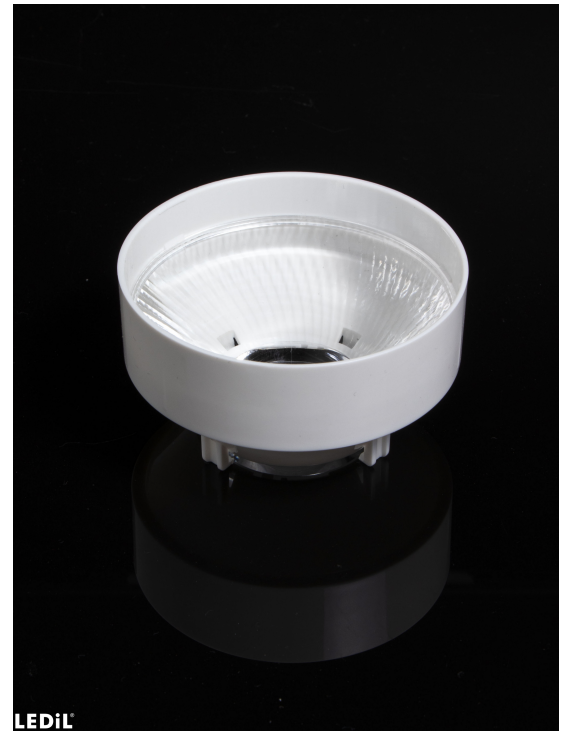


CARMEN-M2-C-WHT

~25° wide 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 ⓘ

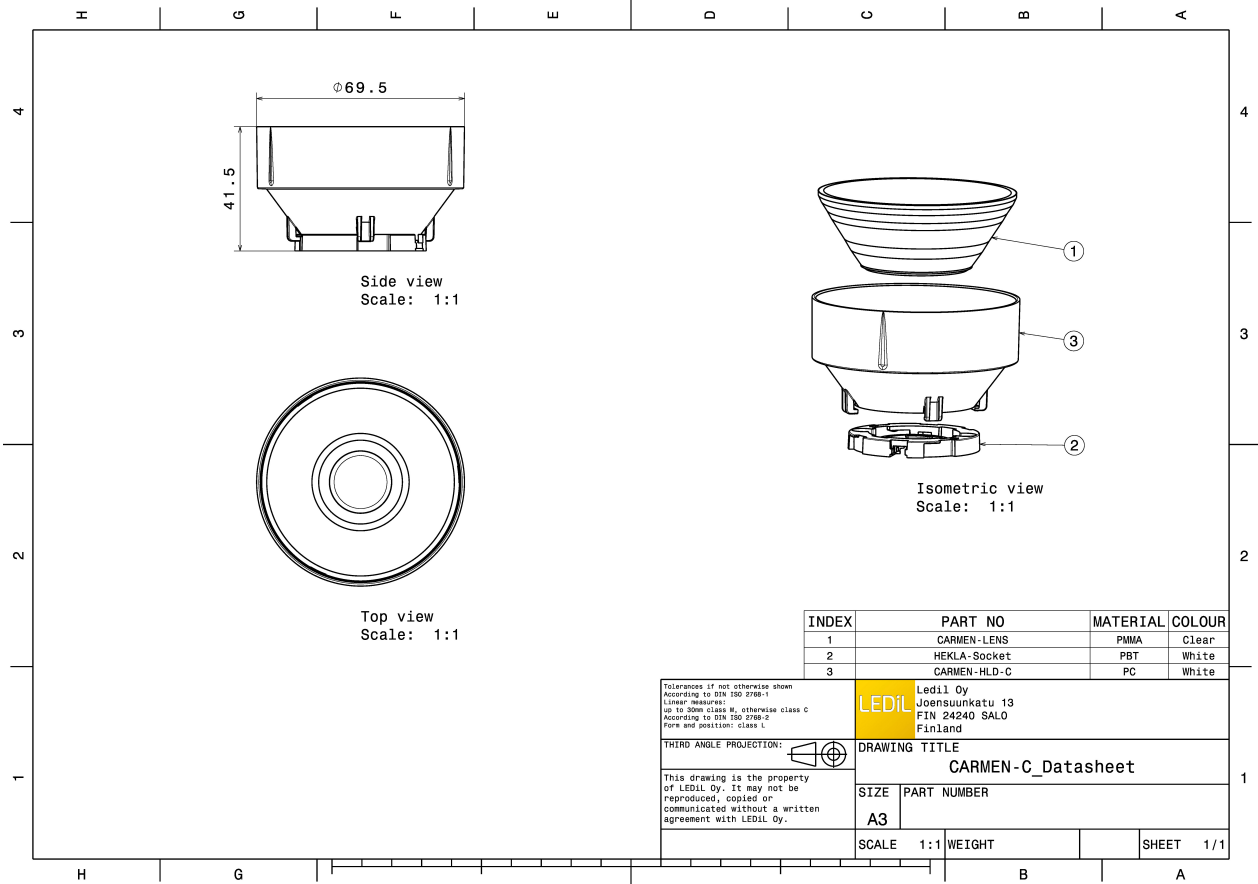


MATERIALS:

Component	Type	Material	Colour	Finish	Length
CARMEN-M2	Single lens	PMMA	clear		66.4
CARMEN-HLD-C-WHT	Holder	PC	white		69.5

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17138_CARMEN-M2-C-WHT » Box size: 480 x 280 x 300 mm	150	150	15	8.8

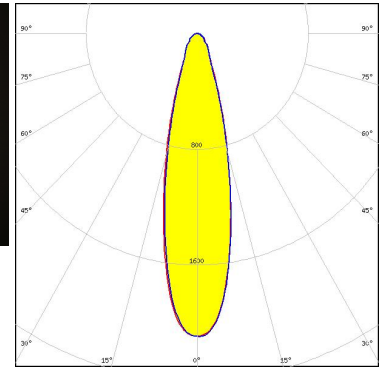
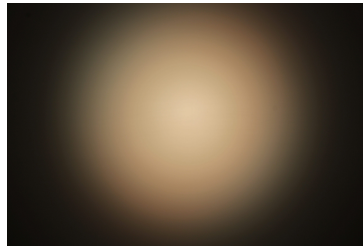


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



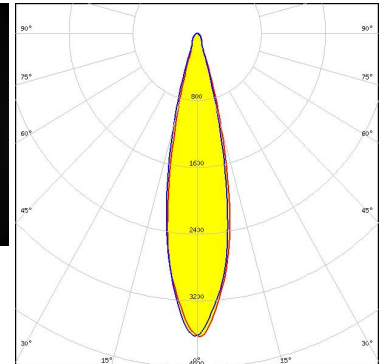
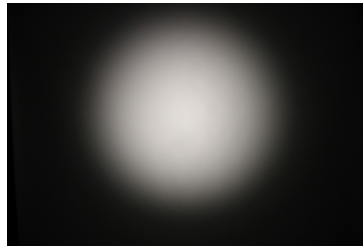
LED Vesta DTW 13mm (21W)
FWHM / FWTM 26.0° / 55.0°
Efficiency 81 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 491 Typ L8



Light distribution files



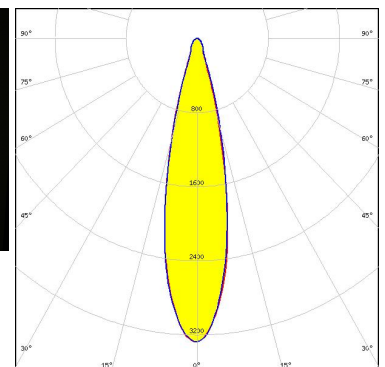
LED Vesta TW 6mm DP
FWHM / FWTM 24.0° / 39.0°
Efficiency 84 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 504 Typ L8



Light distribution files

CITIZEN

LED CLU710/711
FWHM / FWTM 24.0° / 41.0°
Efficiency 86 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F15859_HEKLA-SOCKET-I

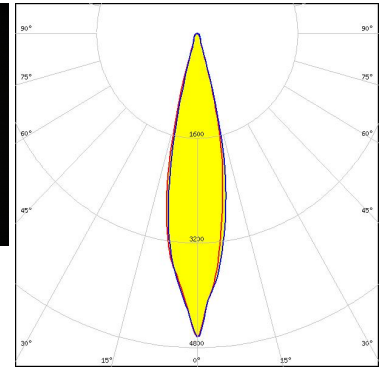
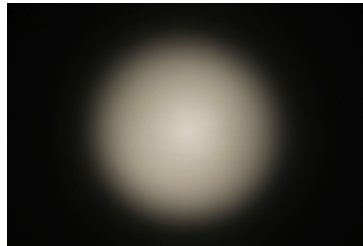


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

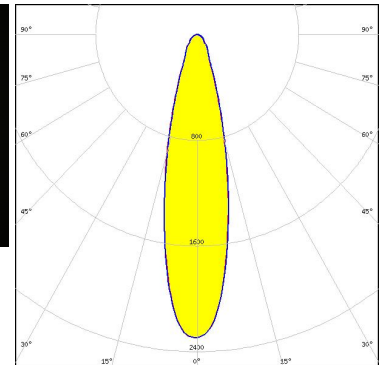
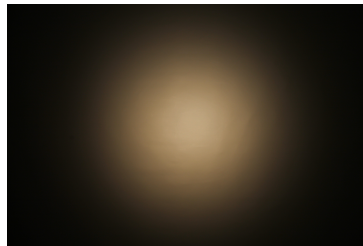
LED CLU7B2
 FWHM / FWTM 22.0° / 36.0°
 Efficiency 88 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files

LUMILEDS

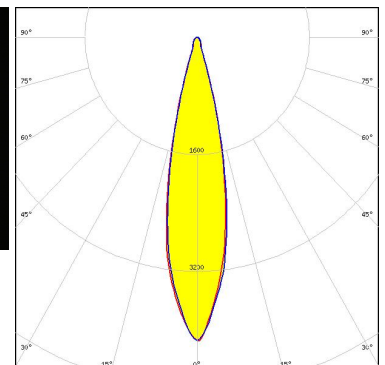
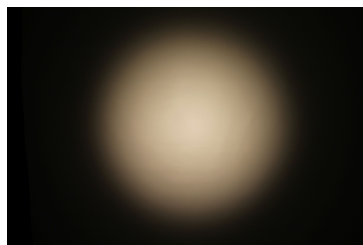
LED LUXEON CX Plus CoB L08 (Gen2)
 FWHM / FWTM 25.0° / 53.0°
 Efficiency 84 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 637a Hekla



Light distribution files

LUMILEDS

LED LUXEON CX Plus CoB - HD S01H4
 FWHM / FWTM 23.0° / 37.0°
 Efficiency 87 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 634c Hekla

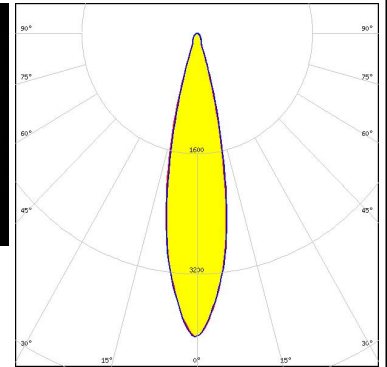
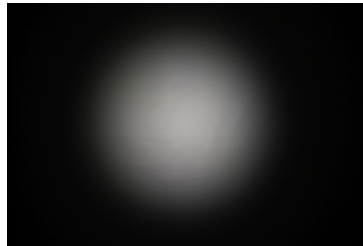


Light distribution files

OPTICAL RESULTS (MEASURED):



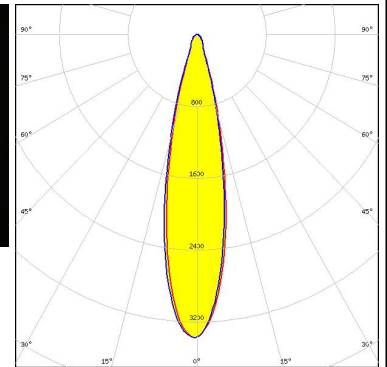
LED LUXEON CX Plus CoB - HD S02H6
 FWHM / FWTM 23.0° / 38.0°
 Efficiency 87 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 634c Hekla



Light distribution files



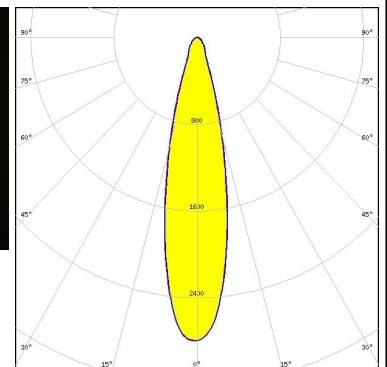
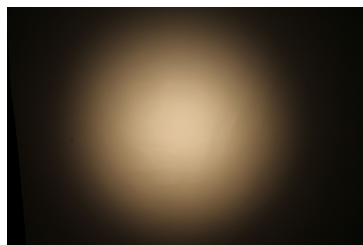
LED LUXEON CX Plus CoB - HD S04H9
 FWHM / FWTM 23.0° / 42.0°
 Efficiency 86 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON CX Plus CoB L04 / L05 (Gen2)
 FWHM / FWTM 24.0° / 46.0°
 Efficiency 85 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 637a Hekla

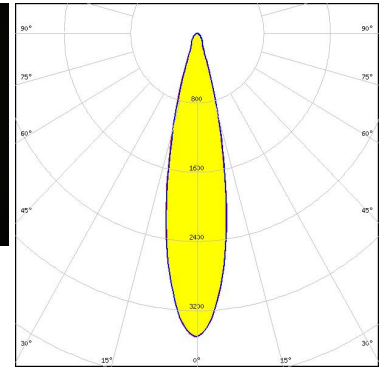


Light distribution files

OPTICAL RESULTS (MEASURED):



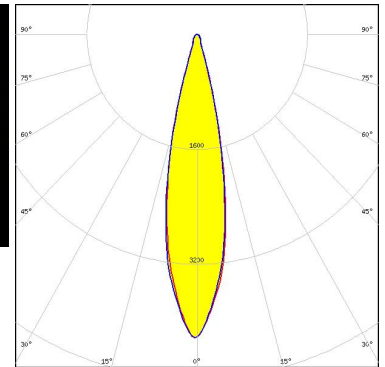
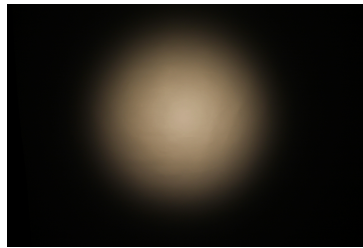
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 FWHM / FWTM 23.0° / 41.0°
 Efficiency 86 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 641a Hekla



Light distribution files



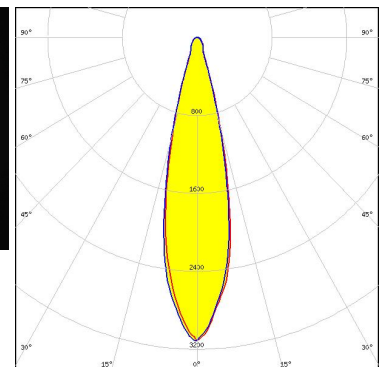
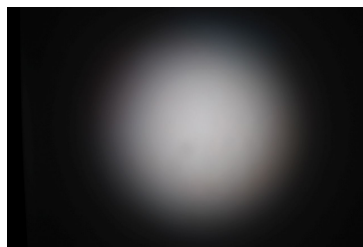
LED LUXEON CX Plus CoB S01 (Gen2)
 FWHM / FWTM 23.0° / 37.0°
 Efficiency 87 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON Fusion 21-up (20x24)
 FWHM / FWTM 25.0° / 41.0°
 Efficiency 83 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 21
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 442 Typ L8

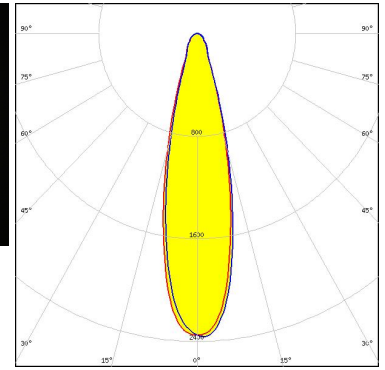


Light distribution files

OPTICAL RESULTS (MEASURED):



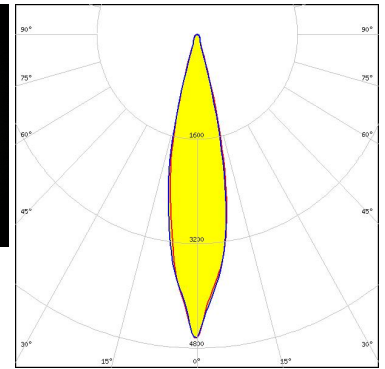
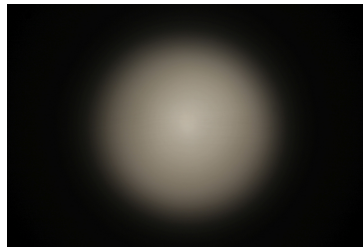
LED CxM-11 (19x19)
FWHM / FWTM 26.0° / 50.0°
Efficiency 84 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15859_HEKLA-SOCKET-I



Light distribution files



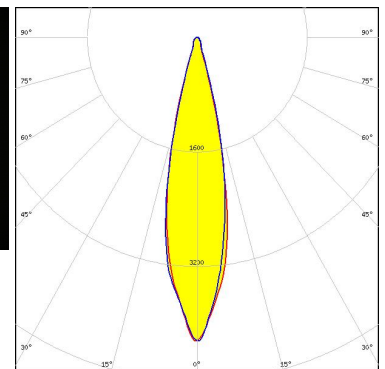
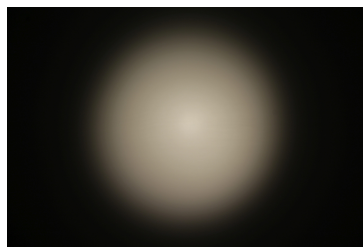
LED CXM-3
FWHM / FWTM 22.0° / 35.0°
Efficiency 88 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15255_HEKLA-SOCKET-C



Light distribution files



LED CXM-4
FWHM / FWTM 23.0° / 36.0°
Efficiency 88 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15255_HEKLA-SOCKET-C



Light distribution files

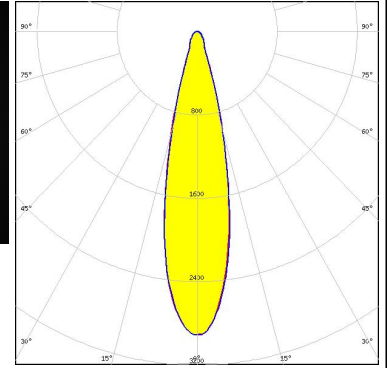
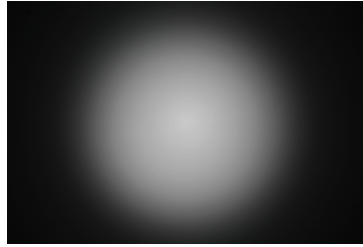
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LC010T (Tunable White)
FWHM / FWTM 24.0° / 43.0°
Efficiency 84 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour/type Tunable White

Required components:

C16142_HEKLA-SOCKET-K
Bender Wirth: 501 Typ L8

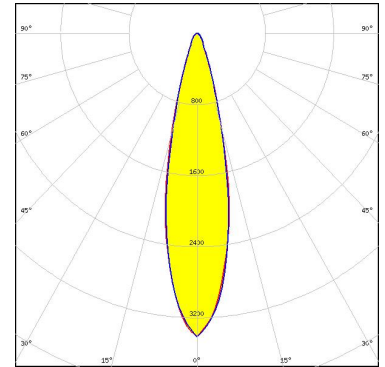


Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

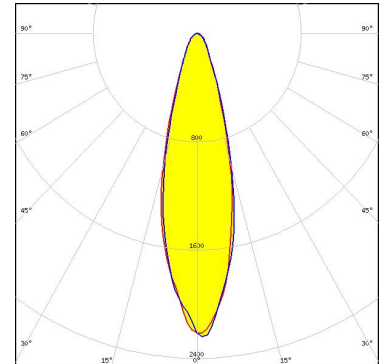
LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	24.0° / 45.0°
Efficiency	89 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	CMU15xx
FWHM / FWTM	28.0° / 56.0°
Efficiency	83 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	F17438_HEKLA-G2-I



Light distribution files

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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