

## ILONA-RS

~10° spot beam

### SPECIFICATION:

Dimensions	Ø 49.8 mm
Height	29.3 mm
Fastening	socket
ROHS compliant	yes ⓘ

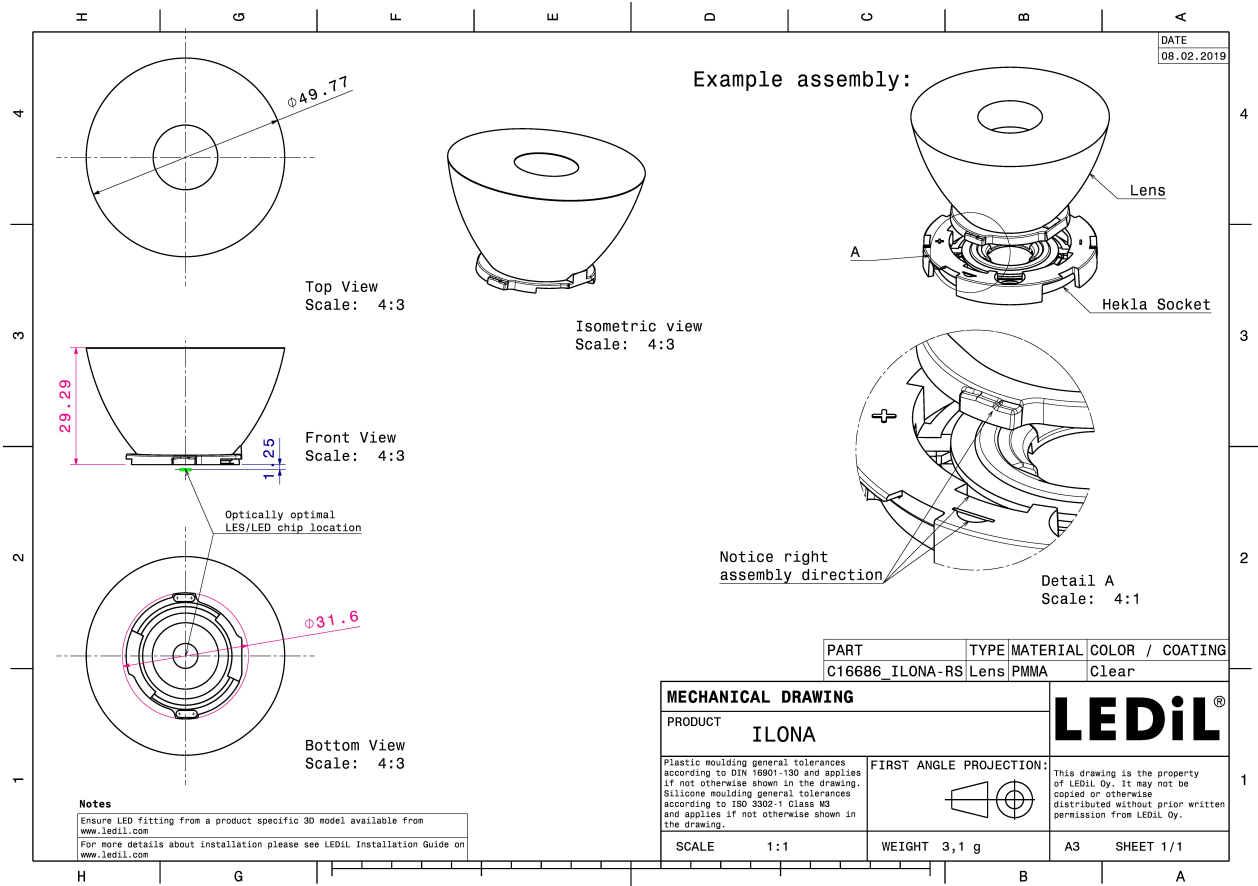
### MATERIALS:

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

### ORDERING INFORMATION:



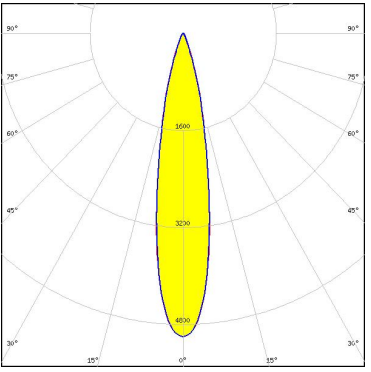


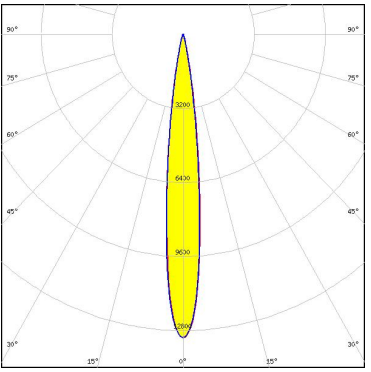


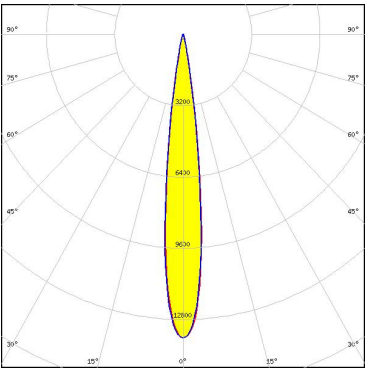


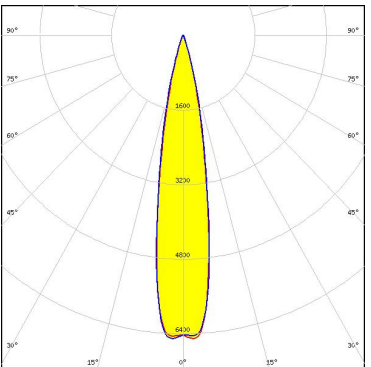
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16686_ILONA-RS » Box size: 480 x 280 x 300 mm	264	99	33	9.6





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

#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V11 HD Gen 8</p> <p>FWHM / FWTM 20.0° / 40.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 633d Hekla</p>		
<p></p> <p>LED V6 HD Gen 7</p> <p>FWHM / FWTM 13.0° / 24.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 13.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p></p> <p>LED V6 HD Gen 7</p> <p>FWHM / FWTM 14.0° / 23.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 13.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED Vesta DTW 9mm (4W/6W/12W)</p> <p>FWHM / FWTM 19.0° / 34.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 6.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 490 Typ L8</p>		

#### OPTICAL RESULTS (MEASURED):

**bridgelux.**

LED Vesta TW 6mm DP  
 FWHM / FWTM 14.0° / 25.0°  
 Efficiency 91 %  
 Peak intensity 12.2 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 504 Typ L8




**CITIZEN**

LED CLU700/701/702/703  
 FWHM / FWTM 12.0° / 22.0°  
 Efficiency 96 %  
 Peak intensity 15.3 cd/lm  
 LEDs/each optic 1  
 Light colour White

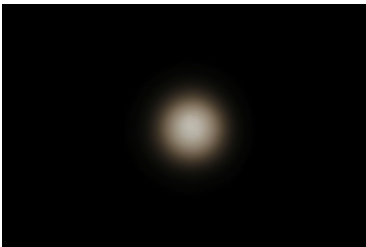
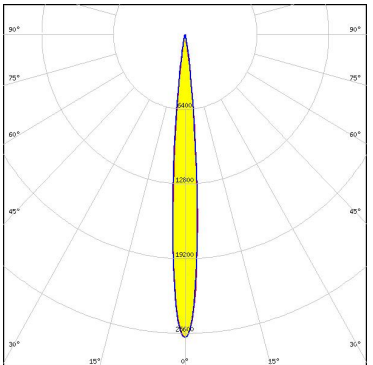
Required components:  
 F15255\_HEKLA-SOCKET-C




**CITIZEN**

LED CLU7A2/7A3  
 FWHM / FWTM 9.0° / 17.0°  
 Efficiency 94 %  
 Peak intensity 26 cd/lm  
 LEDs/each optic 1  
 Light colour White

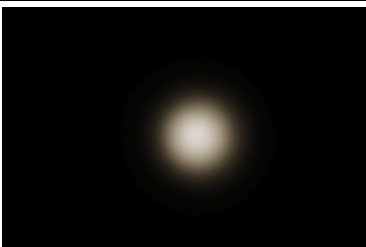
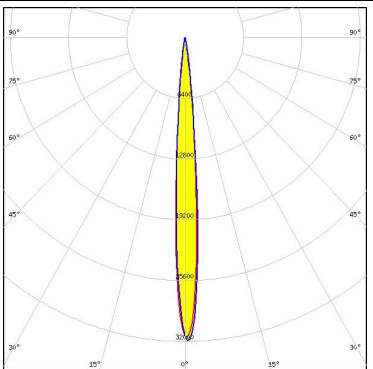
Required components:  
 F15255\_HEKLA-SOCKET-C

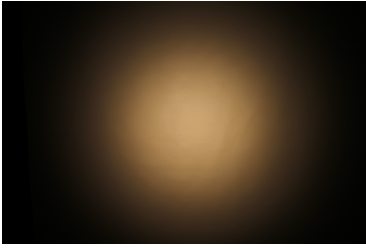
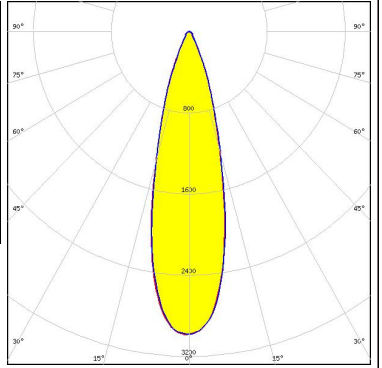
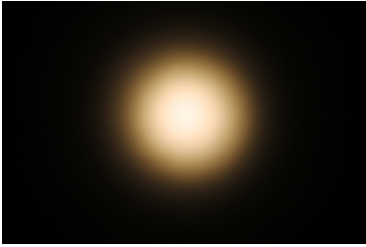
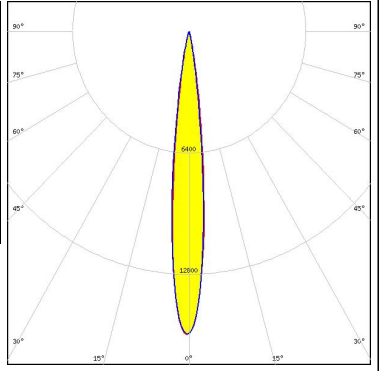

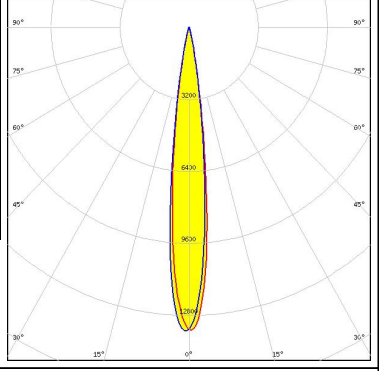

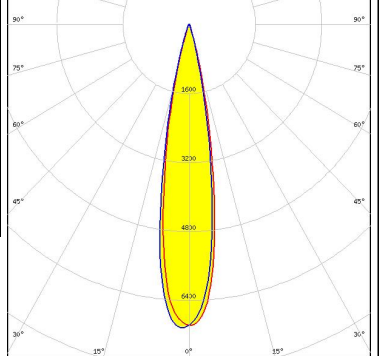
**CITIZEN**

LED CLU7B2  
 FWHM / FWTM 8.0° / 16.0°  
 Efficiency 94 %  
 Peak intensity 32.2 cd/lm  
 LEDs/each optic 1  
 Light colour White

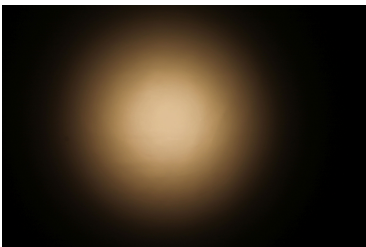
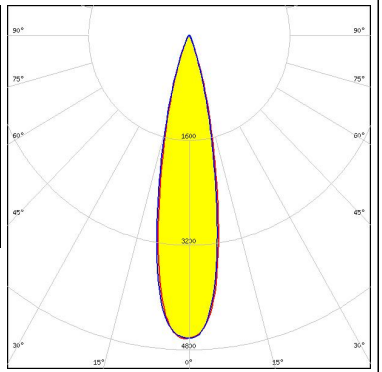
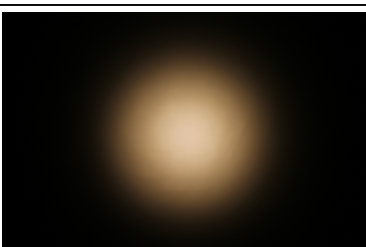
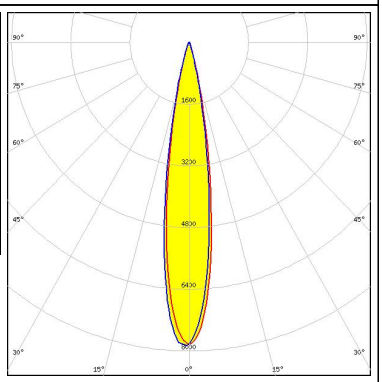
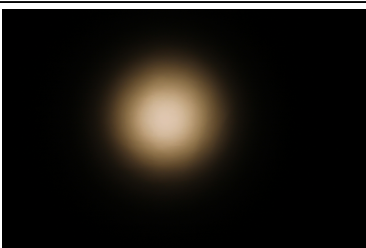
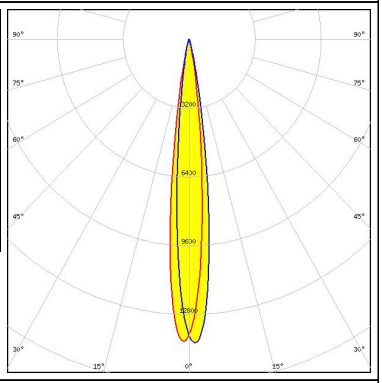

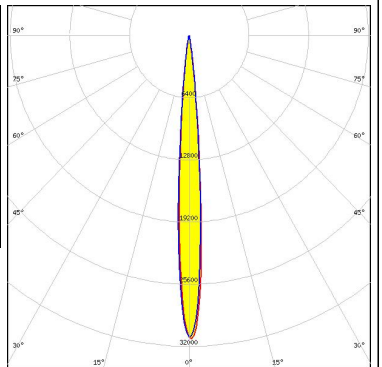
Required components:  
 F15255\_HEKLA-SOCKET-C

#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB L08 (Gen2)</p> <p>FWHM / FWTM 28.0° / 52.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 12.0° / 22.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 16 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 13.0° / 24.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 13.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 19.0° / 33.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		

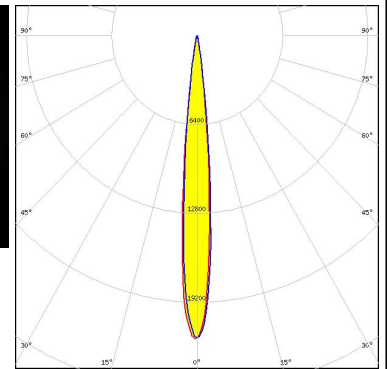
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 23.0° / 41.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 17.0° / 32.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 7.9 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 12.0° / 23.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 14.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p><b>LUMINUS</b></p> <p>LED CXM-3</p> <p>FWHM / FWTM 9.0° / 16.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 31.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

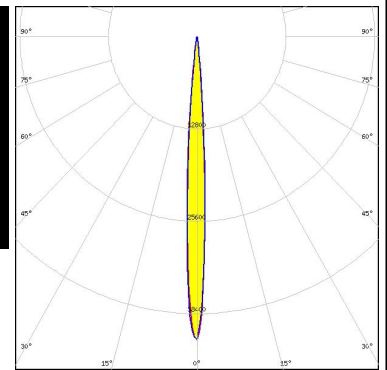
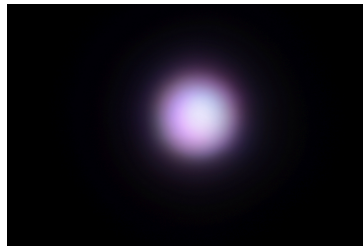
### OPTICAL RESULTS (MEASURED):



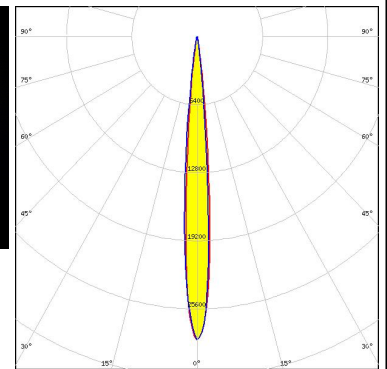
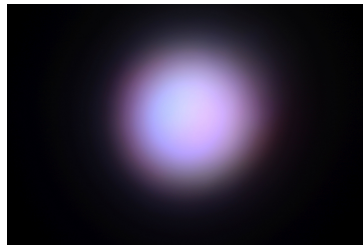
LED CXM-4  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 94 %  
 Peak intensity 21.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



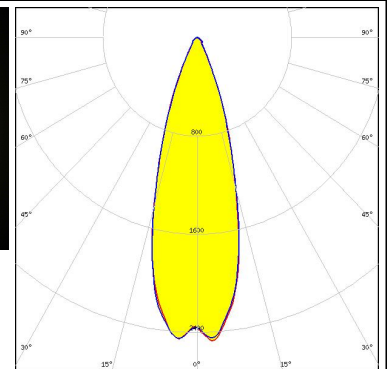
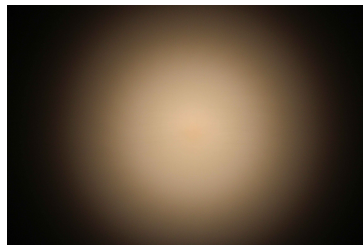
LED OSTAR Stage (S2WN)  
 FWHM / FWTM 7.0° / 13.0°  
 Efficiency 94 %  
 Peak intensity 42.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I




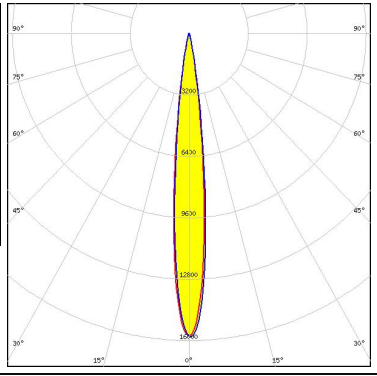

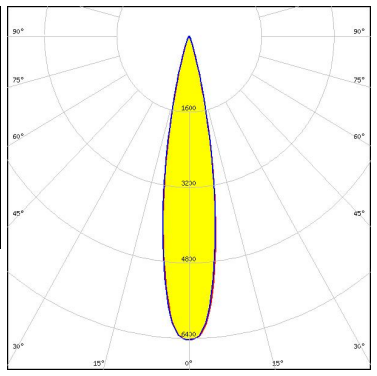

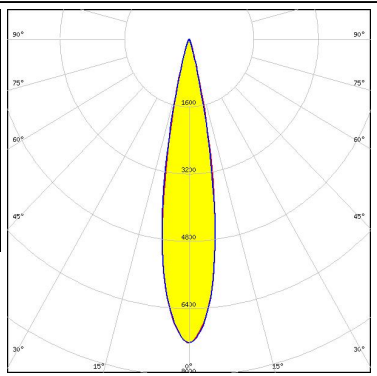

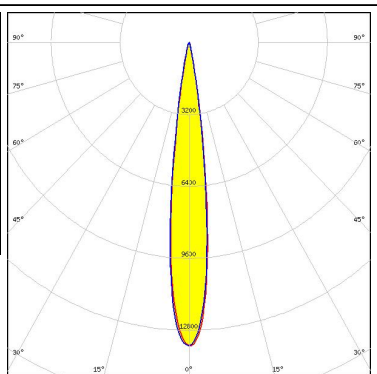
LED OSTAR Stage (S2WP)  
 FWHM / FWTM 9.0° / 16.0°  
 Efficiency 94 %  
 Peak intensity 29.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



LED MJT COB LES 14.5  
 FWHM / FWTM 31.0° / 55.0°  
 Efficiency 94 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



### OPTICAL RESULTS (MEASURED):

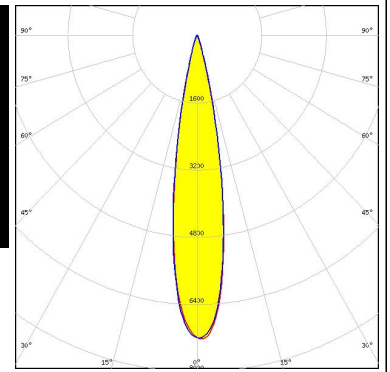
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 6 FWHM / FWTM 12.0° / 22.0° Efficiency 95 % Peak intensity 15.8 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 9.8 FWHM / FWTM 20.0° / 34.0° Efficiency 95 % Peak intensity 6.4 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 20.0° / 32.0° Efficiency 95 % Peak intensity 7.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p><b>XICATO</b></p> <p>LED XOB 6 mm FWHM / FWTM 14.0° / 23.0° Efficiency 93 % Peak intensity 13.5 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		




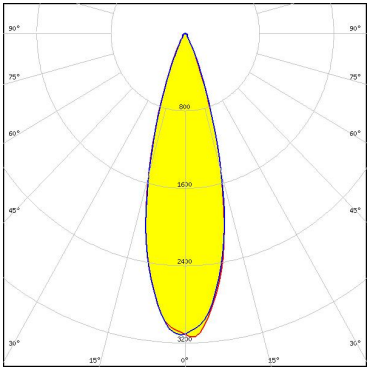

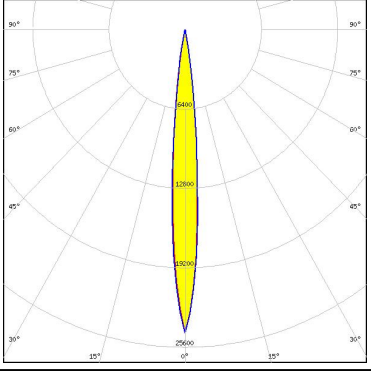

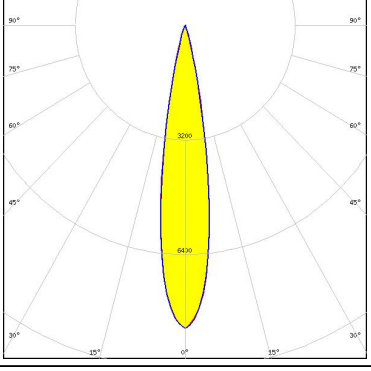

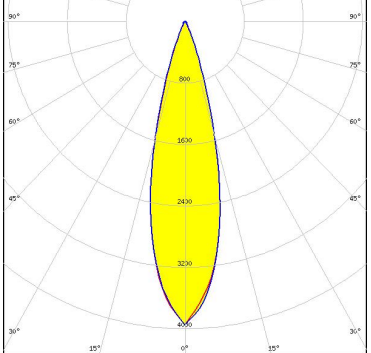
### OPTICAL RESULTS (MEASURED):

#### XICATO

LED	XOB 9.8 mm
FWHM / FWTM	19.0° / 32.0°
Efficiency	94 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



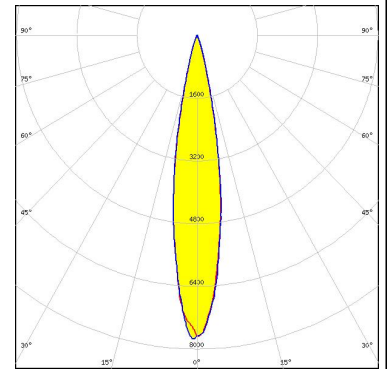
### OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V13 Gen 8            FWHM / FWTM 30.0° / 50.0°            Efficiency 93 %            Peak intensity 3.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>	
<p></p> <p>LED V4 HD Gen 7            FWHM / FWTM 10.0° / 20.0°            Efficiency 95 %            Peak intensity 24.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V9 HD Gen7            FWHM / FWTM 18.0° / 30.0°            Efficiency 94 %            Peak intensity 8.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>	
<p></p> <p>LED Vero SE 10            FWHM / FWTM 16.0° / 34.0°            Efficiency 94 %            Peak intensity 7.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

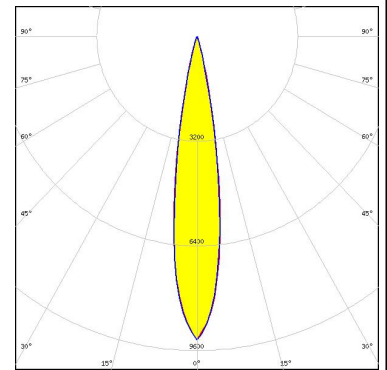
### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 18.0° / 33.0°  
 Efficiency 92 %  
 Peak intensity 7.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



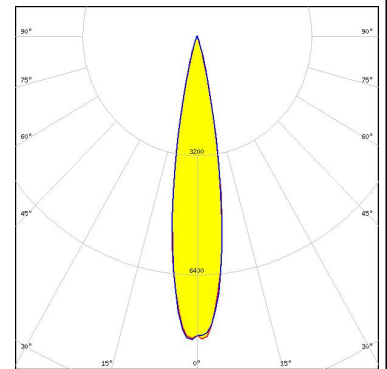
### CITIZEN

LED CLU710/711  
 FWHM / FWTM 17.0° / 30.0°  
 Efficiency 92 %  
 Peak intensity 9.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



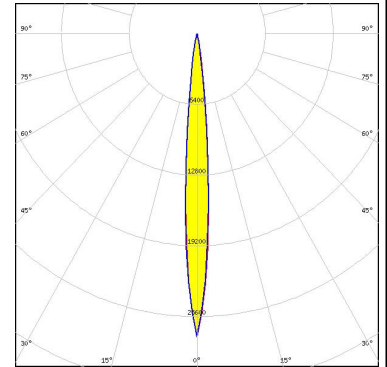
### CITIZEN

LED CLU712/713  
 FWHM / FWTM 18.0° / 31.0°  
 Efficiency 94 %  
 Peak intensity 8.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



### CREE LED

LED CHA0304  
 FWHM / FWTM 9.0° / 18.0°  
 Efficiency 95 %  
 Peak intensity 27.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



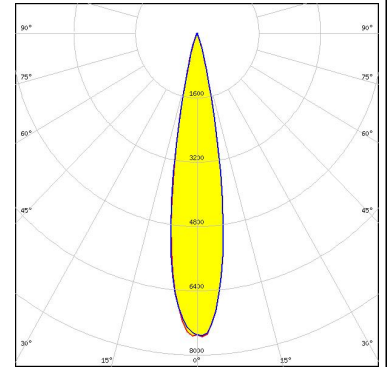
### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED: CHA0410            FWHM / FWTM: 10.0° / 20.0°            Efficiency: 95 %            Peak intensity: 21.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F17435_HEKLA-G2-C</p>	
<p><b>CREE</b> LED</p> <p>LED: CMA1303            FWHM / FWTM: 10.0° / 20.0°            Efficiency: 95 %            Peak intensity: 22.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F17439_HEKLA-G2-J</p>	
<p><b>CREE</b> LED</p> <p>LED: CMA1306            FWHM / FWTM: 12.0° / 24.0°            Efficiency: 95 %            Peak intensity: 15.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F15956_HEKLA-SOCKET-J</p>	
<p><b>CREE</b> LED</p> <p>LED: CXA/B 13xx            FWHM / FWTM: 13.0° / 24.0°            Efficiency: 93 %            Peak intensity: 15 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F15956_HEKLA-SOCKET-J</p>	

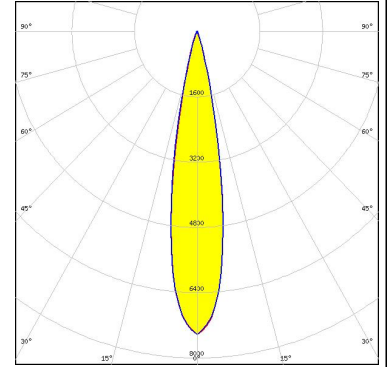
### OPTICAL RESULTS (SIMULATED):



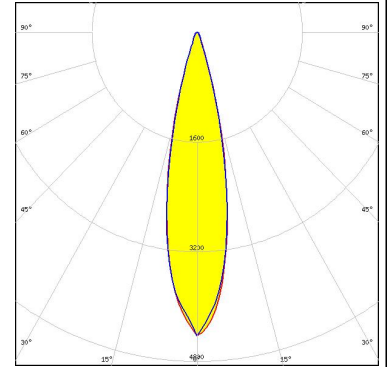
LED CXA/B 15xx  
 FWHM / FWTM 19.0° / 32.0°  
 Efficiency 93 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



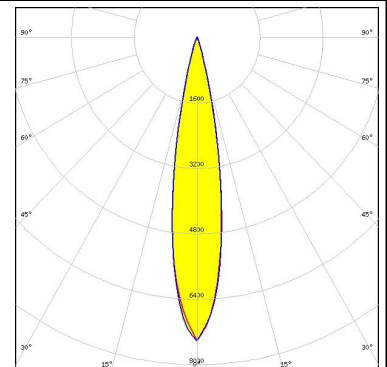
LED CXA/B 15xx  
 FWHM / FWTM 20.0° / 32.0°  
 Efficiency 92 %  
 Peak intensity 7.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17436\_HEKLA-G2-D



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 23.0° / 40.0°  
 Efficiency 93 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



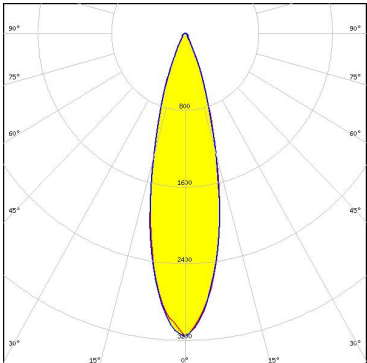
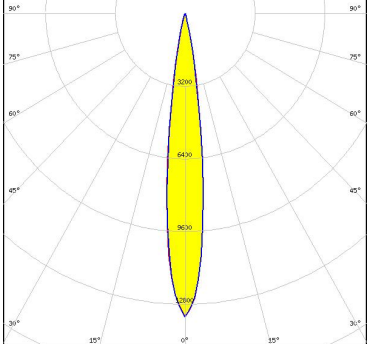
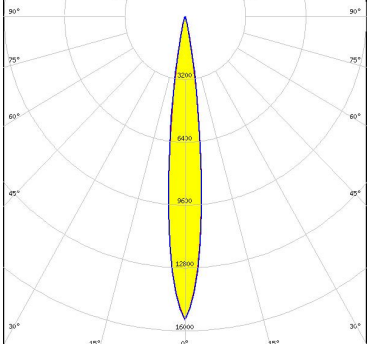
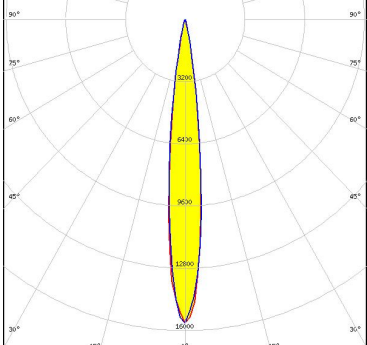
LED LUXEON CoB 1202/1203  
 FWHM / FWTM 18.0° / 33.0°  
 Efficiency 93 %  
 Peak intensity 7.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17437\_HEKLA-G2-H



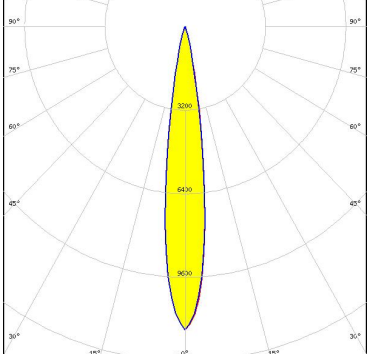
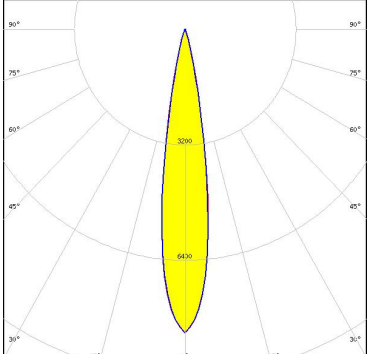
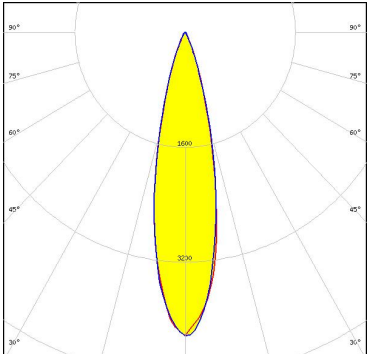
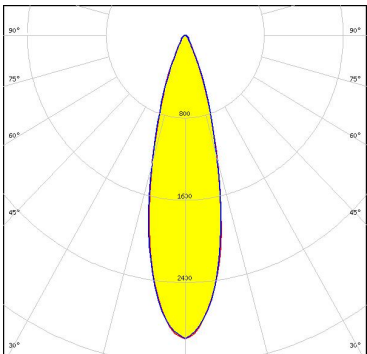
### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 15.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204/1205</p> <p>FWHM / FWTM 26.0° / 44.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204HD</p> <p>FWHM / FWTM 20.0° / 32.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 7.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1205HD</p> <p>FWHM / FWTM 24.0° / 39.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>	

### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM / FWTM 27.0° / 50.0°            Efficiency 91 %            Peak intensity 3.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>	
<p><b>LUMINUS</b></p> <p>LED CxM-6 (13.5x13.5)            FWHM / FWTM 14.0° / 25.0°            Efficiency 94 %            Peak intensity 13.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>	
<p><b>NICHIA</b></p> <p>LED COB S-Type (LES 6)            FWHM / FWTM 12.0° / 24.0°            Efficiency 93 %            Peak intensity 15.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15848_HEKLA-SOCKET-G</p>	
<p><b>NICHIA</b></p> <p>LED COB S-Type (LES 6)            FWHM / FWTM 12.0° / 24.0°            Efficiency 93 %            Peak intensity 15.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15848_HEKLA-SOCKET-G</p>	

### OPTICAL RESULTS (SIMULATED):

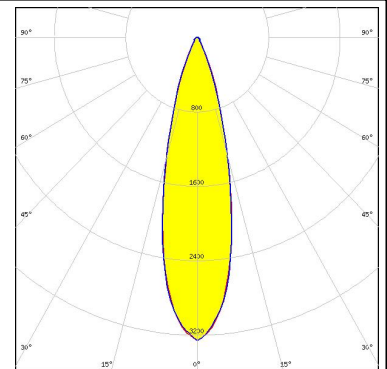
<p><b>NICHIA</b></p> <p>LED COB S-Type (LES 7)</p> <p>FWHM / FWTM 16.0° / 26.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 11.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	
<p><b>NICHIA</b></p> <p>LED NFSWE11A</p> <p>FWHM / FWTM 18.0° / 30.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 8.4 cd/lm</p> <p>LEDs/each optic 30</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>	
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L13 CoB</p> <p>FWHM / FWTM 24.0° / 44.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 632a Hekla XL</p>	
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L15 CoB</p> <p>FWHM / FWTM 28.0° / 52.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 632a Hekla XL</p>	



### OPTICAL RESULTS (SIMULATED):

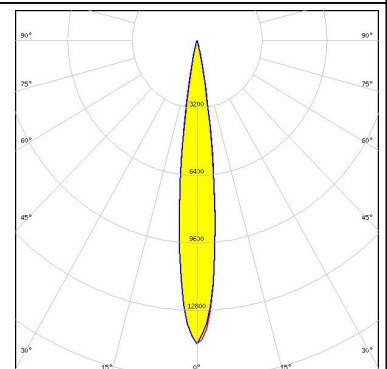
#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 93 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 632a Hekla XL



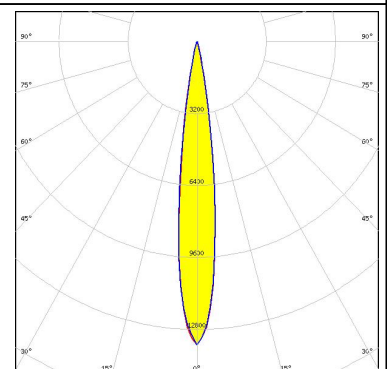
#### SAMSUNG

LED LC010C  
 FWHM / FWTM 14.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 14.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



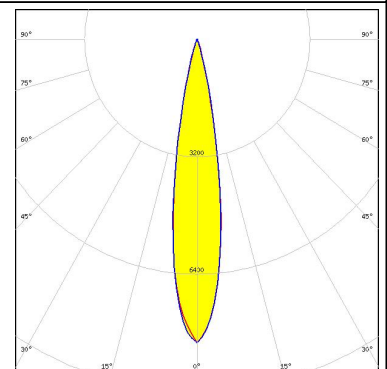
#### SAMSUNG

LED LC020C  
 FWHM / FWTM 14.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 13.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



#### XICATO

LED XTM - 9mm LES  
 FWHM / FWTM 18.0° / 32.0°  
 Efficiency 94 %  
 Peak intensity 8.3 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.

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