

## CARMEN-50-RS-C-WHT

~11° spot beam. Assembly with holder C compatible with LEDiL HEKLA. White version.



### SPECIFICATION:

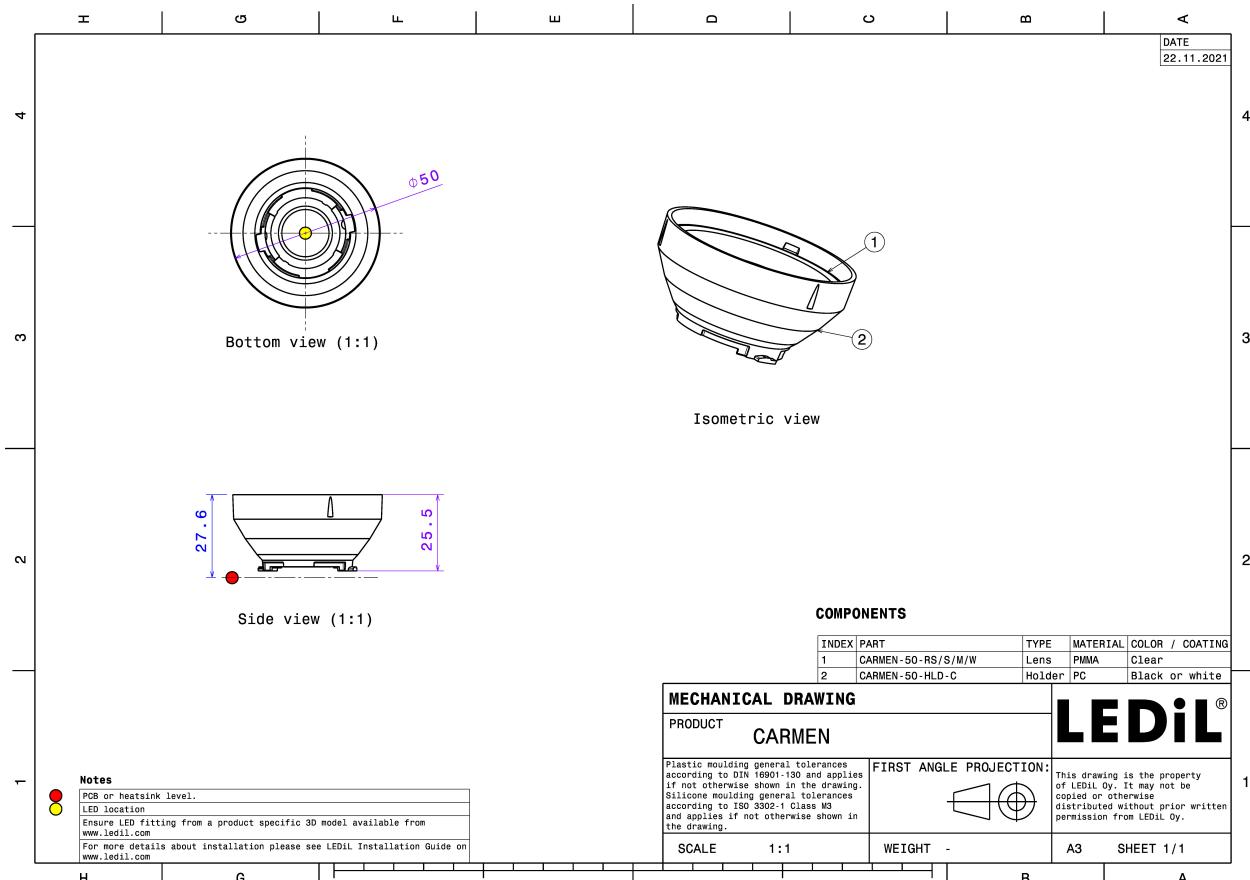
Dimensions	Ø 50.0
Height	25.5 mm
Fastening	socket
ROHS compliant	yes ⓘ

### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
CARMEN-50-RS	Single lens	PMMA	clear		
CARMEN-50-HLD-C-WHT	Holder	PC	white		

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP16632_CARMEN-50-RS-C-WHT	308	112	28	7.2
» Box size: 476 x 273 x 292 mm				

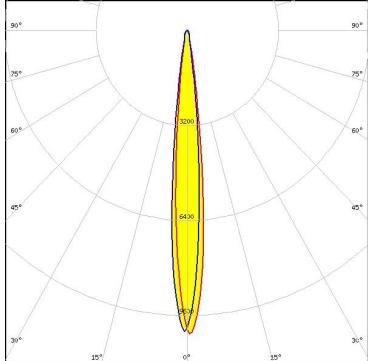


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



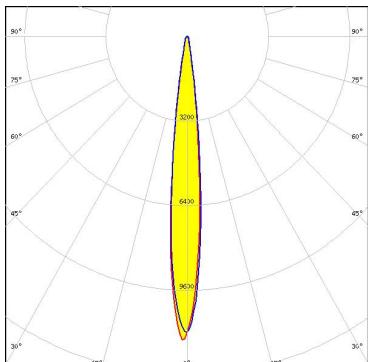
**LED** Vesta TW 6mm DP  
**FWHM / FWTM** 11.0° / 21.0°  
**Efficiency** 81 %  
**Peak intensity** 10.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 504 Typ L8



Light distribution files

### CITIZEN

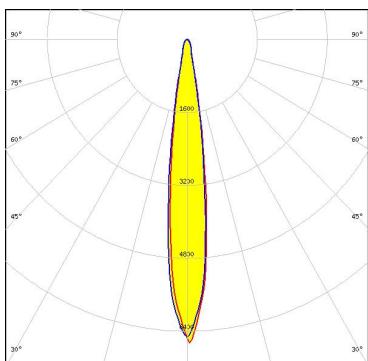
**LED** CLU700/701/702/703  
**FWHM / FWTM** 11.0° / 22.0°  
**Efficiency** 88 %  
**Peak intensity** 11.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15255\_HEKLA-SOCKET-C



Light distribution files

### CITIZEN

**LED** CLU710/711  
**FWHM / FWTM** 14.0° / 28.0°  
**Efficiency** 84 %  
**Peak intensity** 6.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I

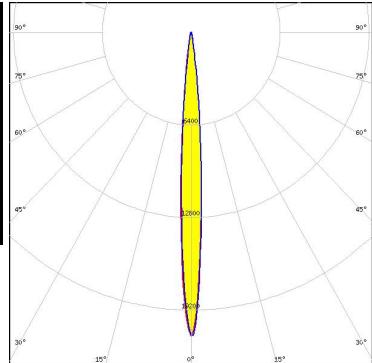


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

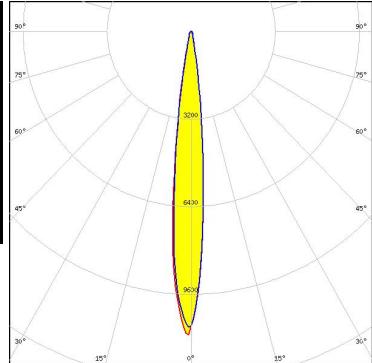
LED CLU7B2  
 FWHM / FWTM 8.0° / 17.0°  
 Efficiency 89 %  
 Peak intensity 21.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

#### CREE LEDs

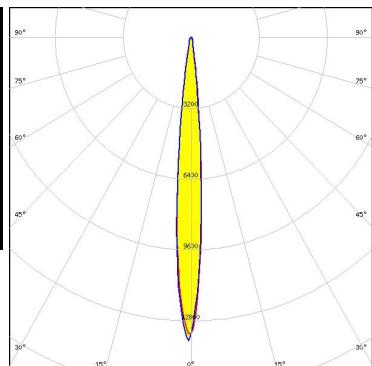
LED CXA/B 13xx  
 FWHM / FWTM 12.0° / 23.0°  
 Efficiency 87 %  
 Peak intensity 11.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15956\_HEKLA-SOCKET-J



Light distribution files

#### LUMILEDS

LED LUXEON CX Plus CoB - HD S01H4  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 88 %  
 Peak intensity 13.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla

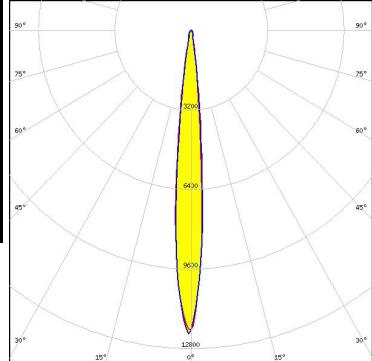


Light distribution files

### OPTICAL RESULTS (MEASURED):



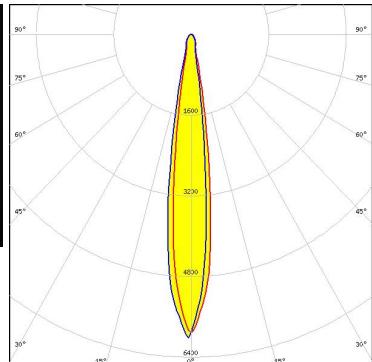
**LED** LUXEON CX Plus CoB - HD S02H6  
**FWHM / FWTM** 10.0° / 20.0°  
**Efficiency** 88 %  
**Peak intensity** 12.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 634c Hekla



Light distribution files



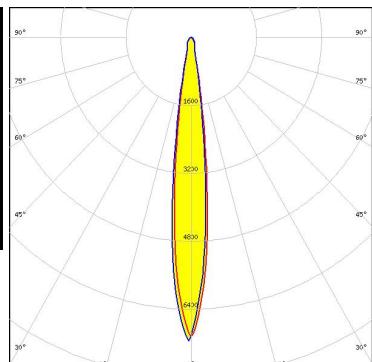
**LED** LUXEON CX Plus CoB - HD S04H9  
**FWHM / FWTM** 15.0° / 27.0°  
**Efficiency** 87 %  
**Peak intensity** 6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 634c Hekla



Light distribution files



**LED** LUXEON CX Plus CoB M02 / M03 (Gen2)  
**FWHM / FWTM** 13.0° / 25.0°  
**Efficiency** 86 %  
**Peak intensity** 7.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 641a Hekla

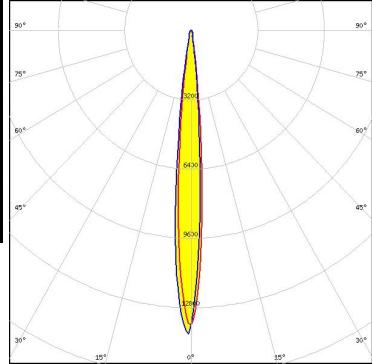


Light distribution files

### OPTICAL RESULTS (MEASURED):



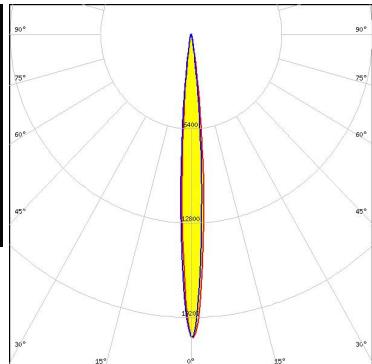
**LED** LUXEON CX Plus CoB S01 (Gen2)  
**FWHM / FWTM** 10.0° / 19.0°  
**Efficiency** 88 %  
**Peak intensity** 14 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 634c Hekla



Light distribution files



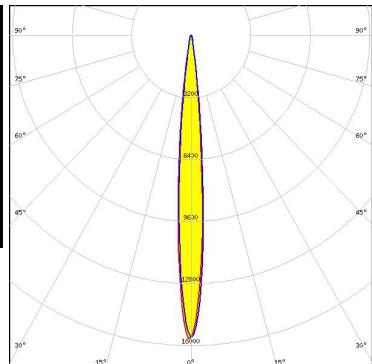
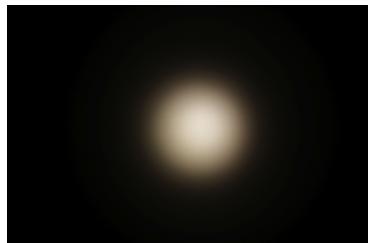
**LED** CXM-3  
**FWHM / FWTM** 8.0° / 17.0°  
**Efficiency** 91 %  
**Peak intensity** 20.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15255\_HEKLA-SOCKET-C



Light distribution files



**LED** CXM-4  
**FWHM / FWTM** 9.0° / 18.0°  
**Efficiency** 87 %  
**Peak intensity** 15.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15255\_HEKLA-SOCKET-C

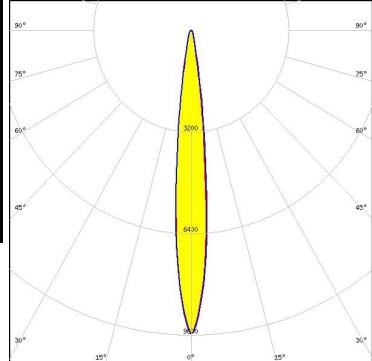


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### XICATO

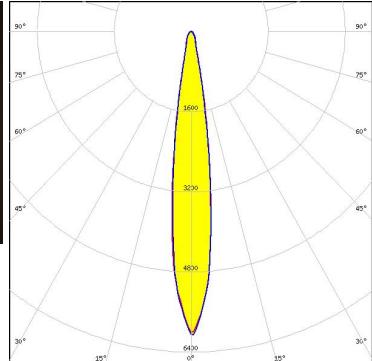
LED XOB 6 mm  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 85 %  
Peak intensity 9.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

#### XICATO

LED XOB 9.8 mm  
FWHM / FWTM 15.0° / 29.0°  
Efficiency 85 %  
Peak intensity 6.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

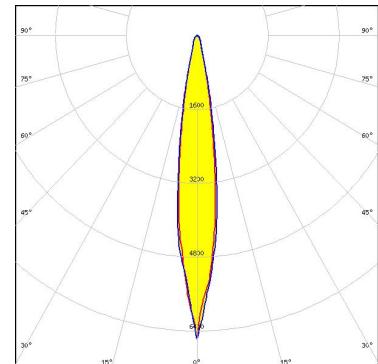


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

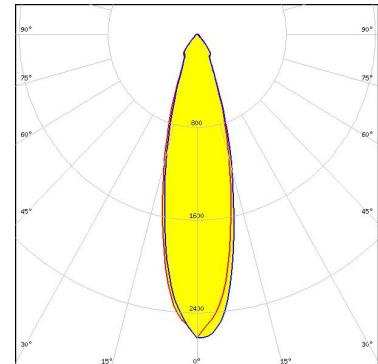
LED	CLU02x (LES10)
FWHM / FWTM	15.0° / 30.0°
Efficiency	87 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F15255_HEKLA-SOCKET-C



Light distribution files

#### CREE LEDs

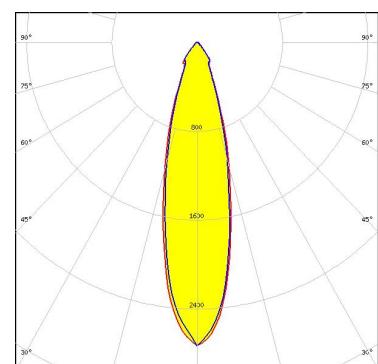
LED	CMU15xx
FWHM / FWTM	27.0° / 56.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F17438_HEKLA-G2-I



Light distribution files

#### CREE LEDs

LED	CMU15xx
FWHM / FWTM	26.0° / 54.0°
Efficiency	91 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F17438_HEKLA-G2-I

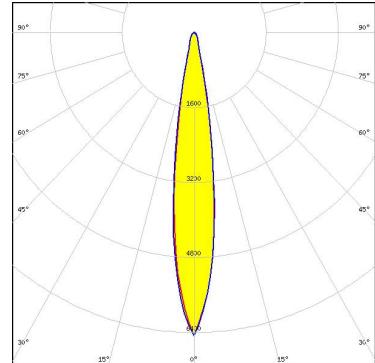


Light distribution files

### OPTICAL RESULTS (SIMULATED):



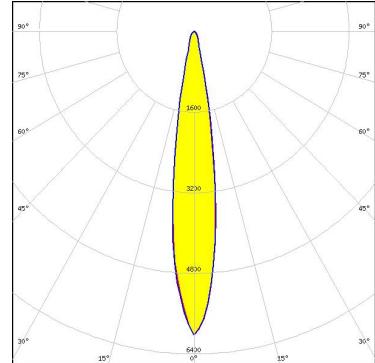
LED LUXEON CoB 1202/1203  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 88 %  
 Peak intensity 6.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



Light distribution files



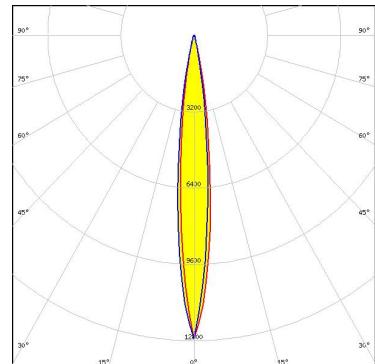
LED LUXEON CoB 1204HD  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 88 %  
 Peak intensity 6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



Light distribution files

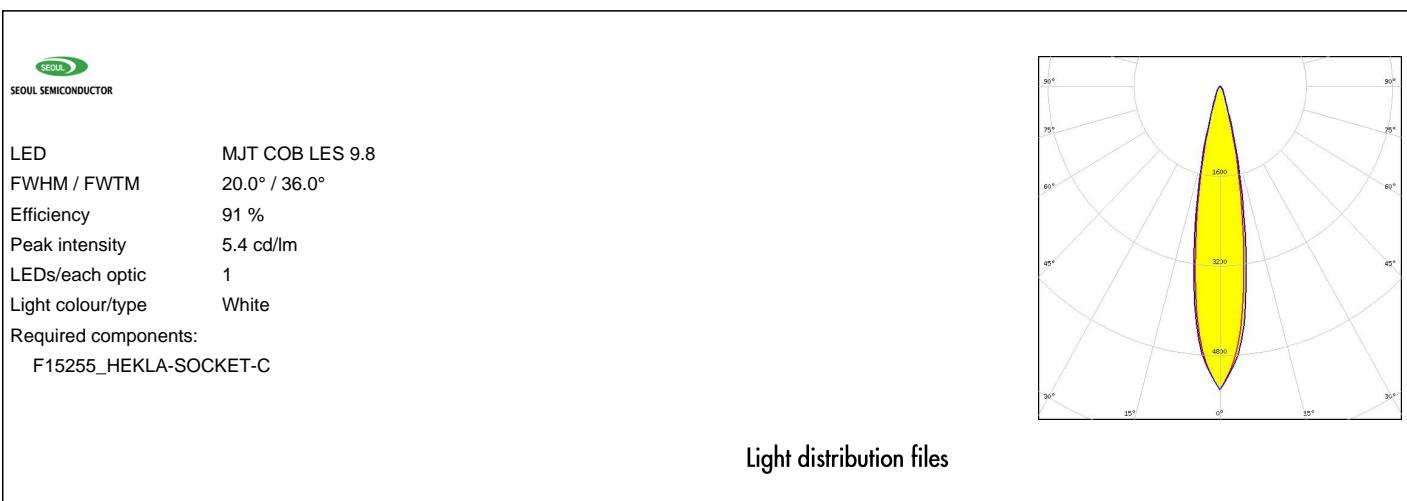


LED MJT COB LES 6  
 FWHM / FWTM 11.0° / 25.0°  
 Efficiency 92 %  
 Peak intensity 12.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

## OPTICAL RESULTS (SIMULATED):



### GENERAL INFORMATION:

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

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

### MATERIALS:

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

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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