

## CARMEN-S-C-WHT

~14° spot beam. Assembly with holder C compatible with LEDiL HEKLA. White version.

### SPECIFICATION:

Dimensions	Ø 69.5 mm
Height	41.5 mm
Fastening	socket
ROHS compliant	yes ⓘ

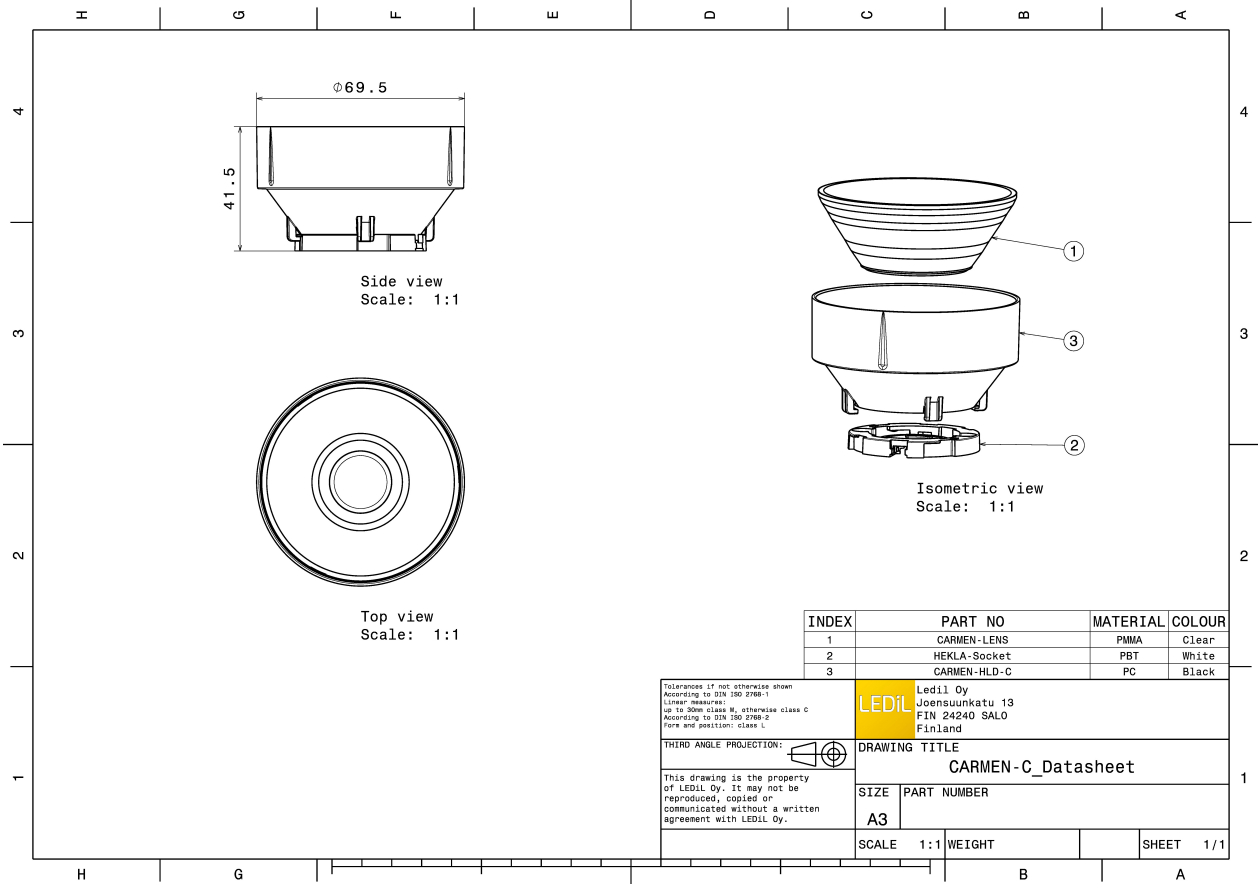


### MATERIALS:

Component	Type	Material	Colour	Finish
CARMEN-S	Single lens	PMMA	clear	
CARMEN-HLD-C-WHT	Holder	PC	white	



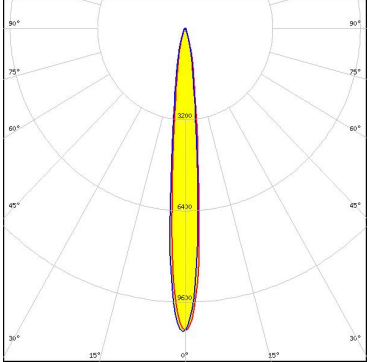


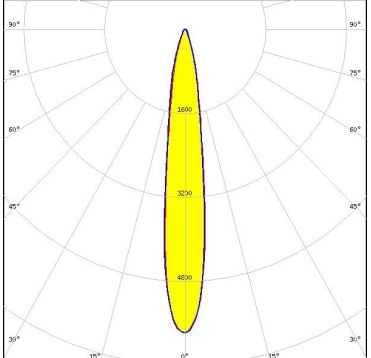

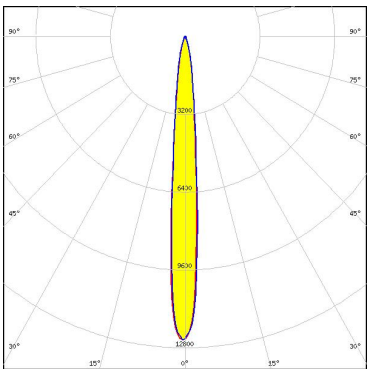
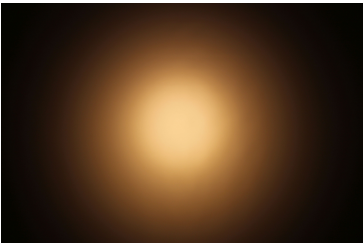
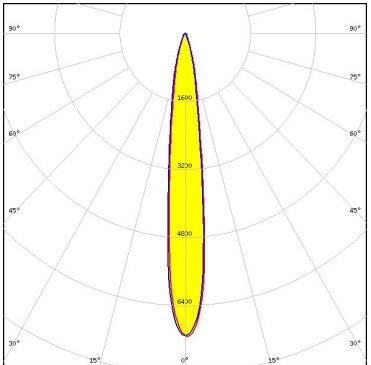
### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CP16937_CARMEN-S-C-WHT » Box size: 476 x 273 x 292 mm	Single lens	150	150	15	6.2



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

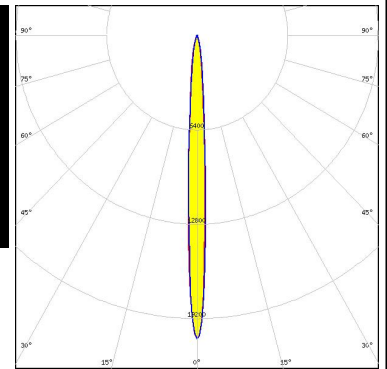
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta TW 6mm DP            FWHM / FWTM 11.0° / 27.0°            Efficiency 88 %            Peak intensity 10.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 9mm (9W) DP            FWHM / FWTM 15.0° / 36.0°            Efficiency 88 %            Peak intensity 5.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 489 Typ L8</p>		
<p><b>CITIZEN</b></p> <p>LED CLU700/701/702/703            FWHM / FWTM 10.0° / 25.0°            Efficiency 90 %            Peak intensity 12.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		
<p><b>CITIZEN</b></p> <p>LED CLU710/711            FWHM / FWTM 13.0° / 33.0°            Efficiency 88 %            Peak intensity 7.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		

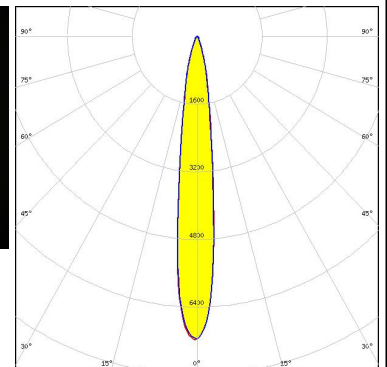
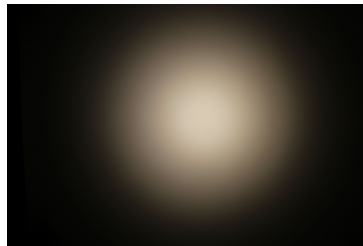
#### OPTICAL RESULTS (MEASURED):

#### CITIZEN

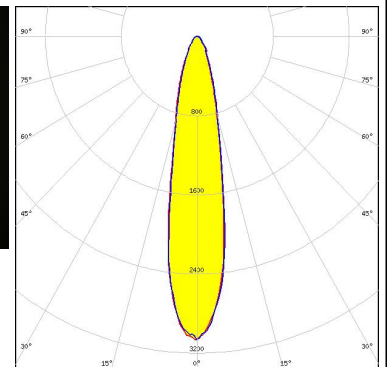
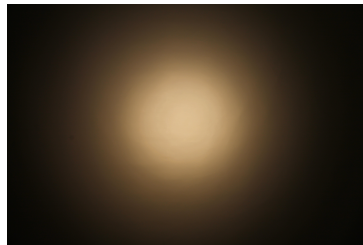
LED CLU7B2  
 FWHM / FWTM 7.0° / 19.0°  
 Efficiency 92 %  
 Peak intensity 20.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



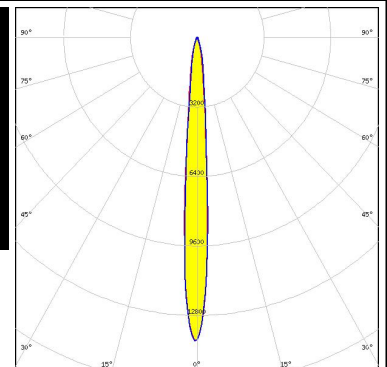
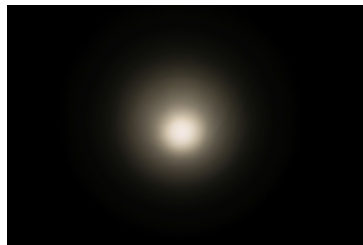
LED CXA/B 15xx  
 FWHM / FWTM 14.0° / 34.0°  
 Efficiency 89 %  
 Peak intensity 7.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D




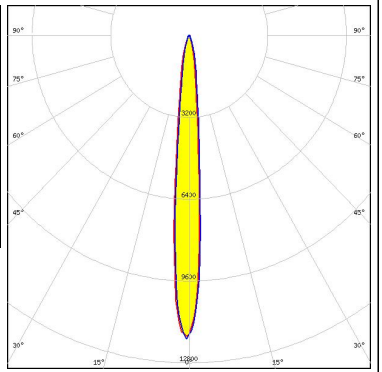

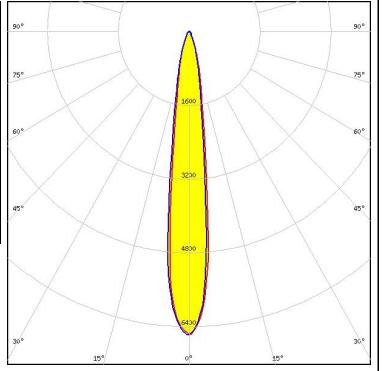

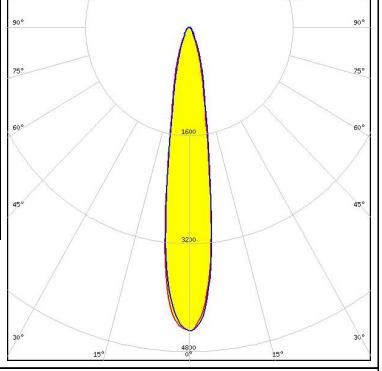

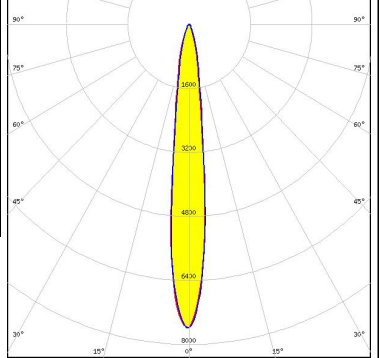
LED LUXEON CX Plus CoB L08 (Gen2)  
 FWHM / FWTM 21.0° / 51.0°  
 Efficiency 88 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 637a Hekla




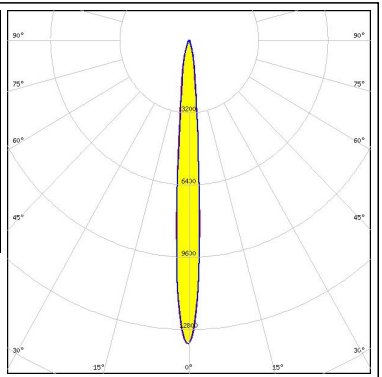

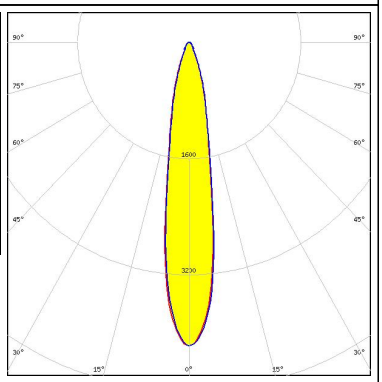

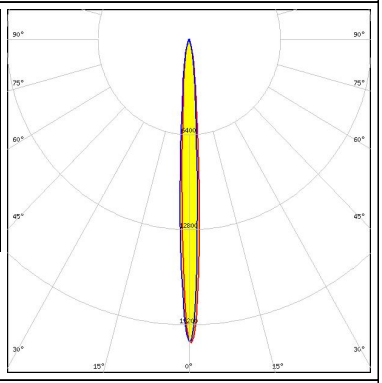

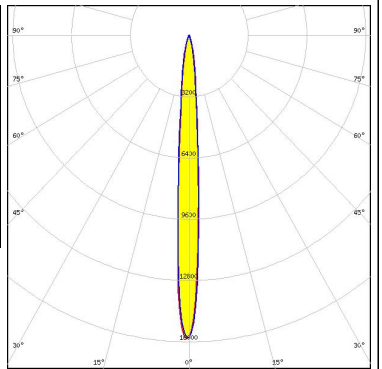
LED LUXEON CX Plus CoB - HD S01H4  
 FWHM / FWTM 9.0° / 23.0°  
 Efficiency 91 %  
 Peak intensity 14 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB - HD S02H6</p> <p>FWHM / FWTM 10.0° / 25.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 11.9 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 14.0° / 34.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 6.6 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 L04 / L05 (Gen2)</p> <p>FWHM / FWTM 17.0° / 42.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 4.5 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 CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 13.0° / 32.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 7.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 641a Hekla</p>		

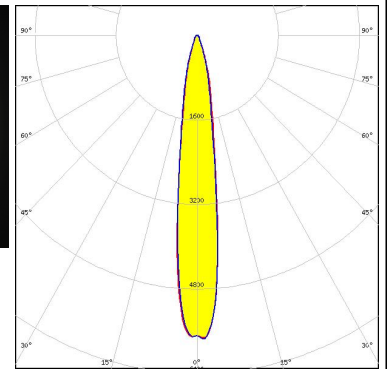
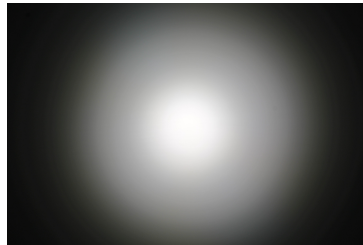
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 9.0° / 23.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 13.4 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-11 (19x19)</p> <p>FWHM / FWTM 18.0° / 43.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>		
<p><b>LUMINUS</b></p> <p>LED CXM-3</p> <p>FWHM / FWTM 7.0° / 20.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 20.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p><b>LUMINUS</b></p> <p>LED CXM-4</p> <p>FWHM / FWTM 8.0° / 22.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 15.9 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):

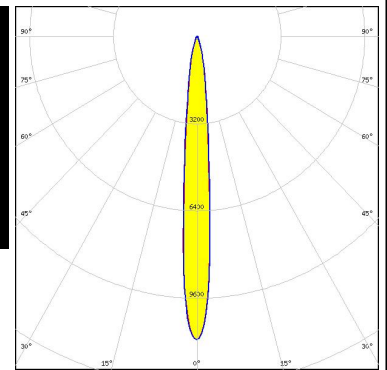
### SAMSUNG

LED LC010T (Tunable White)  
 FWHM / FWTM 15.0° / 36.0°  
 Efficiency 87 %  
 Peak intensity 5.7 cd/lm  
 LEDs/each optic 1  
 Light colour Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8



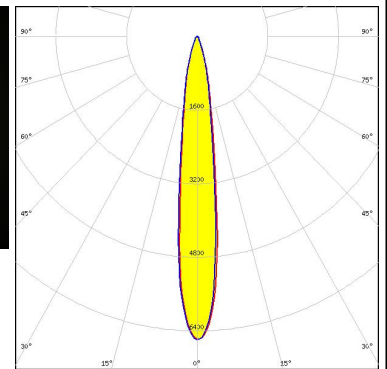
### XICATO

LED XOB 6 mm  
 FWHM / FWTM 10.0° / 27.0°  
 Efficiency 89 %  
 Peak intensity 11.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



### XICATO

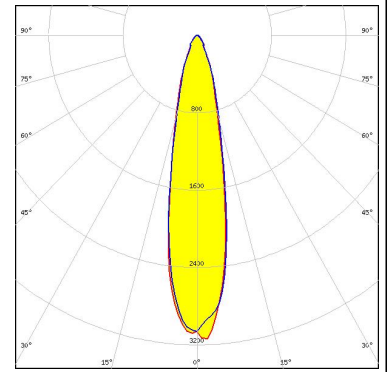
LED XOB 9.8 mm  
 FWHM / FWTM 14.0° / 35.0°  
 Efficiency 89 %  
 Peak intensity 6.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



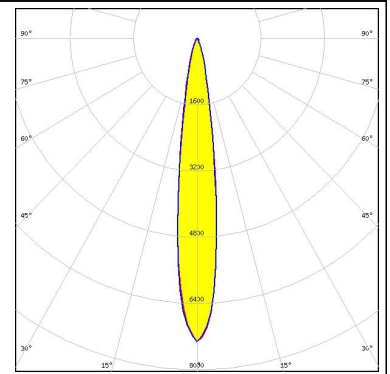
#### OPTICAL RESULTS (SIMULATED):



LED CMU15xx  
FWHM / FWTM 22.0° / 49.0°  
Efficiency 84 %  
Peak intensity 3.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17438\_HEKLA-G2-I



LED SLE G7 LES09  
FWHM / FWTM 14.0° / 32.0°  
Efficiency 88 %  
Peak intensity 7.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C





### 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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