

## ILONA-M

~25° wide beam

### TECHNICAL SPECIFICATIONS:

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

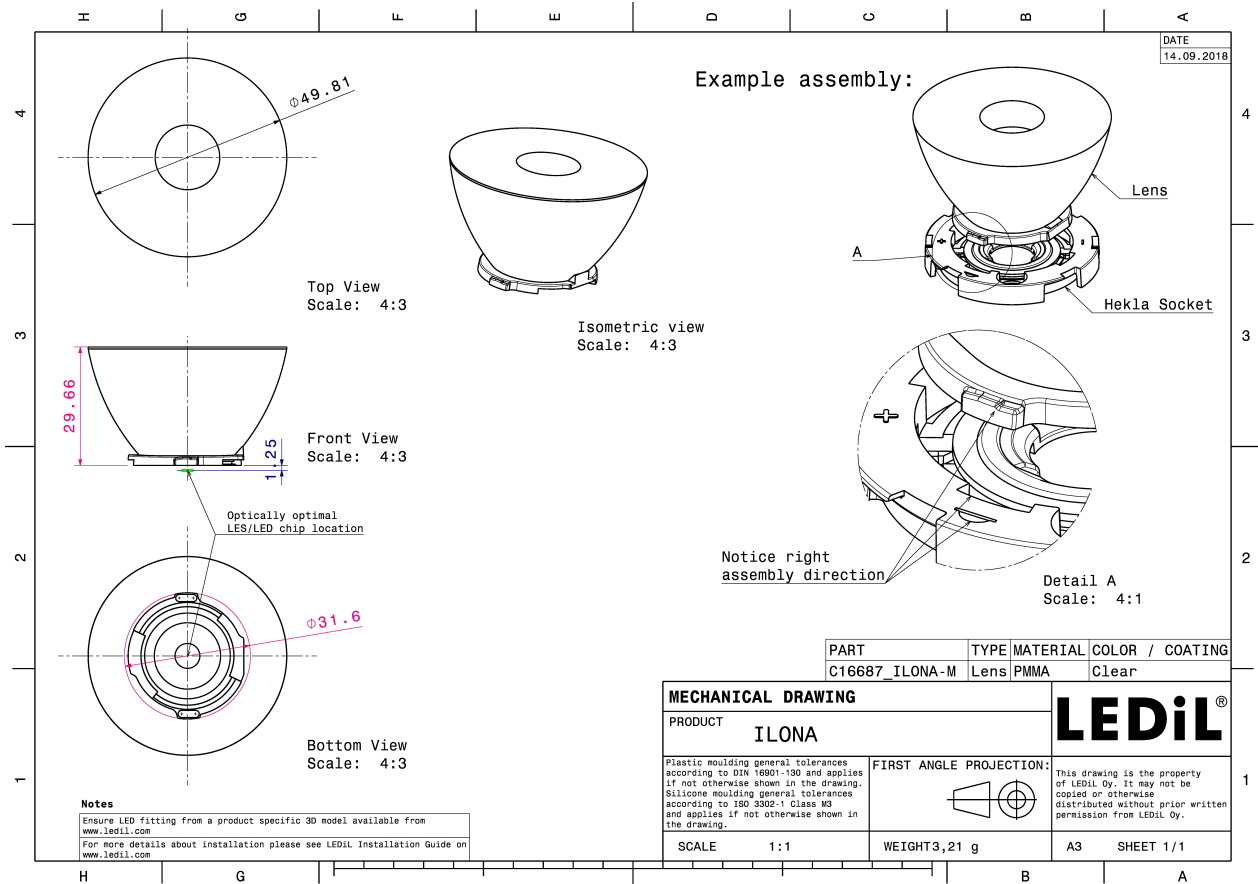
### MATERIAL SPECIFICATIONS:

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



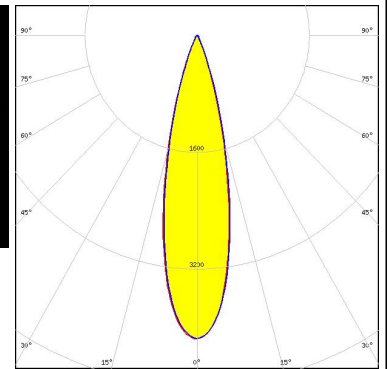


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

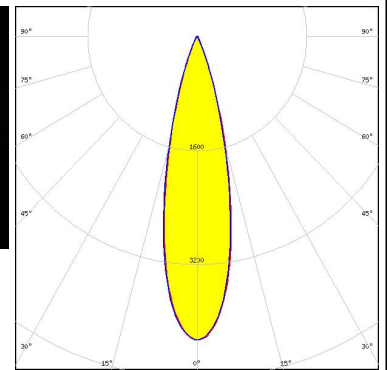
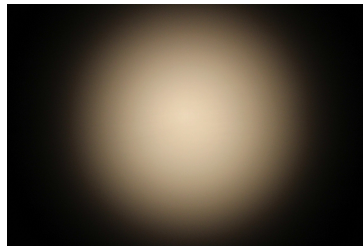
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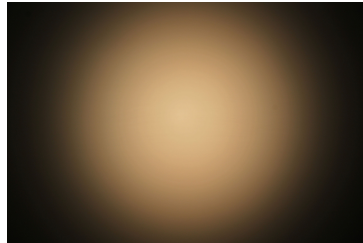
LED V6 HD  
FWHM / FWTM 25.0° / 44.0°  
Efficiency 95 %  
Peak intensity 4.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 634c Hekla



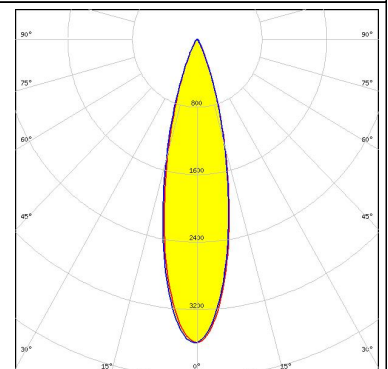
LED V6 HD  
FWHM / FWTM 25.0° / 44.0°  
Efficiency 95 %  
Peak intensity 4.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



LED Vesta DTW 13mm (21W)  
FWHM / FWTM 31.0° / 61.0°  
Efficiency 90 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 491 Typ L8



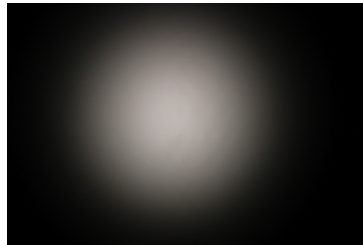
LED Vesta DTW 9mm (4W/6W/12W)  
FWHM / FWTM 25.0° / 48.0°  
Efficiency 93 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 490 Typ L8



### PHOTOMETRIC DATA (MEASURED):

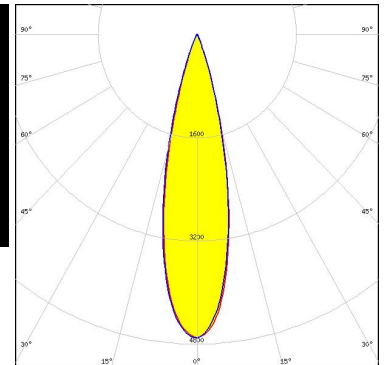


LED Vesta TW 6mm DP  
FWHM / FWTM 26.0° / 45.0°  
Efficiency 91 %  
Peak intensity 3.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 504 Typ L8



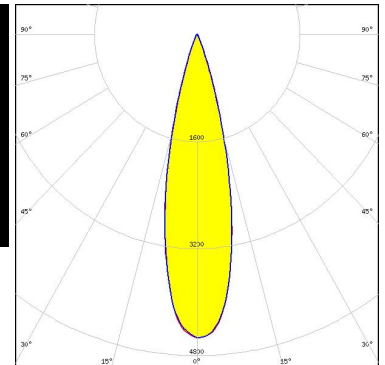
### CITIZEN

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

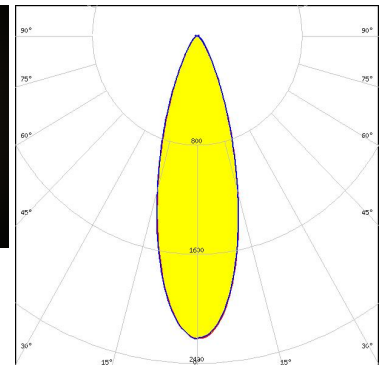
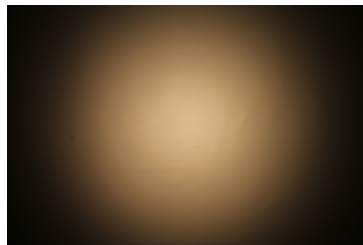


### CITIZEN

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

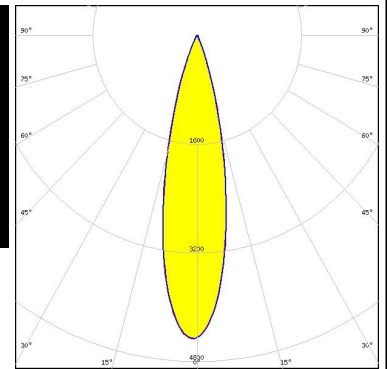
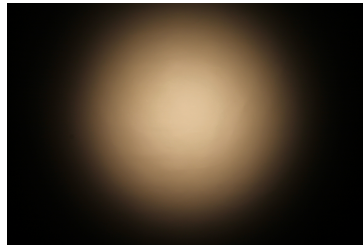




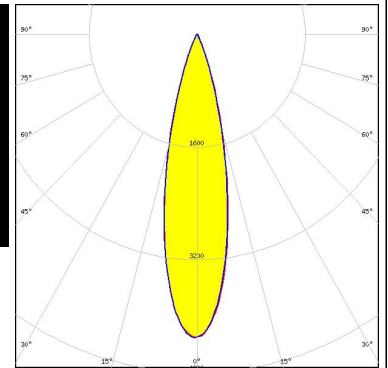
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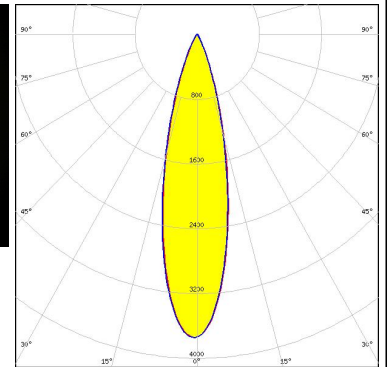
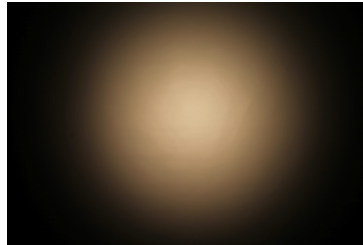
LED LUXEON CX Plus CoB - HD S01H4  
 FWHM / FWTM 25.0° / 43.0°  
 Efficiency 94 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



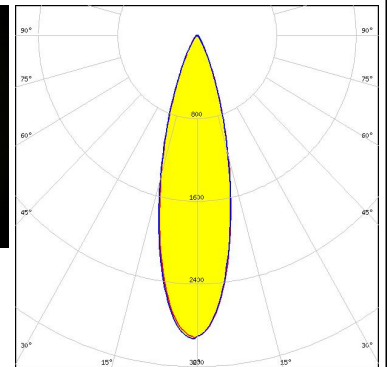
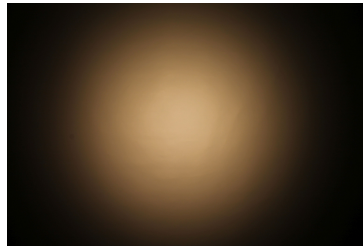
LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6  
 FWHM / FWTM 25.0° / 44.0°  
 Efficiency 94 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S04H9  
 FWHM / FWTM 25.0° / 48.0°  
 Efficiency 94 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



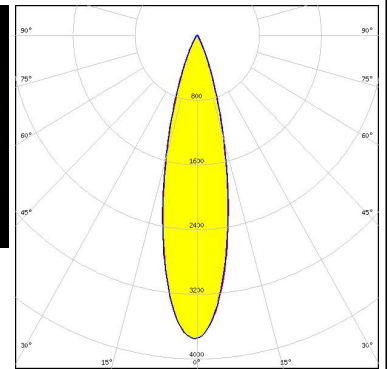
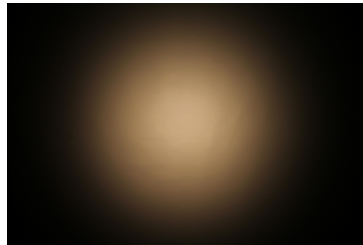
LED LUXEON CX Plus CoB L04 / L05 (Gen2)  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 93 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 637a Hekla



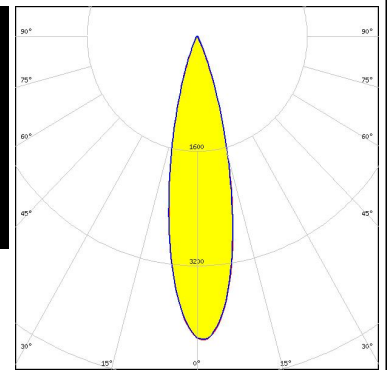
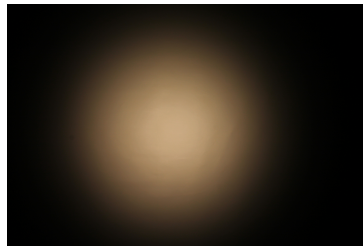
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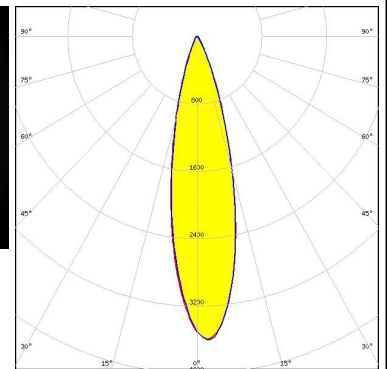
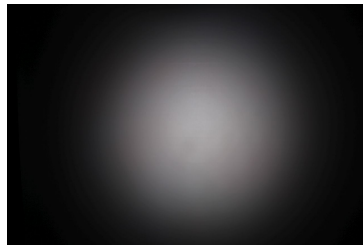
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
 FWHM / FWTM 25.0° / 48.0°  
 Efficiency 94 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 641a Hekla



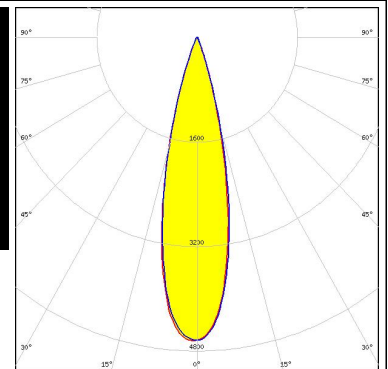
LED LUXEON CX Plus CoB S01 (Gen2)  
 FWHM / FWTM 25.0° / 44.0°  
 Efficiency 94 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



LED LUXEON Fusion 21-up (20x24)  
 FWHM / FWTM 25.0° / 47.0°  
 Efficiency 94 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 21  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 442 Typ L8



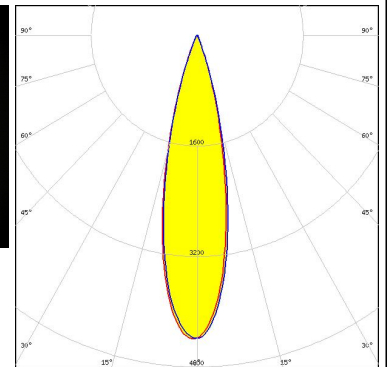
LED CXM-3  
 FWHM / FWTM 25.0° / 41.0°  
 Efficiency 94 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



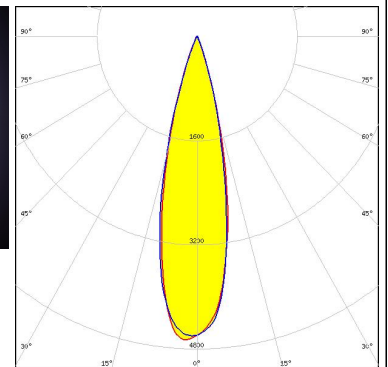
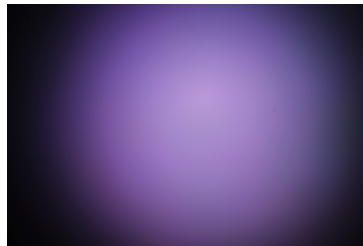
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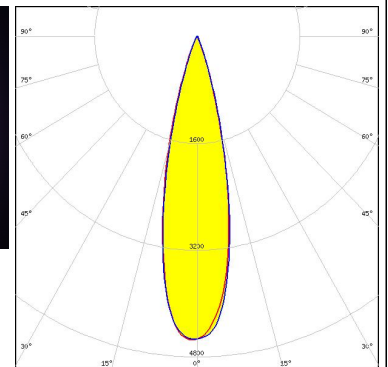
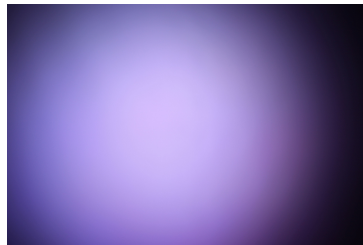
LED CXM-4  
FWHM / FWTM 24.0° / 42.0°  
Efficiency 92 %  
Peak intensity 4.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



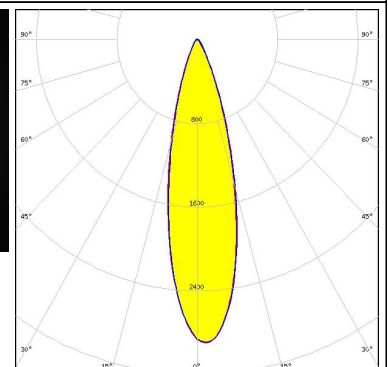
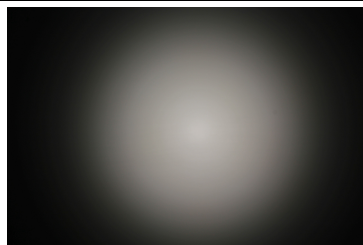
LED OSTAR Stage (S2WN)  
FWHM / FWTM 25.0° / 41.0°  
Efficiency 94 %  
Peak intensity 4.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



LED OSTAR Stage (S2WP)  
FWHM / FWTM 25.0° / 41.0°  
Efficiency 94 %  
Peak intensity 4.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



LED LC010T (Tunable White)  
FWHM / FWTM 26.0° / 51.0°  
Efficiency 88 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 501 Typ L8



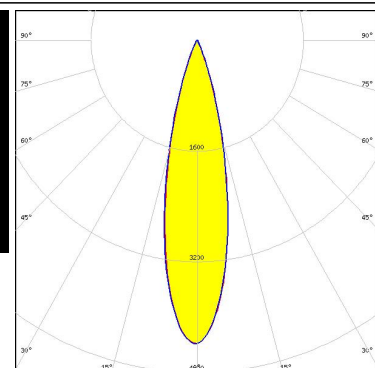
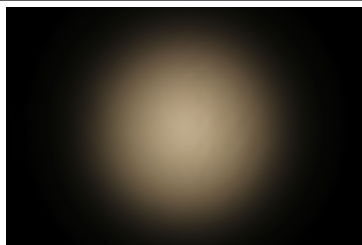
### PHOTOMETRIC DATA (MEASURED):

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

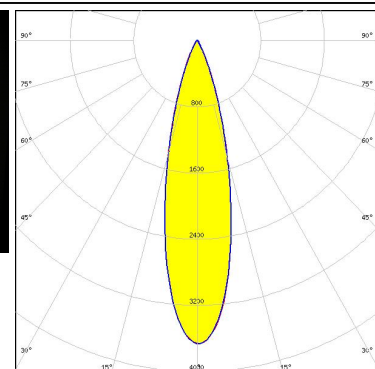
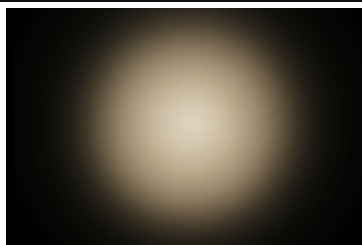
### XICATO

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

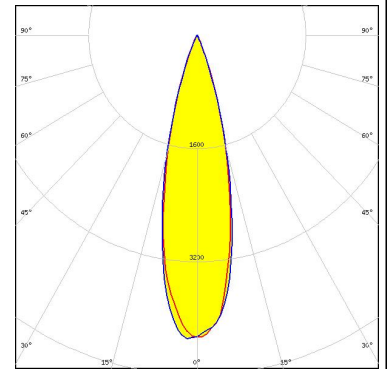




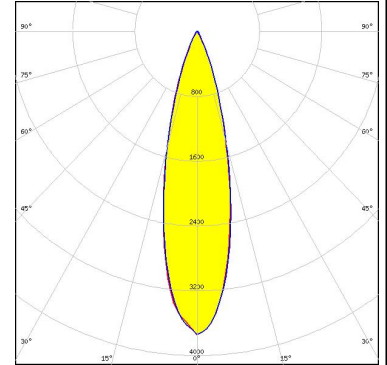
### PHOTOMETRIC DATA (SIMULATED):



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



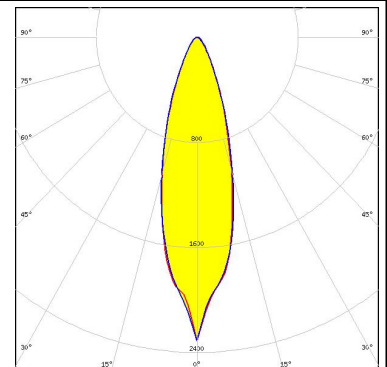
LED V9 HD  
FWHM / FWTM 26.0° / 48.0°  
Efficiency 93 %  
Peak intensity 3.7 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



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



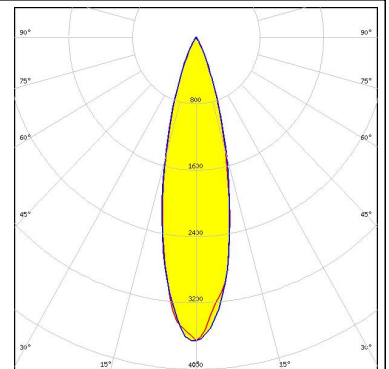
LED Vero SE 13  
FWHM / FWTM 28.0° / 61.0°  
Efficiency 88 %  
Peak intensity 2.3 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K



### PHOTOMETRIC DATA (SIMULATED):

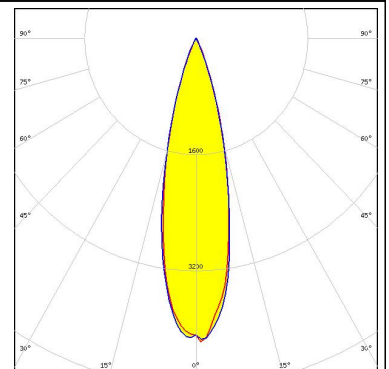
#### CITIZEN

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



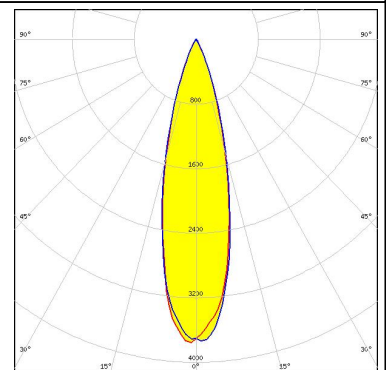
#### CITIZEN

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



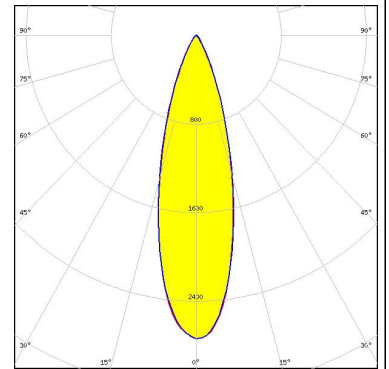
#### CITIZEN

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

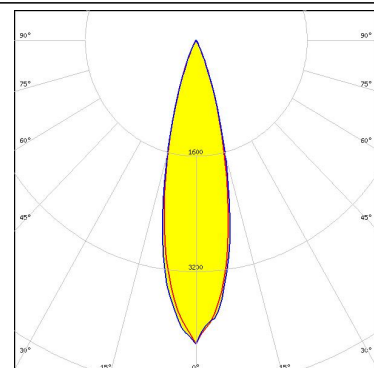




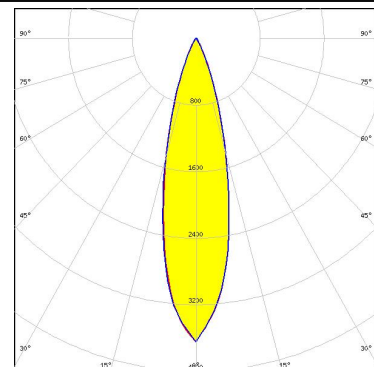
### PHOTOMETRIC DATA (SIMULATED):



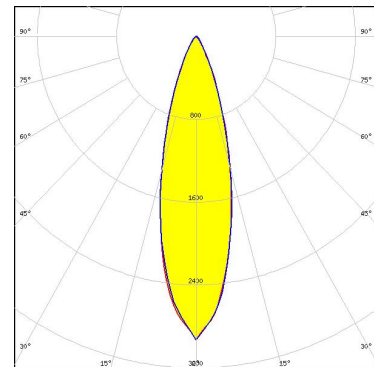
LED CXA/B 13xx  
FWHM / FWTM 25.0° / 45.0°  
Efficiency 91 %  
Peak intensity 4.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
FP15957\_HEKLA-J



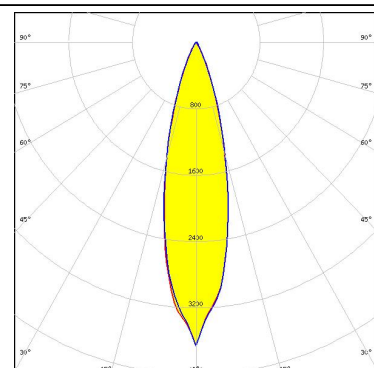
LED CXA/B 15xx  
FWHM / FWTM 26.0° / 49.0°  
Efficiency 92 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15256\_HEKLA-SOCKET-D



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



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

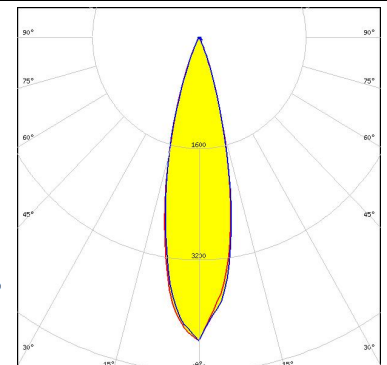
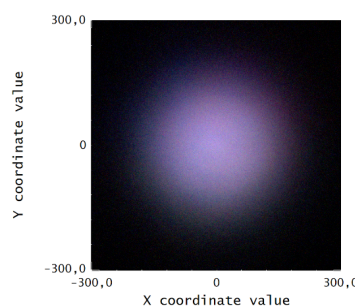
LED	LUXEON CoB 1204/1205
FWHM / FWTM	30.0° / 58.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

#### 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

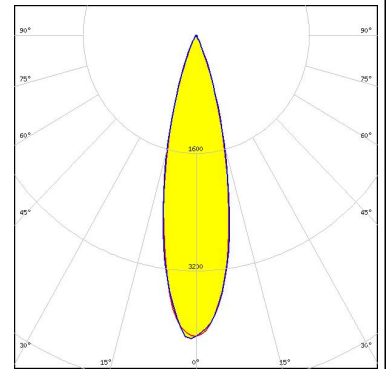
LED	LUXEON Rubix (white)
FWHM / FWTM	25.0° / 43.0°
Efficiency	94 %
Peak intensity	4.4 cd/lm
LEDs/each optic	4
Light colour	RGBW
Required components:	



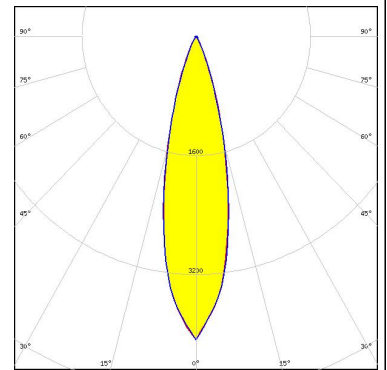
### PHOTOMETRIC DATA (SIMULATED):



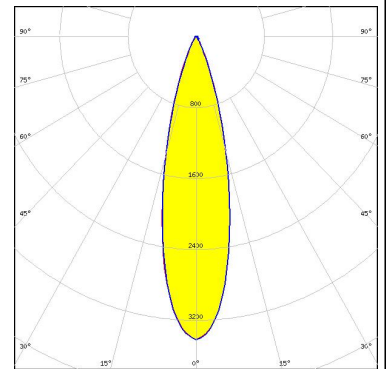
LED COB S-Type (LES 6)  
FWHM / FWTM 26.0° / 46.0°  
Efficiency 92 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



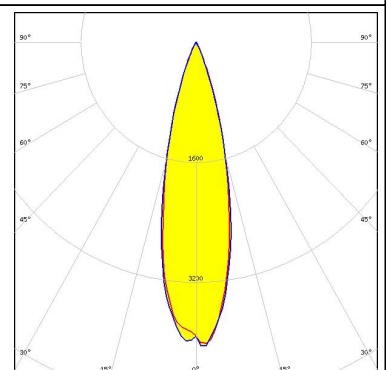
LED COB S-Type (LES 7)  
FWHM / FWTM 26.0° / 46.0°  
Efficiency 94 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



LED NFSWE11A  
FWHM / FWTM 26.0° / 48.0°  
Efficiency 87 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 30  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K



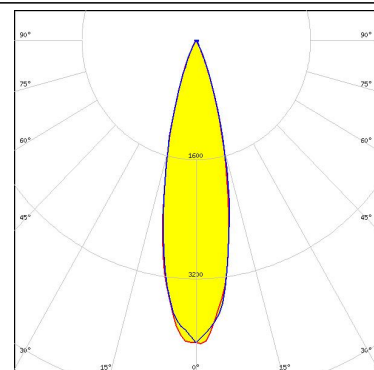
LED LC010C  
FWHM / FWTM 26.0° / 46.0°  
Efficiency 92 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
FP15947\_HEKLA-G



### PHOTOMETRIC DATA (SIMULATED):

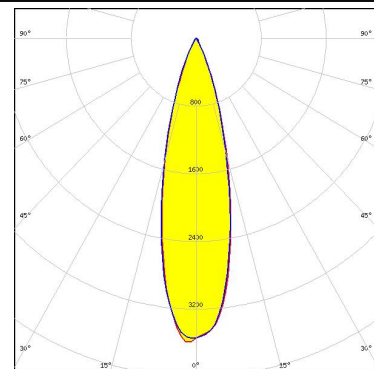
#### SAMSUNG

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.

### 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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