tape
ROHS compliant	yes ⓘ



#### MATERIALS:

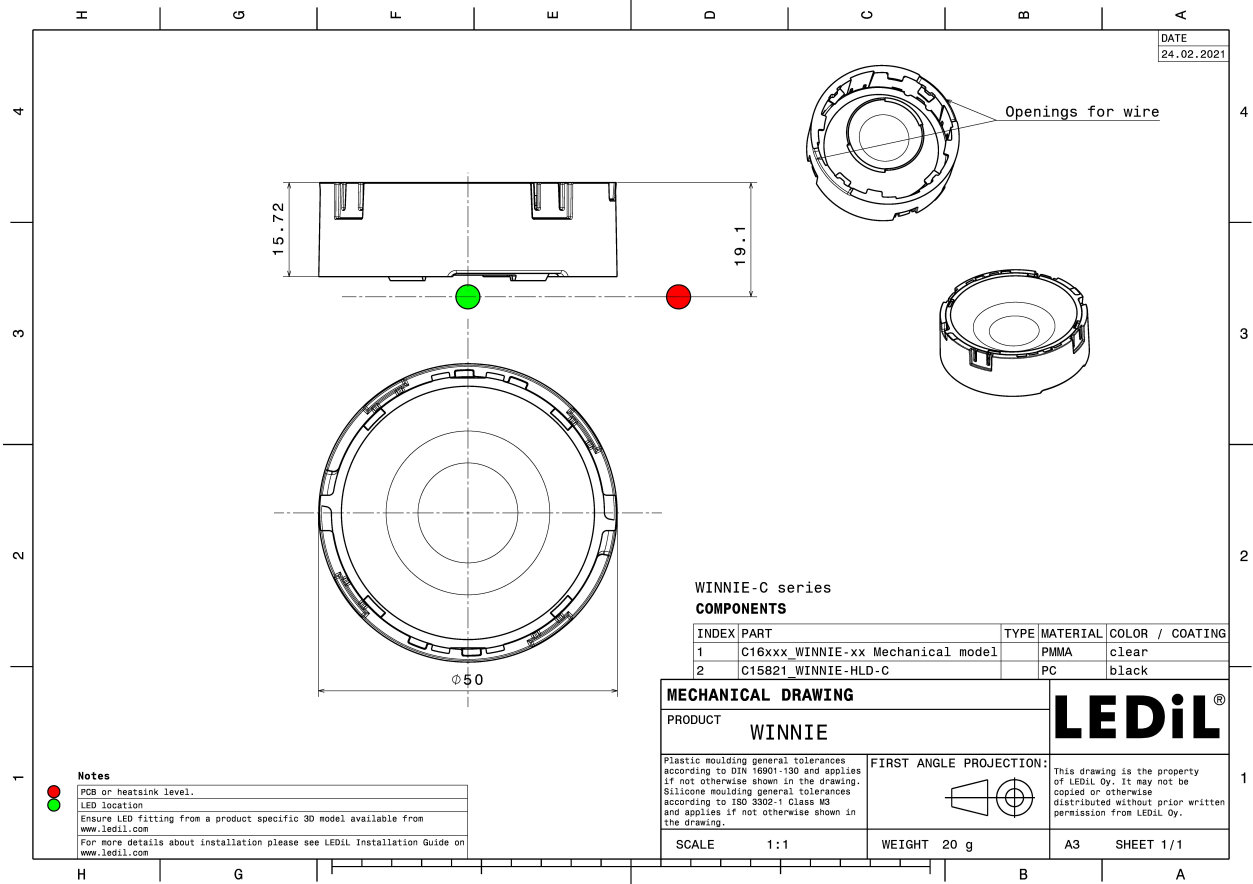
Component	Type	Material	Colour	Finish
C14233_WINNIE-M	Single lens	PMMA	clear	
C15821_WINNIE-HLD-C	Holder	PC	black	

#### ORDERING INFORMATION:

##### Quantities for one set:


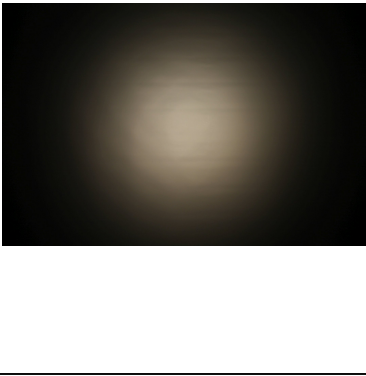
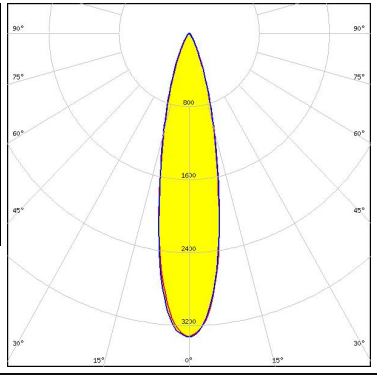


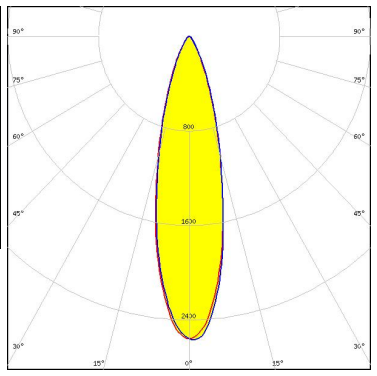


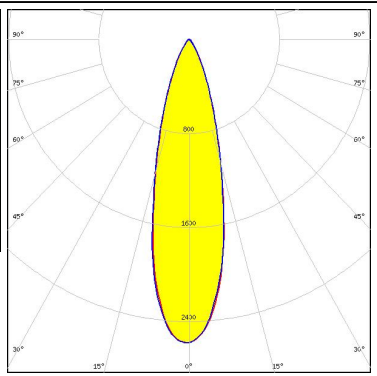


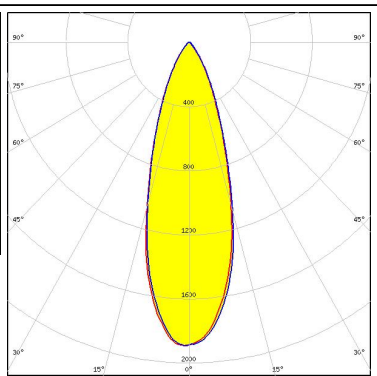
Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14233_WINNIE-M	Single lens	364	84	28	6.5
» Box size: 480 x 280 x 300 mm					
C15821_WINNIE-HLD-C	Holder	420		28	4.1
» Box size: 400 x 300 x 300 mm					

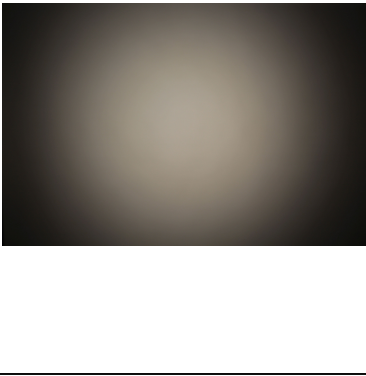
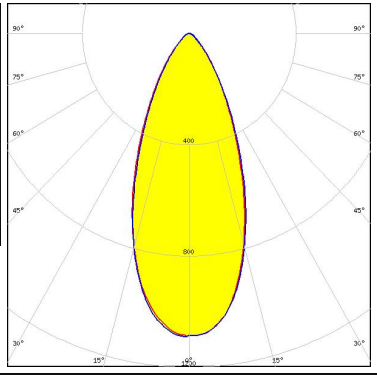

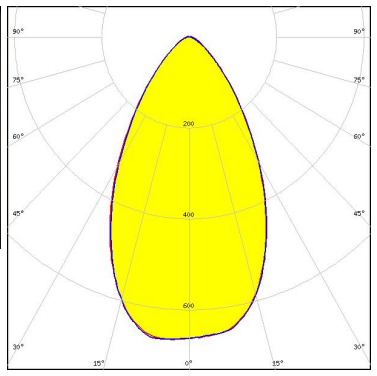

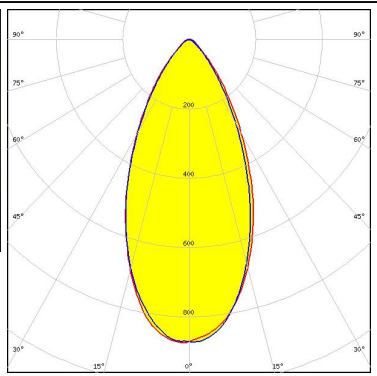

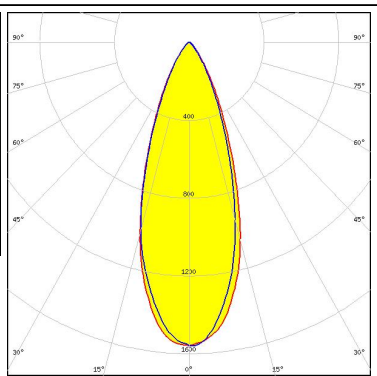


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)



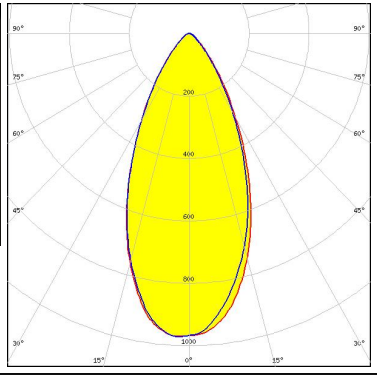


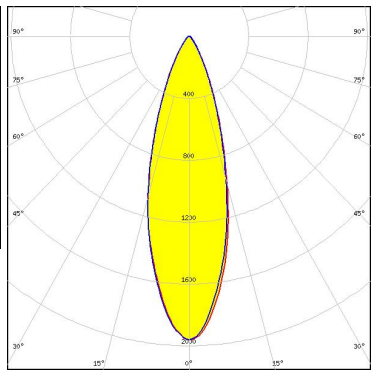


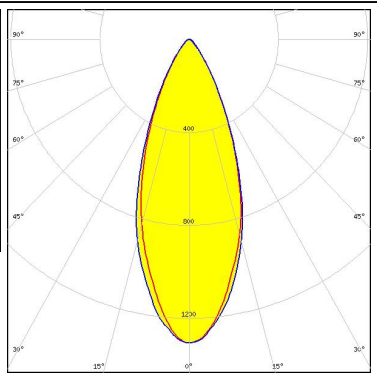
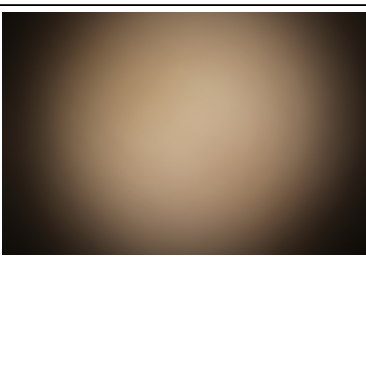
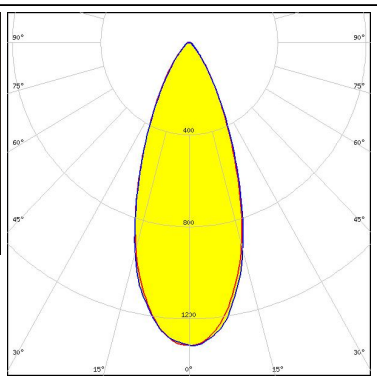
### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V4 HD Gen 7            FWHM / FWTM 23.0° / 48.0°            Efficiency 83 %            Peak intensity 3.3 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V6 Gen6            FWHM / FWTM 26.0° / 55.0°            Efficiency 80 %            Peak intensity 2.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V6 HD Gen 7            FWHM / FWTM 27.0° / 56.0°            Efficiency 83 %            Peak intensity 2.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V9 HD Gen7            FWHM / FWTM 33.0° / 65.0°            Efficiency 82 %            Peak intensity 1.9 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		

### OPTICAL RESULTS (MEASURED):

<p>bridgelux.</p> <p>LED VERO13            FWHM / FWTM 43.0° / 82.0°            Efficiency 75 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>		
<p>bridgelux.</p> <p>LED VERO18            FWHM / FWTM 59.0° / 101.0°            Efficiency 73 %            Peak intensity 0.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>		
<p>bridgelux.</p> <p>LED Vesta DTW 13mm (21W)            FWHM / FWTM 49.0° / 89.0°            Efficiency 72 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour Tunable White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 491 Typ L8</p>		
<p>bridgelux.</p> <p>LED Vesta DTW 9mm (4W/6W/12W)            FWHM / FWTM 37.0° / 68.0°            Efficiency 79 %            Peak intensity 1.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 490 Typ L8</p>		

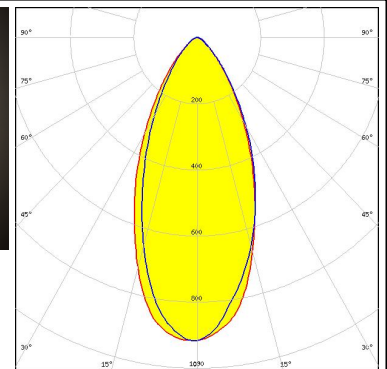
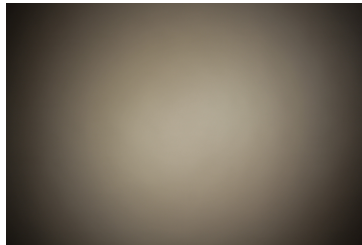
### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta TW 13mm (25W) CSP</p> <p>FWHM / FWTM 47.0° / 85.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 492 Typ L8</p>		
<p></p> <p>LED Vesta TW 6mm DP</p> <p>FWHM / FWTM 31.0° / 61.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 9mm (12W) CSP</p> <p>FWHM / FWTM 40.0° / 73.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>		
<p><b>CITIZEN</b></p> <p>LED CLC020 Series (Dim-To-Warm)</p> <p>FWHM / FWTM 41.0° / 75.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>		

### OPTICAL RESULTS (MEASURED):

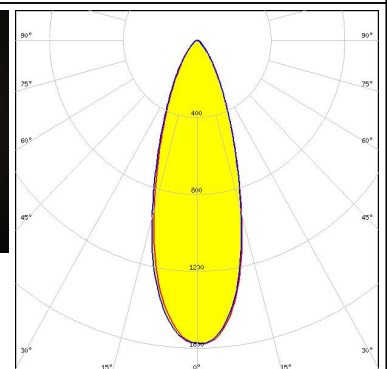
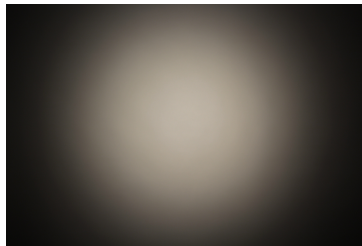
#### CITIZEN

LED CLC030 Series (Dim-To-Warm)  
 FWHM / FWTM 47.0° / 90.0°  
 Efficiency 73 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



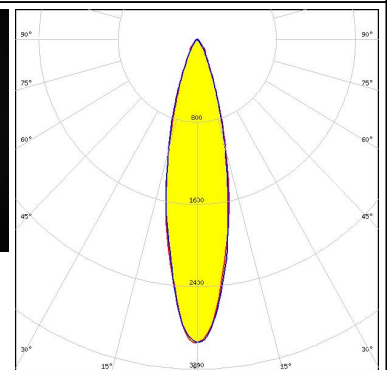
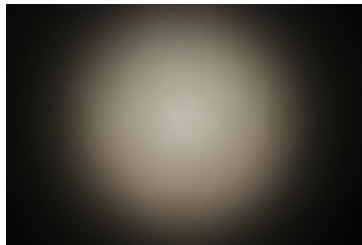
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 34.0° / 69.0°  
 Efficiency 77 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



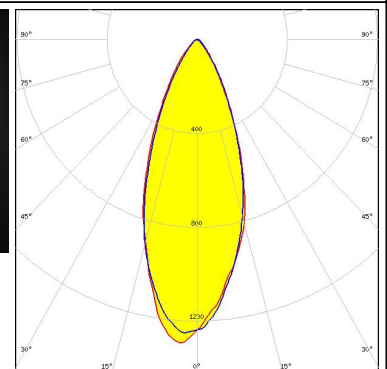
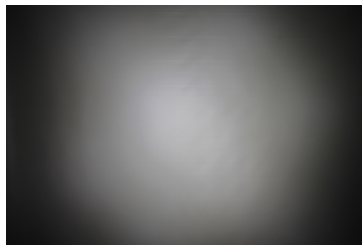
#### CITIZEN

LED CLU7A2/7A3  
 FWHM / FWTM 25.0° / 51.0°  
 Efficiency 82 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### CITIZEN

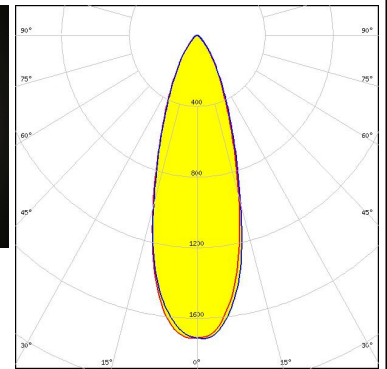
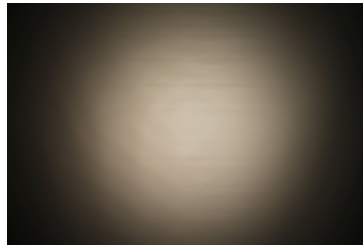
LED LCN-C01B (Tunable White)  
 FWHM / FWTM 40.0° / 74.0°  
 Efficiency 75 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 481 Typ L8



### OPTICAL RESULTS (MEASURED):

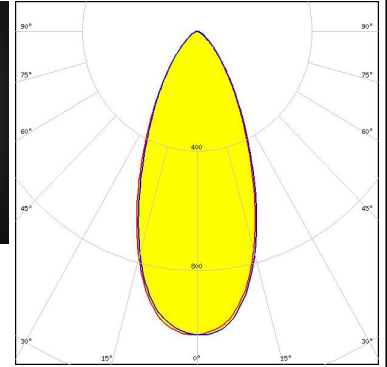
#### CREE LED

LED CMT14xx  
 FWHM / FWTM 33.0° / 69.0°  
 Efficiency 81 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



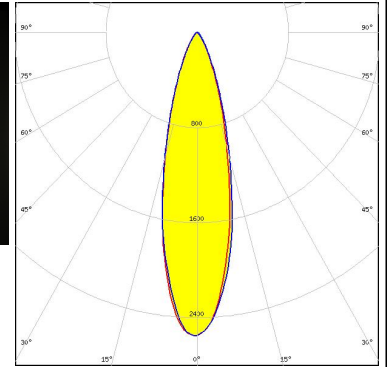
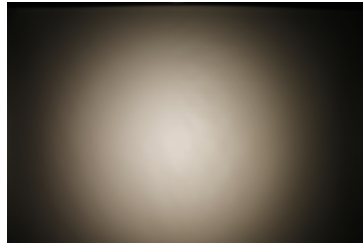
#### CREE LED

LED CMT19xx  
 FWHM / FWTM 45.0 + ° / 87.0°  
 Efficiency 77 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



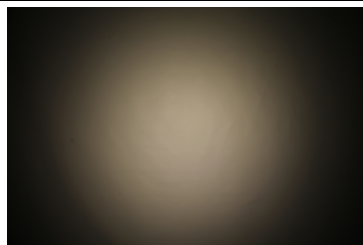
#### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 27.0° / 55.0°  
 Efficiency 81 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15956\_HEKLA-SOCKET-J



#### LUMILEDS

LED LUXEON CX Plus CoB L08 (Gen2)  
 FWHM / FWTM 46.0° / 87.0°  
 Efficiency 77 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 637a Hekla

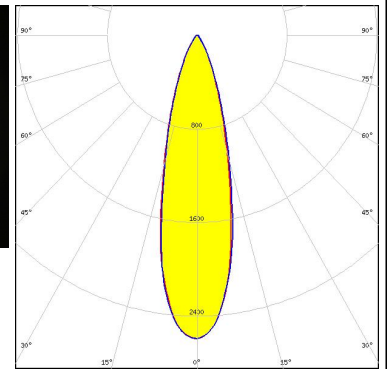
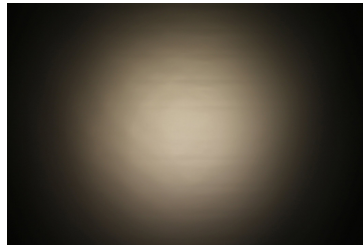




### OPTICAL RESULTS (MEASURED):

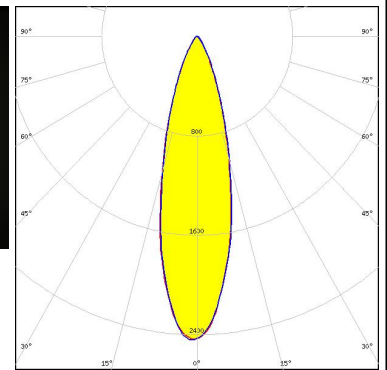
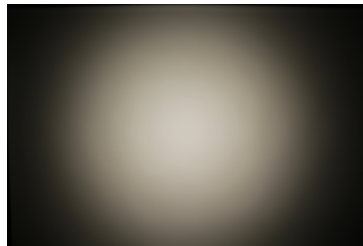
#### LUMILEDS

LED LUXEON CoB 1202HD  
 FWHM / FWTM 27.0° / 55.0°  
 Efficiency 83 %  
 Peak intensity 2.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



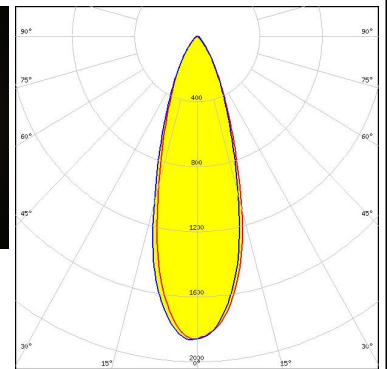
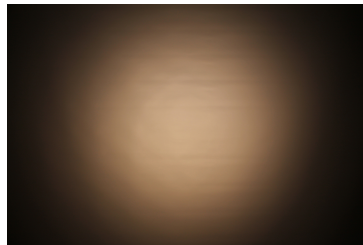
#### LUMILEDS

LED LUXEON CoB 1202s  
 FWHM / FWTM 27.0° / 57.0°  
 Efficiency 81 %  
 Peak intensity 2.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



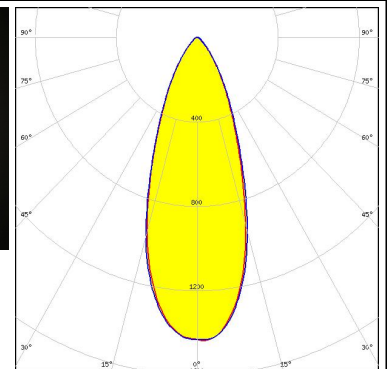
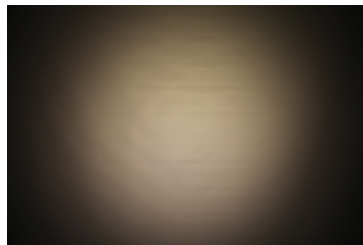
#### LUMILEDS

LED LUXEON CoB 1204HD  
 FWHM / FWTM 32.0° / 66.0°  
 Efficiency 83 %  
 Peak intensity 1.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H


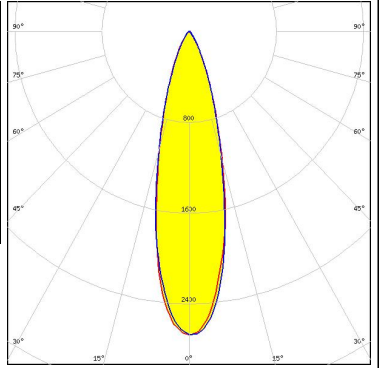
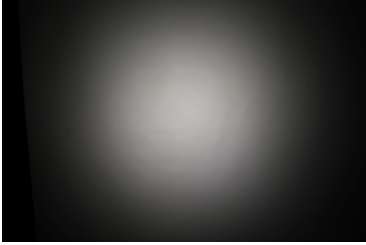
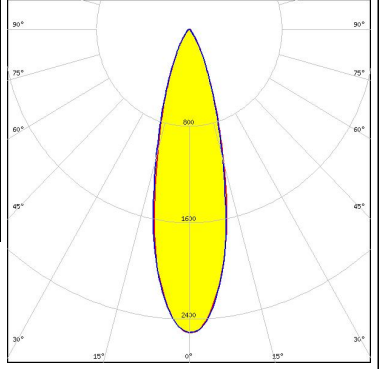
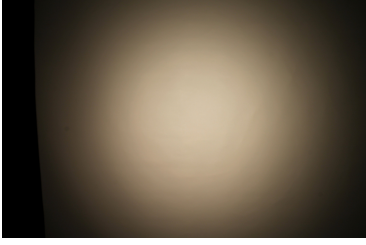
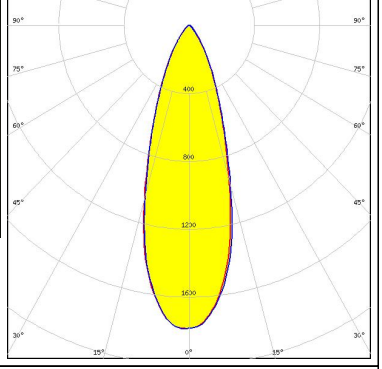
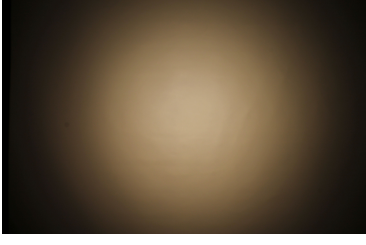
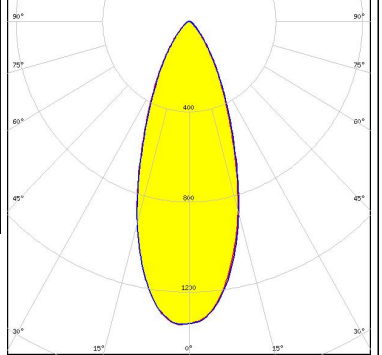


#### LUMILEDS


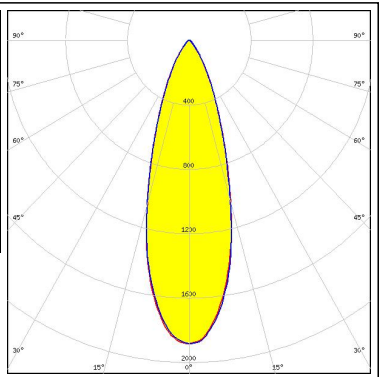

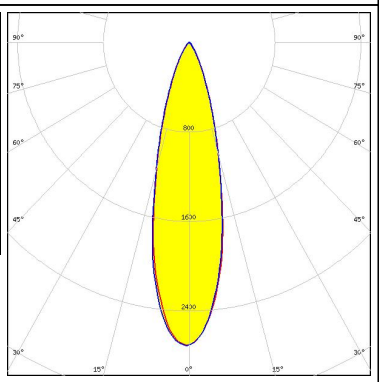
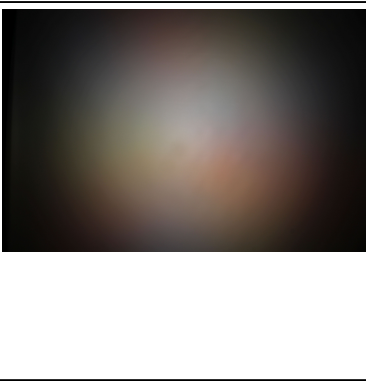
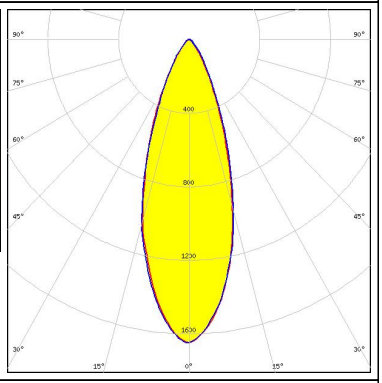

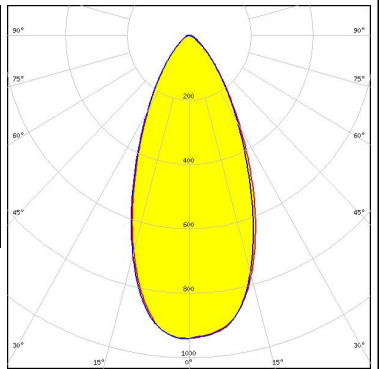
LED LUXEON CoB 1205HD  
 FWHM / FWTM 38.0° / 75.0°  
 Efficiency 81 %  
 Peak intensity 1.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H




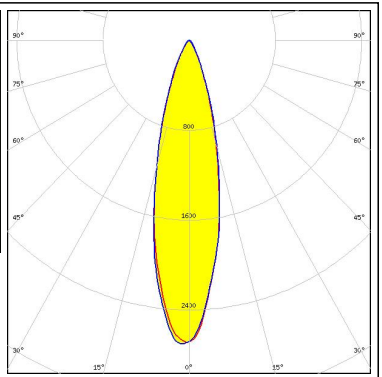

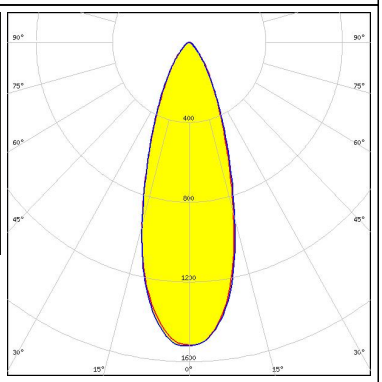

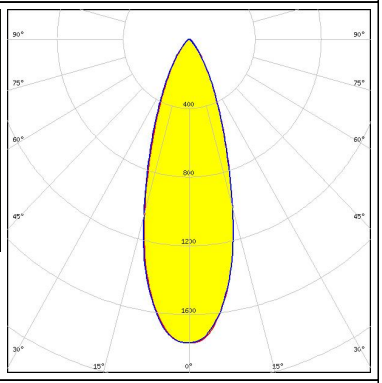

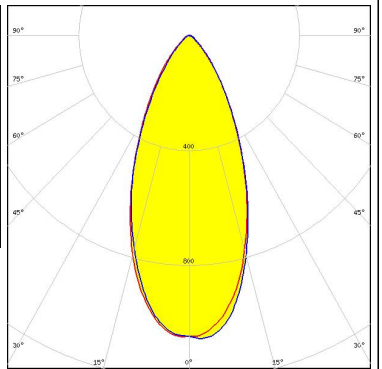
### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 27.0° / 54.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 2.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Lena</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 28.0° / 56.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 2.5 cd/m</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 S04H9</p> <p>FWHM / FWTM 33.0° / 67.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.8 cd/m</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 L04 / L05 (Gen2)</p> <p>FWHM / FWTM 39.0° / 76.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		

### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 32.0° / 65.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 641a Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 27.0° / 54.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.7 cd/m</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 Fusion 12-up (20x24)</p> <p>FWHM / FWTM 35.0° / 67.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-14 (19x19)</p> <p>FWHM / FWTM 47.0° / 89.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 0.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>		

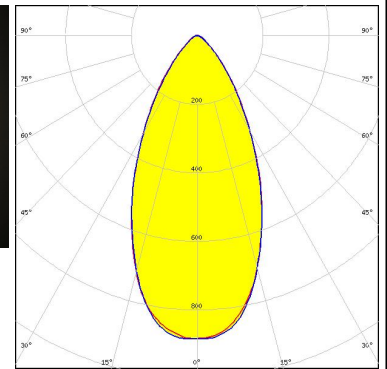
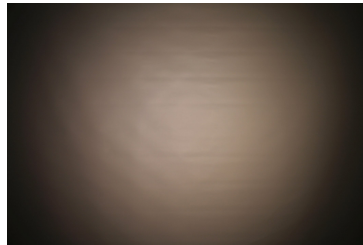
### OPTICAL RESULTS (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CXM-4            FWHM / FWTM 26.0° / 53.0°            Efficiency 79 %            Peak intensity 2.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)            FWHM / FWTM 35.0° / 72.0°            Efficiency 78 %            Peak intensity 1.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L09 CoB            FWHM / FWTM 34.0° / 67.0°            Efficiency 82 %            Peak intensity 1.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15858_HEKLA-SOCKET-H</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L13 CoB            FWHM / FWTM 45.0° / 84.0°            Efficiency 77 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 432 Typ L8</p>		

### OPTICAL RESULTS (MEASURED):

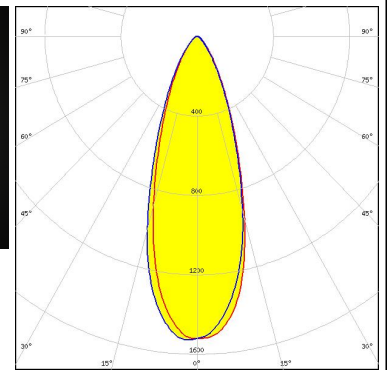
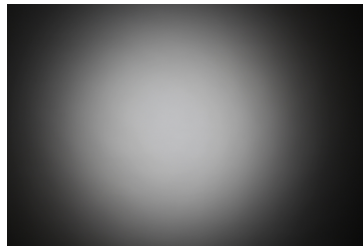
#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM / FWTM 50.0° / 91.0°  
 Efficiency 76 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 499 Typ L8



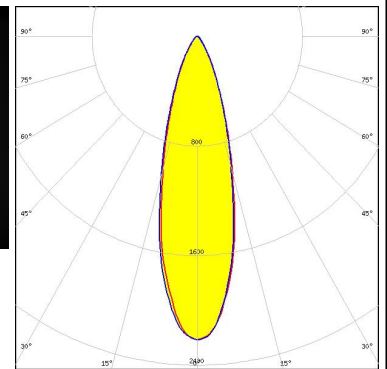
#### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 35.0° / 71.0°  
 Efficiency 79 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



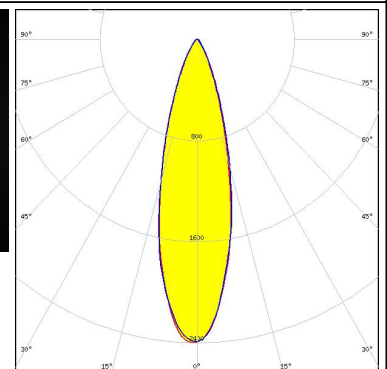
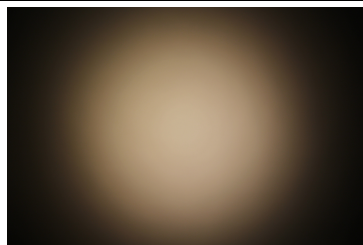
#### SAMSUNG

LED LC010C  
 FWHM / FWTM 28.0° / 59.0°  
 Efficiency 79 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



#### SAMSUNG

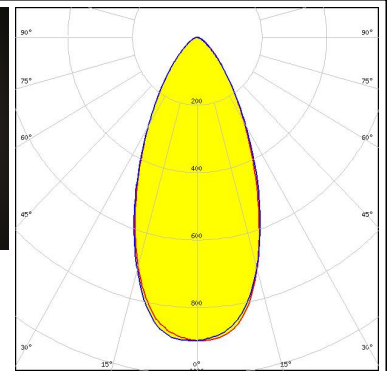
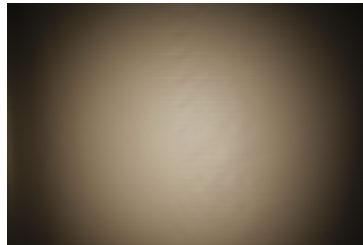
LED LC010C G2  
 FWHM / FWTM 28.0° / 56.0°  
 Efficiency 80 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



### OPTICAL RESULTS (MEASURED):

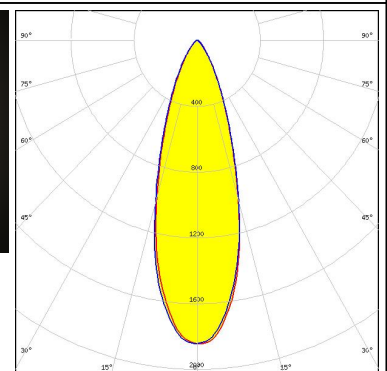
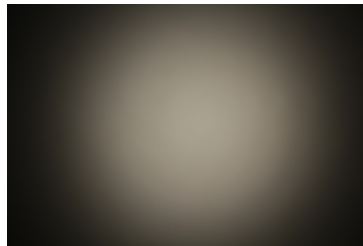
#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 48.0° / 91.0°  
 Efficiency 75 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



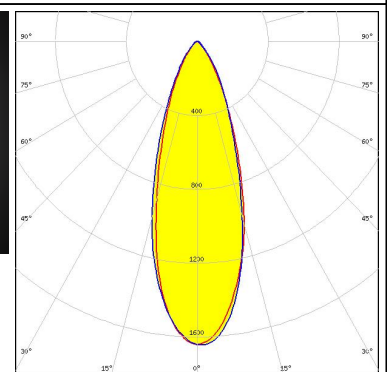
#### SAMSUNG

LED LC020C  
 FWHM / FWTM 32.0° / 64.0°  
 Efficiency 80 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



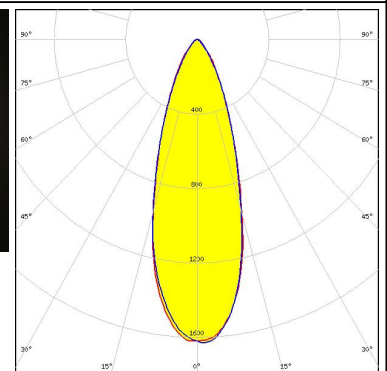
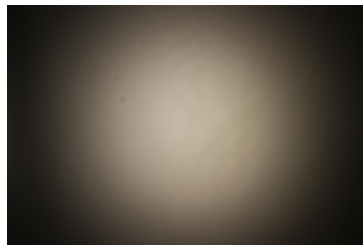
#### SAMSUNG

LED LC020C G2  
 FWHM / FWTM 34.0° / 68.0°  
 Efficiency 79 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



#### TRIDONIC

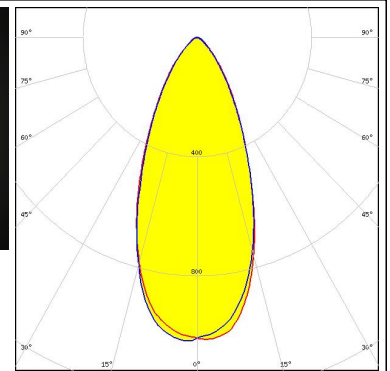
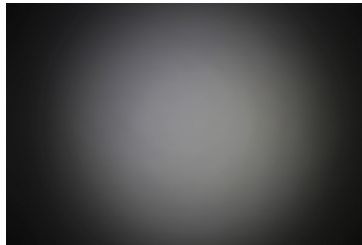
LED SLE G7 LES09  
 FWHM / FWTM 34.0° / 69.0°  
 Efficiency 78 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



### OPTICAL RESULTS (MEASURED):

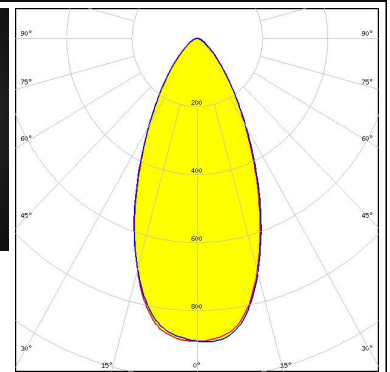
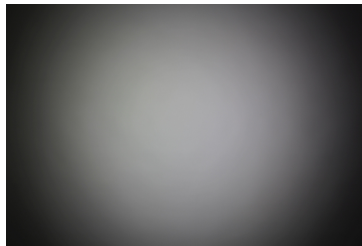
#### TRIDONIC

LED SLE G7 LES13  
 FWHM / FWTM 45.0° / 86.0°  
 Efficiency 75 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



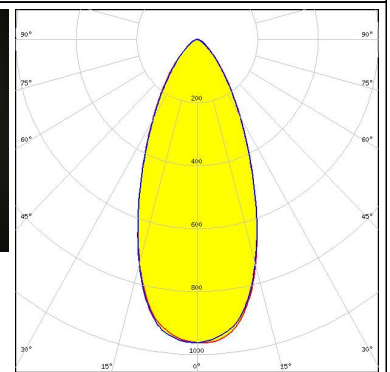
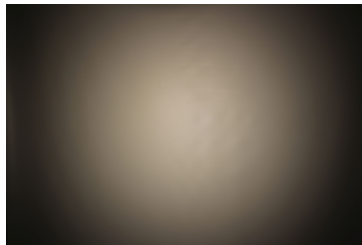
#### TRIDONIC

LED SLE G7 LES15  
 FWHM / FWTM 48.0° / 91.0°  
 Efficiency 75 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



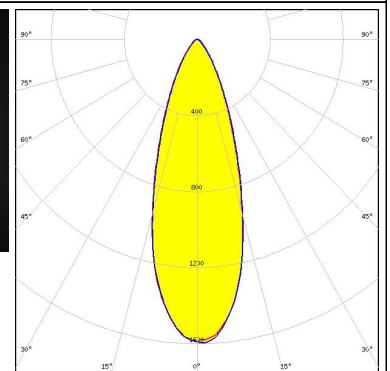
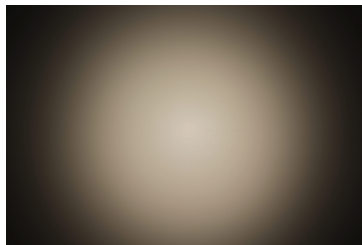
#### XICATO

LED XOB 14.5 mm  
 FWHM / FWTM 45.0° / 88.0°  
 Efficiency 75 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



#### XICATO

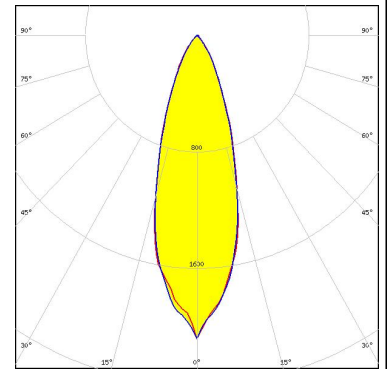
LED XOB 9.8 mm  
 FWHM / FWTM 35.0° / 69.0°  
 Efficiency 78 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



### OPTICAL RESULTS (SIMULATED):

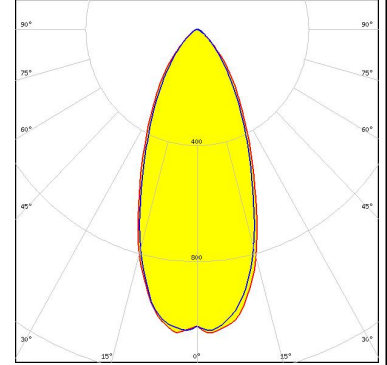
bridgelux

LED VERO10  
 FWHM / FWTM 32.0° / 65.0°  
 Efficiency 83 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15616\_HEKLA-SOCKET-F



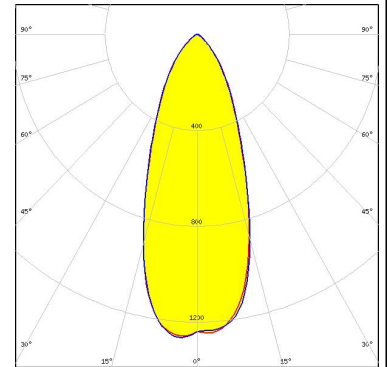
### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 45.0° / 89.0°  
 Efficiency 77 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



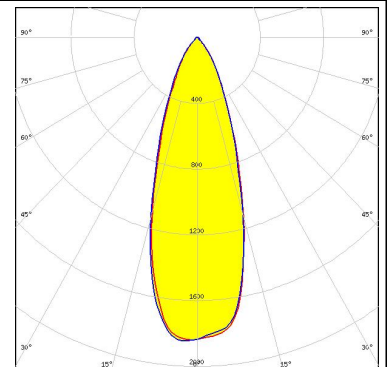
CREE LED

LED CMA1825  
 FWHM / FWTM 40.0° / 84.0°  
 Efficiency 82 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 24.0° / 68.0°  
 Efficiency 84 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D





### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED CXA/B 15xx            FWHM / FWTM 30.0° / 61.0°            Efficiency 83 %            Peak intensity 2.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15256_HEKLA-SOCKET-D</p>	
<p><b>CREE</b> LED</p> <p>LED CXA/B 1816 &amp; CXA/B 1820 &amp; CXA 1850            FWHM / FWTM 36.0° / 84.0°            Efficiency 81 %            Peak intensity 1.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15254_HEKLA-SOCKET-B</p>	
<p><b>NICHIA</b></p> <p>LED NFSWE11A            FWHM / FWTM 37.0° / 63.0°            Efficiency 72 %            Peak intensity 1.6 cd/lm            LEDs/each optic 30            Light colour White            Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED MJT COB LES 14.5            FWHM / FWTM 48.0° / 95.0 + 96.0°            Efficiency 78 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>	

### OPTICAL RESULTS (SIMULATED):



### 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.

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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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