

## CARMEN-M-C-WHT

~35° 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 ⓘ

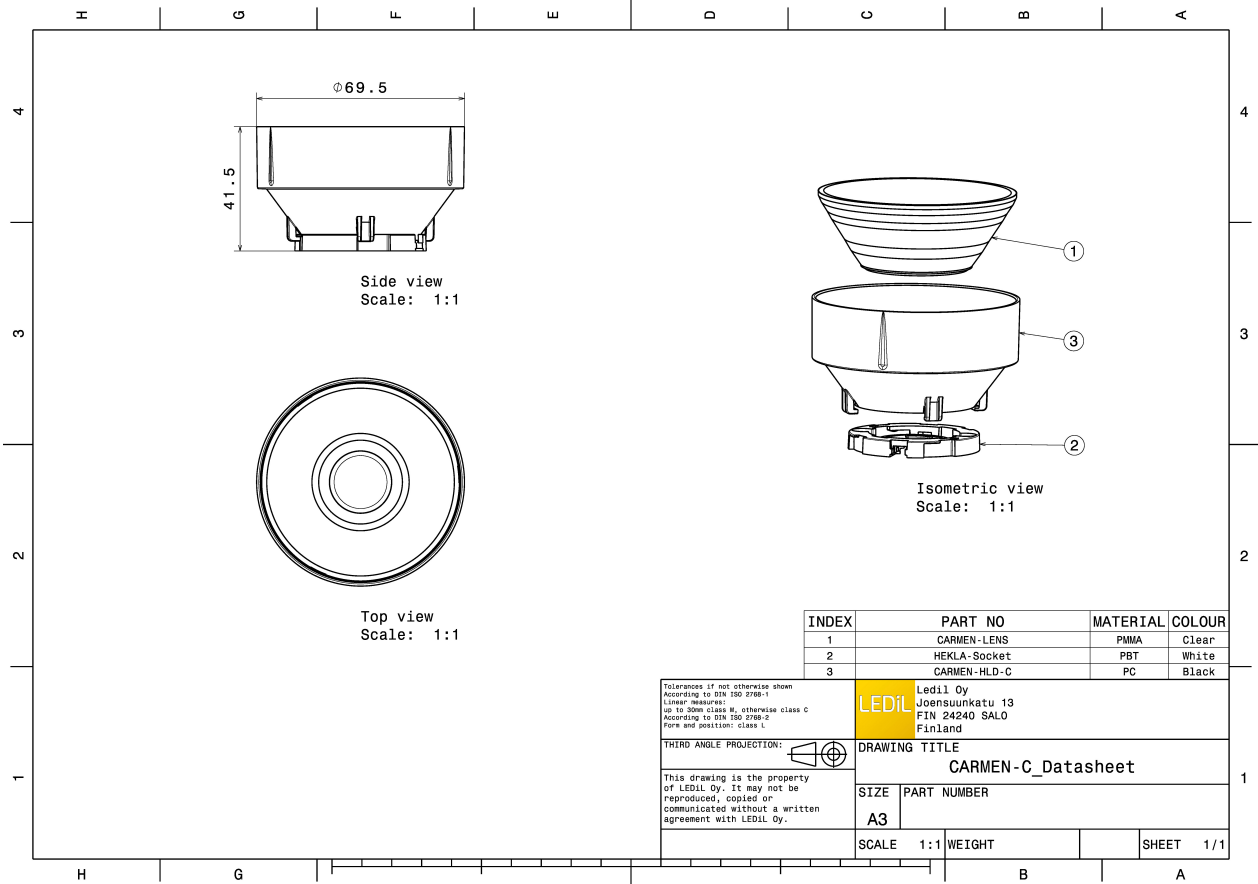


### MATERIALS:

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

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CP16938_CARMEN-M-C-WHT » Box size: 476 x 273 x 292 mm	Single lens	150	150	15	6.1



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

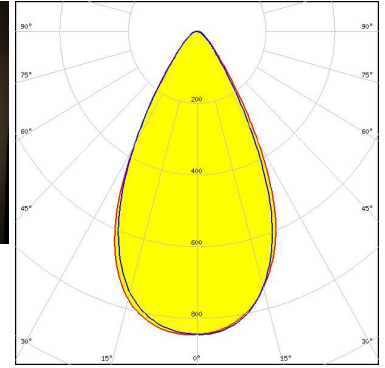
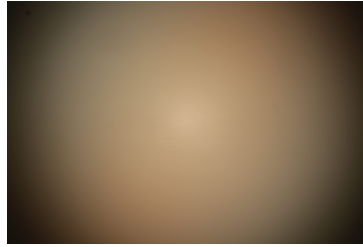
#### OPTICAL RESULTS (MEASURED):

bridgelux

LED Vesta DTW 13mm (21W)  
 FWHM / FWTM 56.0° / 86.0°  
 Efficiency 79 %  
 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



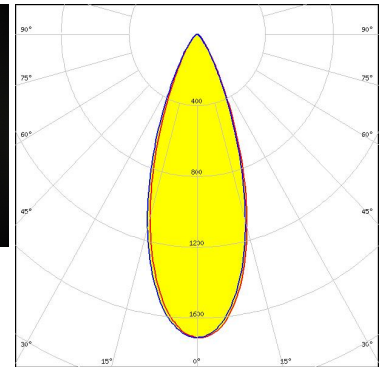
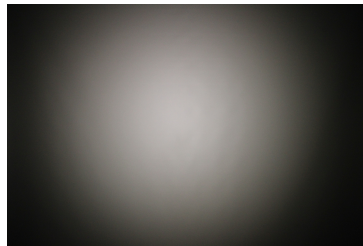
Light distribution files

bridgelux

LED Vesta TW 6mm DP  
 FWHM / FWTM 37.0° / 66.0°  
 Efficiency 84 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 504 Typ L8



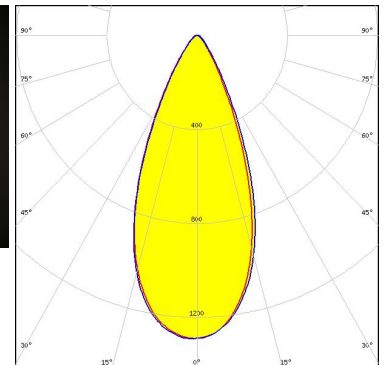
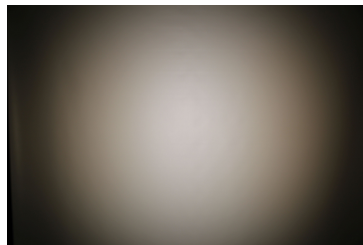
Light distribution files

bridgelux

LED Vesta TW 9mm (9W) DP  
 FWHM / FWTM 44.0° / 73.0°  
 Efficiency 83 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 489 Typ L8

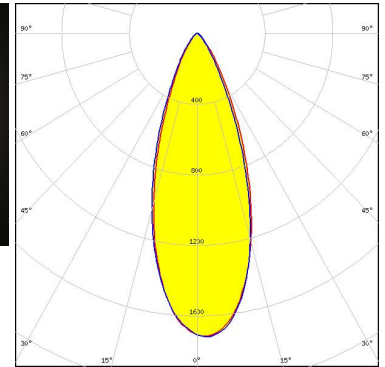


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### CITIZEN

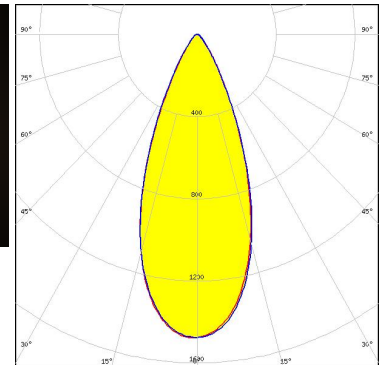
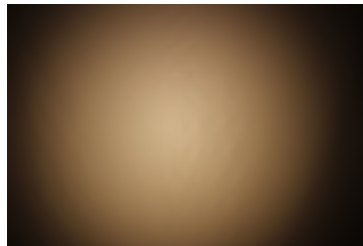
LED CLU700/701/702/703  
FWHM / FWTM 37.0° / 68.0°  
Efficiency 87 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

### CITIZEN

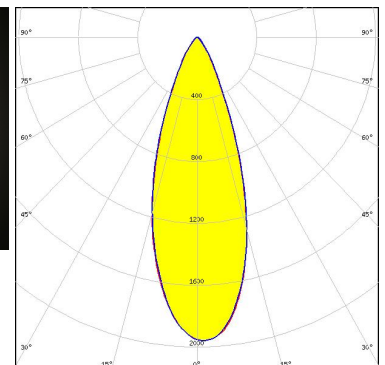
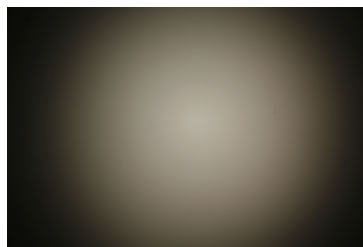
LED CLU710/711  
FWHM / FWTM 42.0° / 70.0°  
Efficiency 85 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files

### CITIZEN

LED CLU7B2  
FWHM / FWTM 36.0° / 64.0°  
Efficiency 90 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

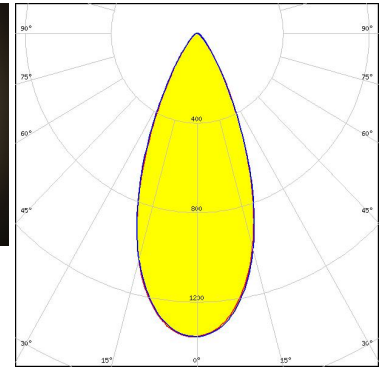
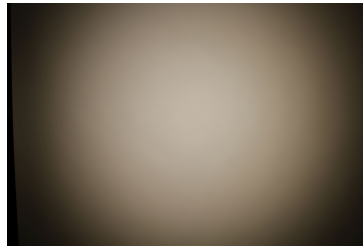


Light distribution files

#### OPTICAL RESULTS (MEASURED):



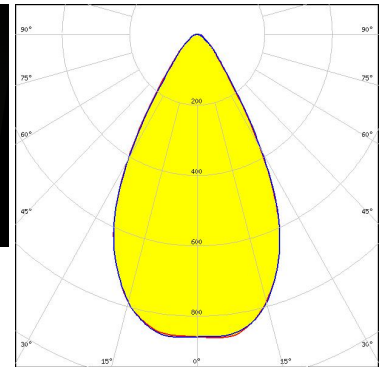
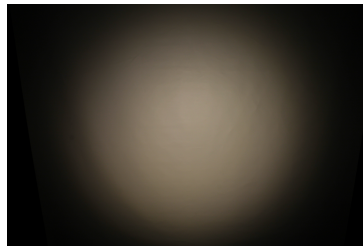
LED CXA/B 15xx  
 FWHM / FWTM 44.0° / 75.0°  
 Efficiency 86 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



Light distribution files



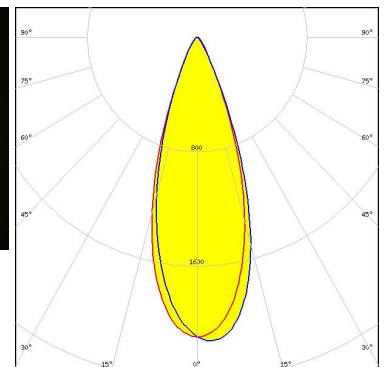
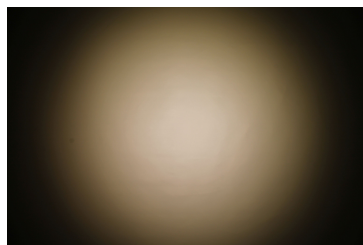
LED LUXEON CX Plus CoB L08 (Gen2)  
 FWHM / FWTM 58.0° / 89.0°  
 Efficiency 85 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 637a Hekla



Light distribution files



LED LUXEON CX Plus CoB - HD S01H4  
 FWHM / FWTM 35.0° / 58.0°  
 Efficiency 88 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla

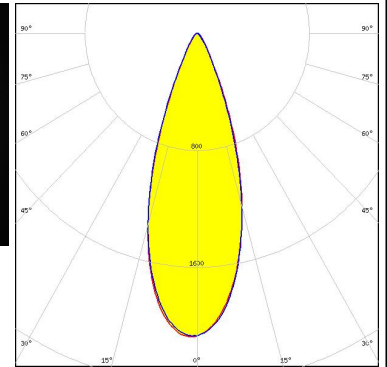
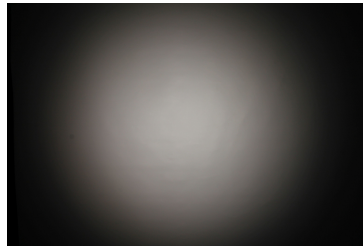


Light distribution files

#### OPTICAL RESULTS (MEASURED):



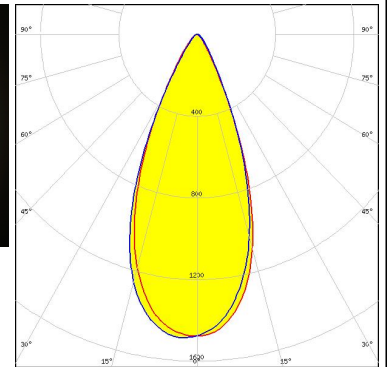
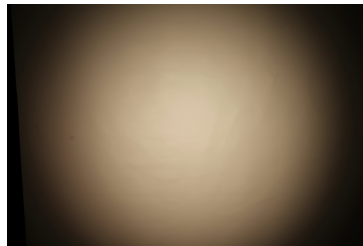
LED LUXEON CX Plus CoB - HD S02H6  
 FWHM / FWTM 35.0° / 59.0°  
 Efficiency 89 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



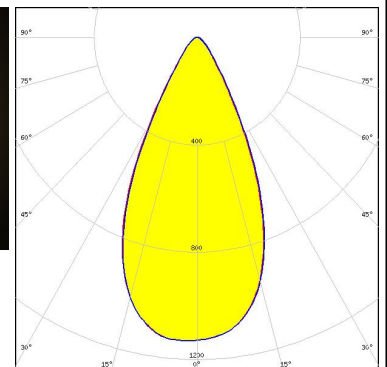
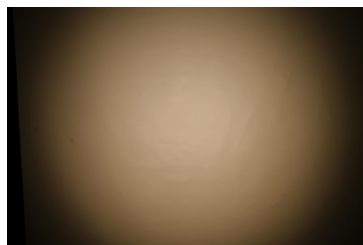
LED LUXEON CX Plus CoB - HD S04H9  
 FWHM / FWTM 43.0° / 68.0°  
 Efficiency 88 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON CX Plus CoB L04 / L05 (Gen2)  
 FWHM / FWTM 50.0° / 77.0°  
 Efficiency 86 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 637a Hekla

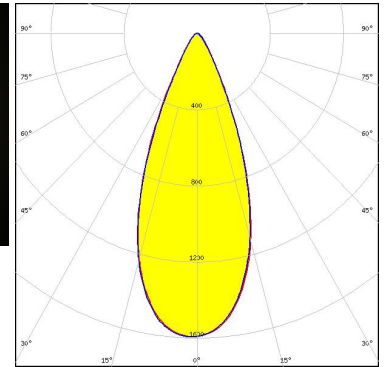
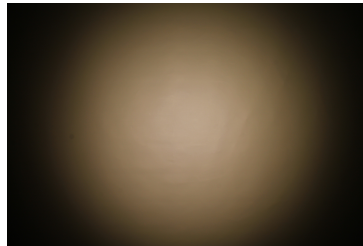


Light distribution files

#### OPTICAL RESULTS (MEASURED):



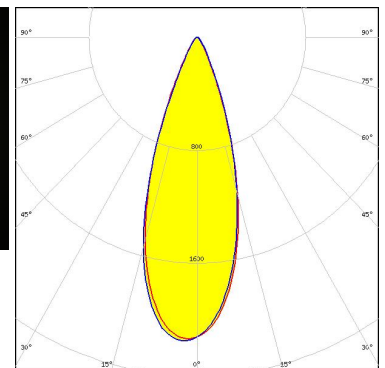
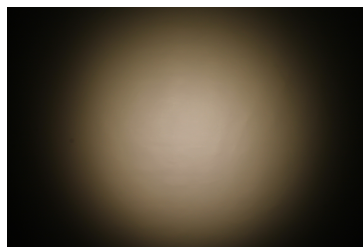
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
 FWHM / FWTM 42.0° / 66.0°  
 Efficiency 87 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 641a Hekla



Light distribution files



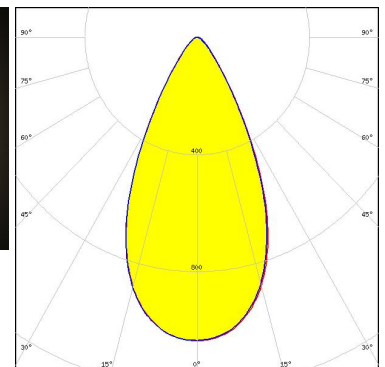
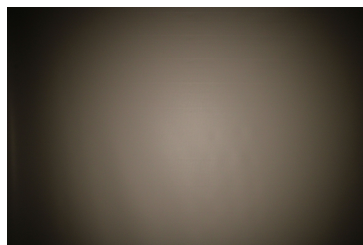
LED LUXEON CX Plus CoB S01 (Gen2)  
 FWHM / FWTM 35.0° / 58.0°  
 Efficiency 89 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



LED CxM-11 (19x19)  
 FWHM / FWTM 51.0° / 81.0°  
 Efficiency 84 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

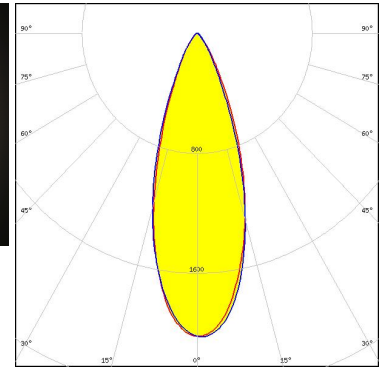
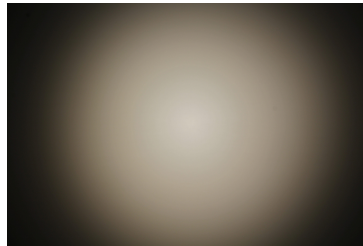


Light distribution files

#### OPTICAL RESULTS (MEASURED):



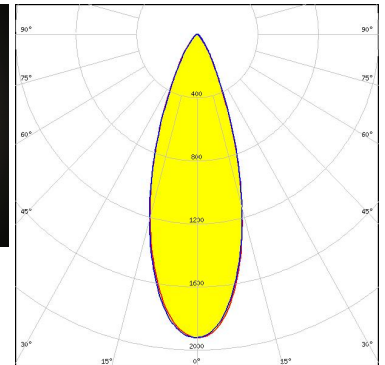
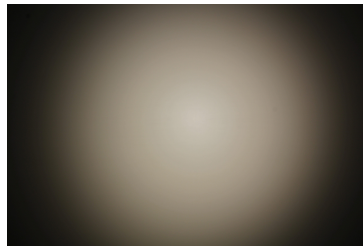
LED CXM-3  
FWHM / FWTM 35.0° / 64.0°  
Efficiency 91 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



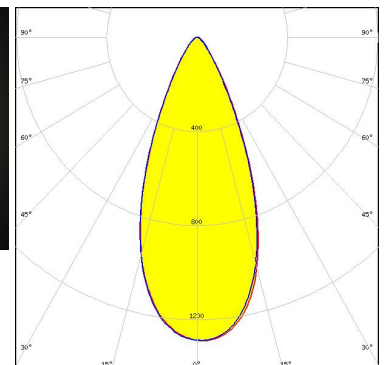
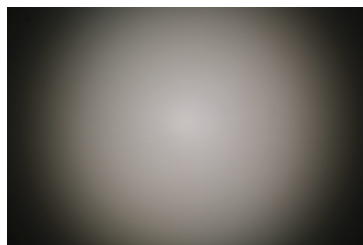
LED CXM-4  
FWHM / FWTM 35.0° / 65.0°  
Efficiency 88 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



LED LC010T (Tunable White)  
FWHM / FWTM 43.0° / 74.0°  
Efficiency 82 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 501 Typ L8



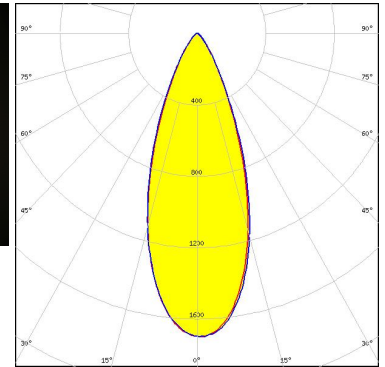
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### XICATO

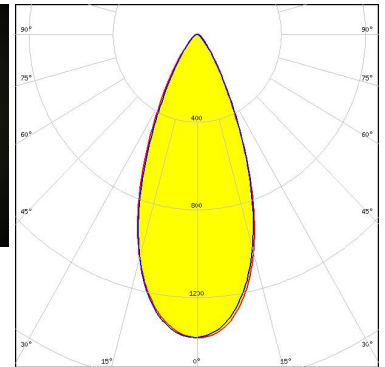
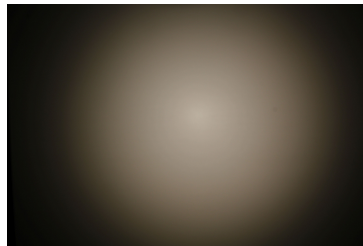
LED XOB 6 mm  
FWHM / FWTM 39.0° / 69.0°  
Efficiency 87 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

#### XICATO

LED XOB 9.8 mm  
FWHM / FWTM 43.0° / 74.0°  
Efficiency 86 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

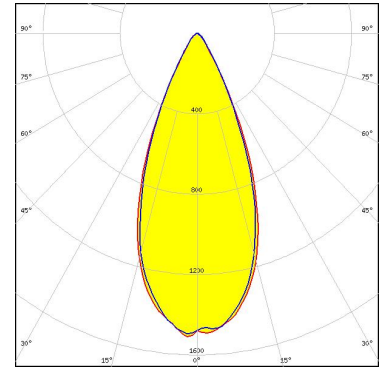


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### CITIZEN

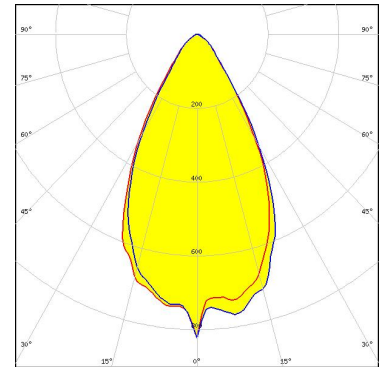
LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	44.0° / 69.0°
Efficiency	88 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



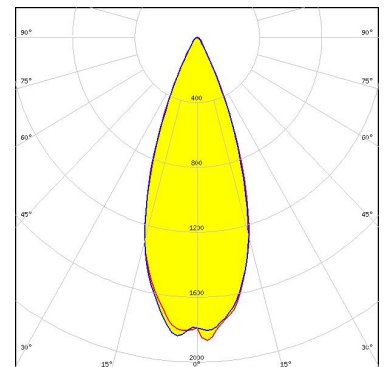
LED	CMU15xx
FWHM / FWTM	54.0° / 86.0°
Efficiency	71 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	F17438_HEKLA-G2-I



Light distribution files



LED	COB S-Type (LES 7)
FWHM / FWTM	38.0° / 60.0°
Efficiency	84 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	F15848_HEKLA-SOCKET-G



Light distribution files

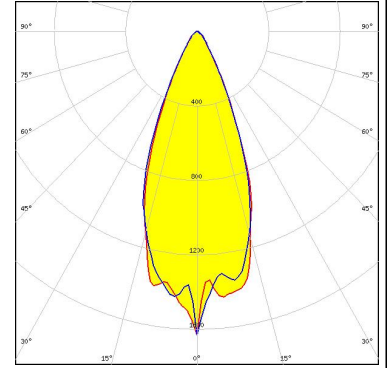
### OPTICAL RESULTS (SIMULATED):

#### TRIDONIC

LED SLE G7 LES09  
FWHM / FWTM 41.0° / 66.0°  
Efficiency 84 %  
Peak intensity 1.6 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.

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#### 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

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