

## ILONA-M

~25° wide beam

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.8 mm
Height	29.7 mm
Fastening	socket
ROHS compliant	yes ⓘ

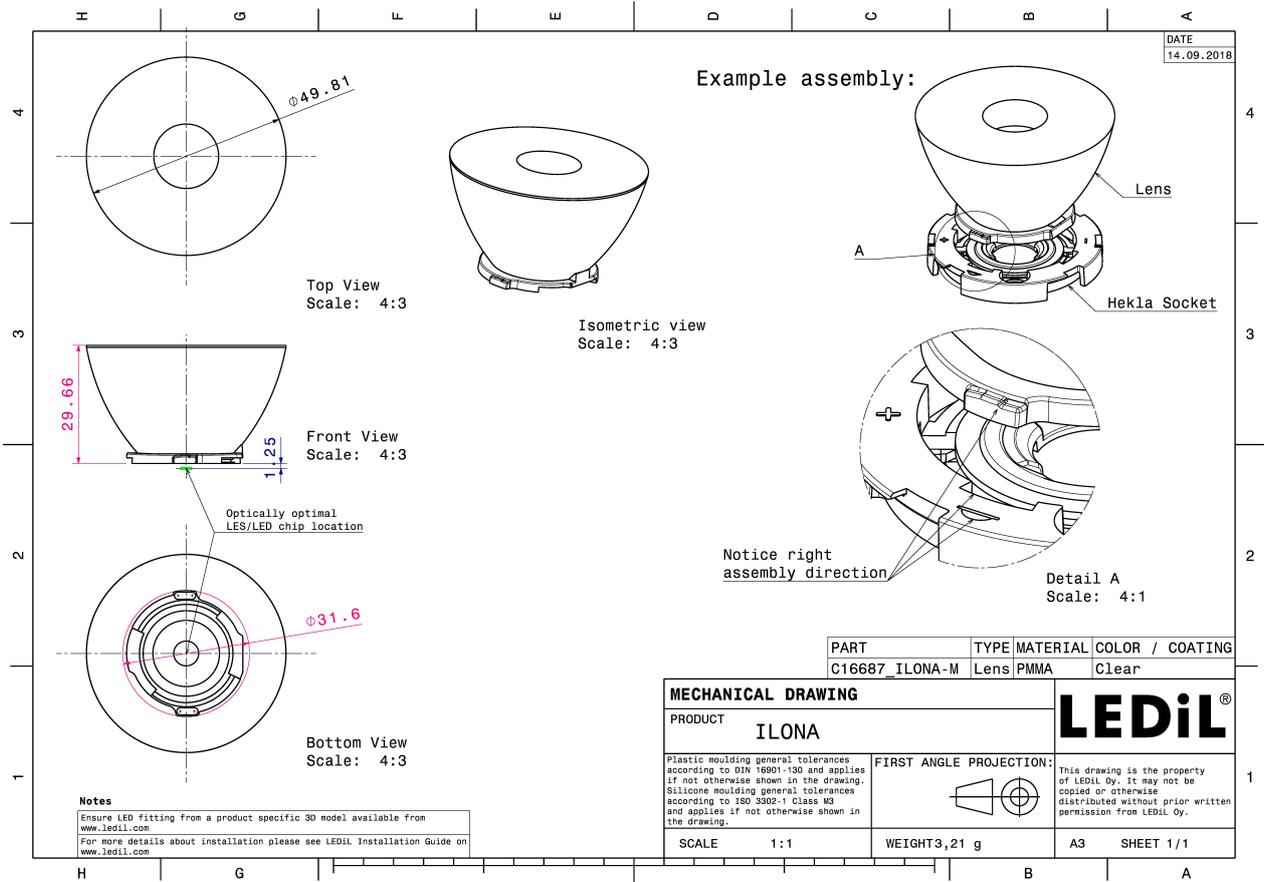
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
ILONA-M	Single lens	PMMA	clear	



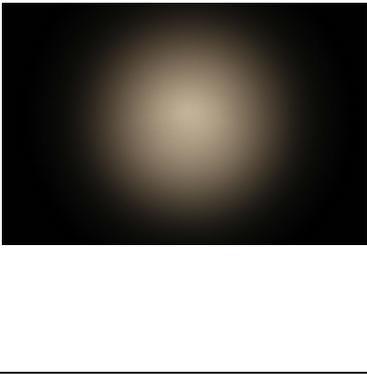
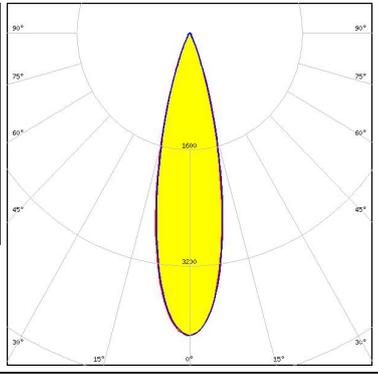
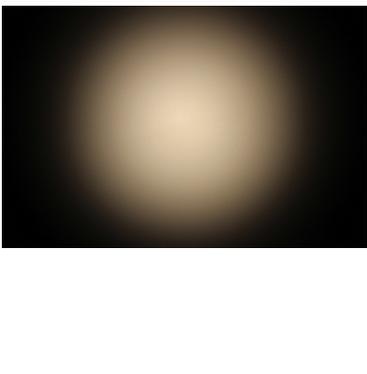
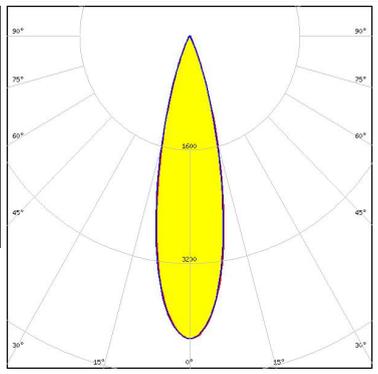
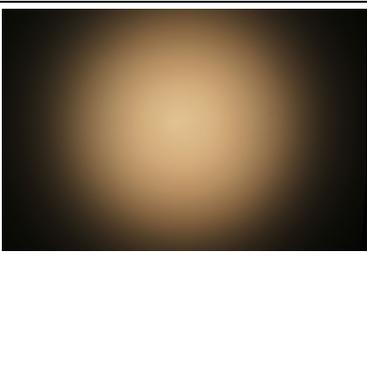
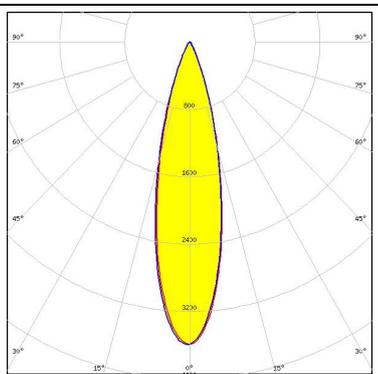
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16687_ILONA-M » Box size: 480 x 280 x 300 mm	264	99	33	9.9



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

### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V6 HD</p> <p>FWHM / FWTM 25.0° / 44.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 4.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>bridgelux.</p> <p>LED V6 HD</p> <p>FWHM / FWTM 25.0° / 44.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 4.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>bridgelux.</p> <p>LED Vesta DTW 13mm (21W)</p> <p>FWHM / FWTM 31.0° / 61.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		
<p>bridgelux.</p> <p>LED Vesta DTW 9mm (4W/6W/12W)</p> <p>FWHM / FWTM 25.0° / 48.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 3.6 cd/m</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>		

### PHOTOMETRIC DATA (MEASURED):

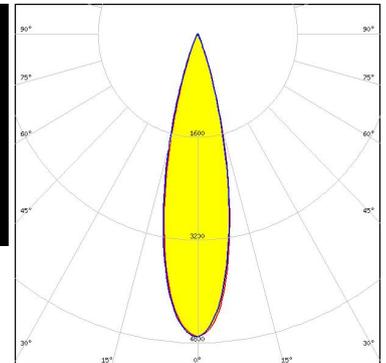


LED Vesta TW 6mm DP  
 FWHM / FWTM 26.0° / 45.0°  
 Efficiency 91 %  
 Peak intensity 3.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 504 Typ L8



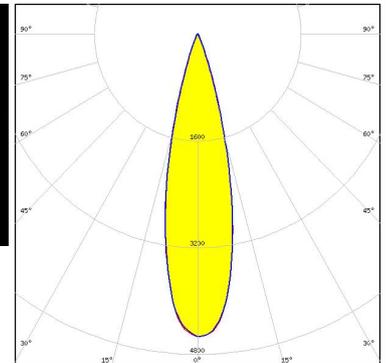
### CITIZEN

LED CLU7A2 (LES 4.2mm)  
 FWHM / FWTM 25.0° / 41.0°  
 Efficiency 94 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

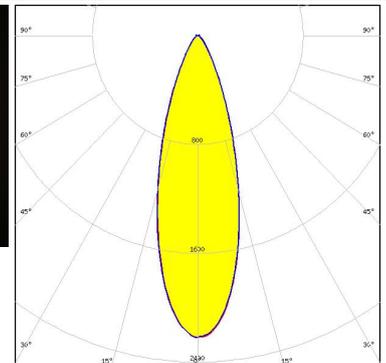
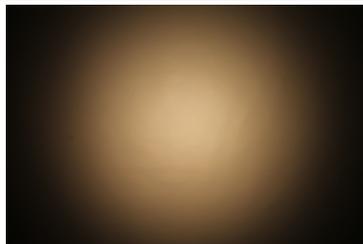


### CITIZEN

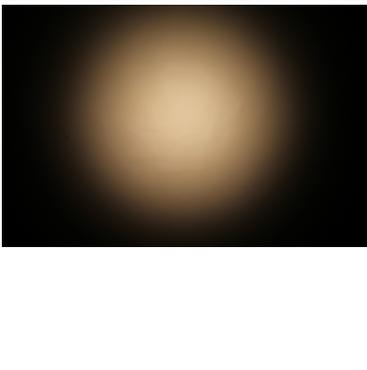
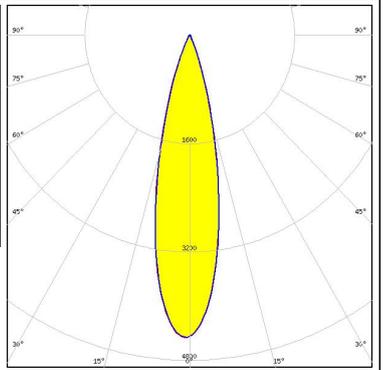
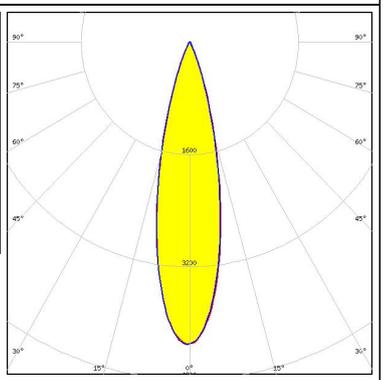
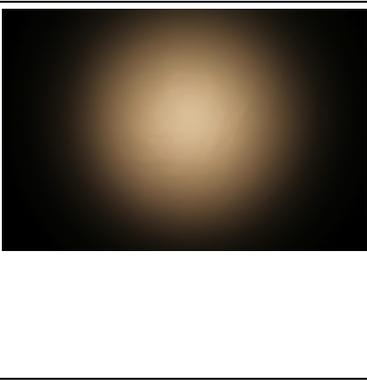
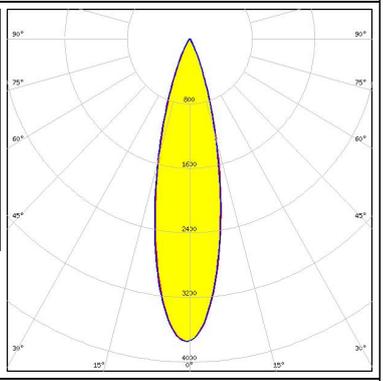
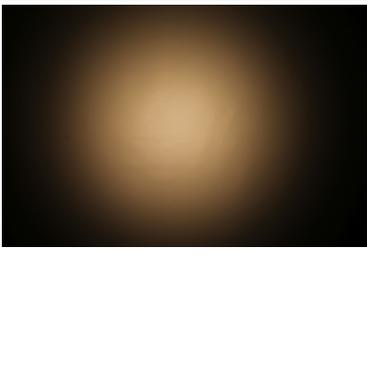
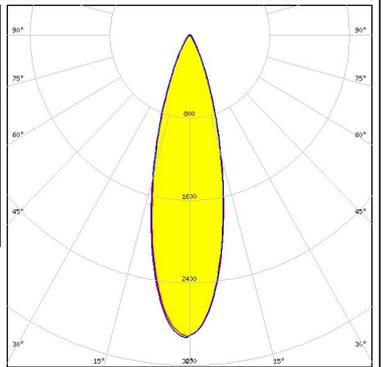
LED CLU7B2  
 FWHM / FWTM 25.0° / 41.0°  
 Efficiency 94 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



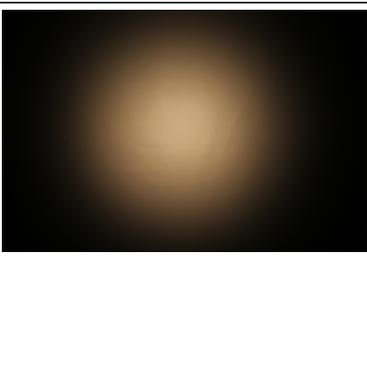
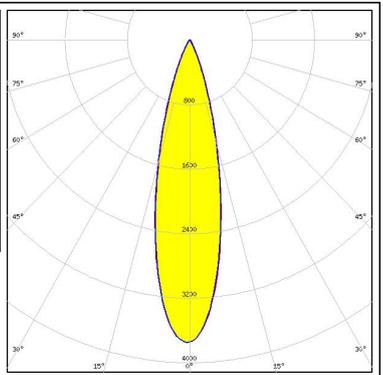
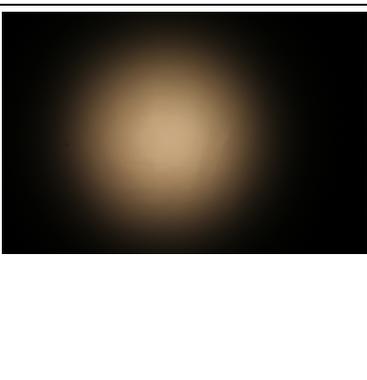
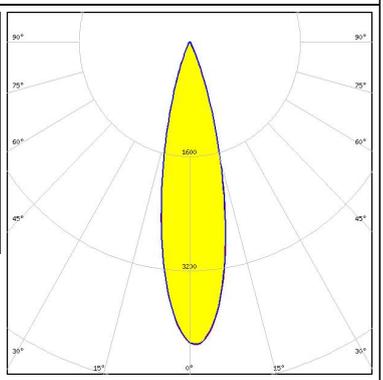
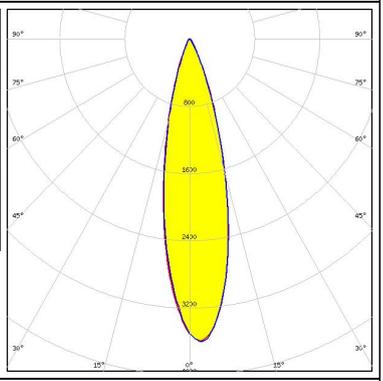
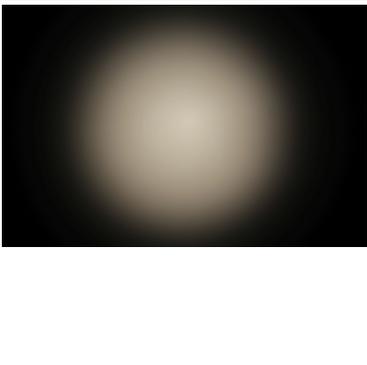
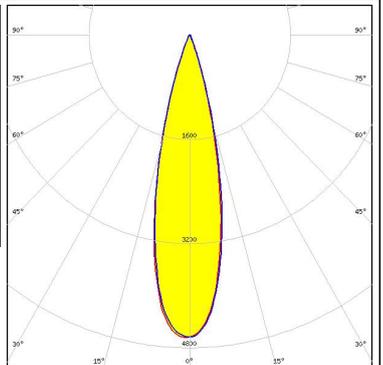
LED LUXEON CX Plus CoB L08 (Gen2)  
 FWHM / FWTM 32.0° / 62.0°  
 Efficiency 92 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 637a Hekla



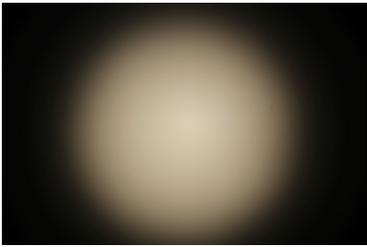
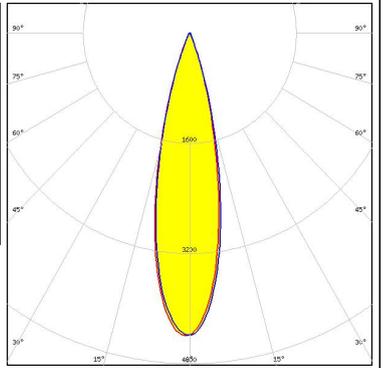
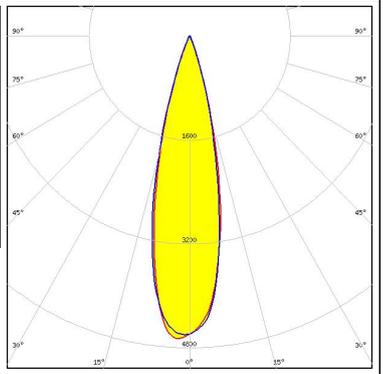
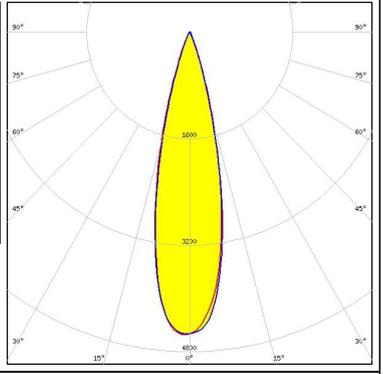
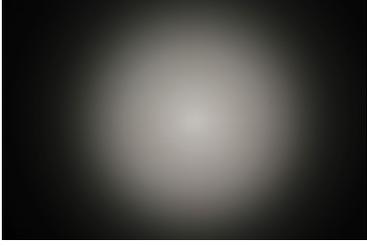
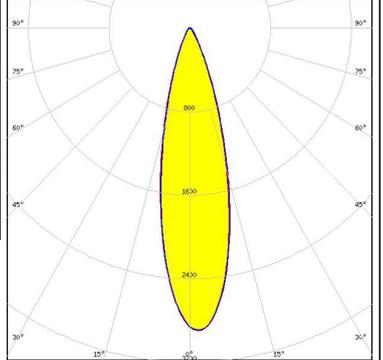
### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 25.0° / 43.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.5 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 S01H6 / HD S02H6</p> <p>FWHM / FWTM 25.0° / 44.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.3 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 25.0° / 48.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.8 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 28.0° / 54.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 2.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		

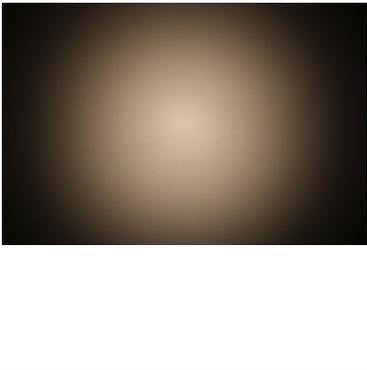
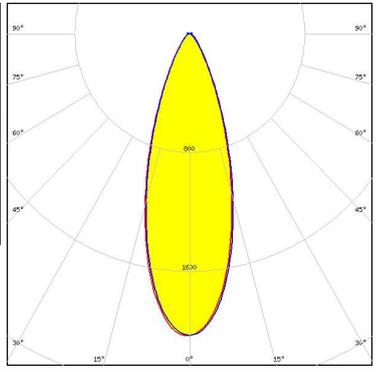
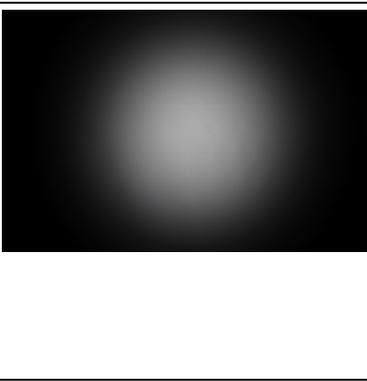
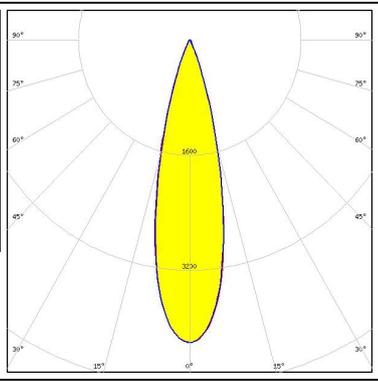
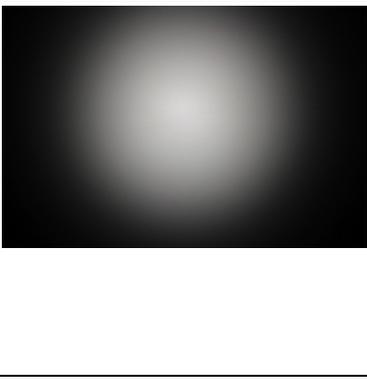
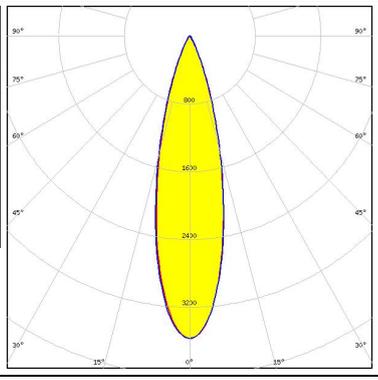
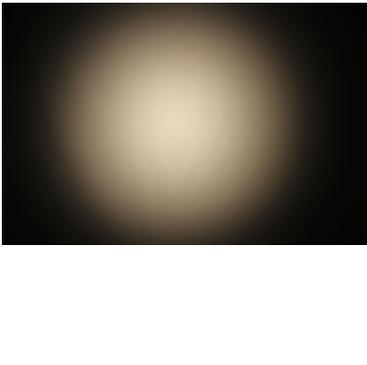
### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 25.0° / 48.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.8 cd/lm</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 25.0° / 44.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.3 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 Fusion 21-up (20x24)</p> <p>FWHM / FWTM 25.0° / 47.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.7 cd/lm</p> <p>LEDs/each optic 21</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8</p>		
<p><b>LUMINUS</b></p> <p>LED CXM-3</p> <p>FWHM / FWTM 25.0° / 41.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CXM-4            FWHM / FWTM 24.0° / 42.0°            Efficiency 92 %            Peak intensity 4.4 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSTAR Stage (S2WN)            FWHM / FWTM 25.0° / 41.0°            Efficiency 94 %            Peak intensity 4.7 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSTAR Stage (S2WP)            FWHM / FWTM 25.0° / 41.0°            Efficiency 94 %            Peak intensity 4.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		
<p><b>SAMSUNG</b></p> <p>LED LC010T (Tunable White)            FWHM / FWTM 26.0° / 51.0°            Efficiency 88 %            Peak intensity 2.9 cd/m            LEDs/each optic 1            Light colour Tunable White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 501 Typ L8</p>		

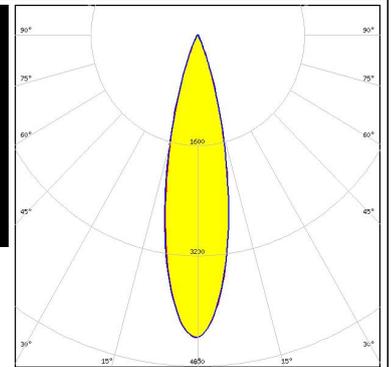
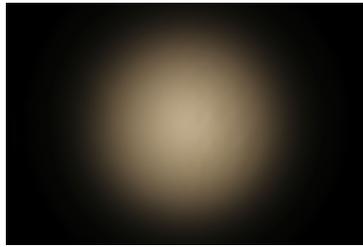
### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 14.5 FWHM / FWTM 34.0° / 64.0° Efficiency 93 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 6 FWHM / FWTM 26.0° / 44.0° Efficiency 95 % Peak intensity 4.2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 9.8 FWHM / FWTM 26.0° / 49.0° Efficiency 95 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G7 LES09 FWHM / FWTM 25.0° / 48.0° Efficiency 94 % Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		

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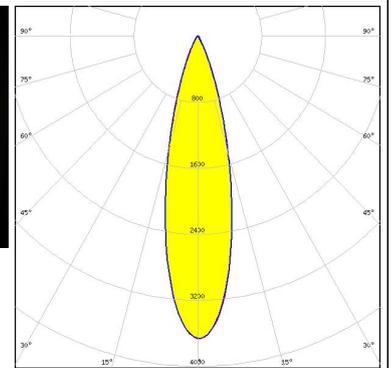
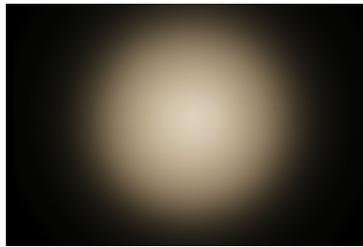
#### XICATO

LED XOB 6 mm  
FWHM / FWTM 24.0° / 44.0°  
Efficiency 94 %  
Peak intensity 4.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



#### XICATO

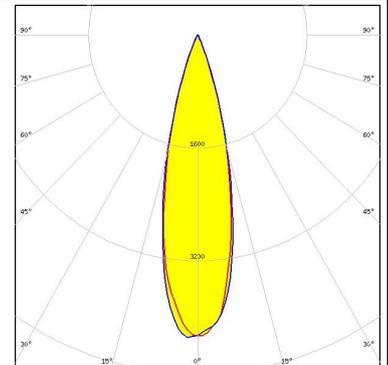
LED XOB 9.8 mm  
FWHM / FWTM 26.0° / 48.0°  
Efficiency 94 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



### PHOTOMETRIC DATA (SIMULATED):

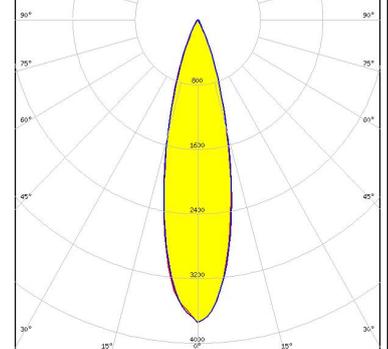
bridgelux.

LED V4 HD  
 FWHM / FWTM 26.0° / 44.0°  
 Efficiency 93 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 FP15490\_HEKLA-A



bridgelux.

LED V9 HD  
 FWHM / FWTM 26.0° / 48.0°  
 Efficiency 93 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

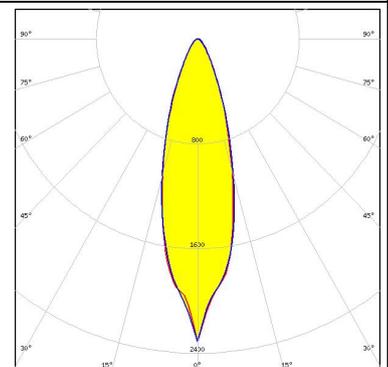


bridgelux.

LED Vero SE 10  
 FWHM / FWTM 26.0° / 48.0°  
 Efficiency 93 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

bridgelux.

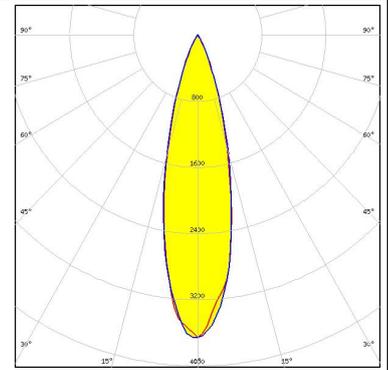
LED Vero SE 13  
 FWHM / FWTM 28.0° / 61.0°  
 Efficiency 88 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



### PHOTOMETRIC DATA (SIMULATED):

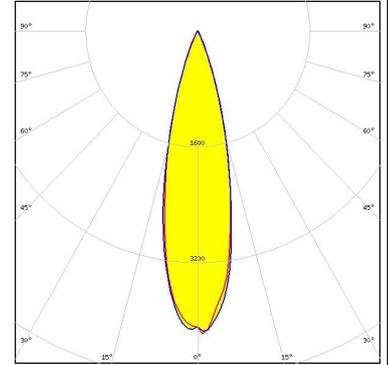
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 26.0° / 49.0°  
 Efficiency 91 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 FP15501\_HEKLA-C



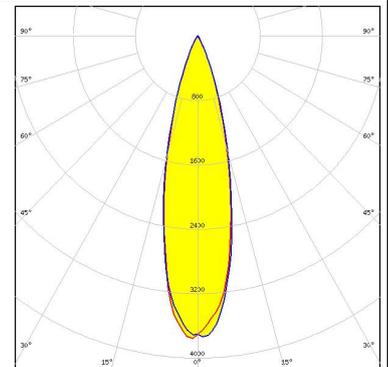
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 26.0° / 45.0°  
 Efficiency 92 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 FP15501\_HEKLA-C



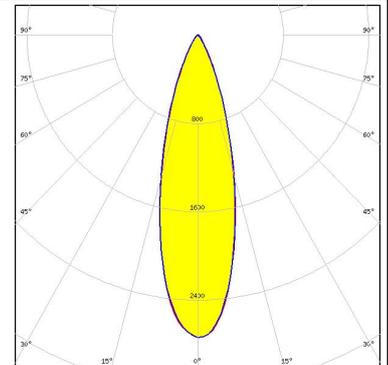
#### CITIZEN

LED CLU710/711  
 FWHM / FWTM 26.0° / 48.0°  
 Efficiency 91 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 FP15949\_HEKLA-I



#### CREE LED

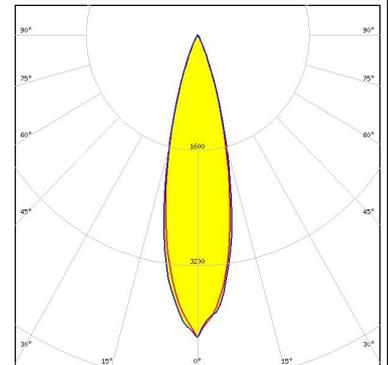
LED CMA1825  
 FWHM / FWTM 30.0° / 56.0°  
 Efficiency 91 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



### PHOTOMETRIC DATA (SIMULATED):

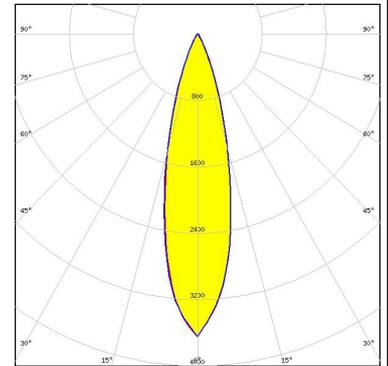
#### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 25.0° / 45.0°  
 Efficiency 91 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 FP15957\_HEKLA-J



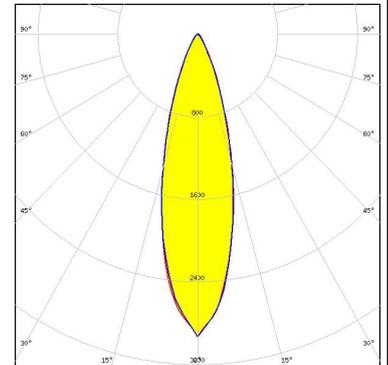
#### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 26.0° / 49.0°  
 Efficiency 92 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



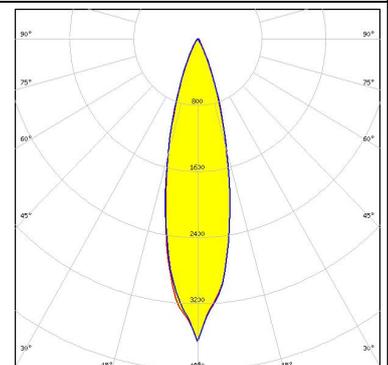
#### CREE LED

LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 28.0° / 55.0°  
 Efficiency 94 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



#### LUMILEDS

LED LUXEON CoB 1202/1203  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 92 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17437\_HEKLA-G2-H



### PHOTOMETRIC DATA (SIMULATED):

#### LUMILEDS

LED LUXEON CoB 1202s  
 FWHM / FWTM 26.0° / 48.0°  
 Efficiency 95 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### LUMILEDS

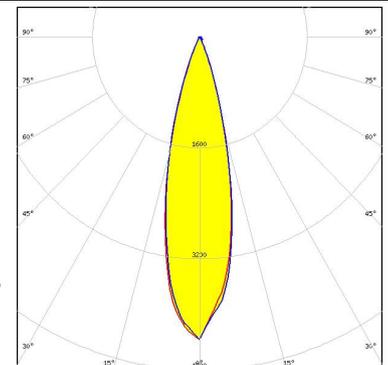
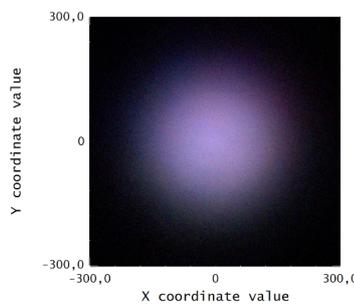
LED LUXEON CoB 1204/1205  
 FWHM / FWTM 30.0° / 58.0°  
 Efficiency 91 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### LUMILEDS

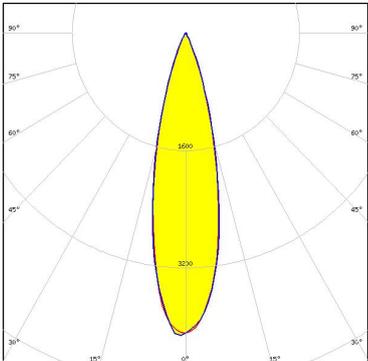
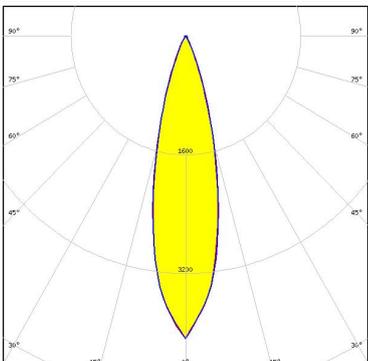
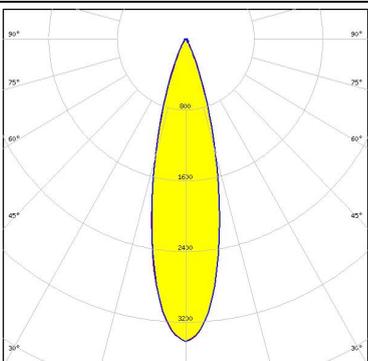
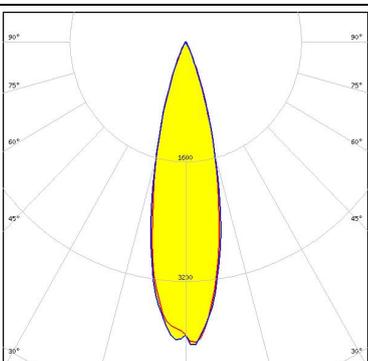
LED LUXEON CoB 1208  
 FWHM / FWTM 32.0° / 60.0°  
 Efficiency 88 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### LUMILEDS

LED LUXEON Rubix (white)  
 FWHM / FWTM 25.0° / 43.0°  
 Efficiency 94 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 4  
 Light colour RGBW  
 Required components:



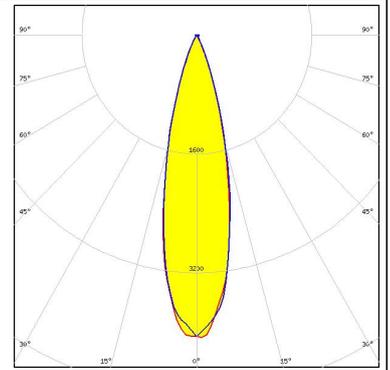
### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED COB S-Type (LES 6)</p> <p>FWHM / FWTM 26.0° / 46.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	
<p><b>NICHIA</b></p> <p>LED COB S-Type (LES 7)</p> <p>FWHM / FWTM 26.0° / 46.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	
<p><b>NICHIA</b></p> <p>LED NFSWE11A</p> <p>FWHM / FWTM 26.0° / 48.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 30</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>	
<p><b>SAMSUNG</b></p> <p>LED LC010C</p> <p>FWHM / FWTM 26.0° / 46.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: FP15947_HEKLA-G</p>	

### PHOTOMETRIC DATA (SIMULATED):

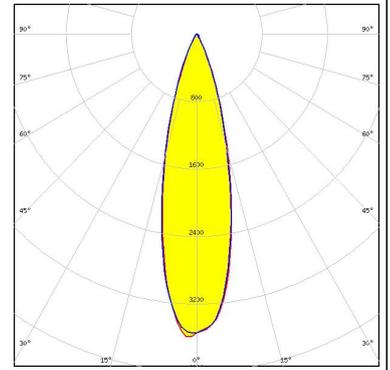
#### SAMSUNG

LED LC020C  
FWHM / FWTM 26.0° / 46.0°  
Efficiency 93 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17438\_HEKLA-G2-I



#### XICATO

LED XTM - 9mm LES  
FWHM / FWTM 26.0° / 49.0°  
Efficiency 93 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C15743\_XTM-ADAPTER-50-B



### 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.

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