

## AMY-50-M-C

~24° medium beam. Assembly with holder C compatible with LEDiL HEKLA. Black version.

### SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	13.1 mm
Fastening	socket
ROHS compliant	yes ⓘ

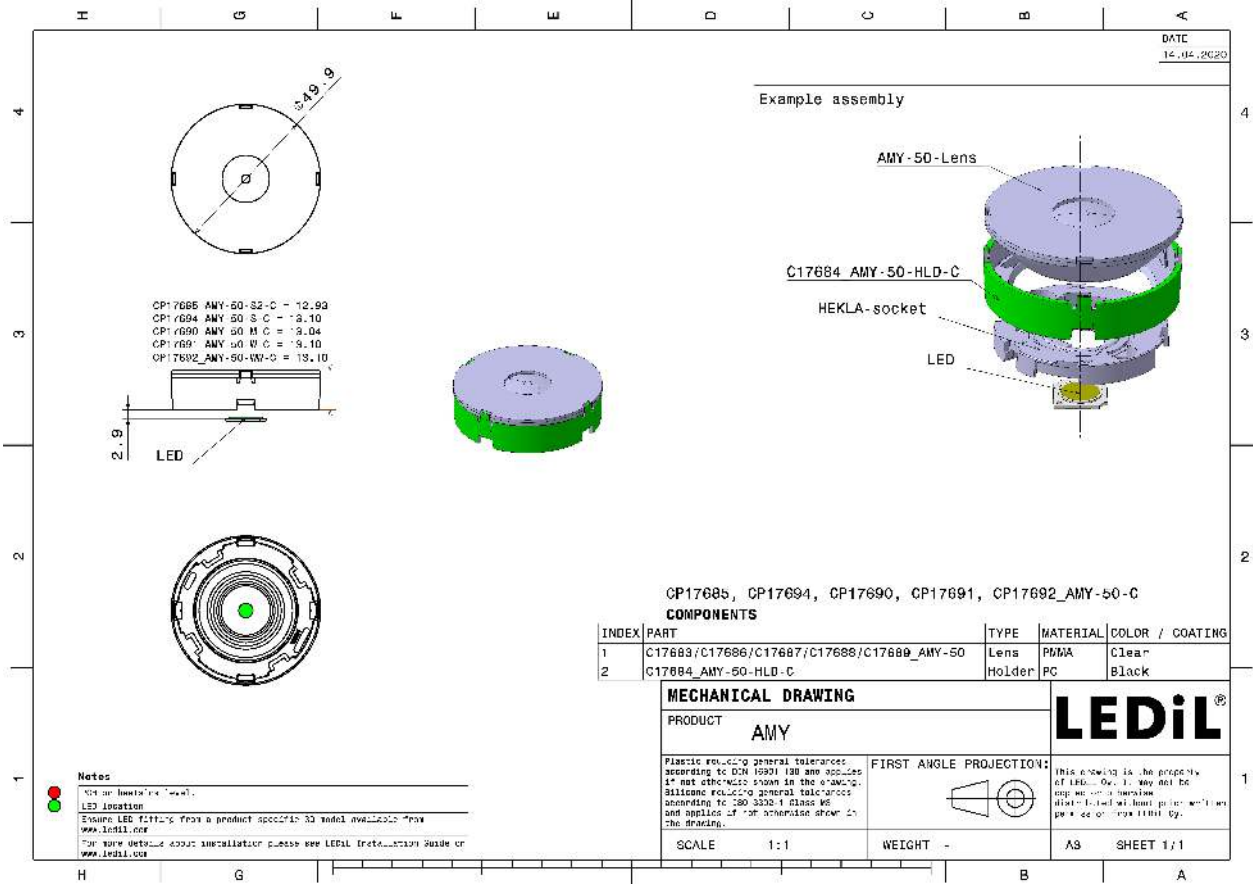


### MATERIALS:

Component	Type	Material	Colour	Finish
AMY-50-M	Single lens	PMMA	clear	
AMY-50-HLD-C	Holder	PC	black	



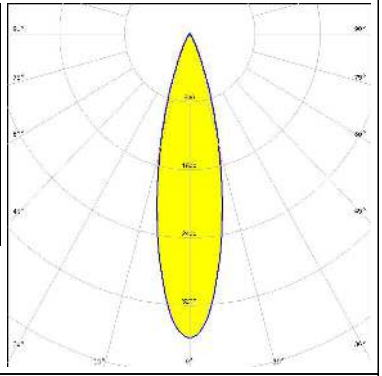


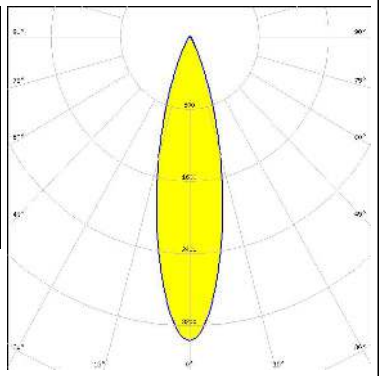


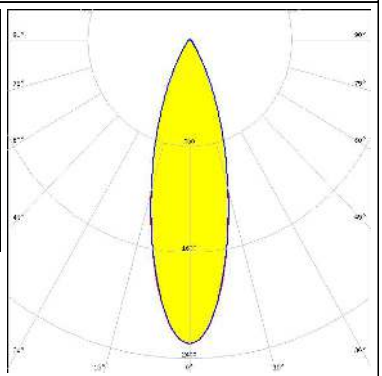


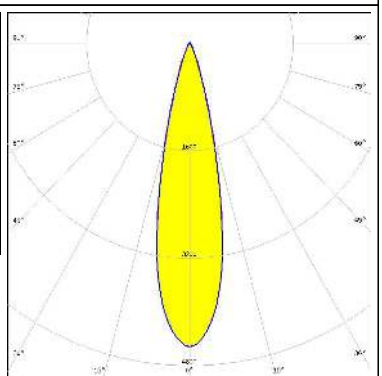
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17690_AMY-50-M-C » Box size: 480 x 280 x 300 mm	510	120	30	9.1



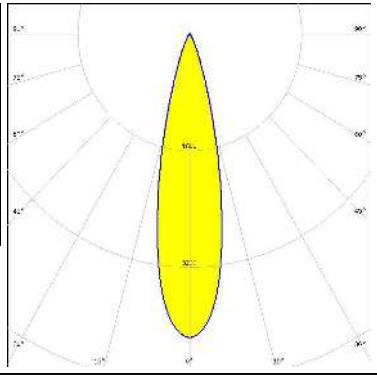


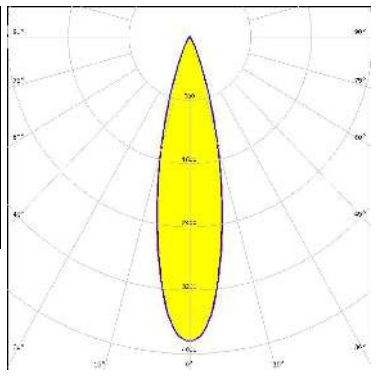


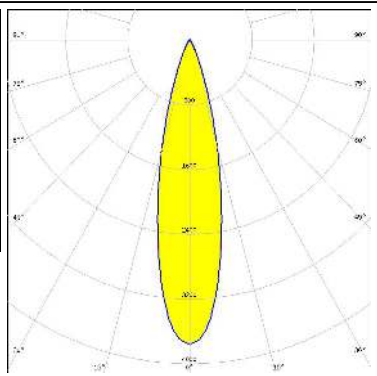


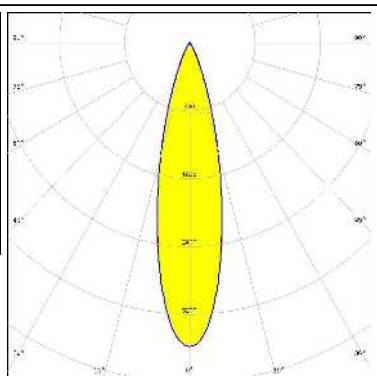


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)



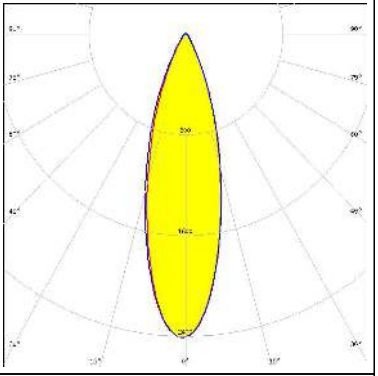


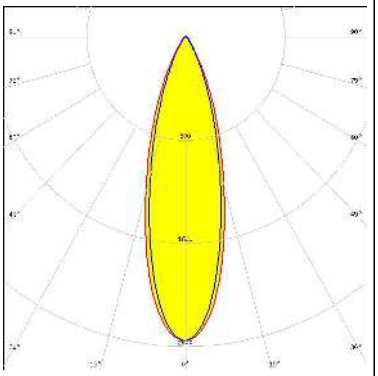


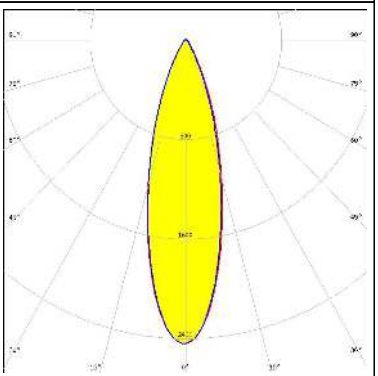


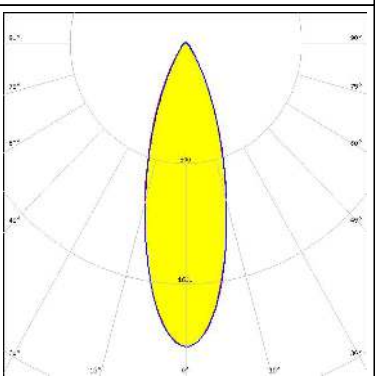
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V10 Gen 8            FWHM / FWTM 26.0° / 48.0°            Efficiency 91 %            Peak intensity 3.6 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 26.0° / 50.0°            Efficiency 91 %            Peak intensity 3.4 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 31.0° / 60.0°            Efficiency 88 %            Peak intensity 2.3 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 24.0° / 41.0°            Efficiency 93 %            Peak intensity 4.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>		

#### OPTICAL RESULTS (MEASURED):



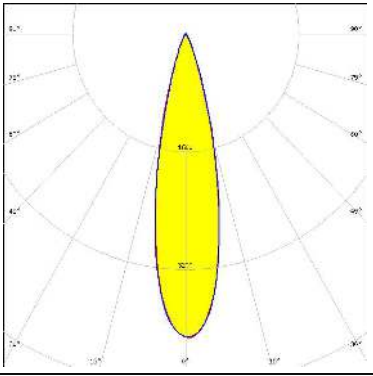


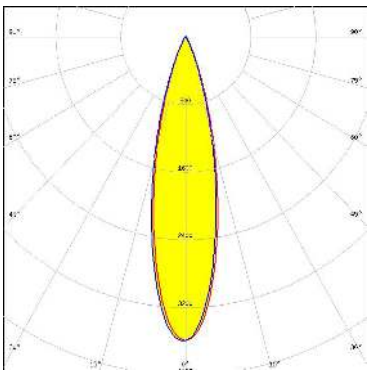

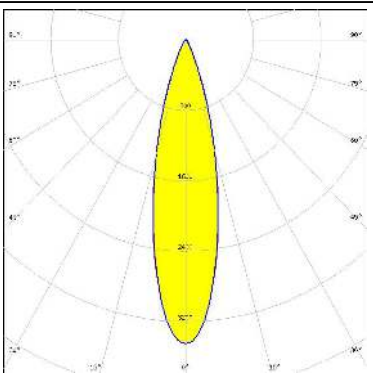

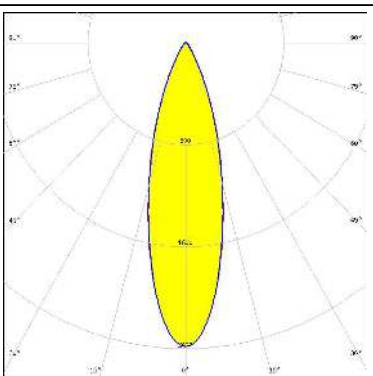
<p></p> <p>LED V6 HD Gen 7            FWHM / FWTM 24.0° / 43.0°            Efficiency 91 %            Peak intensity 4.2 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V8 Gen 8            FWHM / FWTM 25.0° / 46.0°            Efficiency 92 %            Peak intensity 3.8 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V9 HD Gen7            FWHM / FWTM 25.0° / 46.0°            Efficiency 90 %            Peak intensity 3.8 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED VERO10            FWHM / FWTM 25.0° / 47.0°            Efficiency 90 %            Peak intensity 3.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            F15616_HEKLA-SOCKET-F</p>		

#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta DTW 13mm (21W)            FWHM / FWTM 30.0° / 57.0°            Efficiency 86 %            Peak intensity 2.4 cd/m            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta DTW 15mm (33W)            FWHM / FWTM 29.0° / 58.0°            Efficiency 86 %            Peak intensity 2.4 cd/m            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta TW 13mm (18W) DP            FWHM / FWTM 29.0° / 58.0°            Efficiency 87 %            Peak intensity 2.4 cd/m            LEDs/each optic 1            Light colour Tunable White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 492 Typ L8</p>		
<p></p> <p>LED Vesta TW 15mm DP            FWHM / FWTM 32.0° / 63.0°            Efficiency 86 %            Peak intensity 2 cd/m            LEDs/each optic 1            Light colour Tunable White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 482 Typ L8</p>		



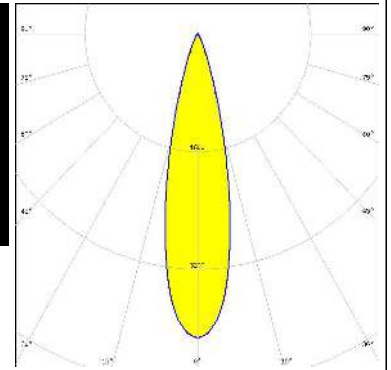
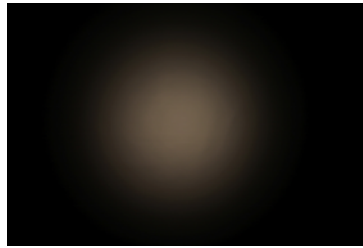
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta TW 6mm DP            FWHM / FWTM 24.0° / 43.0°            Efficiency 90 %            Peak intensity 4.1 cd/lm            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 9mm (9W) DP            FWHM / FWTM 25.0° / 47.0°            Efficiency 89 %            Peak intensity 3.6 cd/lm            LEDs/each optic 1            Light colour Tunable White</p> <p>Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 489 Typ L8</p>		
<p><b>CITIZEN</b></p> <p>LED CLL02x/CLU02x (LES10)            FWHM / FWTM 25.0° / 48.0°            Efficiency 89 %            Peak intensity 3.5 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            F17435_HEKLA-G2-C</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM / FWTM 29.0° / 58.0°            Efficiency 87 %            Peak intensity 2.4 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            F17438_HEKLA-G2-I</p>		

#### OPTICAL RESULTS (MEASURED):

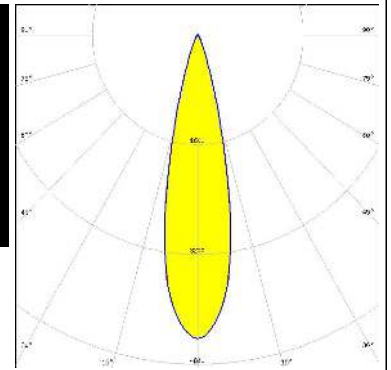
#### CITIZEN

LED CLU700/701/702/703  
 FWHM / FWTM 24.0° / 43.0°  
 Efficiency 90 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



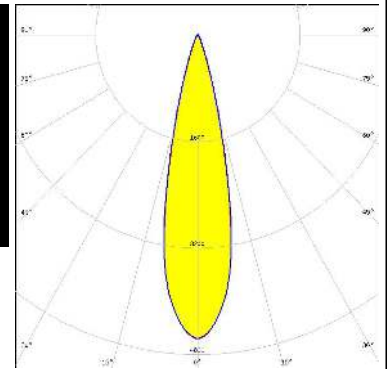
#### CITIZEN

LED CLU7A2/7A3  
 FWHM / FWTM 24.0° / 40.0°  
 Efficiency 90 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



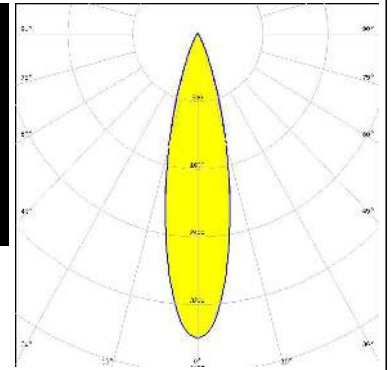
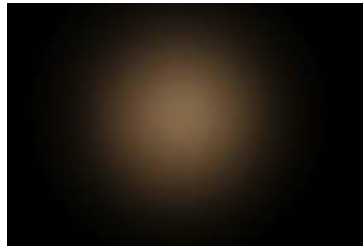
#### CITIZEN

LED CLU7B2  
 FWHM / FWTM 24.0° / 39.0°  
 Efficiency 91 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C

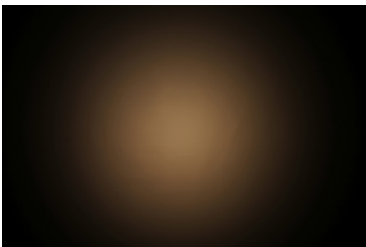
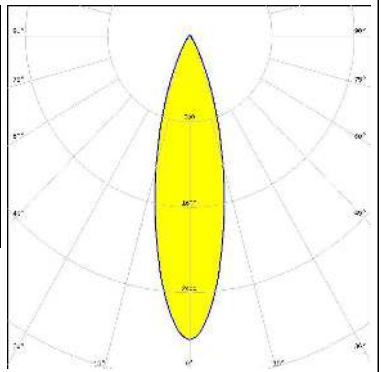
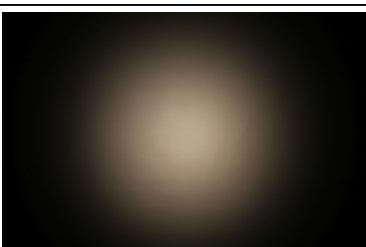
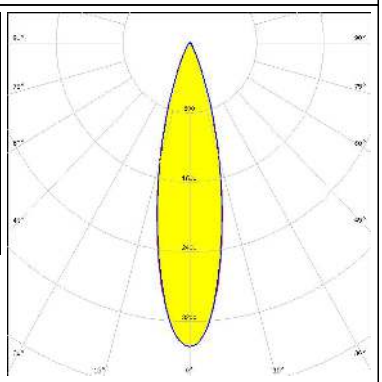
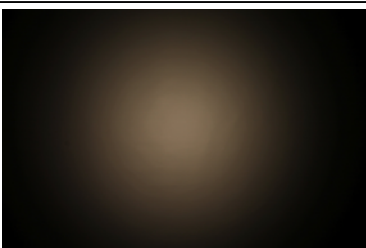
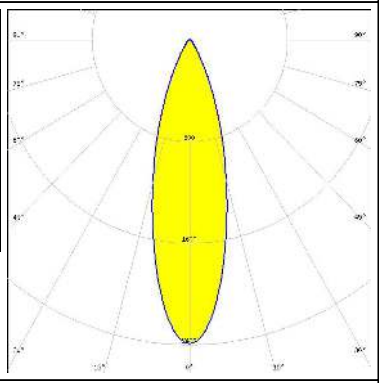

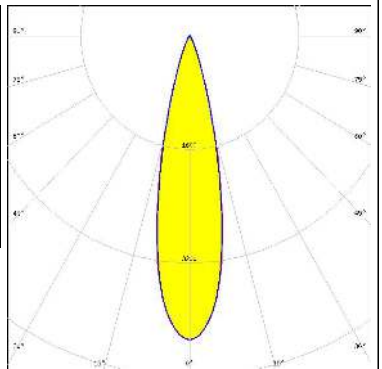


#### CREE LED

LED CMA1516  
 FWHM / FWTM 25.0° / 47.0°  
 Efficiency 90 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17436\_HEKLA-G2-D


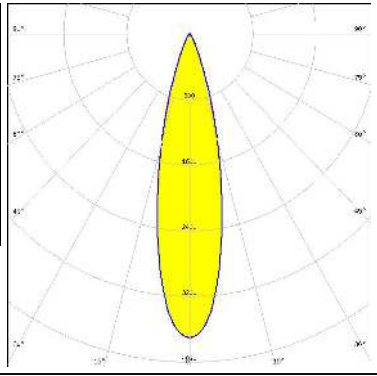
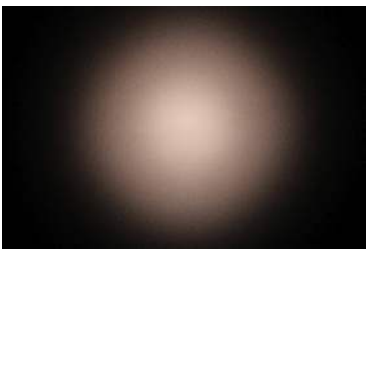
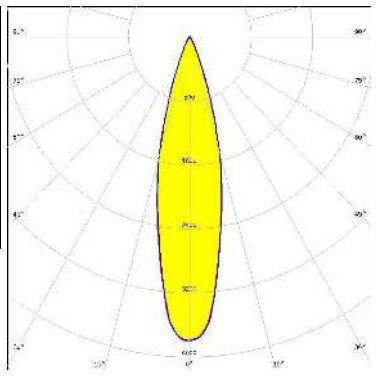

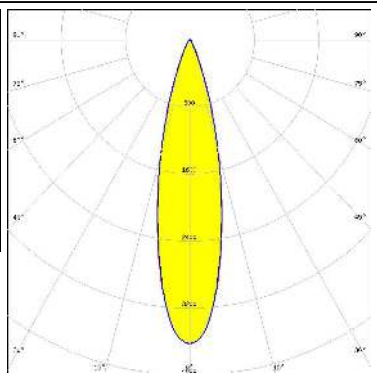

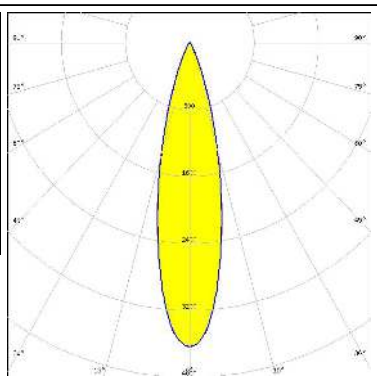


### OPTICAL RESULTS (MEASURED):


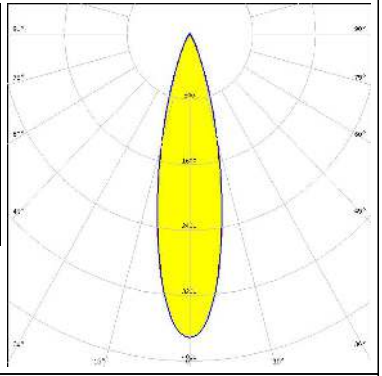
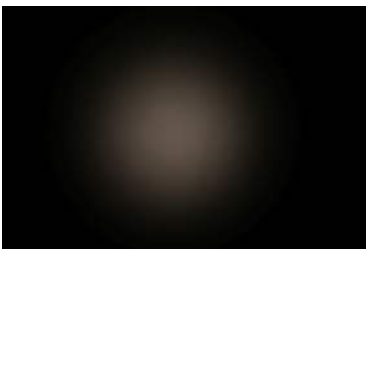
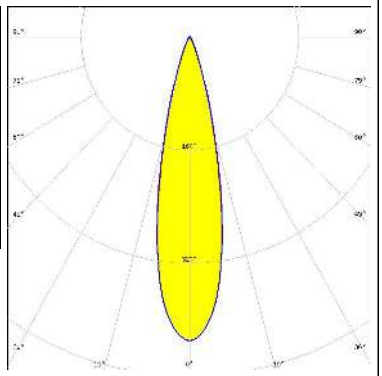

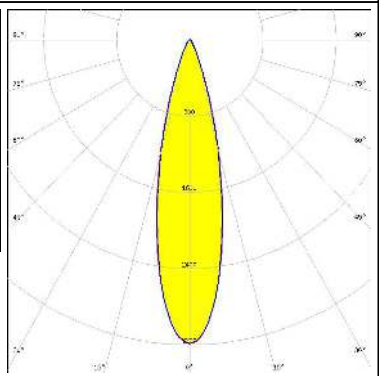

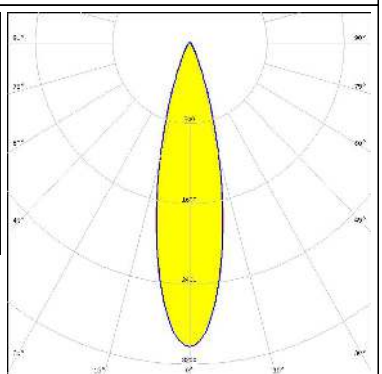
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED CMA1825            FWHM / FWTM 27.0° / 54.0°            Efficiency 89 %            Peak intensity 2.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15254_HEKLA-SOCKET-B</p>		
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED CMT14xx            FWHM / FWTM 25.0° / 48.0°            Efficiency 89 %            Peak intensity 3.5 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 CMT19xx            FWHM / FWTM 29.0° / 58.0°            Efficiency 87 %            Peak intensity 2.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F17438_HEKLA-G2-I</p>		
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED CXA/B 13xx            FWHM / FWTM 24.0° / 42.0°            Efficiency 91 %            Peak intensity 4.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F17439_HEKLA-G2-J</p>		




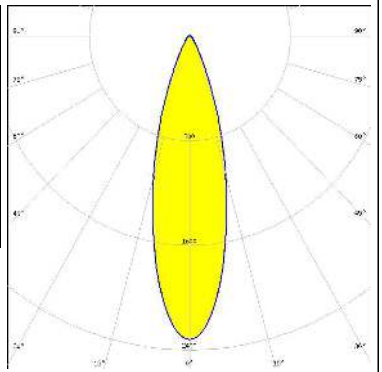

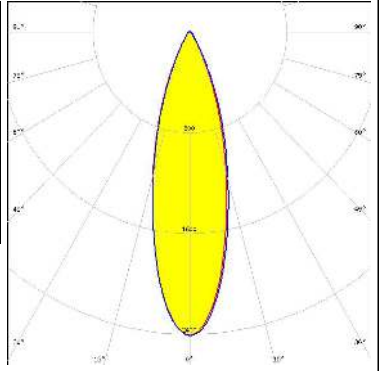

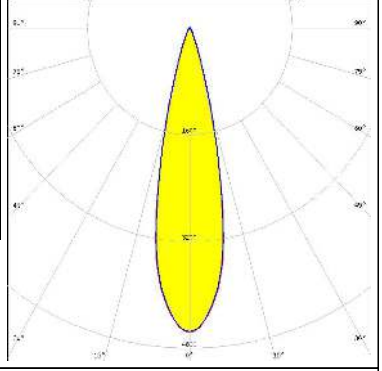

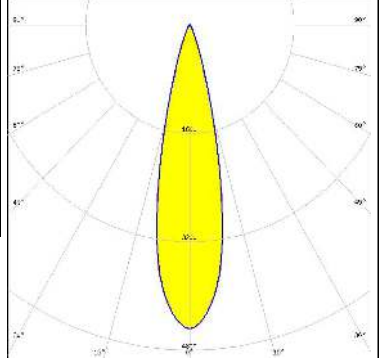
#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LED</p> <p>LED CXA/B 15xx            FWHM / FWTM 25.0° / 46.0°            Efficiency 90 %            Peak intensity 3.7 cd/m            LEDs/each optic 1            Light colour White            Required components:            F17436_HEKLA-G2-D</p>		
<p><b>LEDIM</b></p> <p>LED LEDIM/C6            FWHM / FWTM 26.0° / 46.0°            Efficiency 90 %            Peak intensity 3.8 cd/m            LEDs/each optic 9            Light colour White            Required components:            F17438_HEKLA-G2-I</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203            FWHM / FWTM 25.0° / 46.0°            Efficiency 89 %            Peak intensity 3.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            F17437_HEKLA-G2-H</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204HD            FWHM / FWTM 25.0° / 47.0°            Efficiency 89 %            Peak intensity 3.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            F17437_HEKLA-G2-H</p>		


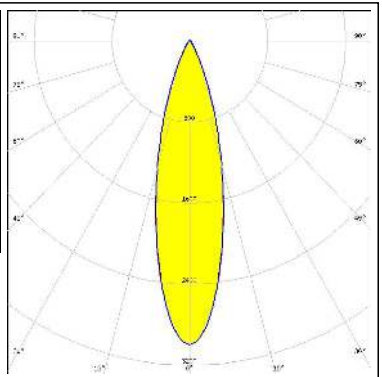

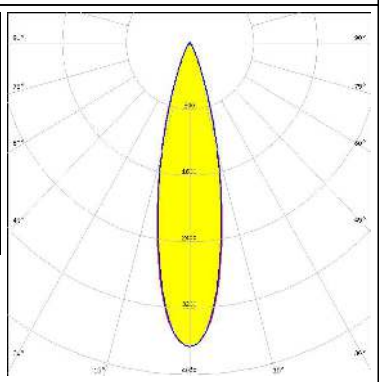
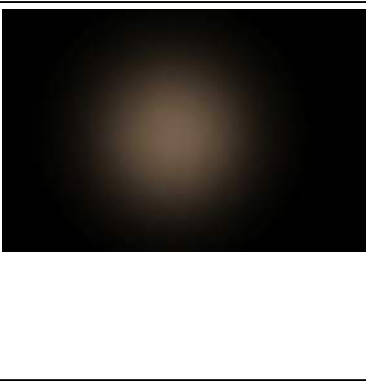
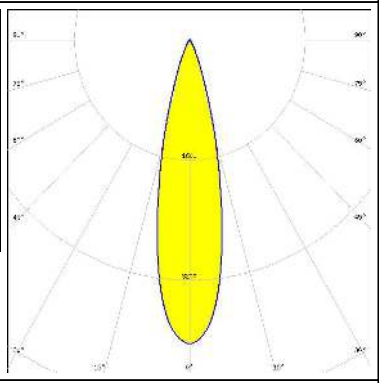

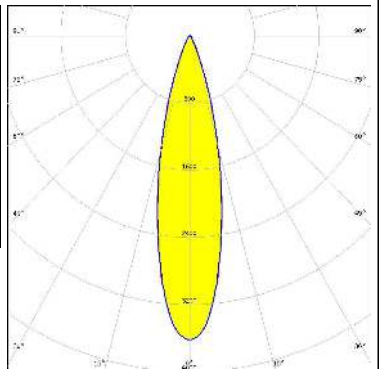
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB M02/M03</p> <p>FWHM / FWTM 25.0° / 47.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17436_HEKLA-G2-D</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB S01</p> <p>FWHM / FWTM 24.0° / 42.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17439_HEKLA-G2-J</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON Fusion 12-up (20x24)</p> <p>FWHM / FWTM 25.0° / 47.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.2 cd/m</p> <p>LEDs/each optic 12</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>LUMILEDS</b></p> <p>LED LUXEON Fusion 21-up (20x24)</p> <p>FWHM / FWTM 26.0° / 48.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3 cd/m</p> <p>LEDs/each optic 21</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K F18158_HEKLA-RZ-LENS Bender Wirth: 442 Typ L8</p>		

#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Fusion 27-up (20x24)</p> <p>FWHM / FWTM 29.0° / 55.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 2.3 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 29.5° / 57.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.4 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>LUMINUS</b></p> <p>LED CXM-3</p> <p>FWHM / FWTM 24.0° / 40.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:            F17435_HEKLA-G2-C</p>		
<p><b>LUMINUS</b></p> <p>LED CXM-4</p> <p>FWHM / FWTM 24.0° / 40.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:            F17435_HEKLA-G2-C</p>		

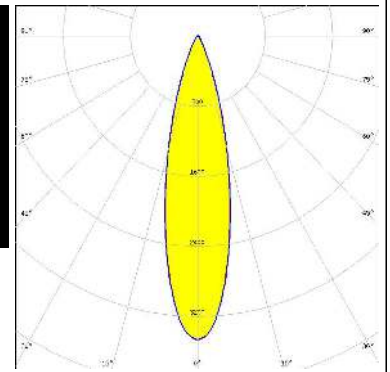
#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 27.0° / 52.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 25.0° / 46.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 3.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>		
<p><b>NICHIA</b></p> <p>LED COB S-Type (LES 7)</p> <p>FWHM / FWTM 24.0° / 44.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L09 CoB</p> <p>FWHM / FWTM 25.0° / 47.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 3.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>		

#### OPTICAL RESULTS (MEASURED):

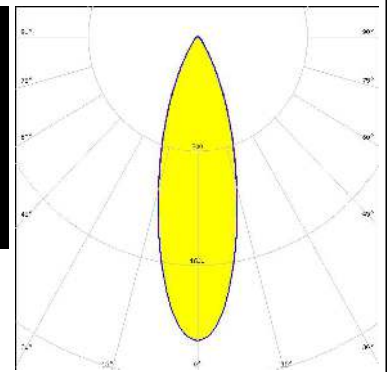
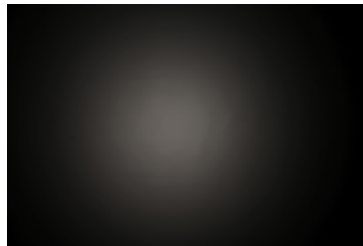
### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 25.0° / 48.0°  
 Efficiency 89 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



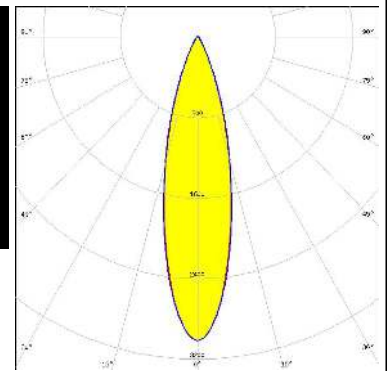
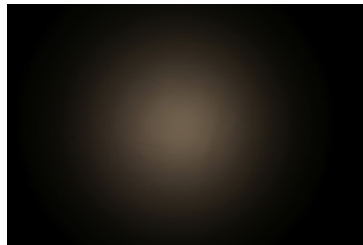
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 31.0° / 62.0°  
 Efficiency 87 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



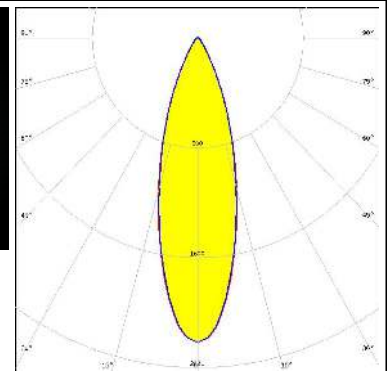
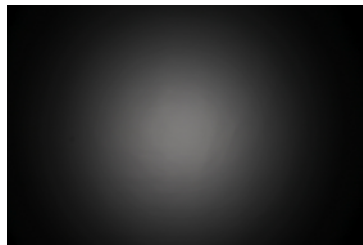
### SAMSUNG

LED LC030C/040C G2  
 FWHM / FWTM 26.0° / 52.0°  
 Efficiency 88 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I





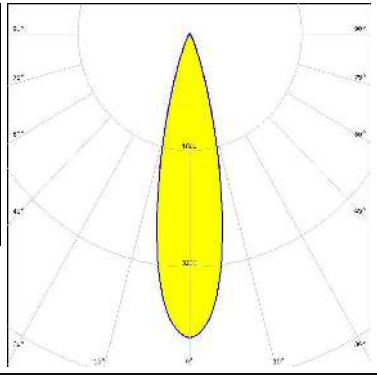


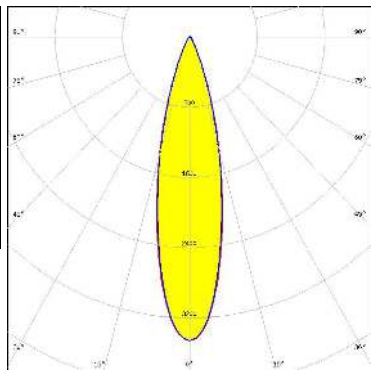

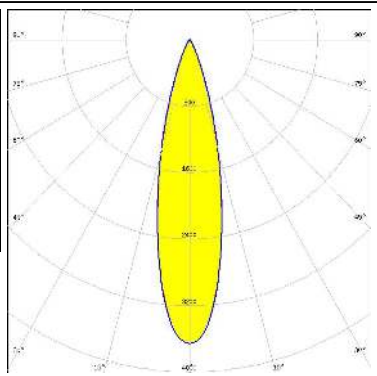

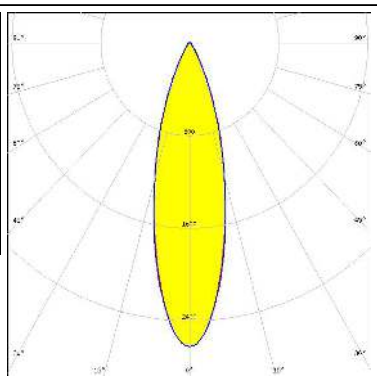
SEOL SEMICONDUCTOR

LED MJT COB LES 14.5  
 FWHM / FWTM 30.0° / 60.0°  
 Efficiency 87 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I





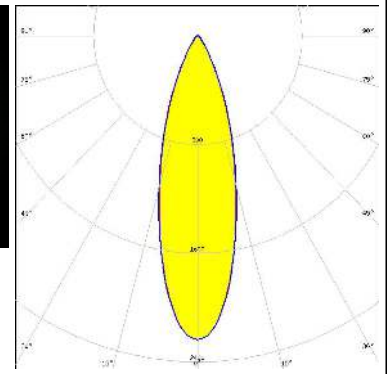
#### OPTICAL RESULTS (MEASURED):

<p> <b>SEOUL SEMICONDUCTOR</b></p> <p>LED MJT COB LES 6</p> <p>FWHM / FWTM 24.0° / 42.0°</p> <p>Efficiency 91 %</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 25.0° / 48.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.5 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° / 47.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.7 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 LES13</p> <p>FWHM / FWTM 28.0° / 55.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 2.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17438_HEKLA-G2-I</p>		


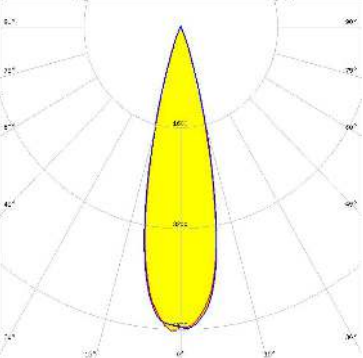

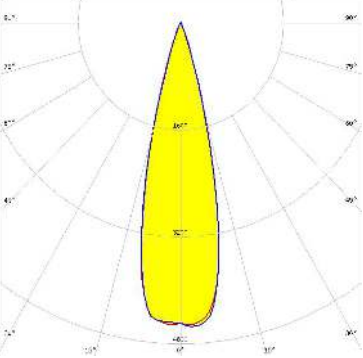

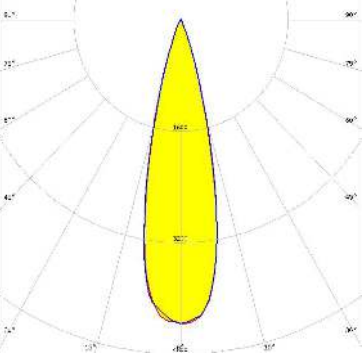

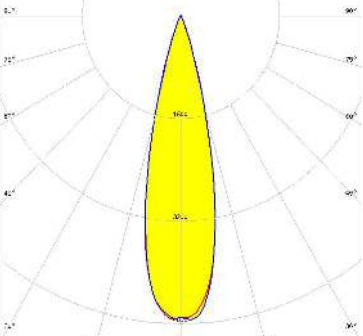
## OPTICAL RESULTS (MEASURED):

### TRIDONIC


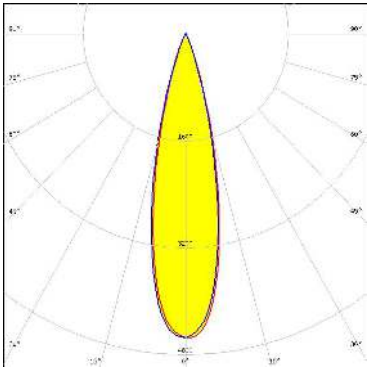

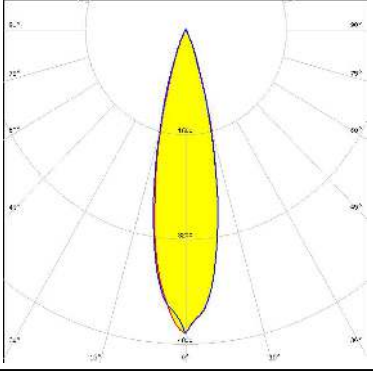

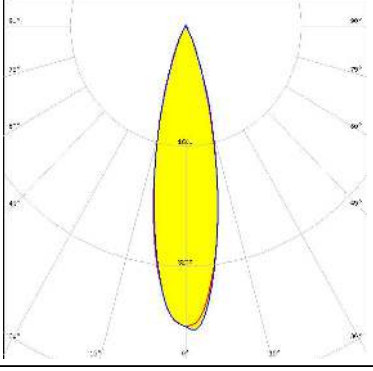

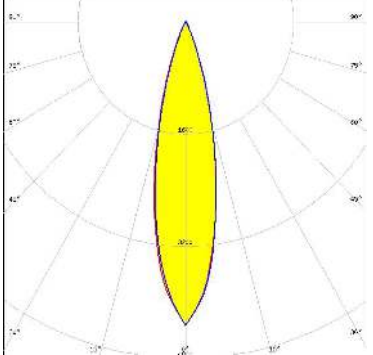
LED SLE G7 LES15  
FWHM / FWTM 30.0° / 60.0°  
Efficiency 87 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17438\_HEKLA-G2-I




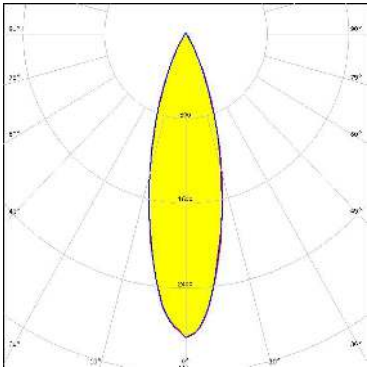

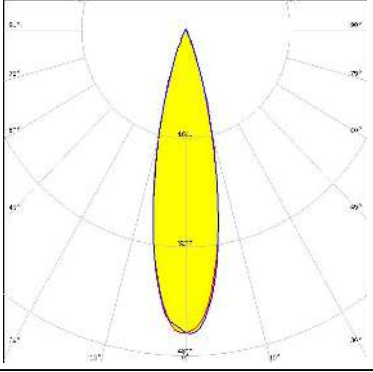

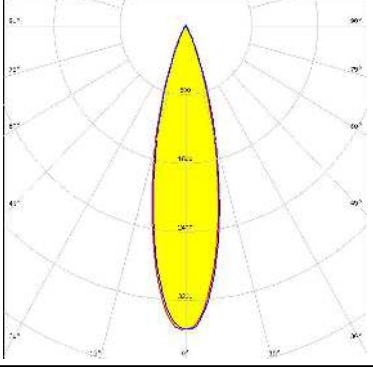

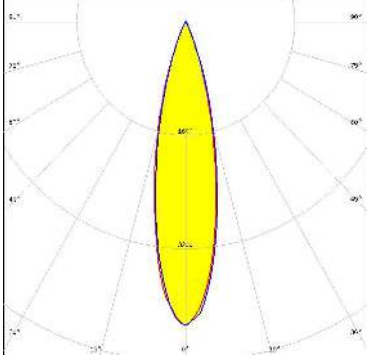
#### OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V3 HD Gen 8</p> <p>FWHM / FWTM 26.0° / 40.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.8 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 V3 HD Gen 8 FC</p> <p>FWHM / FWTM 26.0° / 40.0°</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>	
<p></p> <p>LED V4 HD Gen 7</p> <p>FWHM / FWTM 26.1° / 42.2°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.4 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 V4 HD Gen 8</p> <p>FWHM / FWTM 26.0 + 25.0° / 40.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>	

#### OPTICAL RESULTS (SIMULATED):


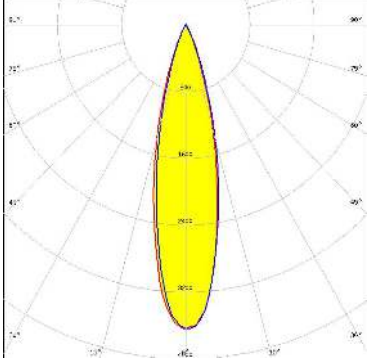
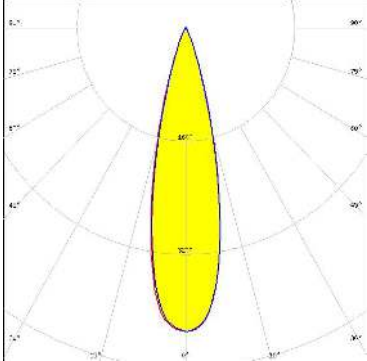
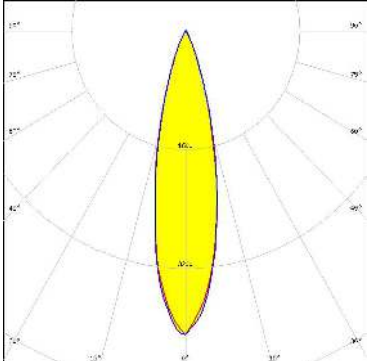

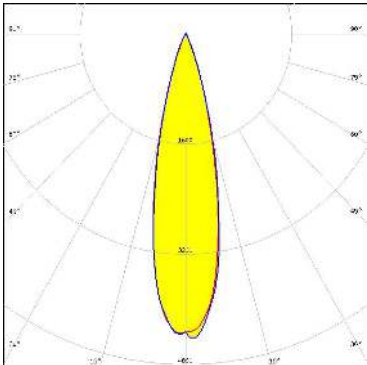
<p></p> <p>LED V6 Gen 8            FWHM / FWTM 25.0° / 42.0°            Efficiency 93 %            Peak intensity 4.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V6 HD Gen 8            FWHM / FWTM 24.0° / 42.0°            Efficiency 93 %            Peak intensity 4.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>	
<p></p> <p>LED V8 Gen7            FWHM / FWTM 24.0° / 46.0°            Efficiency 90 %            Peak intensity 4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V9 HD Gen 8            FWHM / FWTM 24.0° / 45.0 + 44.0°            Efficiency 92 %            Peak intensity 4.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>	

#### OPTICAL RESULTS (SIMULATED):

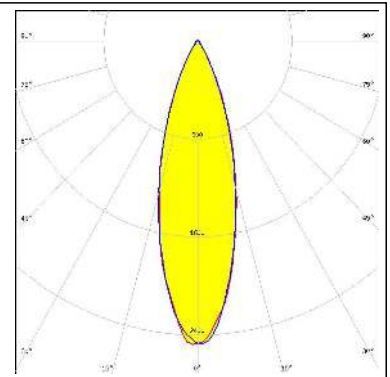
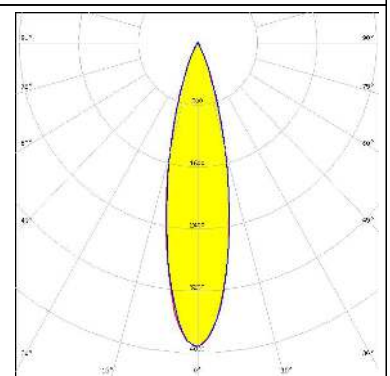
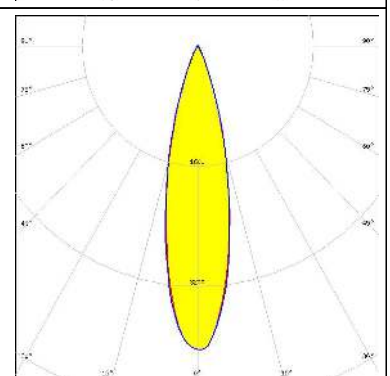
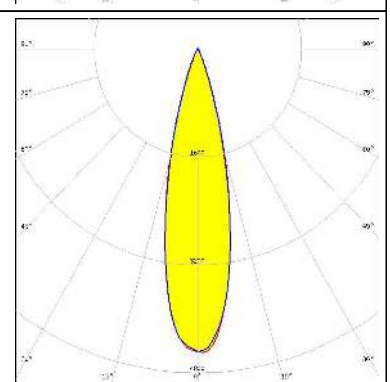
<p></p> <p>LED VERO13            FWHM / FWTM 29.0 + 28.0° / 56.0°            Efficiency 91 %            Peak intensity 2.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>	
<p></p> <p>LED Vesta DTW 6mm            FWHM / FWTM 24.0° / 42.0 + 43.0°            Efficiency 93 %            Peak intensity 4.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 652b Hekla</p>	
<p></p> <p>LED Vesta DTW 9mm (4W/6W/12W)            FWHM / FWTM 26.0° / 47.0°            Efficiency 85 %            Peak intensity 3.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F18158_HEKLA-RZ-LENS            Bender Wirth: 652b Hekla</p>	
<p></p> <p>LED Vesta DTW 9mm (4W/6W/12W)            FWHM / FWTM 24.0° / 44.0°            Efficiency 91 %            Peak intensity 4.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 652b Hekla</p>	



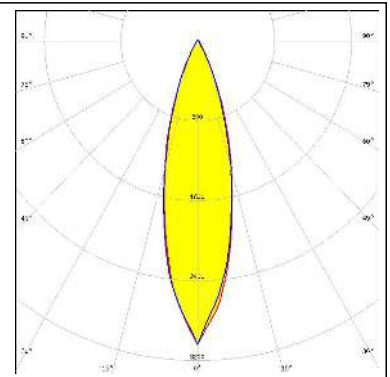
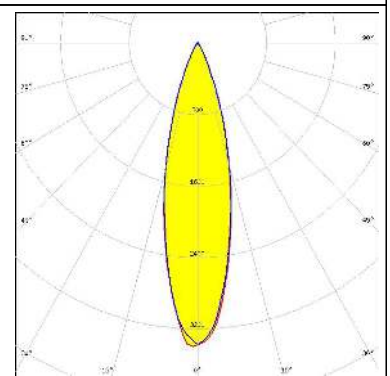
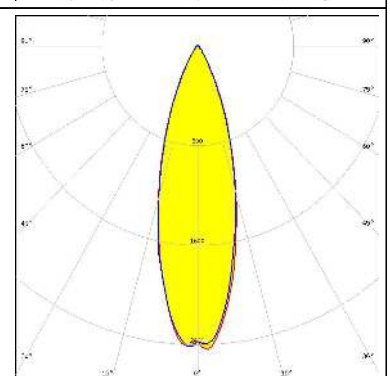
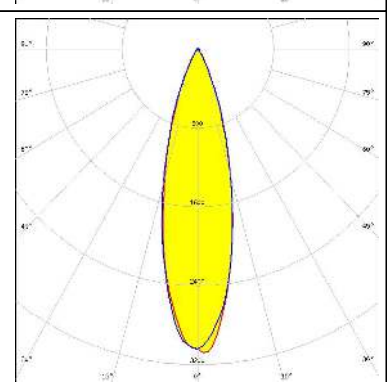
#### OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED Vesta TW 9mm (12W) CSP            FWHM / FWTM 24.1° / 46.3°            Efficiency 82 %            Peak intensity 3.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>	
<p><b>CITIZEN</b></p> <p>LED CLU700/701/702/703            FWHM / FWTM 26.1 + 25.1° / 42.2°            Efficiency 91 %            Peak intensity 4.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>	
<p><b>CITIZEN</b></p> <p>LED CLU712/713            FWHM / FWTM 24.0° / 46.0°            Efficiency 90 %            Peak intensity 4.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F17438_HEKLA-G2-I</p>	
<p></p> <p>LED CMA1306            FWHM / FWTM 24.0° / 43.0°            Efficiency 91 %            Peak intensity 4.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F17439_HEKLA-G2-J</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB L08 (Gen2)</p> <p>FWHM / FWTM 30.0 + 31.0° / 58.0°</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: Bender Wirth: 637a Hekla</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 24.1° / 46.3°</p> <p>Efficiency 89 %</p> <p>Peak intensity 3.9 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 1202/1203</p> <p>FWHM / FWTM 24.0° / 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: F15858_HEKLA-SOCKET-H</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202HD</p> <p>FWHM / FWTM 24.0° / 42.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204/1205</p> <p>FWHM / FWTM 27.0 + 26.0° / 53.0 + 54.0°</p> <p>Efficiency 90 %</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>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1205HD</p> <p>FWHM / FWTM 26.0° / 50.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.4 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 1208</p> <p>FWHM / FWTM 30.0 + 31.0° / 58.0°</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: Bender Wirth: 632a Hekla XL</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 27.0 + 28.0° / 52.0 + 53.0°</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: F15254_HEKLA-SOCKET-B</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 25.0° / 46.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15256_HEKLA-SOCKET-D</p>	
<p><b>NICHIA</b></p> <p>LED COB S-Type (LES 7)</p> <p>FWHM / FWTM 25.0° / 44.0°</p> <p>Efficiency 89 %</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: 652a Hekla</p>	
<p><b>SAMSUNG</b></p> <p>LED LC003D / LC006D / LC009D / LC013D</p> <p>FWHM / FWTM 25.1° / 48.3°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>	
<p><b>TRIDONIC</b></p> <p>LED SLE SNC8 LES06</p> <p>FWHM / FWTM 24.0° / 42.0 + 41.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17435_HEKLA-G2-C</p>	

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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