

WINNIE-WW-C

~65° wide beam with holder C compatible with LEDiL HEKLA

SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	15.7 mm
Fastening	socket
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish
C16189_WINNIE-WW	Single lens	PMMA	clear	
C15821_WINNIE-HLD-C	Holder	PC	black	

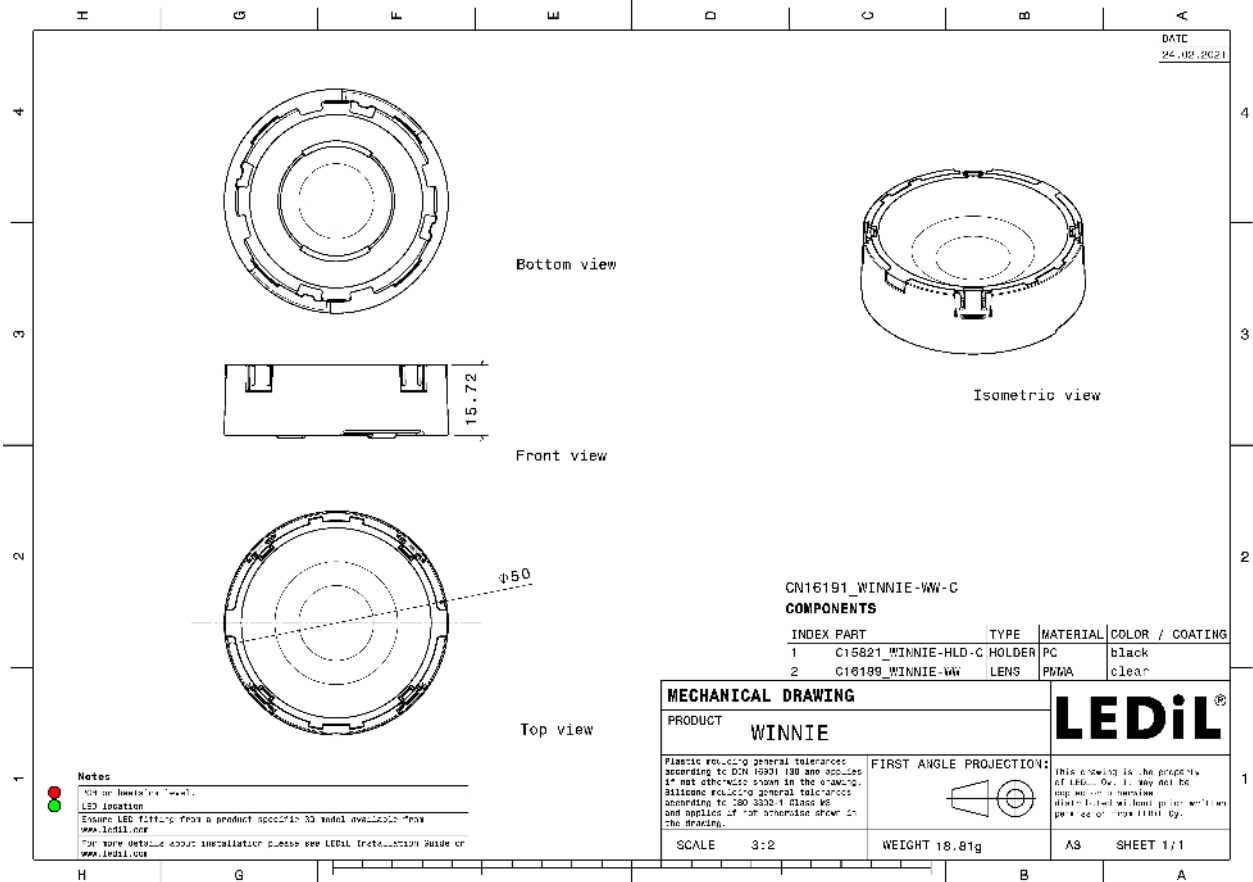
ORDERING INFORMATION:

Quantities for one set:

Single lens	1
Holder	1



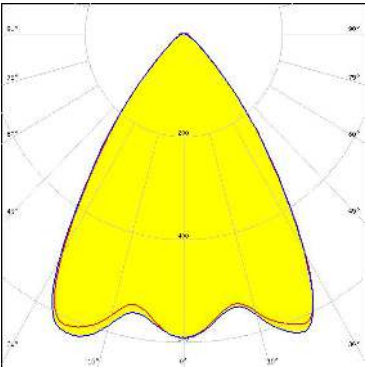


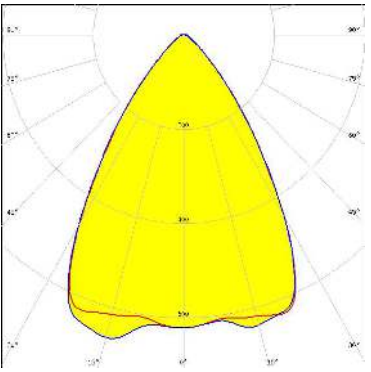

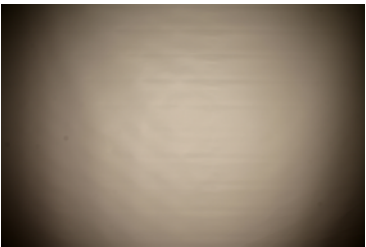
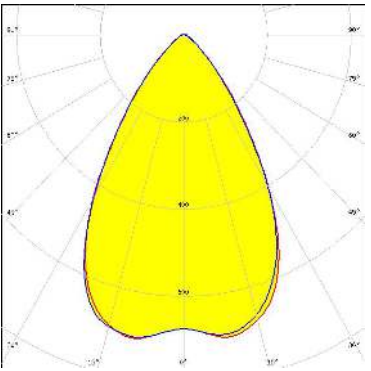

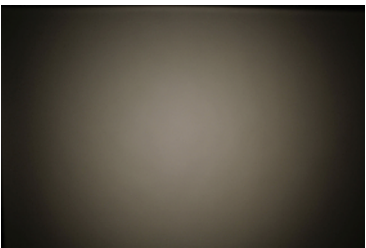
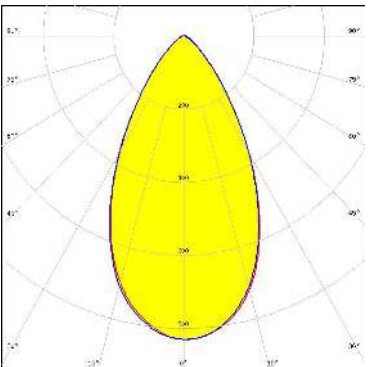


Component		Qty in box	MOQ	MPQ	Box weight (kg)
C16189_WINNIE-WW	Single lens	364	84	28	5.6
» Box size: 476 x 273 x 292 mm					
C15821_WINNIE-HLD-C	Holder	420		28	4.1
» Box size: 400 x 300 x 300 mm					


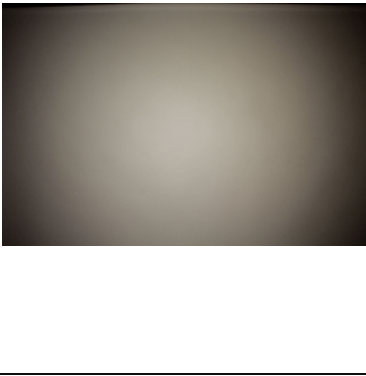
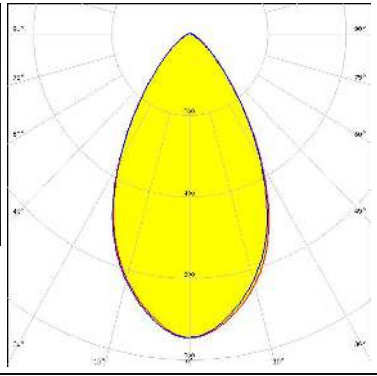


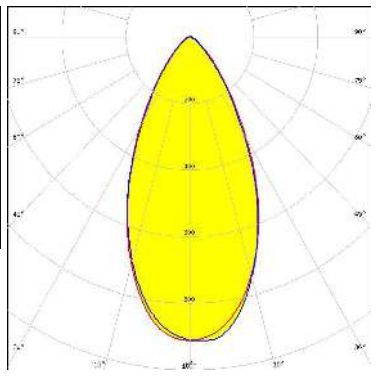


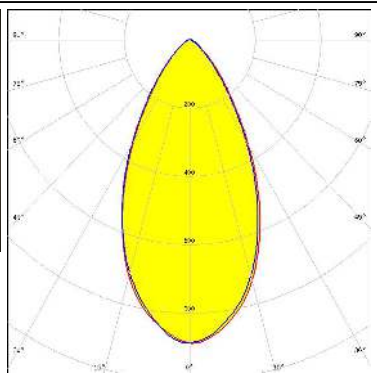


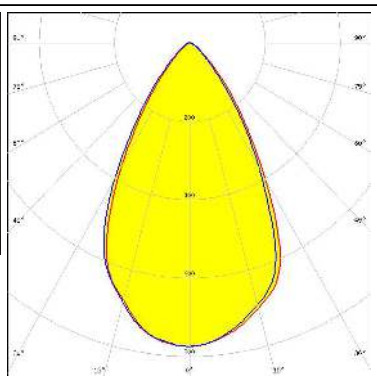


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V4 HD Gen 7 FWHM / FWTM 72.0° / 98.0° Efficiency 83 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V6 HD Gen 7 FWHM / FWTM 69.0° / 98.0° Efficiency 83 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V9 HD Gen7 FWHM / FWTM 65.0° / 97.0° Efficiency 82 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED VERO13 FWHM / FWTM 56.0° / 94.0° Efficiency 80 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K</p>		

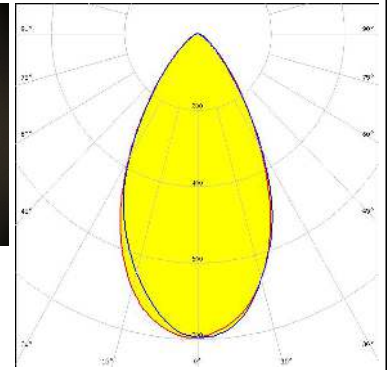
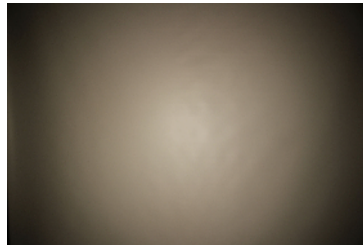
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED VERO18 FWHM / FWTM 59.0° / 100.0° Efficiency 78 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K</p>		
<p></p> <p>LED Vesta DTW 13mm (21W) FWHM / FWTM 50.0° / 89.0° Efficiency 76 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta TW 13mm (25W) CSP FWHM / FWTM 53.0° / 92.0° Efficiency 79 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 492 Typ L8</p>		
<p></p> <p>LED Vesta TW 6mm DP FWHM / FWTM 60.0° / 92.0° Efficiency 79 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		

OPTICAL RESULTS (MEASURED):

CITIZEN

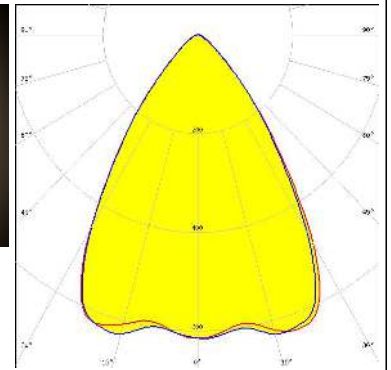
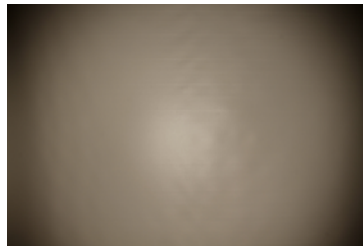
LED CLC030 Series (Dim-To-Warm)
 FWHM / FWTM 57.0° / 95.0°
 Efficiency 78 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 70.0° / 100.0°
 Efficiency 83 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

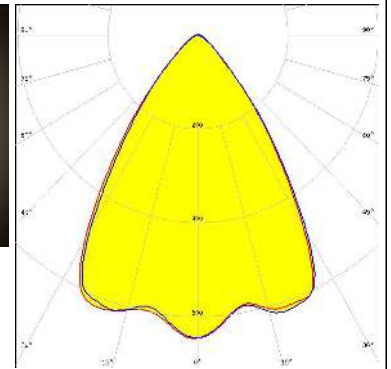
F15255_HEKLA-SOCKET-C



CITIZEN

LED CLU7A2/7A3
 FWHM / FWTM 70.0° / 97.0°
 Efficiency 84 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

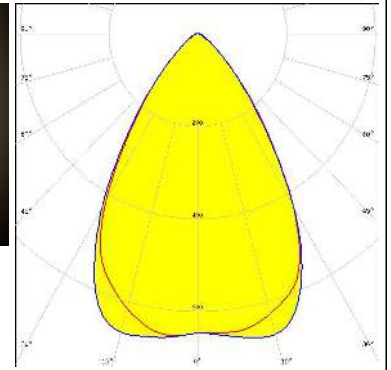
F15255_HEKLA-SOCKET-C




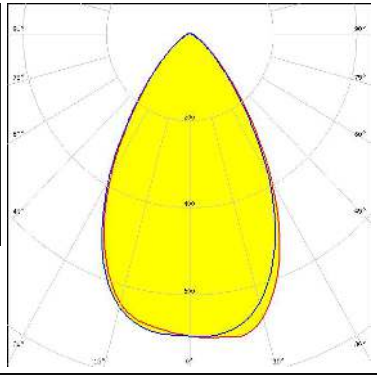
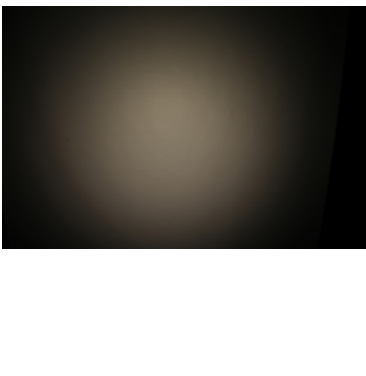
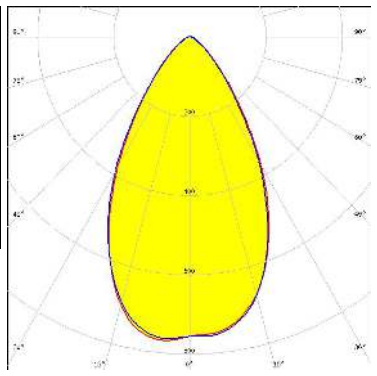

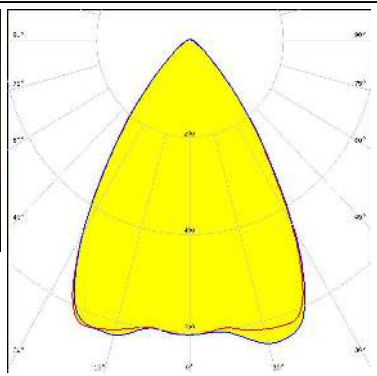
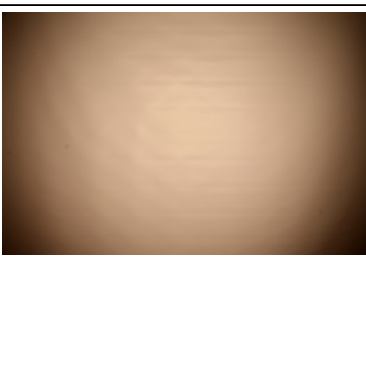
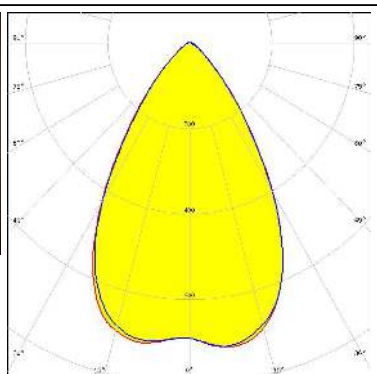
CREE LED

LED CMT14xx
 FWHM / FWTM 67.0° / 100.0°
 Efficiency 82 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


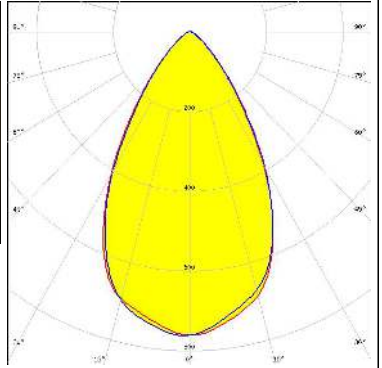

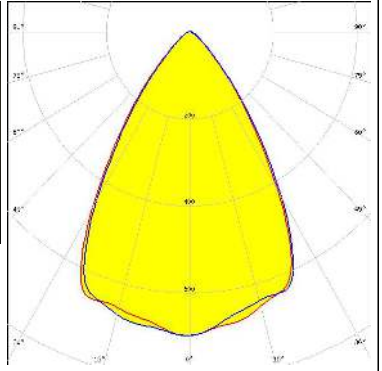
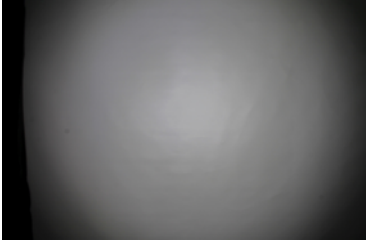
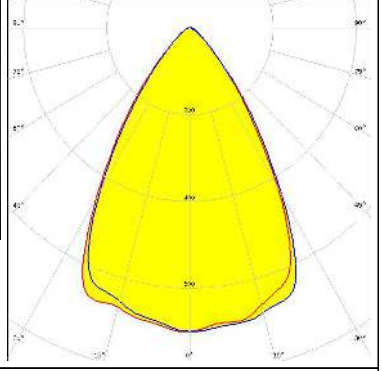

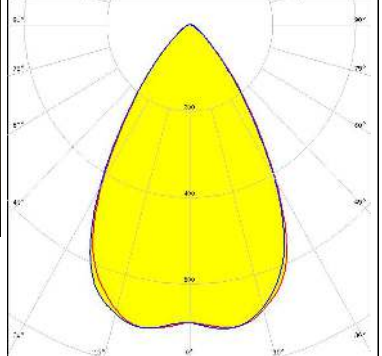
F15255_HEKLA-SOCKET-C



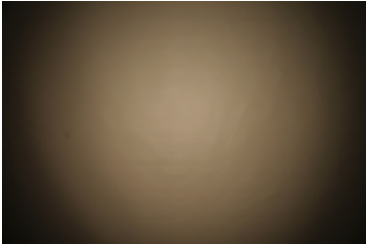
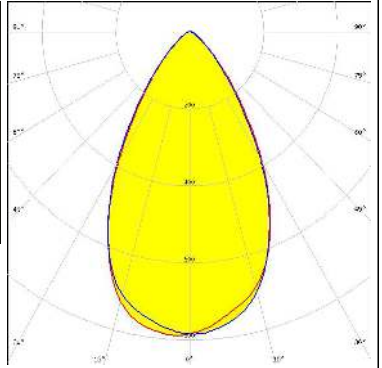
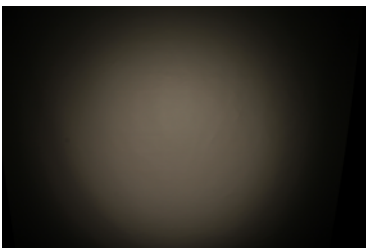
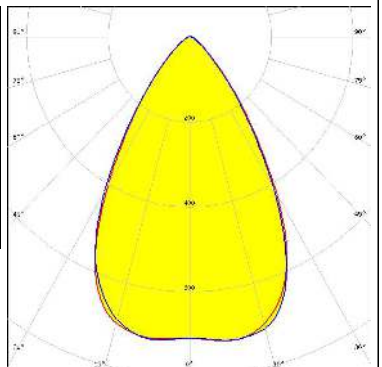
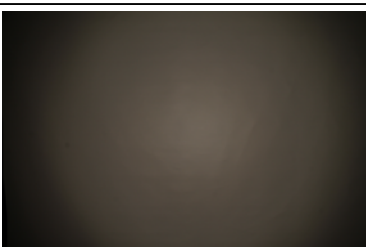
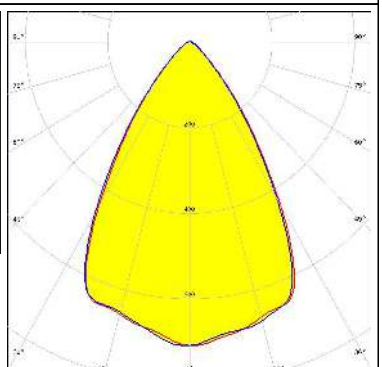
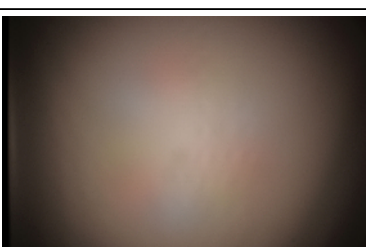
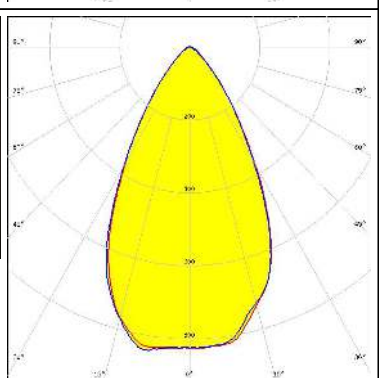
OPTICAL RESULTS (MEASURED):

<p>CREE LED</p> <p>LED CMT19xx FWHM / FWTM 63.0° / 100.0° Efficiency 80 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 59.0° / 97.0° Efficiency 80 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202HD FWHM / FWTM 69.0° / 98.0° Efficiency 82 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15848_HEKLA-SOCKET-G</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1204HD FWHM / FWTM 64.0° / 96.0° Efficiency 82 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H</p>		

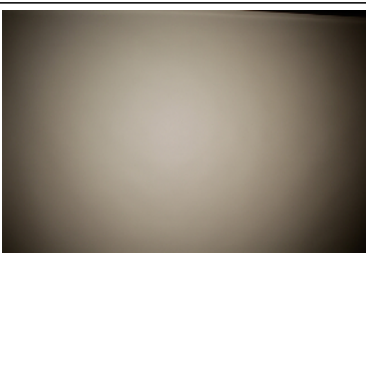
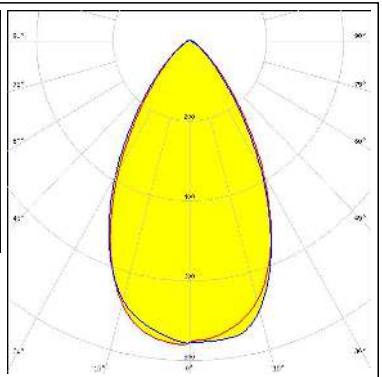
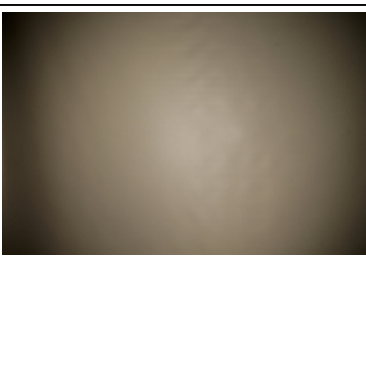
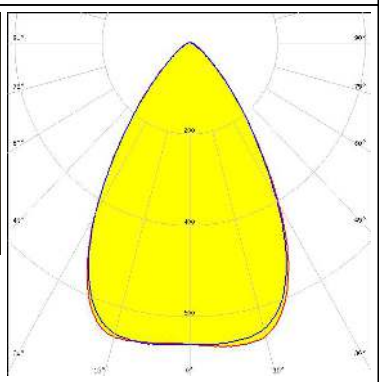

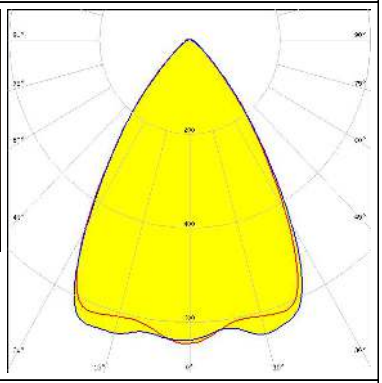

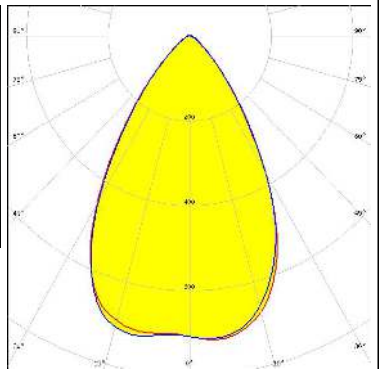
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1205HD</p> <p>FWHM / FWTM 61.0° / 96.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 66.0° / 95.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 65.0° / 94.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 64.0° / 96.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.7 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>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 60.0° / 96.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 63.0° / 95.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 641a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 65.0° / 94.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON Fusion</p> <p>FWHM / FWTM 57.0° / 91.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 0.8 cd/lm</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>		

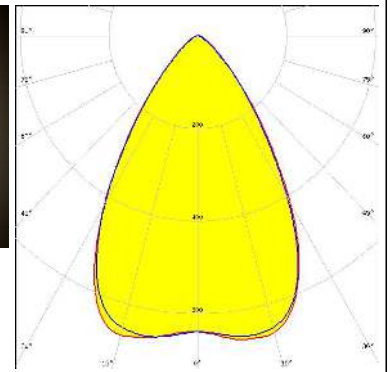
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CxM-14 (19x19) FWHM / FWTM 60.0° / 97.0° Efficiency 80 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 66.0° / 99.0° Efficiency 82 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p>SAMSUNG</p> <p>LED LC010C G2 FWHM / FWTM 68.0° / 97.0° Efficiency 82 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p>SAMSUNG</p> <p>LED LC020C G2 FWHM / FWTM 64.0° / 96.0° Efficiency 82 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		

OPTICAL RESULTS (MEASURED):

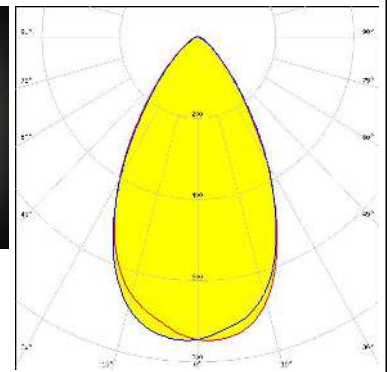
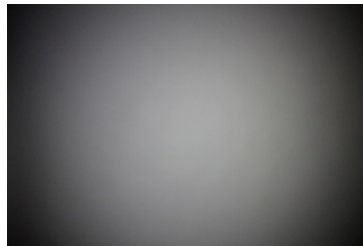
TRIDONIC

LED SLE G7 LES09
 FWHM / FWTM 67.0° / 99.0°
 Efficiency 81 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



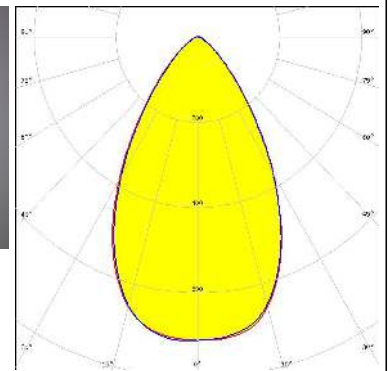
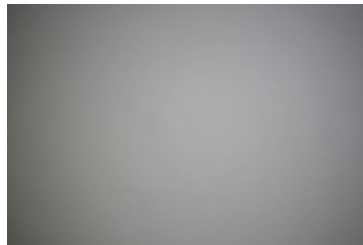
TRIDONIC

LED SLE G7 LES13
 FWHM / FWTM 60.0° / 98.0°
 Efficiency 80 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



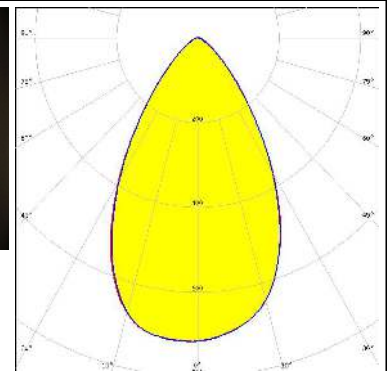
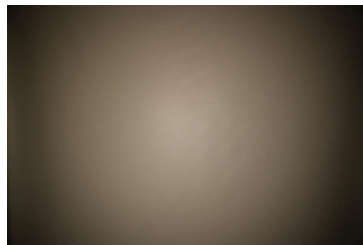
TRIDONIC

LED SLE G7 LES15
 FWHM / FWTM 61.0° / 100.0°
 Efficiency 79 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



XICATO

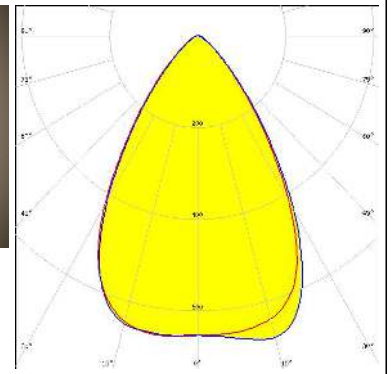
LED XOB 14.5 mm
 FWHM / FWTM 62.0° / 99.0°
 Efficiency 80 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I




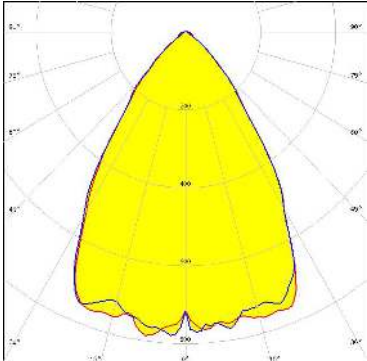
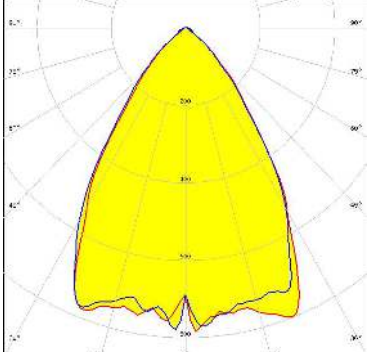
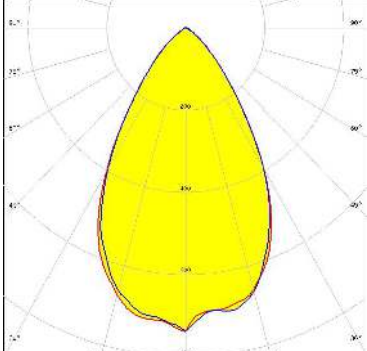

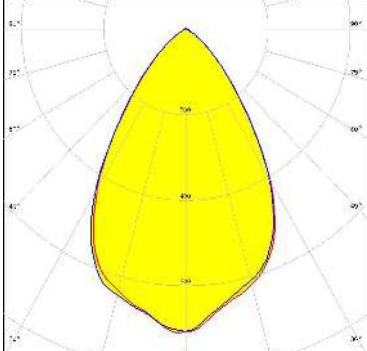
OPTICAL RESULTS (MEASURED):

XICATO

LED	XOB 9.8 mm
FWHM / FWTM	66.0° / 99.0°
Efficiency	82 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



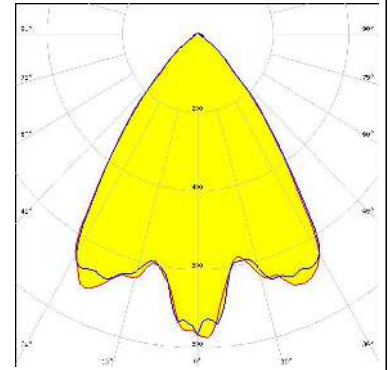
OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V10 Gen7 FWHM / FWTM 69.0° / 100.0° Efficiency 83 % LEDs/each optic 1 Light colour White Required components:</p>	
<p>CITIZEN</p> <p>LED CLL02x/CLU02x (LES10) FWHM / FWTM 68.0° / 100.0° Efficiency 82 % LEDs/each optic 1 Light colour White Required components:</p>	
<p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM / FWTM 62.0° / 97.0° Efficiency 77 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>	
<p></p> <p>LED CMA1825 FWHM / FWTM 65.0° / 100.0° Efficiency 81 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-B</p>	

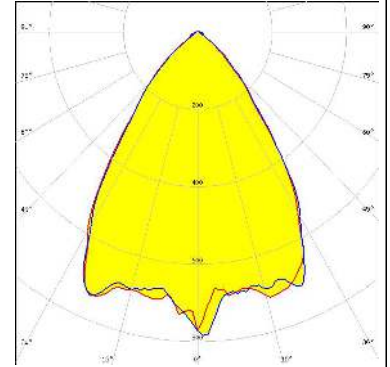
OPTICAL RESULTS (SIMULATED):



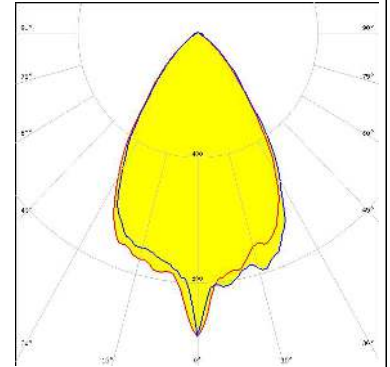
LED CXA/B 13xx
 FWHM / FWTM 72.0° / 100.0°
 Efficiency 83 %
 LEDs/each optic 1
 Light colour White
 Required components:



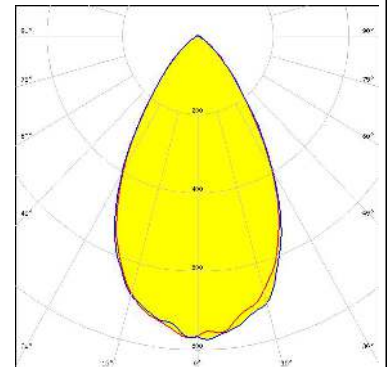
LED CXA/B 15xx
 FWHM / FWTM 70.0° / 100.0°
 Efficiency 84 %
 LEDs/each optic 1
 Light colour White
 Required components:




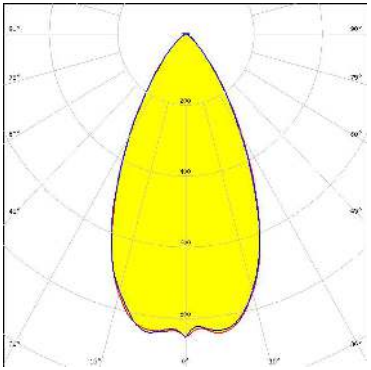

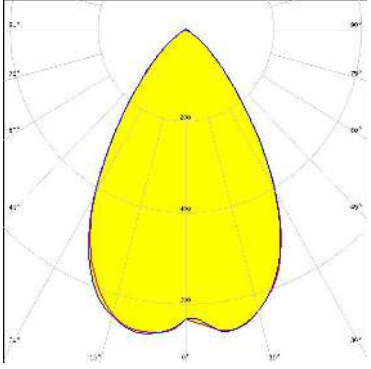

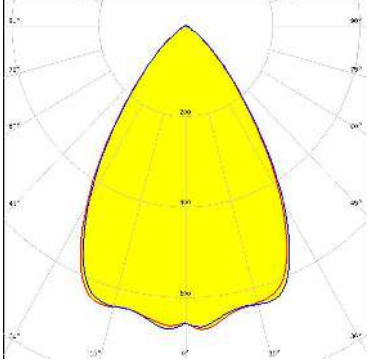
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 65.0° / 100.0°
 Efficiency 83 %
 LEDs/each optic 1
 Light colour White
 Required components:



LED COB J-Type
 FWHM / FWTM 60.0° / 97.0°
 Efficiency 79 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 463 Typ L8



OPTICAL RESULTS (SIMULATED):

	<p>LED NFSWE11A FWHM / FWTM 54.0° / 86.0° Efficiency 73 % Peak intensity 0.9 cd/lm LEDs/each optic 30 Light colour White Required components:</p>	
 <small>SEOUL SEMICONDUCTOR</small>	<p>LED MJT COB LES 14.5 FWHM / FWTM 66.0° / 100.0 + 102.0° Efficiency 80 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>	
 <small>SEOUL SEMICONDUCTOR</small>	<p>LED MJT COB LES 9.8 FWHM / FWTM 68.0° / 100.0° Efficiency 83 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>	

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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