

#### CARMEN-50-M-C-WHT

~35° spot beam. Assembly with holder C compatible with HEKLA sockets and connectors. White version.

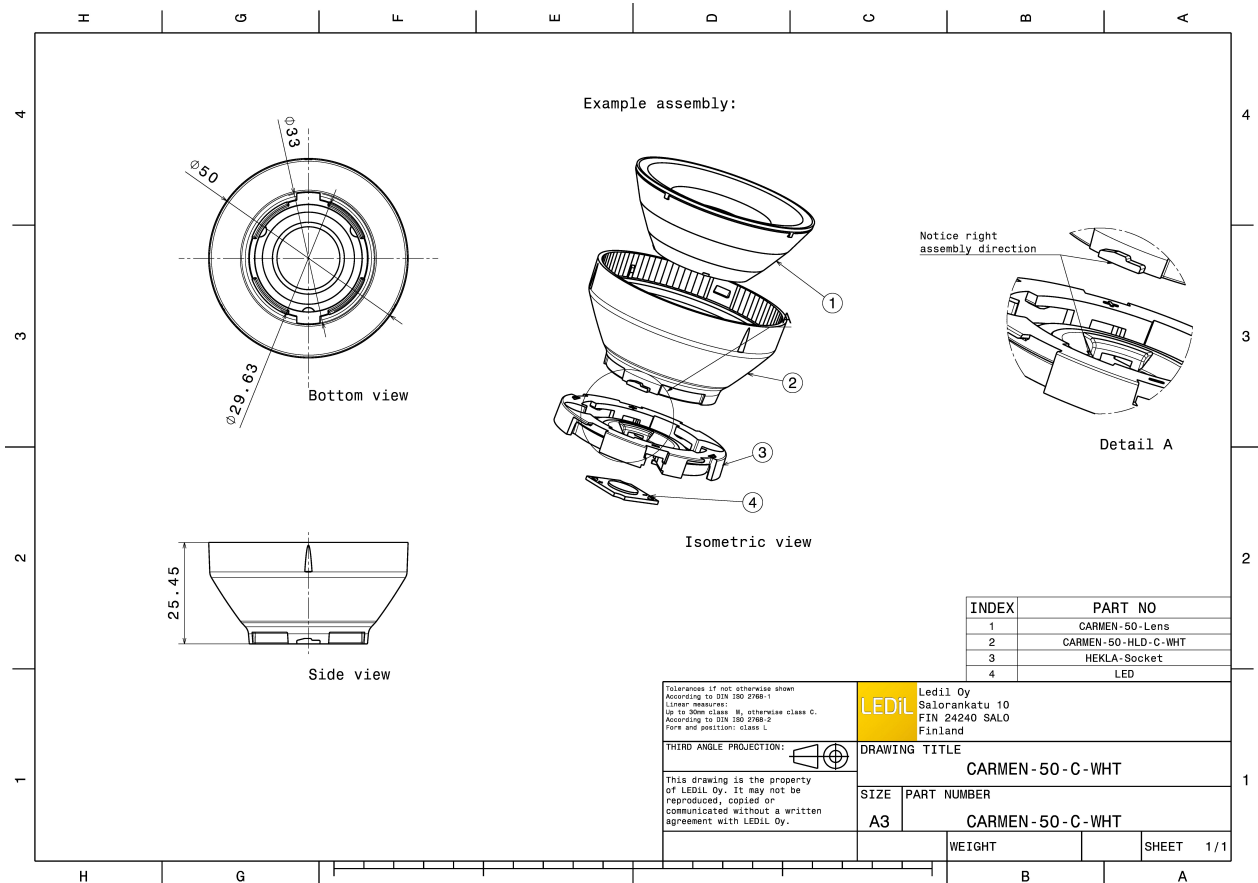
#### TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	25.5 mm
Fastening	socket
Colour	
Box size	476 x 273 x 292 mm
Box weight	5.9 kg
Quantity in Box	308 pcs
ROHS compliant	yes ⓘ



#### MATERIAL SPECIFICATIONS:

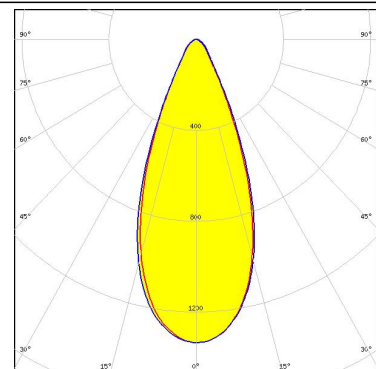
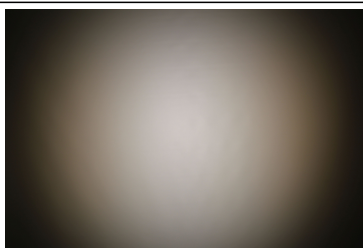
Component	Type	Material	Colour
CARMEN-50-M	Single lens	PMMA	
CARMEN-50-HLD-C-WHT	Holder	PC	



#### PHOTOMETRIC DATA (MEASURED):

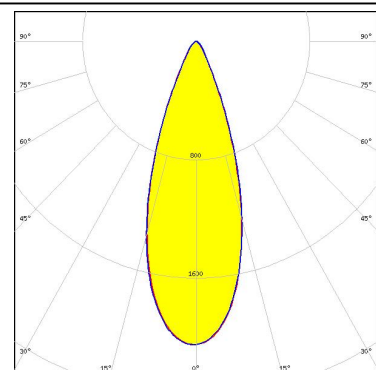
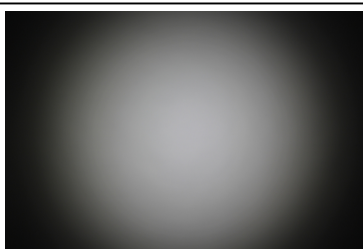


LED Vesta TW 9mm (9W) DP  
FWHM 42.0°  
Efficiency 82 %  
Peak intensity 1.336 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 489 Typ L8



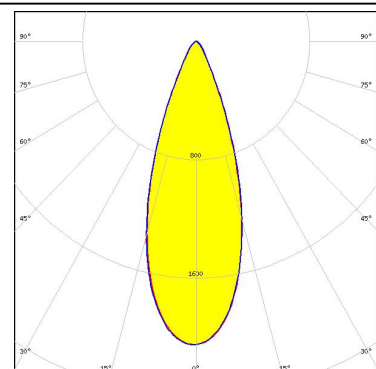
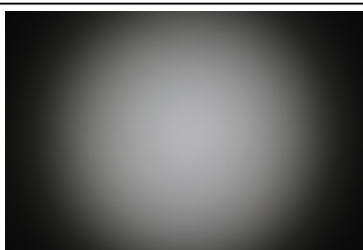
#### CITIZEN

LED CLU700/701  
FWHM 36.0°  
Efficiency 91 %  
Peak intensity 2.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



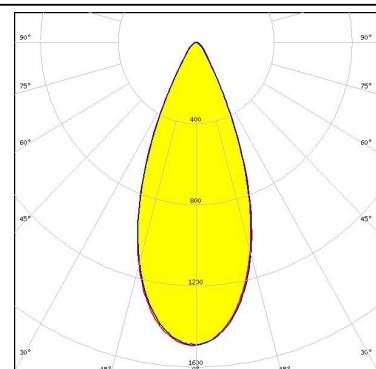
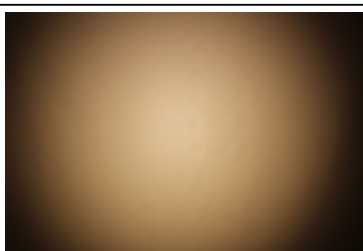
#### CITIZEN

LED CLU700/701  
FWHM 36.0°  
Efficiency 91 %  
Peak intensity 2.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
FP15501\_HEKLA-C



#### CITIZEN

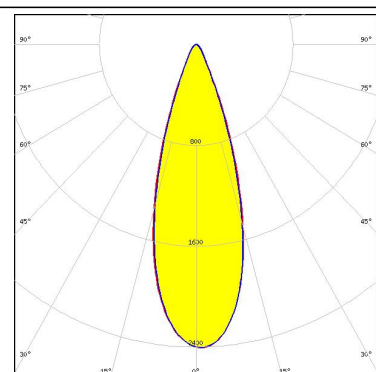
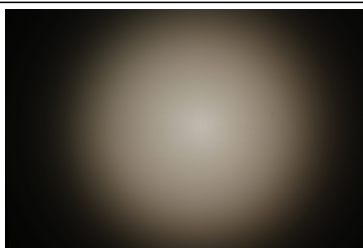
LED CLU710/711  
FWHM 42.0°  
Efficiency 87 %  
Peak intensity 1.496 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



#### PHOTOMETRIC DATA (MEASURED):

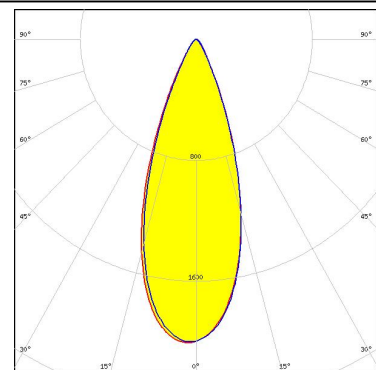
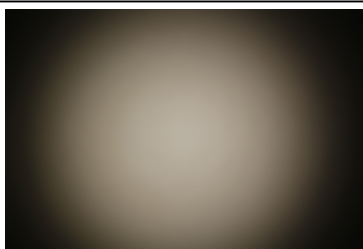
#### CITIZEN

LED CLU7B2  
FWHM 34.0°  
Efficiency 92 %  
Peak intensity 2.410 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



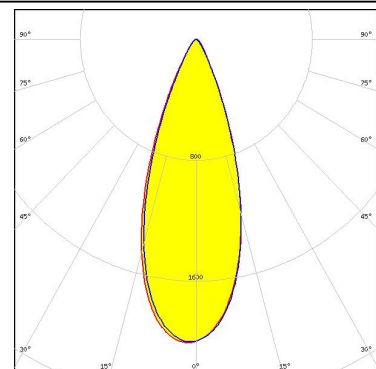
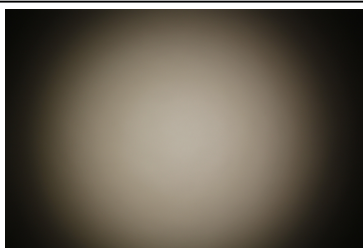
#### CREE

LED CXA/B 13xx  
FWHM 37.0°  
Efficiency 90 %  
Peak intensity 2.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15956\_HEKLA-SOCKET-J



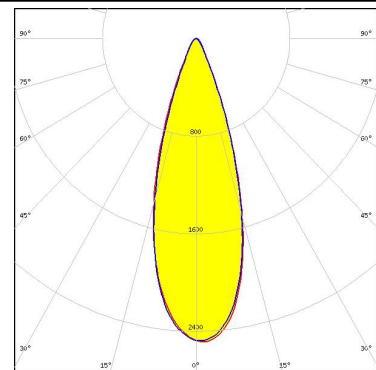
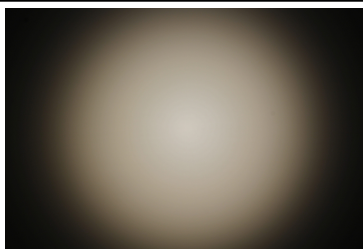
#### CREE

LED CXA/B 13xx  
FWHM 37.0°  
Efficiency 90 %  
Peak intensity 2.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
FP15957\_HEKLA-J



#### LUMINUS

LED CXM-3  
FWHM 33.0°  
Efficiency 94 %  
Peak intensity 2.488 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C

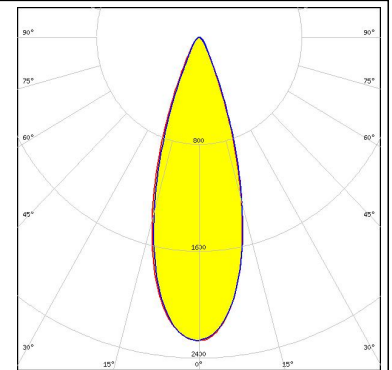
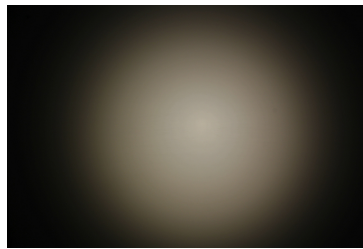




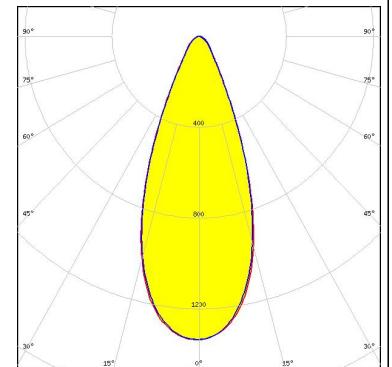
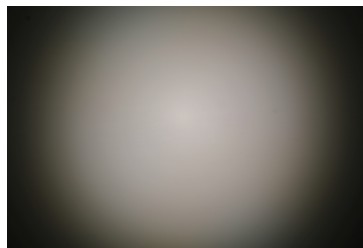
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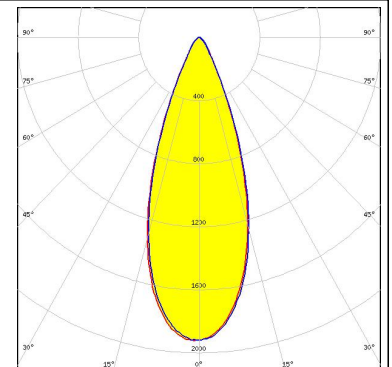
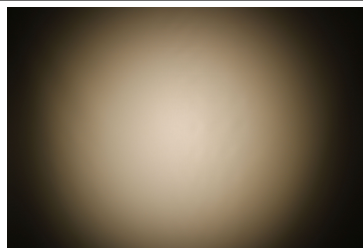
LED CXM-4  
FWHM 34.0°  
Efficiency 90 %  
Peak intensity 2.272 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



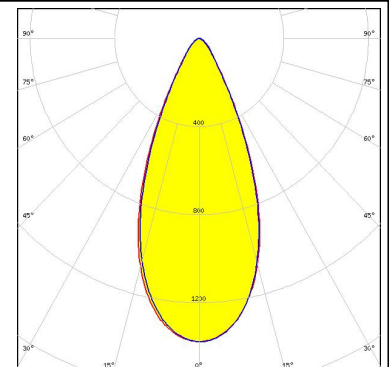
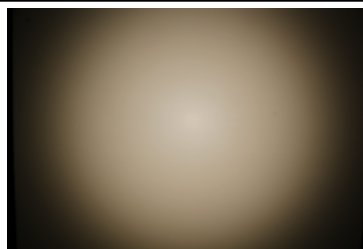
LED LC010T (Tunable White)  
FWHM 41.0°  
Efficiency 81 %  
Peak intensity 1.337 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 501 Typ L8



LED XOB 6 mm  
FWHM 37.0°  
Efficiency 89 %  
Peak intensity 1.931 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



LED XOB 9.8 mm  
FWHM 45.0°  
Efficiency 88 %  
Peak intensity 1.379 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.

#### 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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