

### AMY-70-W-C

~36° wide beam. Assembly with holder C compatible with LEDiL HEKLA. Black version.

#### SPECIFICATION:

Dimensions	Ø 69.9 mm
Height	16.9 mm
Fastening	socket
ROHS compliant	yes ⓘ

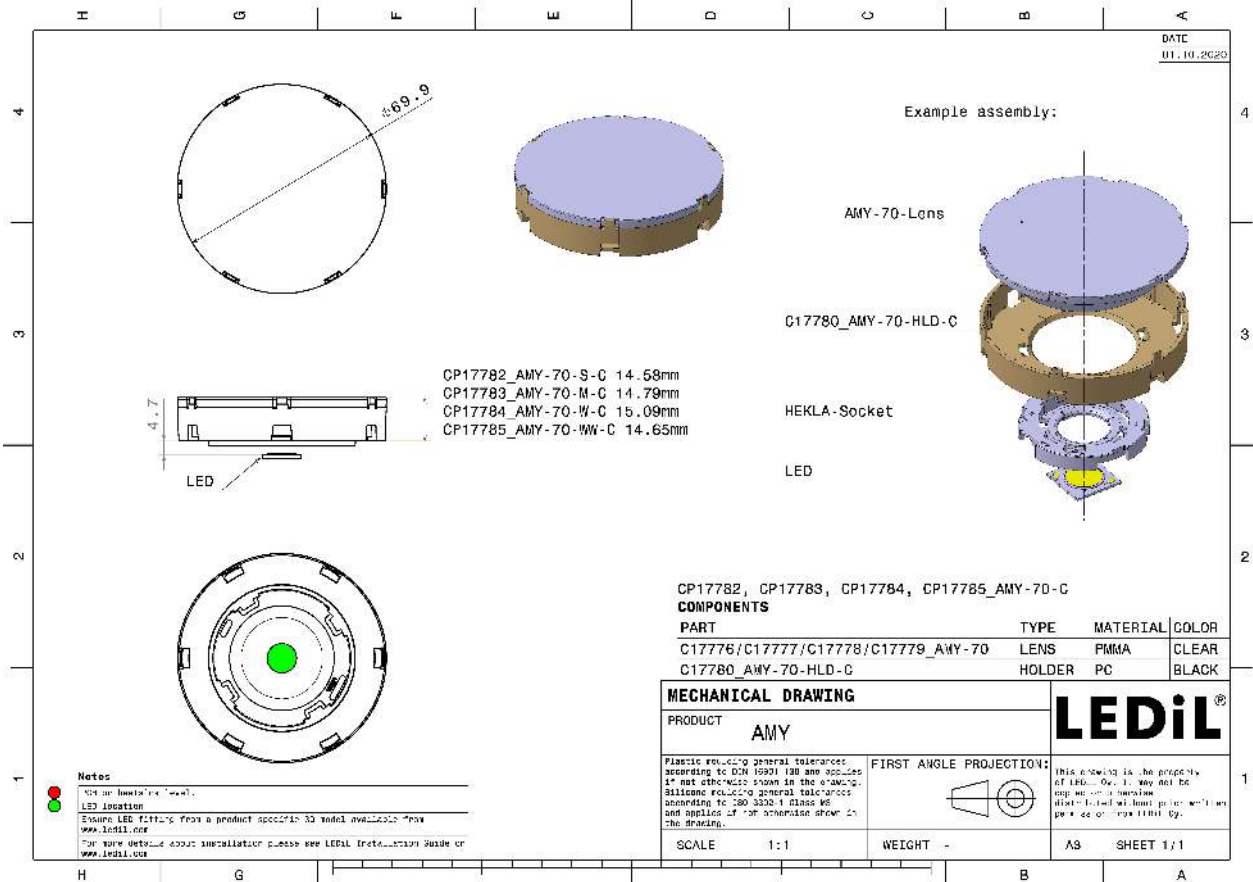
#### MATERIALS:

Component	Type	Material	Colour	Finish
AMY-70-W	Single lens	PMMA		
AMY-70-HLD-C	Holder	PC	black	

#### ORDERING INFORMATION:



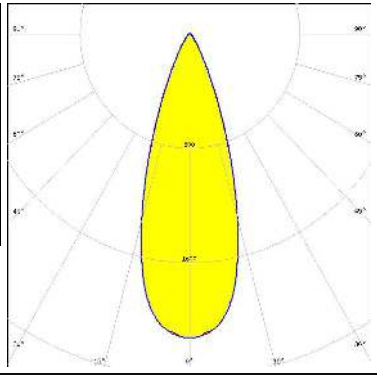


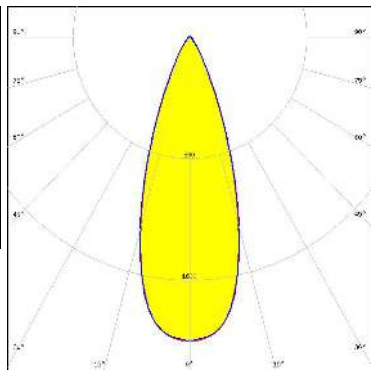


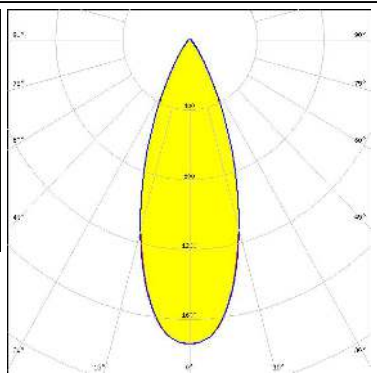


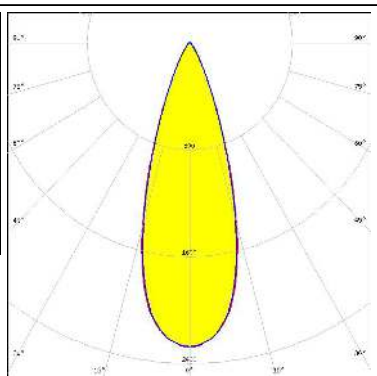
Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17784_AMY-70-W-C » Box size: 480 x 280 x 300 mm	210	210	15	8.4





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

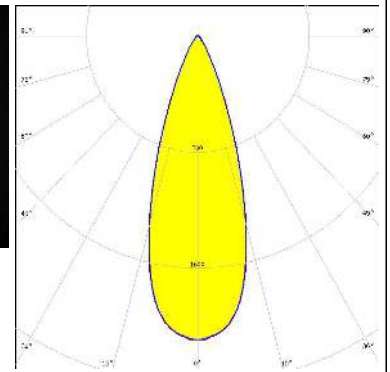
### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V10 Gen 8            FWHM / FWTM 35.0° / 59.0°            Efficiency 90 %            Peak intensity 2.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V11 HD Gen 8            FWHM / FWTM 36.0° / 60.0°            Efficiency 88 %            Peak intensity 2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 633d Hekla</p>		
<p></p> <p>LED V13 Gen 8            FWHM / FWTM 38.0° / 66.0°            Efficiency 87 %            Peak intensity 1.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED V8 Gen 8            FWHM / FWTM 34.0° / 58.0°            Efficiency 91 %            Peak intensity 2.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>		

### OPTICAL RESULTS (MEASURED):

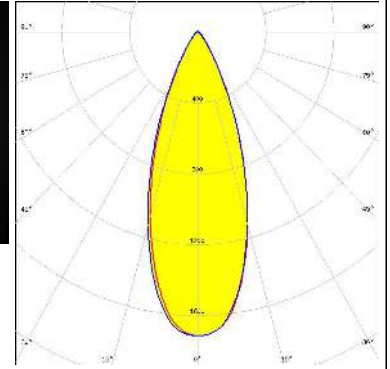
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 35.0° / 59.0°  
 Efficiency 88 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



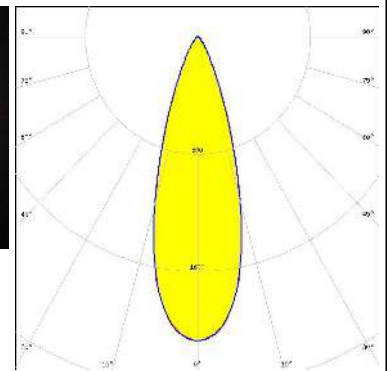
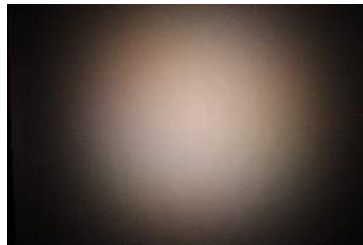
#### CREE LED

LED CMU15xx  
 FWHM / FWTM 38.0° / 66.0°  
 Efficiency 86 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



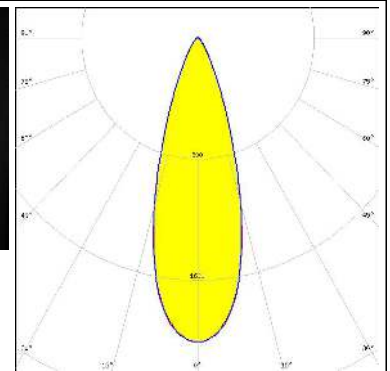
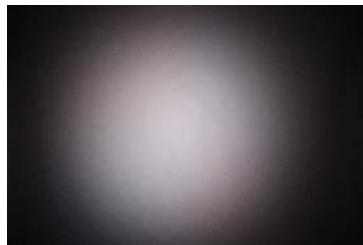
#### LUMILEDS

LED LUXEON Fusion 12-up (20x24)  
 FWHM / FWTM 33.0° / 58.0°  
 Efficiency 82 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 12  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 F18158\_HEKLA-RZ-LENS  
 Bender Wirth: 442 Typ L8


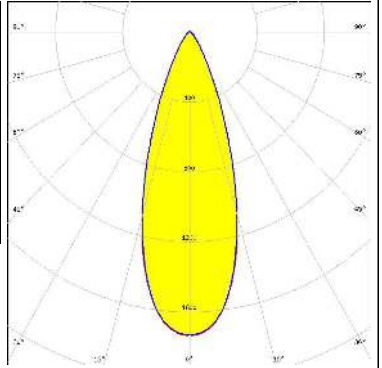

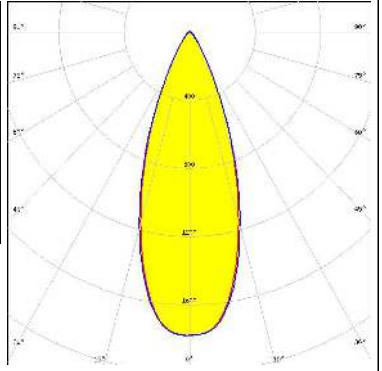

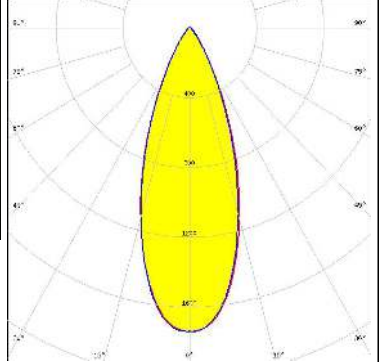


#### LUMILEDS


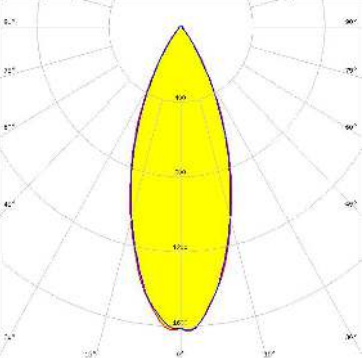

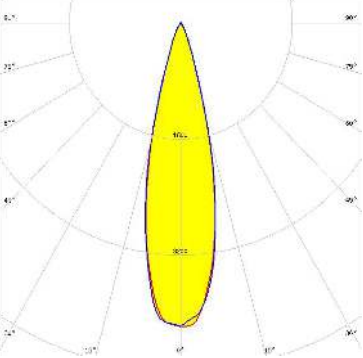

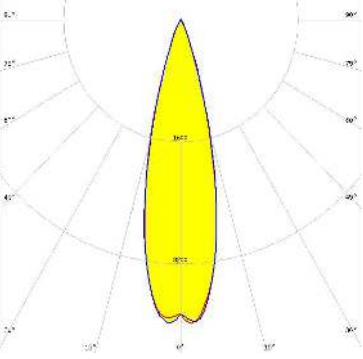

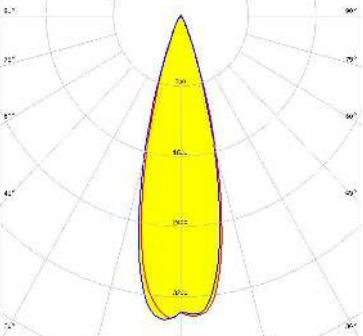
LED LUXEON Fusion 21-up (20x24)  
 FWHM / FWTM 33.0° / 59.0°  
 Efficiency 81 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 21  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 F18158\_HEKLA-RZ-LENS  
 Bender Wirth: 442 Typ L8




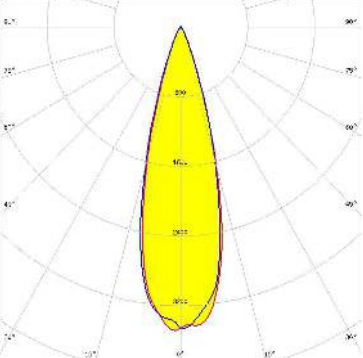

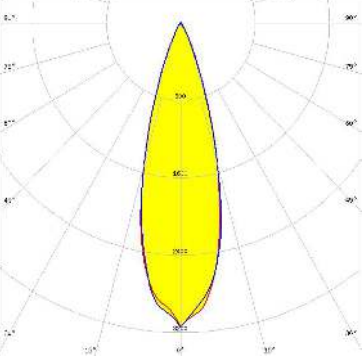

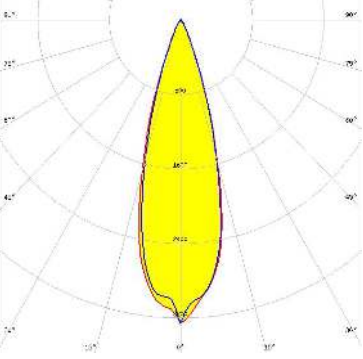

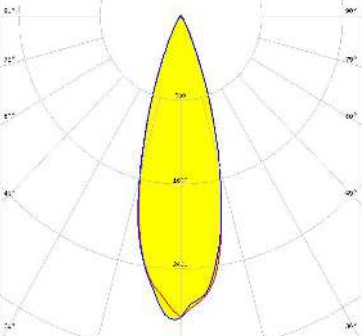
### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Fusion 27-up (20x24)</p> <p>FWHM / FWTM 36.0° / 63.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.7 cd/m</p> <p>LEDs/each optic 27</p> <p>Light colour White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            F18158_HEKLA-RZ-LENS            Bender Wirth: 442 Typ L8</p>		
<p><b>LUMINUS</b></p> <p>LED CTM-14 (Tunable White) Gen2</p> <p>FWHM / FWTM 38.0° / 64.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 442 Typ L8</p>		
<p><b>SAMSUNG</b></p> <p>LED LC016D / LC019D / LC026D / LC033D</p> <p>FWHM / FWTM 38.0° / 66.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:            F15859_HEKLA-SOCKET-I</p>		


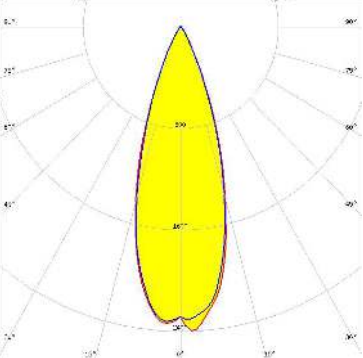

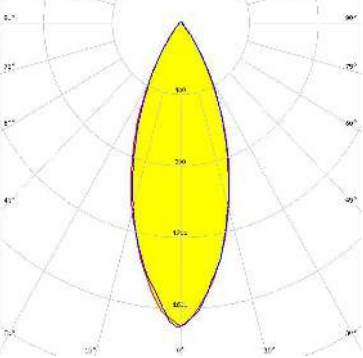

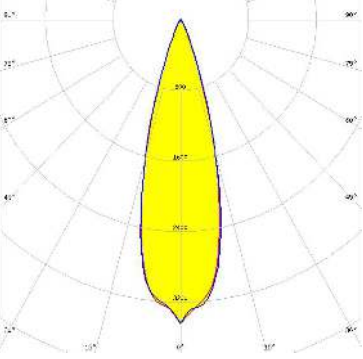

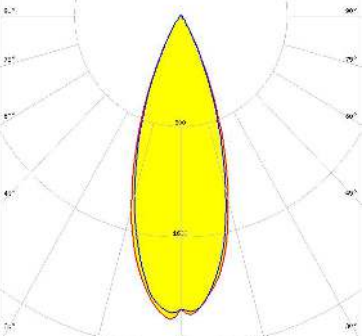
#### OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V18 Gen 8            FWHM / FWTM 40.0° / 70.0°            Efficiency 85 %            Peak intensity 1.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 639b Hekla XL</p>	
<p></p> <p>LED V3 HD Gen 8            FWHM / FWTM 26.0° / 42.0°            Efficiency 93 %            Peak intensity 4.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V4 HD Gen 8            FWHM / FWTM 26.0° / 44.0°            Efficiency 93 %            Peak intensity 4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V6 Gen 8            FWHM / FWTM 29.0° / 46.0°            Efficiency 93 %            Peak intensity 3.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>	

#### OPTICAL RESULTS (SIMULATED):


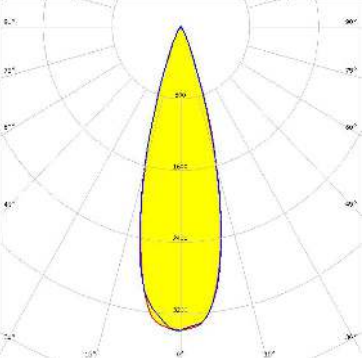

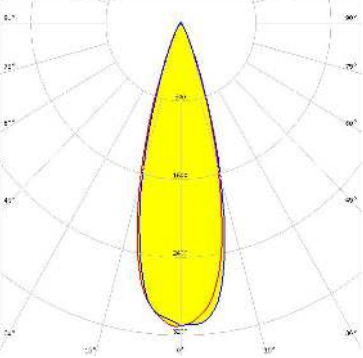

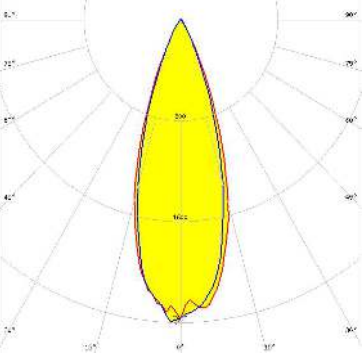

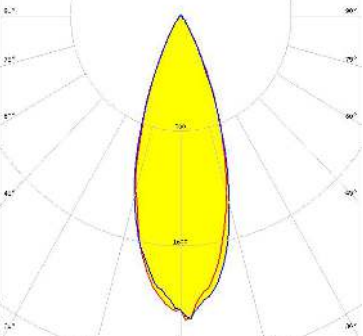
<p></p> <p>LED V6 HD Gen 8</p> <p>FWHM / FWTM 29.0 + 28.0° / 46.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>	
<p></p> <p>LED V8 Gen7</p> <p>FWHM / FWTM 30.0° / 50.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V9 HD Gen 8</p> <p>FWHM / FWTM 30.0 + 29.0° / 48.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>	
<p></p> <p>LED VERO10</p> <p>FWHM / FWTM 31.0° / 52.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15616_HEKLA-SOCKET-F</p>	

#### OPTICAL RESULTS (SIMULATED):


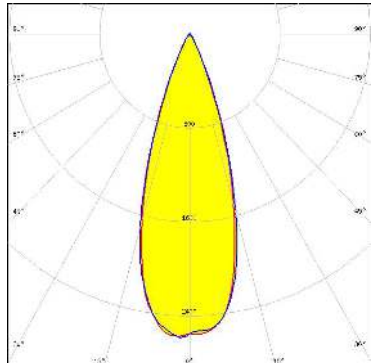
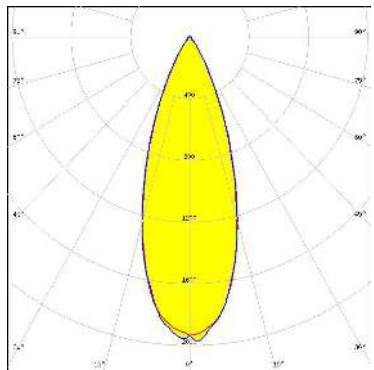
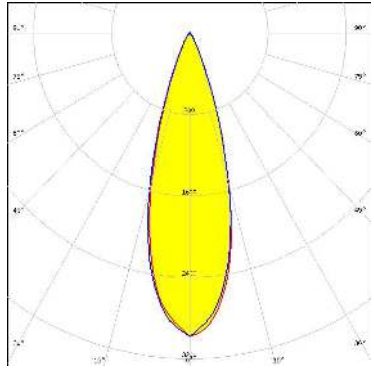
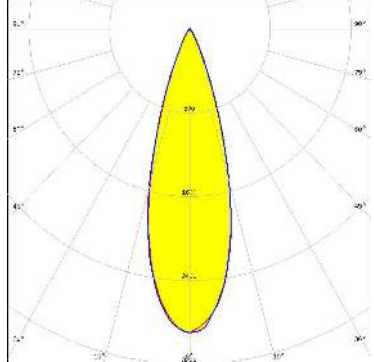
<p></p> <p>LED VERO13</p> <p>FWHM / FWTM 34.0° / 56.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>	
<p></p> <p>LED VERO18</p> <p>FWHM / FWTM 39.0 + 38.0° / 70.0 + 71.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>	
<p></p> <p>LED Vesta DTW 13mm (21W)</p> <p>FWHM / FWTM 28.0 + 29.0° / 46.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 632b Hekla XL</p>	
<p></p> <p>LED Vesta DTW 15mm (33W)</p> <p>FWHM / FWTM 36.0 + 35.0° / 60.0 + 59.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 632b Hekla XL</p>	



#### OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED Vesta DTW 6mm</p> <p>FWHM / FWTM 30.0° / 46.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 652b Hekla</p>	
<p></p> <p>LED Vesta DTW 9mm (4W/6W/12W)</p> <p>FWHM / FWTM 30.0 + 31.0° / 48.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 652b Hekla</p>	
<p></p> <p>LED Vesta TW 13mm (18W) DP</p> <p>FWHM / FWTM 35.0 + 32.0° / 57.0 + 56.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 492 Typ L8</p>	
<p></p> <p>LED Vesta TW 15mm DP</p> <p>FWHM / FWTM 35.0 + 36.0° / 61.0 + 60.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 482 Typ L8</p>	

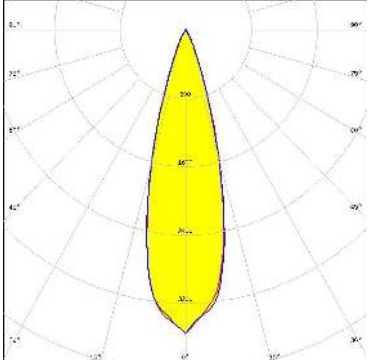
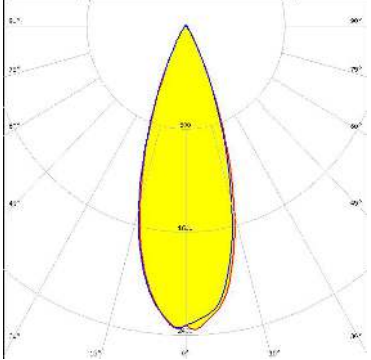
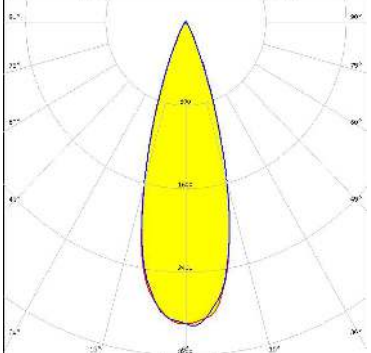
#### OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED Vesta TW 9mm (9W) DP            FWHM / FWTM 34.0 + 35.0° / 53.0 + 54.0°            Efficiency 92 %            Peak intensity 2.7 cd/lm            LEDs/each optic 1            Light colour Tunable White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 489 Typ L8</p>	
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM / FWTM 36.0° / 64.0 + 63.0°            Efficiency 87 %            Peak intensity 2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>	
<p><b>CITIZEN</b></p> <p>LED CLU700/701/702/703            FWHM / FWTM 30.0 + 31.0° / 50.0°            Efficiency 91 %            Peak intensity 3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>	
<p><b>CITIZEN</b></p> <p>LED CLU700/701/702/703            FWHM / FWTM 30.0 + 31.0° / 52.0°            Efficiency 90 %            Peak intensity 2.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>	

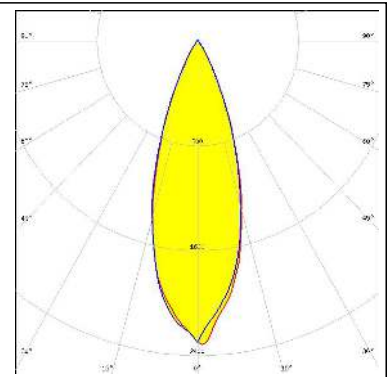
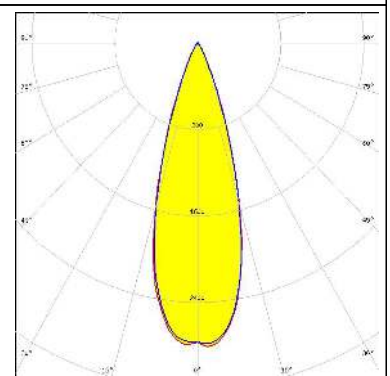
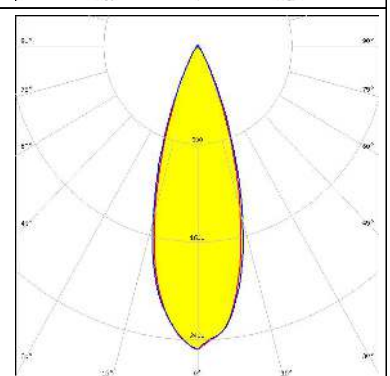
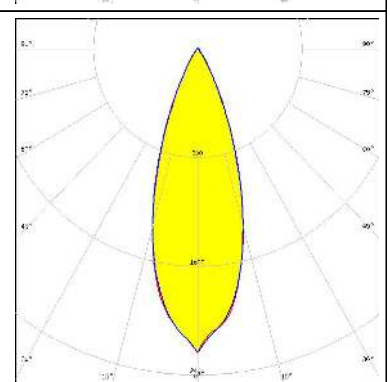
### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> → <b>LED</b></p> <p>LED: CMA1825            FWHM / FWTM: 35.0° / 56.0°            Efficiency: 89 %            Peak intensity: 2.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F15254_HEKLA-SOCKET-B</p>	
<p><b>CREE</b> → <b>LED</b></p> <p>LED: CMT14xx            FWHM / FWTM: 31.0° / 50.0°            Efficiency: 89 %            Peak intensity: 2.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F17435_HEKLA-G2-C</p>	
<p><b>CREE</b> → <b>LED</b></p> <p>LED: CMU10xx            FWHM / FWTM: 32.0° / 50.0°            Efficiency: 90 %            Peak intensity: 2.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F17435_HEKLA-G2-C</p>	
<p><b>CREE</b> → <b>LED</b></p> <p>LED: CXA/B 15xx            FWHM / FWTM: 33.0 + 32.0° / 54.0 + 55.0°            Efficiency: 88 %            Peak intensity: 2.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            F15256_HEKLA-SOCKET-D</p>	

### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 32.0° / 50.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3 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 1202HD</p> <p>FWHM / FWTM 28.0° / 46.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204/1205</p> <p>FWHM / FWTM 35.0° / 57.0 + 56.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.4 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>LUMILEDS</b></p> <p>LED LUXEON CoB 1204HD</p> <p>FWHM / FWTM 32.0° / 50.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>	

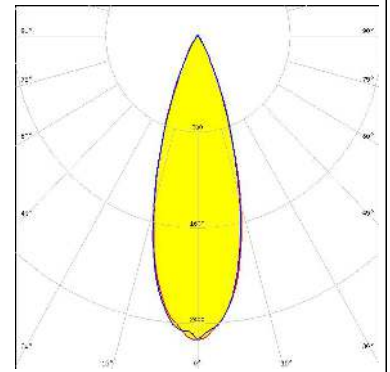
#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208</p> <p>FWHM / FWTM 34.0 + 35.0° / 59.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.3 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>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 32.0° / 51.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>	
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 33.0° / 56.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>	
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L15 CoB</p> <p>FWHM / FWTM 34.0° / 60.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.2 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):

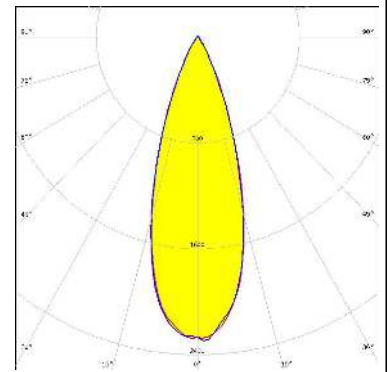
#### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 32.0 + 33.0° / 56.0°  
 Efficiency 90 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

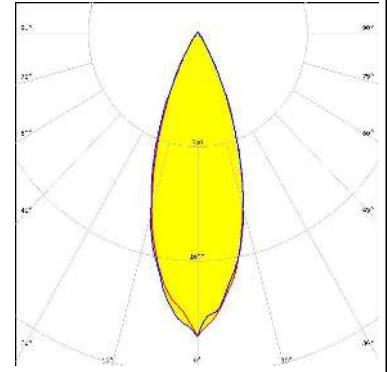


#### SAMSUNG

LED LC020T (Tunable white)  
 FWHM / FWTM 34.0° / 58.0°  
 Efficiency 89 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

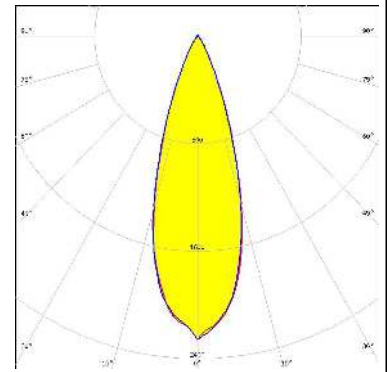


LED MJT COB LES 14.5  
 FWHM / FWTM 36.0° / 61.0°  
 Efficiency 88 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



#### XICATO

LED XOB 14.5 mm  
 FWHM / FWTM 33.0° / 56.0°  
 Efficiency 81 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



### 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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