

CARMEN-W-C-WHT

~55° 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 ⓘ



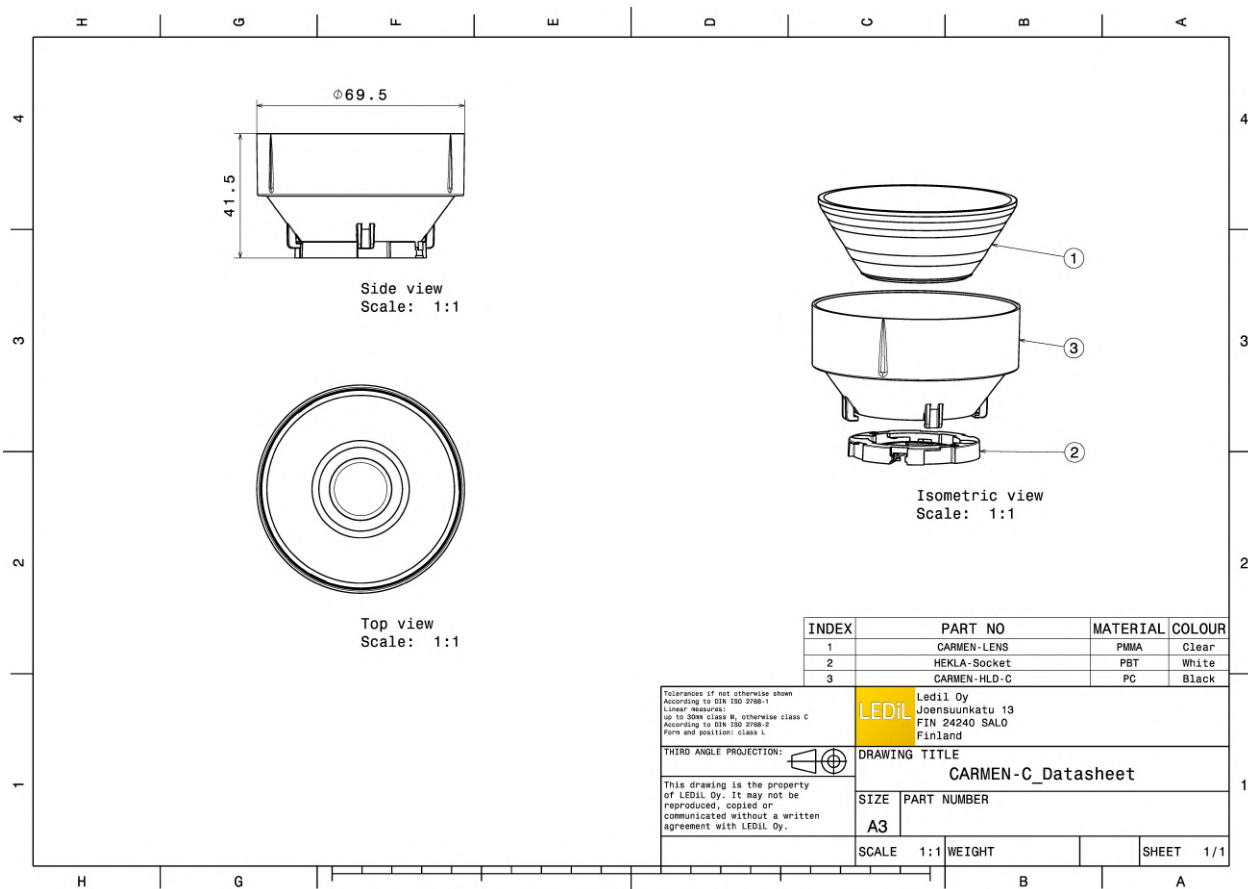
LEDiL

MATERIALS:

Component	Type	Material	Colour	Finish	Length
CARMEN-W	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)
CP16939_CARMEN-W-C-WHT	Single lens	150	150	15	6.2
» Box size: 476 x 273 x 292 mm					

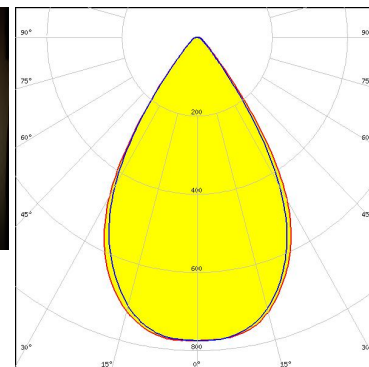
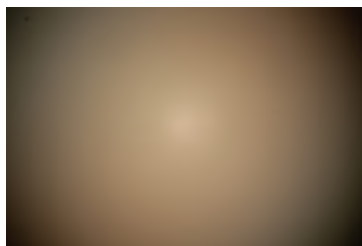


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



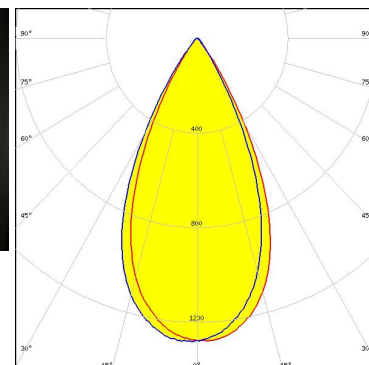
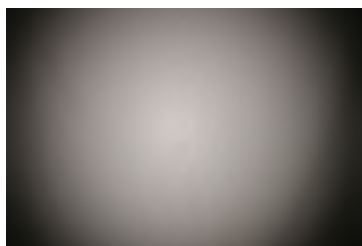
LED Vesta DTW 13mm (21W)
 FWHM / FWTM 65.0° / 88.0°
 Efficiency 83 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 491 Typ L8



Light distribution files



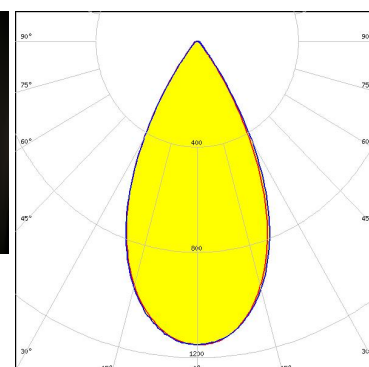
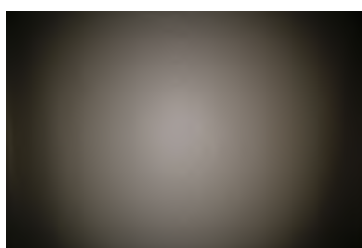
LED Vesta TW 6mm DP
 FWHM / FWTM 50.0° / 73.0°
 Efficiency 88 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 504 Typ L8



Light distribution files



LED Vesta TW 9mm (9W) DP
 FWHM / FWTM 52.0° / 77.0°
 Efficiency 88 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 489 Typ L8

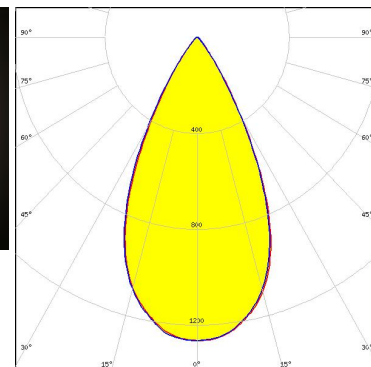
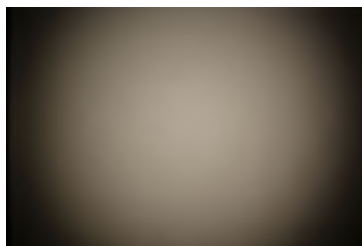


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

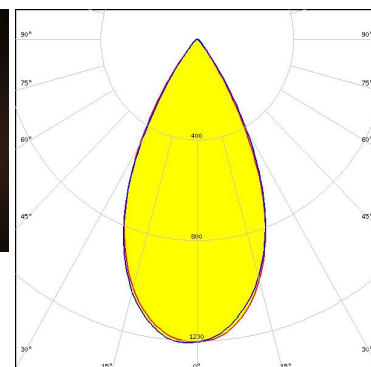
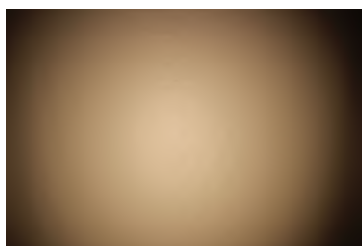
LED CLU700/701/702/703
 FWHM / FWTM 52.0° / 75.0°
 Efficiency 92 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files

CITIZEN

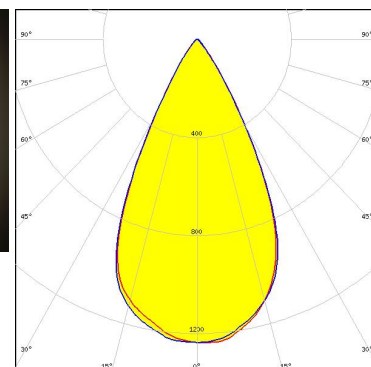
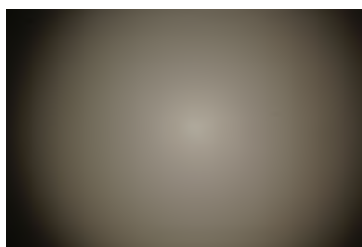
LED CLU710/711
 FWHM / FWTM 53.0° / 76.0°
 Efficiency 89 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files

CITIZEN

LED CLU7B2
 FWHM / FWTM 53.0° / 75.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C

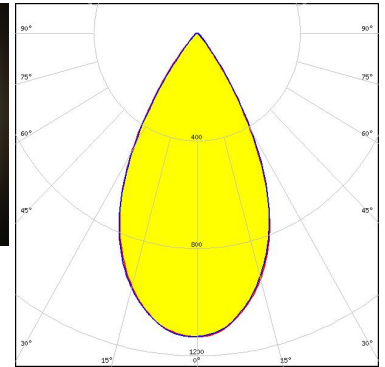
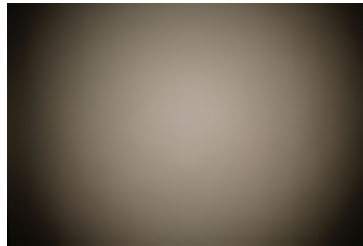


Light distribution files

OPTICAL RESULTS (MEASURED):



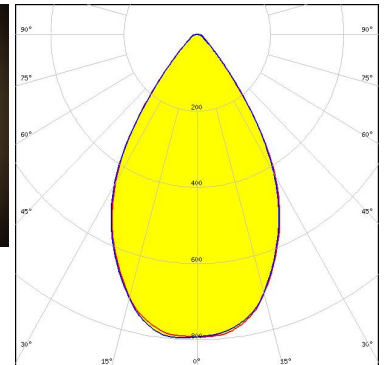
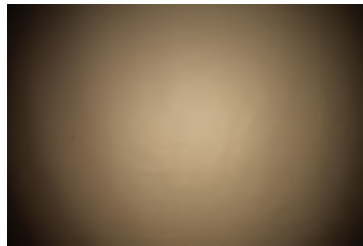
LED CXA/B 15xx
FWHM / FWTM 55.0° / 79.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15256_HEKLA-SOCKET-D



Light distribution files



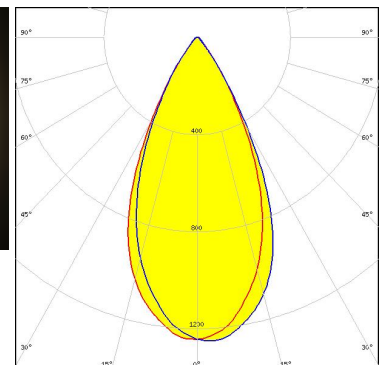
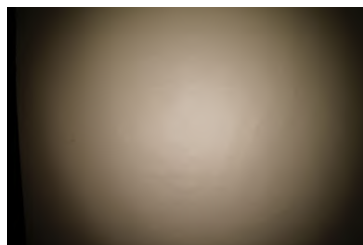
LED LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM 63.0° / 92.0°
Efficiency 85 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 637a Hekla



Light distribution files



LED LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM 50.0° / 77.0°
Efficiency 89 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 634c Hekla

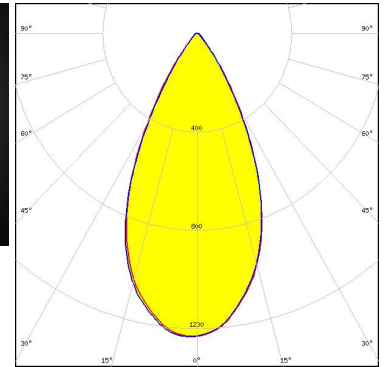
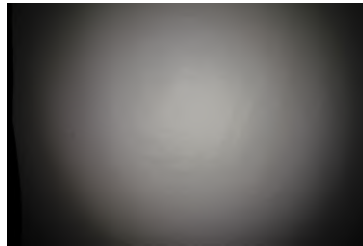


Light distribution files

OPTICAL RESULTS (MEASURED):



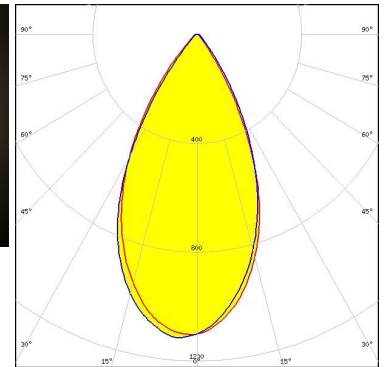
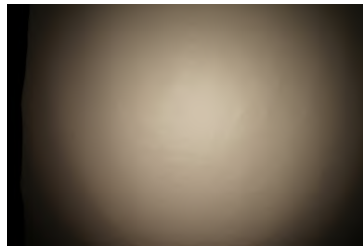
LED LUXEON CX Plus CoB - HD S02H6
 FWHM / FWTM 51.0° / 77.0°
 Efficiency 89 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 634c Hekla



Light distribution files



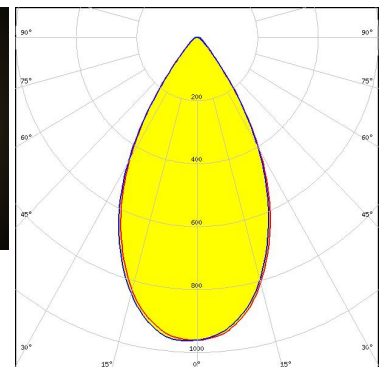
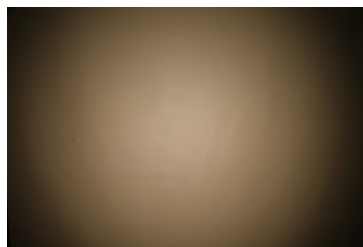
LED LUXEON CX Plus CoB - HD S04H9
 FWHM / FWTM 53.0° / 80.0°
 Efficiency 88 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON CX Plus CoB L04 / L05 (Gen2)
 FWHM / FWTM 57.0° / 85.0°
 Efficiency 87 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 637a Hekla

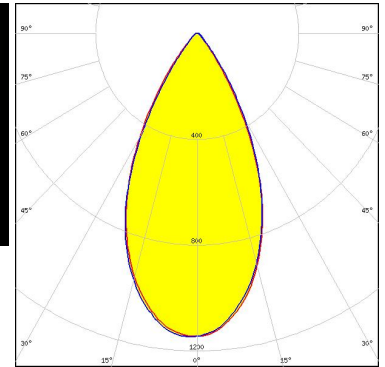
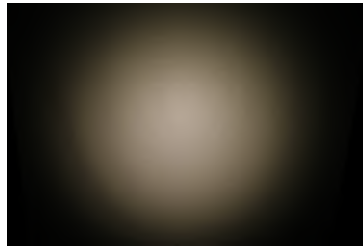


Light distribution files

OPTICAL RESULTS (MEASURED):



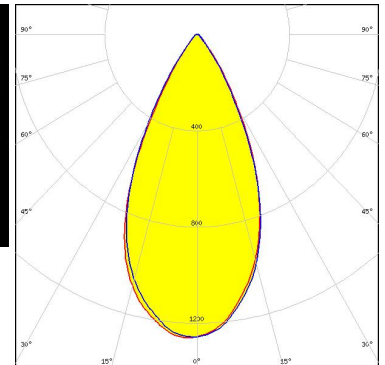
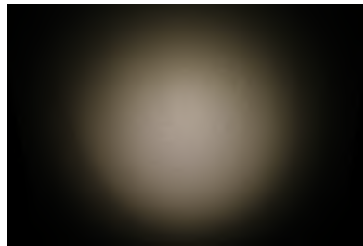
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 FWHM / FWTM 52.0° / 79.0°
 Efficiency 88 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 641a Hekla



Light distribution files



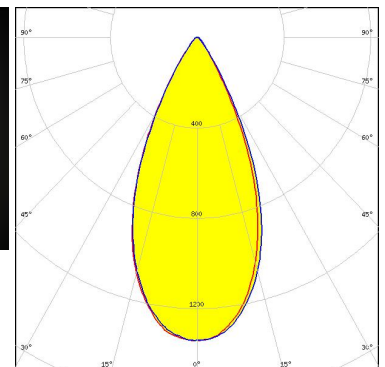
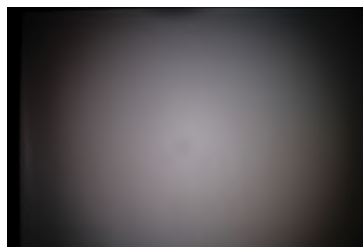
LED LUXEON CX Plus CoB S01 (Gen2)
 FWHM / FWTM 50.0° / 76.0°
 Efficiency 89 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON Fusion 21-up (20x24)
 FWHM / FWTM 48.0° / 73.0°
 Efficiency 88 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 21
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 442 Typ L8

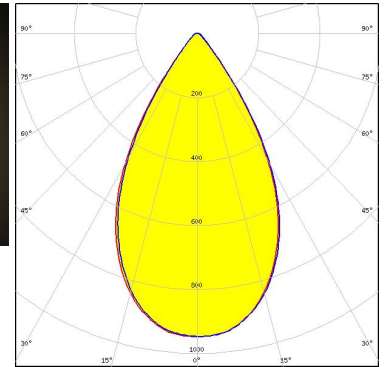
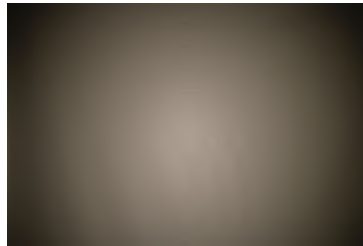


Light distribution files

OPTICAL RESULTS (MEASURED):



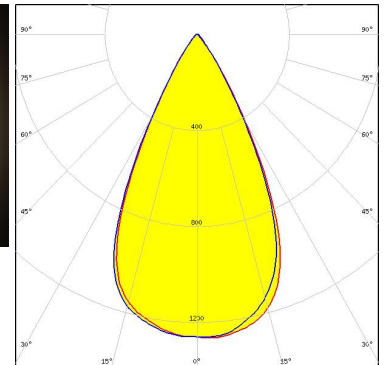
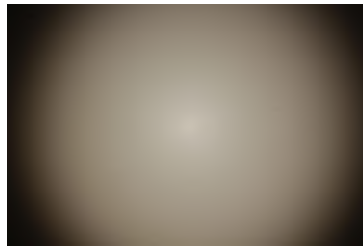
LED CxM-11 (19x19)
 FWHM / FWTM 60.0° / 83.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files



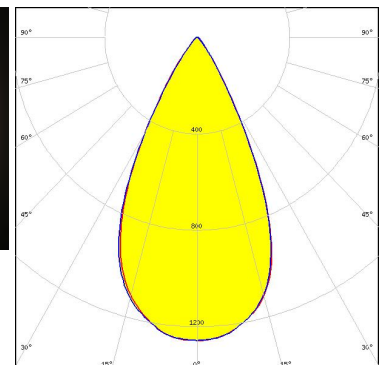
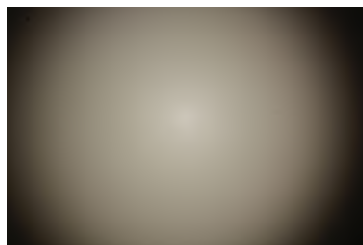
LED CXM-3
 FWHM / FWTM 53.0° / 74.0°
 Efficiency 95 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files



LED CXM-4
 FWHM / FWTM 52.0° / 74.0°
 Efficiency 92 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C

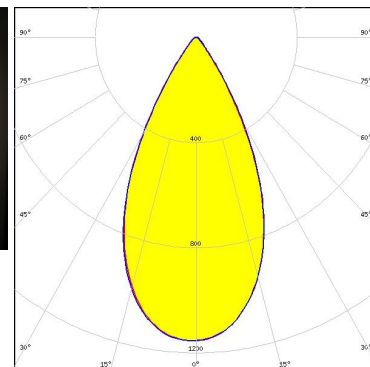
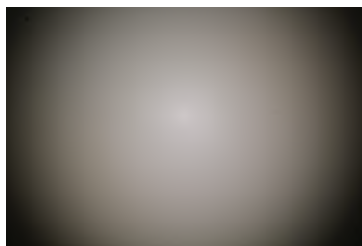


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

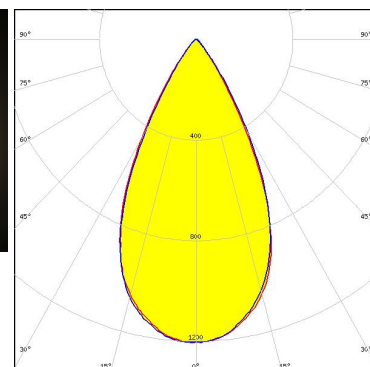
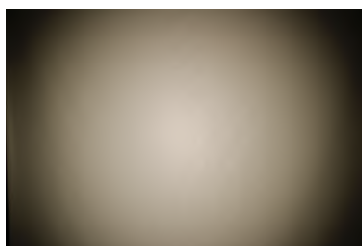
LED LC010T (Tunable White)
 FWHM / FWTM 52.0° / 77.0°
 Efficiency 87 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



Light distribution files

XICATO

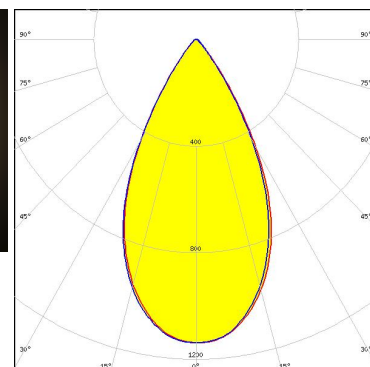
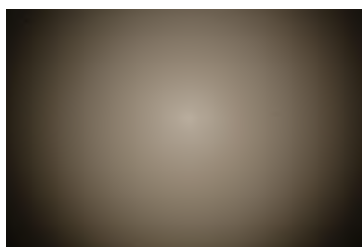
LED XO6 6 mm
 FWHM / FWTM 54.0° / 76.0°
 Efficiency 91 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files

XICATO

LED XO6 9.8 mm
 FWHM / FWTM 54.0° / 79.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C

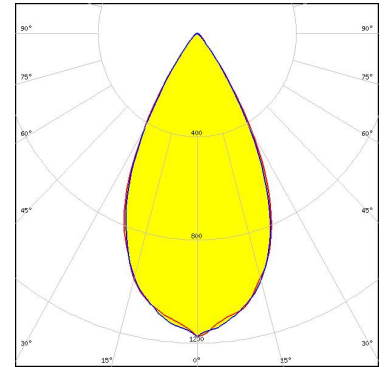


Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

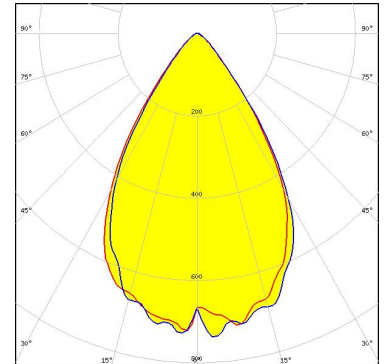
LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	54.0° / 76.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



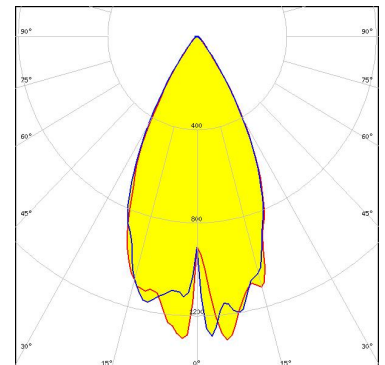
LED	CMU15xx
FWHM / FWTM	65.0° / 92.0°
Efficiency	79 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F17438_HEKLA-G2-I



Light distribution files

TRIDONIC

LED	SLE G7 LES09
FWHM / FWTM	51.0° / 76.0°
Efficiency	90 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F15255_HEKLA-SOCKET-C



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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Poznan, Poland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)