

## ILONA-ZOOM

An infinitely adjustable beam from 13 to 48 degrees.

## SPECIFICATION:

Dimensions	Ø 52.5
Height	33.2 mm
Fastening	socket
ROHS compliant	yes ⓘ



## MATERIALS:

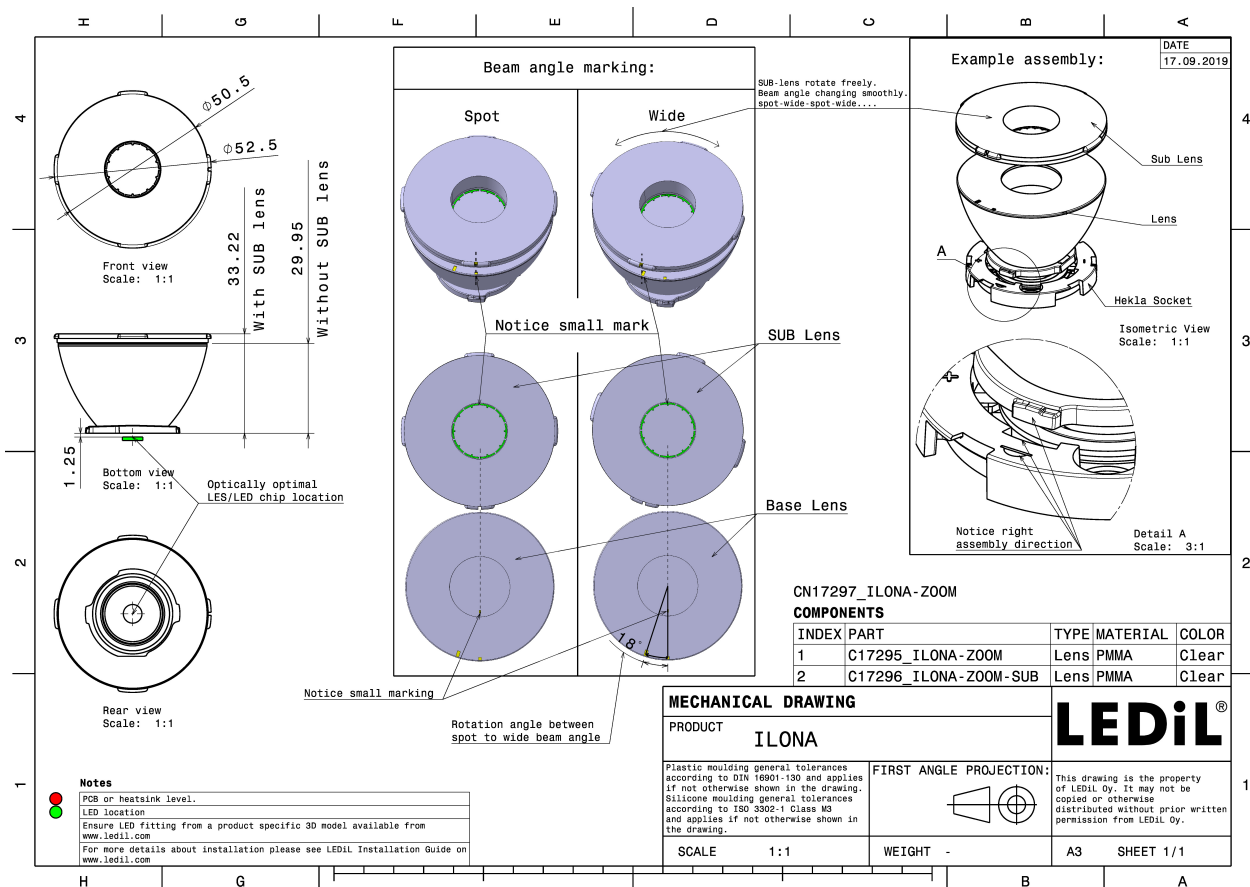
Component	Type	Material	Colour	Finish	Length (mm)
C17295_ILONA-ZOOM	Single lens	PMMA	clear		
C17296_ILONA-ZOOM-SUB	Sublens	PMMA	clear		

## ORDERING INFORMATION:

## Quantities for one set:

Single lens	1
Sublens	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C17295_ILONA-ZOOM » Box size: 480 x 280 x 300 mm	Single lens	264	33	33	9.7
C17296_ILONA-ZOOM-SUB » Box size: 480 x 280 x 185 mm	Sublens	264	33	33	2.4

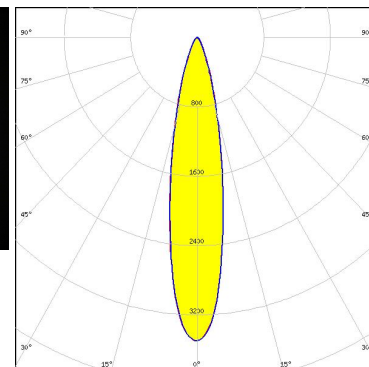
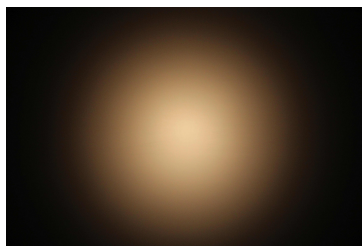


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



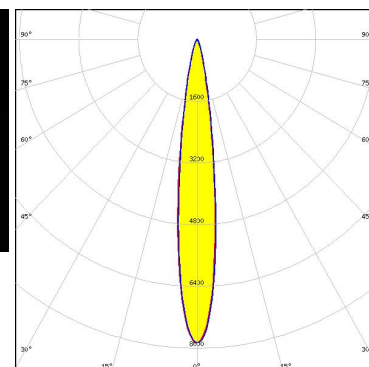
LED V11 HD Gen 8  
 FWHM / FWTM 21.0 + 46.0° / 45.0 + 88.0°  
 Efficiency 78 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 633d Hekla



Light distribution files



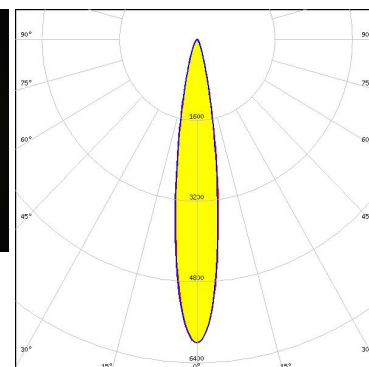
LED V6 HD Gen 7  
 FWHM / FWTM 14.0 + 48.0° / 30.0 + 84.0°  
 Efficiency 84 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



LED V8 Gen7  
 FWHM / FWTM 16.0 + 46.0° / 35.0 + 83.0°  
 Efficiency 85 %  
 Peak intensity 6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15253\_HEKLA-SOCKET-A



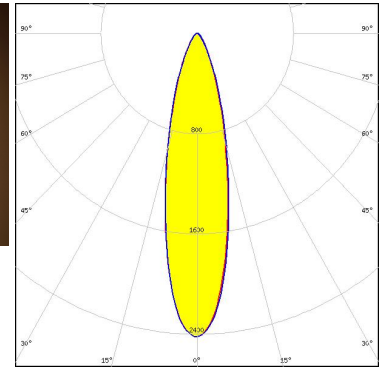
Light distribution files



### OPTICAL RESULTS (MEASURED):



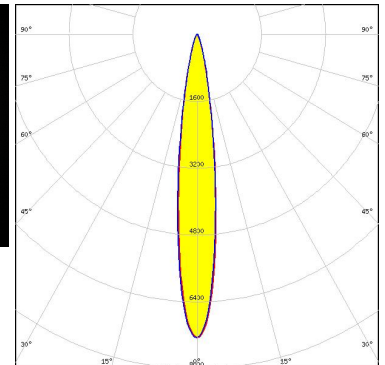
LED Vesta DTW 13mm (21W)  
 FWHM / FWTM 25.0 + 46.0° / 55.0 + 90.0°  
 Efficiency 77 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 491 Typ L8



Light distribution files



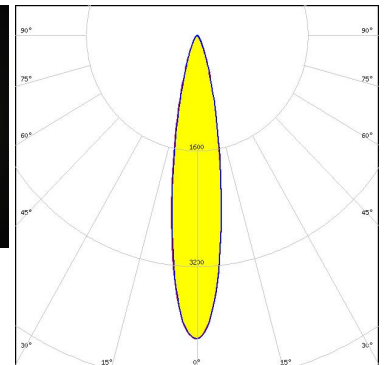
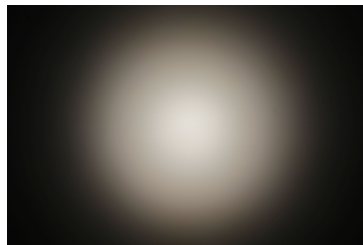
LED Vesta TW 6mm DP  
 FWHM / FWTM 15.0 + 48.0° / 32.0 + 84.0°  
 Efficiency 84 %  
 Peak intensity 7.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 504 Typ L8



Light distribution files



LED Vesta TW 9mm (9W) DP  
 FWHM / FWTM 19.0 + 46.0° / 42.0 + 86.0°  
 Efficiency 81 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 489 Typ L8

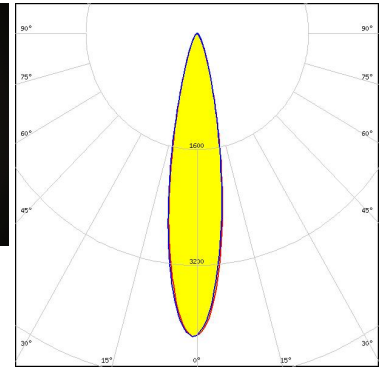
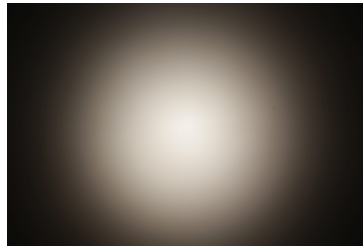


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

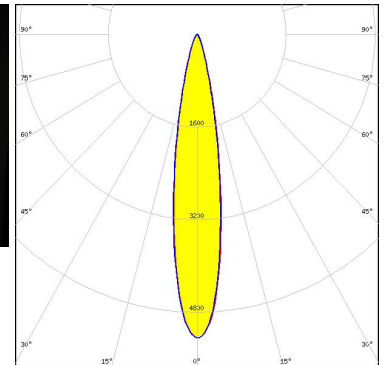
LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 21.0 + 47.0° / 42.0 + 86.0°  
Efficiency 85 %  
Peak intensity 4.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

#### CITIZEN

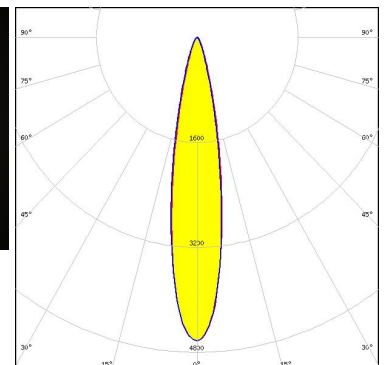
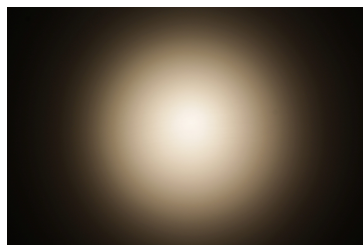
LED CLU712/713  
FWHM / FWTM 19.0 + 47.0° / 37.0 + 84.0°  
Efficiency 85 %  
Peak intensity 5.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files



LED CMA1516  
FWHM / FWTM 19.0 + 47.0° / 39.0 + 85.0°  
Efficiency 85 %  
Peak intensity 4.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15256\_HEKLA-SOCKET-D

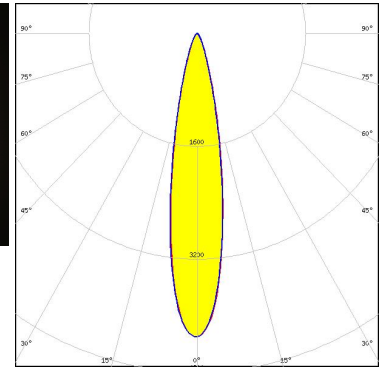
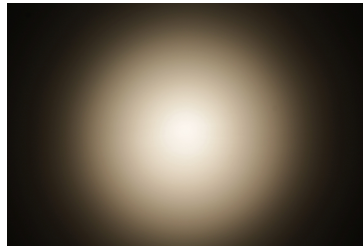


Light distribution files

### OPTICAL RESULTS (MEASURED):



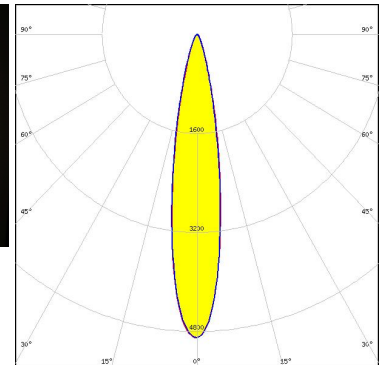
LED CMT14xx  
FWHM / FWTM 20.0 + 46.0° / 41.0 + 85.0°  
Efficiency 85 %  
Peak intensity 4.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



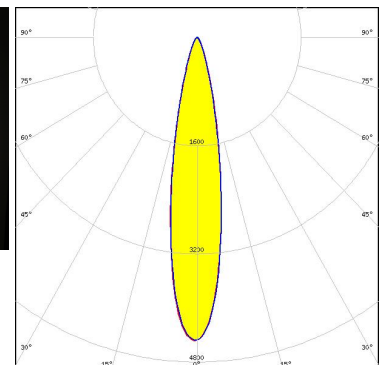
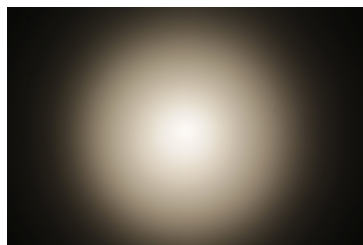
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
FWHM / FWTM 19.0 + 47.0° / 39.0 + 85.0°  
Efficiency 86 %  
Peak intensity 4.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15256\_HEKLA-SOCKET-D



Light distribution files



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 20.0 + 46.0° / 41.0 + 85.0°  
Efficiency 86 %  
Peak intensity 4.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

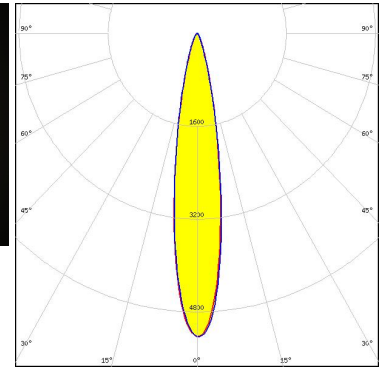


Light distribution files

### OPTICAL RESULTS (MEASURED):



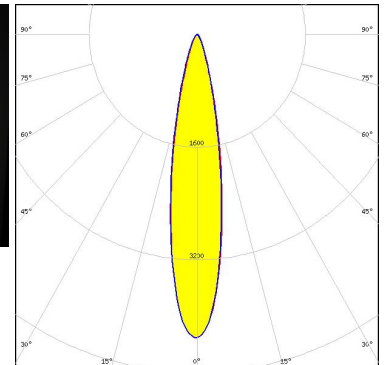
LED COB L-Type (LES 9)  
FWHM / FWTM 19.0 + 47.0° / 38.0 + 84.0°  
Efficiency 85 %  
Peak intensity 5.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15858\_HEKLA-SOCKET-H



Light distribution files



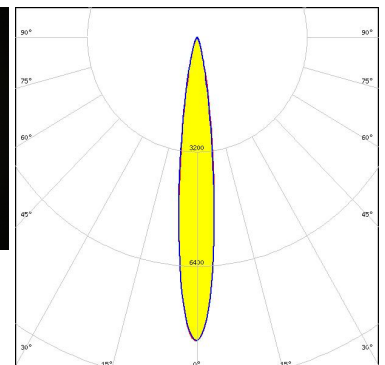
LED LC003D / LC006D / LC009D / LC013D  
FWHM / FWTM 20.0 + 47.0° / 42.0 + 85.0°  
Efficiency 85 %  
Peak intensity 4.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



LED LC010C G2  
FWHM / FWTM 14.0 + 48.0° / 30.0 + 84.0°  
Efficiency 88 %  
Peak intensity 8.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

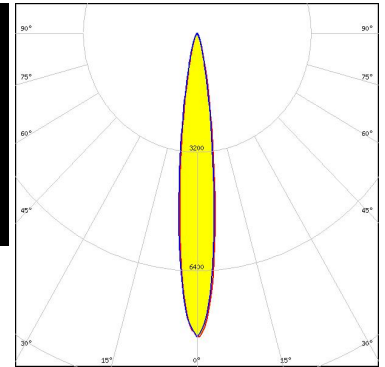


Light distribution files

### OPTICAL RESULTS (MEASURED):



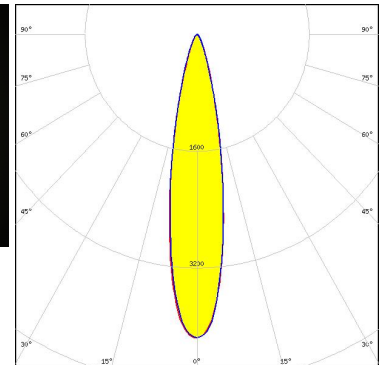
LED MJT COB LES 6  
FWHM / FWTM 14.0 + 48.0° / 30.0 + 85.0°  
Efficiency 84 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files



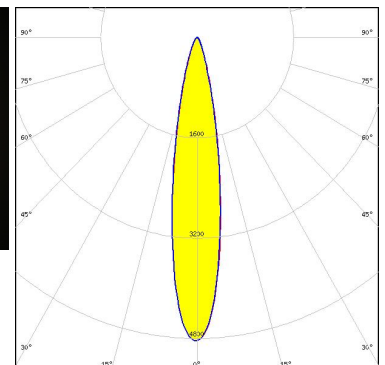
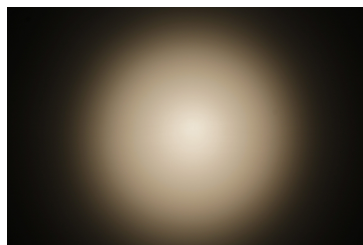
LED MJT COB LES 9.8  
FWHM / FWTM 21.0 + 47.0° / 43.0 + 86.0°  
Efficiency 86 %  
Peak intensity 4.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

### XICATO

LED XOB 9.8 mm  
FWHM / FWTM 19.0 + 47.0° / 40.0 + 85.0°  
Efficiency 86 %  
Peak intensity 4.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

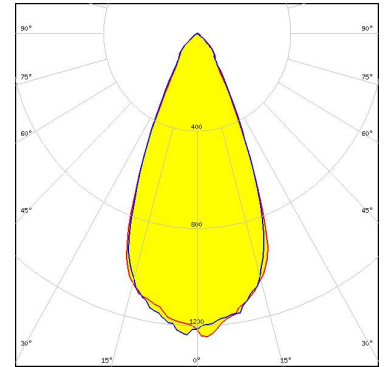


Light distribution files

### OPTICAL RESULTS (SIMULATED):



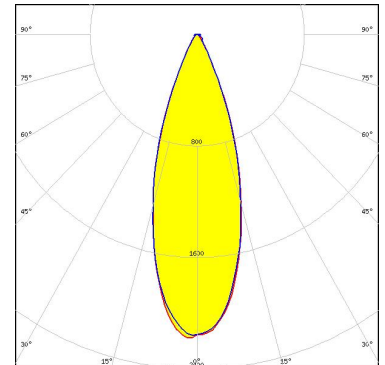
LED V4 HD Gen 7  
 FWHM / FWTM 12.0 + 46.0° / 25.0 + 76.0°  
 Efficiency 82 %  
 Peak intensity 12.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15253\_HEKLA-SOCKET-A



Light distribution files



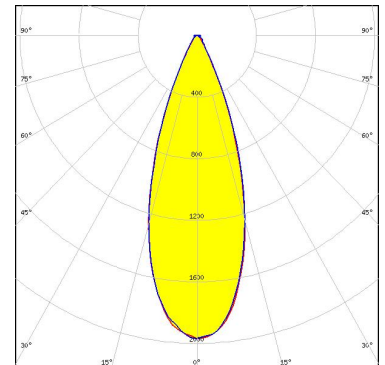
LED V6 HD Gen 7  
 FWHM / FWTM 14.0 + 47.0° / 30.0 + 81.0°  
 Efficiency 88 %  
 Peak intensity 8.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



LED V9 HD Gen7  
 FWHM / FWTM 18.0 + 46.0° / 34.0 + 82.0°  
 Efficiency 88 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



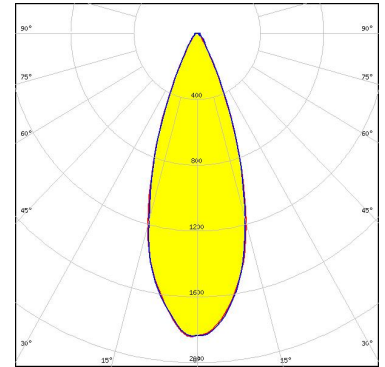
Light distribution files



### OPTICAL RESULTS (SIMULATED):



LED Vesta DTW 9mm (4W/6W/12W)  
 FWHM / FWTM 18.0 + 46.0° / 36.0 + 84.0°  
 Efficiency 86 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

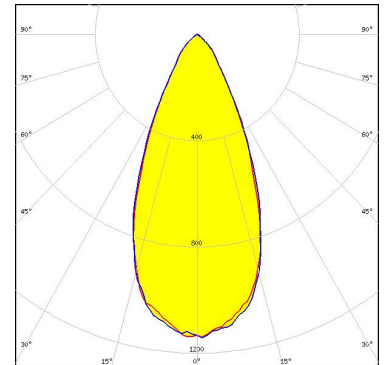


Bender Wirth: 490 Typ L8

Light distribution files

### CITIZEN

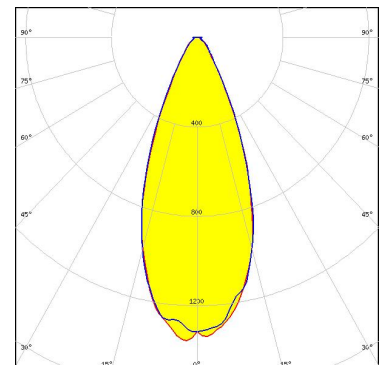
LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 20.0 + 46.0° / 37.0 + 80.0°  
 Efficiency 78 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 25.0 + 46.0° / 51.0 + 92.0°  
 Efficiency 85 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

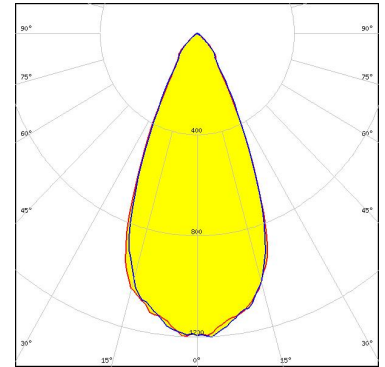


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

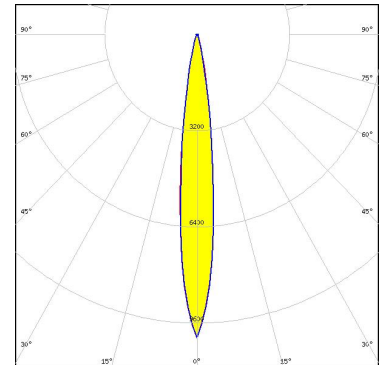
LED CLU700/701/702/703  
 FWHM / FWTM 13.0 + 47.0° / 27.0 + 78.0°  
 Efficiency 82 %  
 Peak intensity 10 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

#### CITIZEN

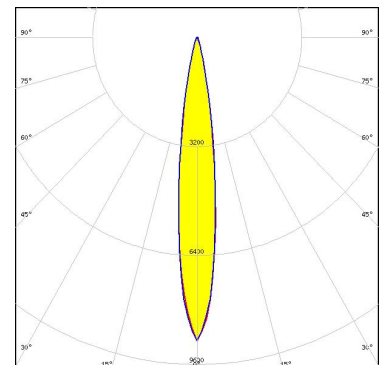
LED CLU7A2/7A3  
 FWHM / FWTM 13.0 + 48.0° / 26.0 + 83.0°  
 Efficiency 88 %  
 Peak intensity 10.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



LED CMA1306  
 FWHM / FWTM 14.0 + 48.0° / 30.0 + 82.0°  
 Efficiency 89 %  
 Peak intensity 8.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17439\_HEKLA-G2-J



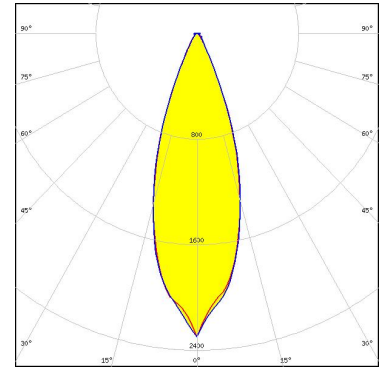
Light distribution files



### OPTICAL RESULTS (SIMULATED):



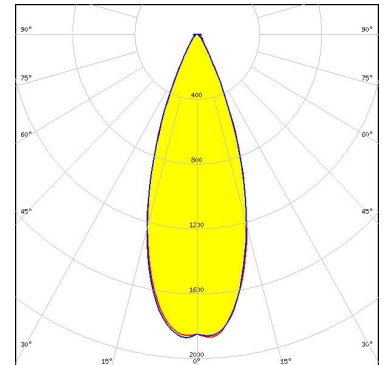
LED CXA/B 13xx  
FWHM / FWTM 14.0 + 47.0° / 28.0 + 80.0°  
Efficiency 90 %  
Peak intensity 9.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15956\_HEKLA-SOCKET-J



Light distribution files



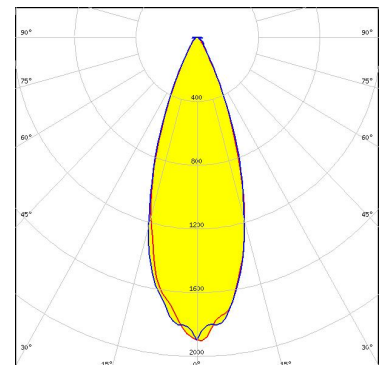
LED CXA/B 15xx  
FWHM / FWTM 18.0 + 46.0° / 36.0 + 81.0°  
Efficiency 89 %  
Peak intensity 5.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15256\_HEKLA-SOCKET-D



Light distribution files



LED LUXEON CoB 1202/1203  
FWHM / FWTM 20.0 + 44.0° / 37.0 + 80.0°  
Efficiency 87 %  
Peak intensity 5.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17437\_HEKLA-G2-H



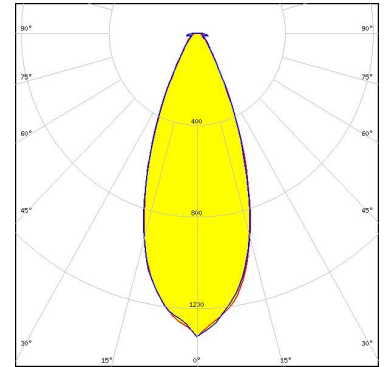
Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED LUXEON CoB 1204/1205  
 FWHM / FWTM 24.0 + 46.0° / 50.0 + 95.0°  
 Efficiency 85 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

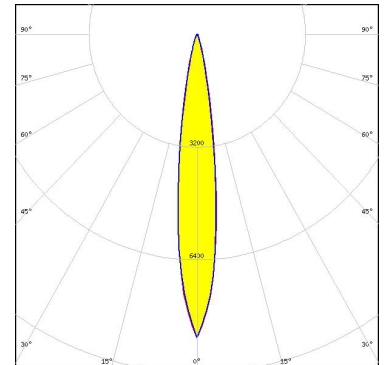
Bender Wirth: 437 Typ L8



Light distribution files



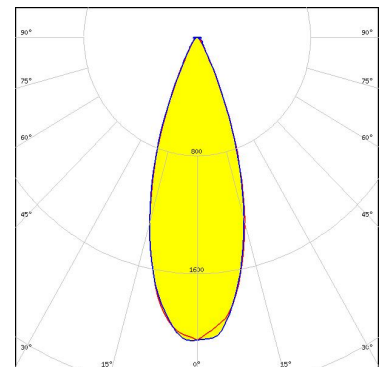
LED CxM-6 (13.5x13.5)  
 FWHM / FWTM 14.0 + 46.0° / 30.0 + 81.0°  
 Efficiency 90 %  
 Peak intensity 8.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17435\_HEKLA-G2-C



Light distribution files



LED COB S-Type (LES 7)  
 FWHM / FWTM 16.0 + 48.0° / 30.0 + 80.0°  
 Efficiency 89 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G

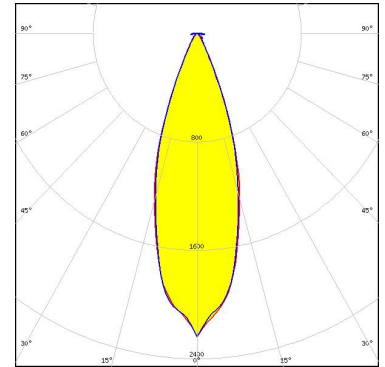


Light distribution files

### OPTICAL RESULTS (SIMULATED):



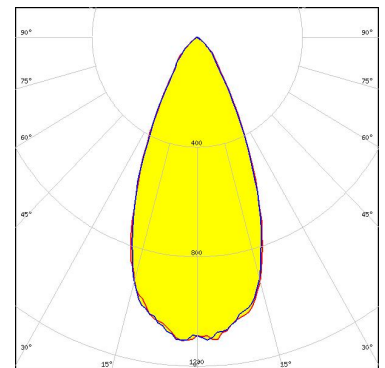
LED NCSxE17A  
FWHM / FWTM 13.0 + 47.0° / 27.0 + 75.0°  
Efficiency 88 %  
Peak intensity 10 cd/lm  
LEDs/each optic 7  
Light colour/type White  
Required components:



Light distribution files



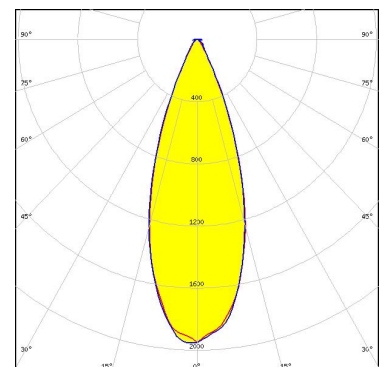
LED LC003D / LC006D / LC009D / LC013D  
FWHM / FWTM 19.0 + 46.0° / 37.0 + 79.0°  
Efficiency 77 %  
Peak intensity 5.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



LED LC010T (Tunable White)  
FWHM / FWTM 18.0 + 46.0° / 34.0 + 83.0°  
Efficiency 88 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K



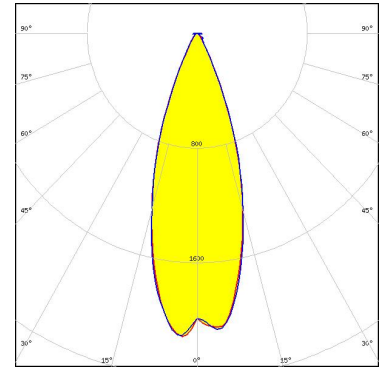
Light distribution files

Bender Wirth: 501 Typ L8

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

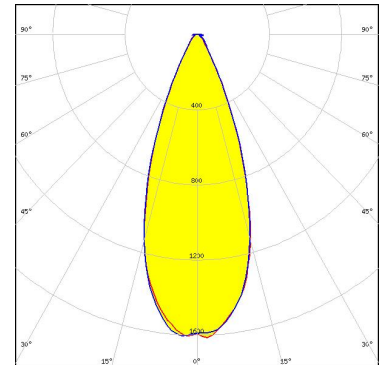
LED LC020C  
FWHM / FWTM 14.0 + 46.0° / 28.0 + 77.0°  
Efficiency 88 %  
Peak intensity 9.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

#### SAMSUNG

LED LC020T (Tunable white)  
FWHM / FWTM 22.0 + 46.0° / 42.0 + 85.0°  
Efficiency 86 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K

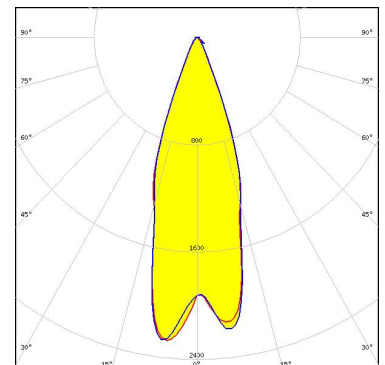


Light distribution files

Bender Wirth: 501 Typ L8

#### TRIDONIC

LED SLE G7 LES13  
FWHM / FWTM 12.0 + 45.0° / 21.0 + 71.0°  
Efficiency 88 %  
Peak intensity 16.3 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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The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

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