

## ILONA-SS

~14° smooth spot beam

### SPECIFICATION:

Dimensions	Ø 49.8 mm
Height	29.3 mm
Fastening	socket
ROHS compliant	yes ⓘ

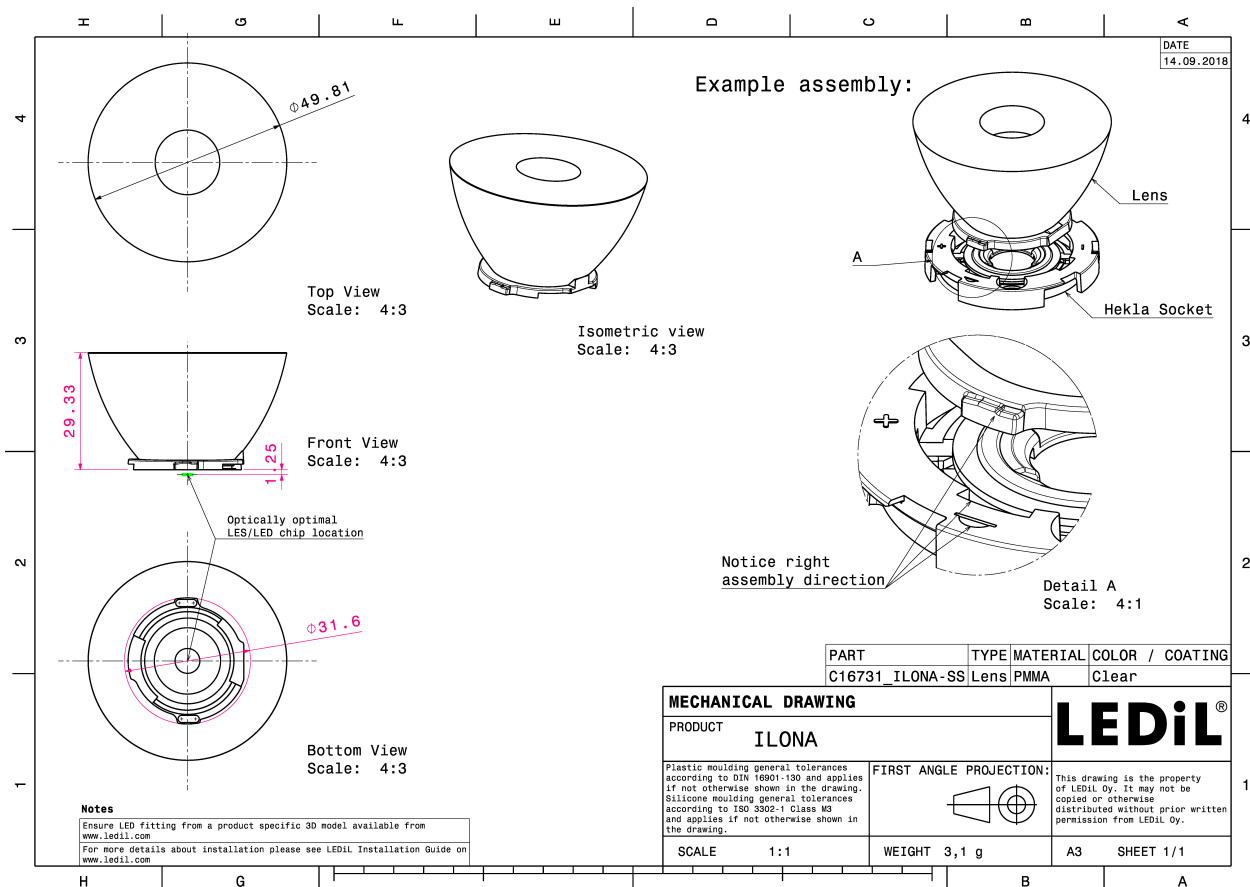
### MATERIALS:

Component	Type	Material	Colour	Finish	Length
ILONA-SS	Single lens	PMMA	clear		49.8

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16731_ILONA-SS » Box size: 480 x 280 x 300 mm	264	99	33	9.7



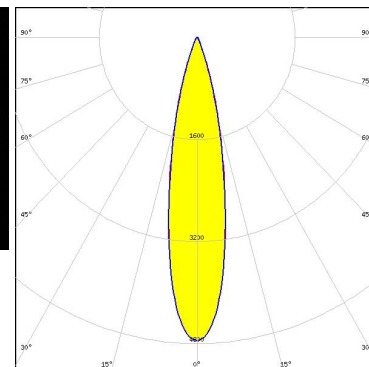
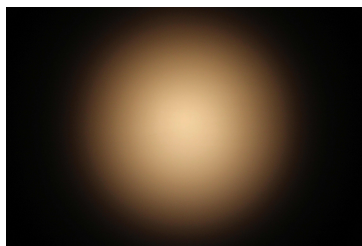


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



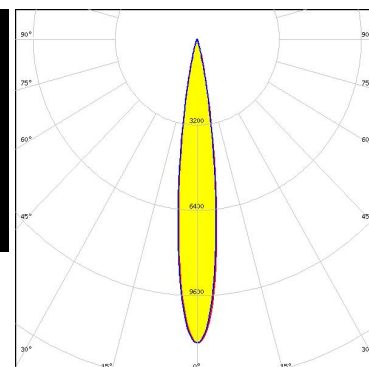
LED V11 HD Gen 8  
FWHM / FWTM 22.0° / 41.0°  
Efficiency 94 %  
Peak intensity 4.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 633d Hekla



Light distribution files



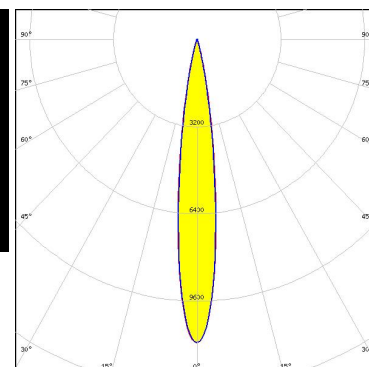
LED V6 HD Gen 7  
FWHM / FWTM 15.0° / 27.0°  
Efficiency 96 %  
Peak intensity 11.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



LED V6 HD Gen 7  
FWHM / FWTM 15.0° / 27.0°  
Efficiency 95 %  
Peak intensity 11.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 634c Hekla

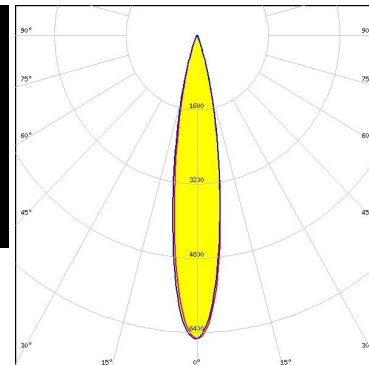


Light distribution files

#### OPTICAL RESULTS (MEASURED):



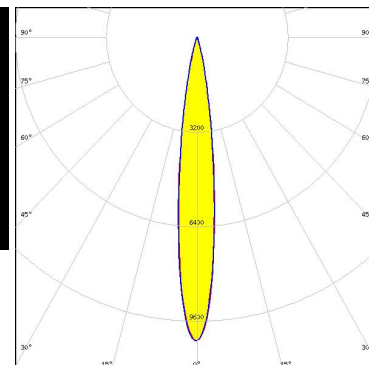
LED Vesta DTW 9mm (4W/6W/12W)  
 FWHM / FWTM 18.0° / 36.0°  
 Efficiency 93 %  
 Peak intensity 6.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 490 Typ L8



Light distribution files



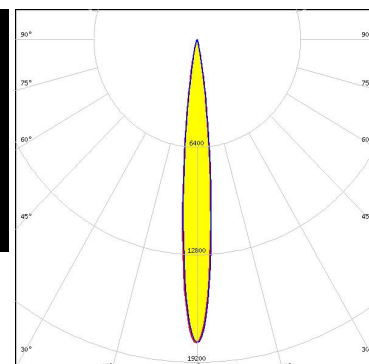
LED Vesta TW 6mm DP  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 91 %  
 Peak intensity 10.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 504 Typ L8



Light distribution files

## CITIZEN

LED CLU7A2/7A3  
 FWHM / FWTM 11.0° / 21.0°  
 Efficiency 94 %  
 Peak intensity 18 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



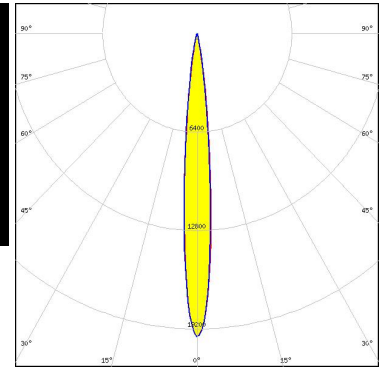
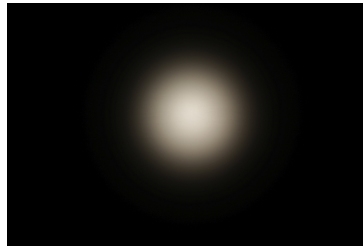
Light distribution files



#### OPTICAL RESULTS (MEASURED):

#### CITIZEN

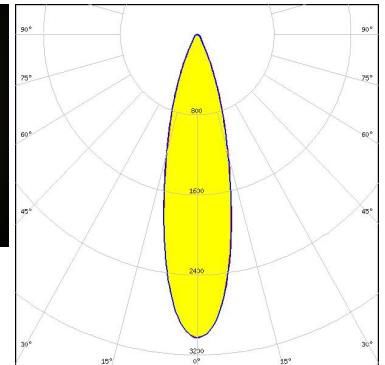
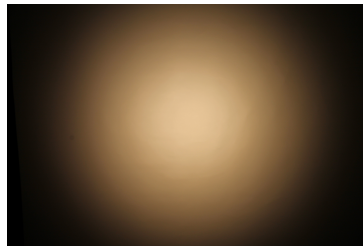
LED CLU7B2  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 94 %  
 Peak intensity 19.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



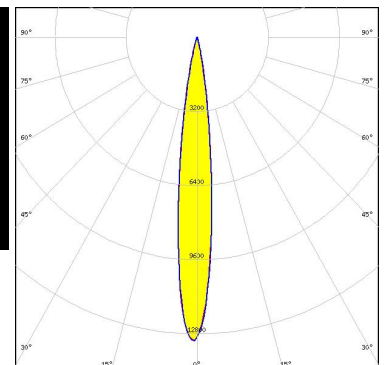
LED LUXEON CX Plus CoB L08 (Gen2)  
 FWHM / FWTM 26.0° / 52.0°  
 Efficiency 93 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 637a Hekla



Light distribution files



LED LUXEON CX Plus CoB - HD S01H4  
 FWHM / FWTM 13.0° / 25.0°  
 Efficiency 95 %  
 Peak intensity 13.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla

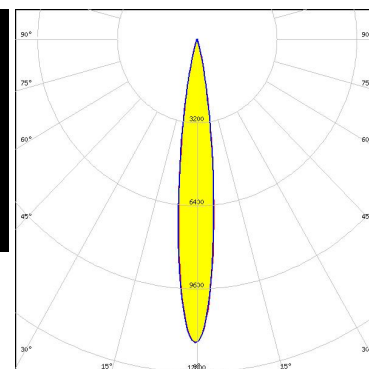
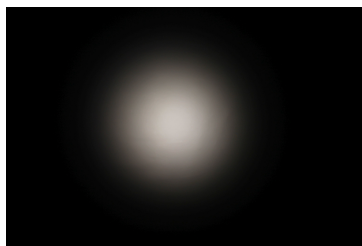


Light distribution files

#### OPTICAL RESULTS (MEASURED):



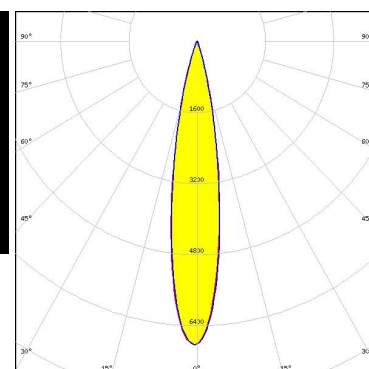
LED LUXEON CX Plus CoB - HD S02H6  
 FWHM / FWTM 14.0° / 27.0°  
 Efficiency 94 %  
 Peak intensity 11.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



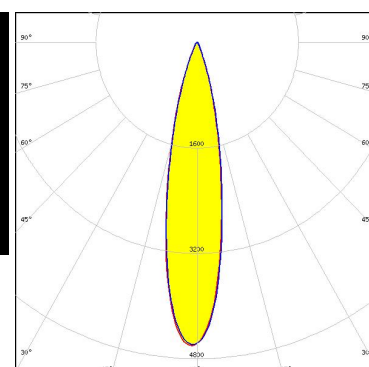
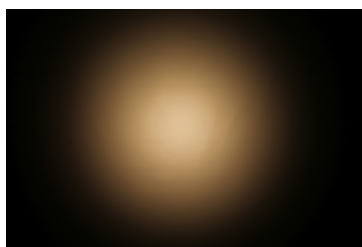
LED LUXEON CX Plus CoB - HD S04H9  
 FWHM / FWTM 19.0° / 35.0°  
 Efficiency 94 %  
 Peak intensity 6.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON CX Plus CoB L04 / L05 (Gen2)  
 FWHM / FWTM 22.0° / 43.0°  
 Efficiency 94 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 637a Hekla

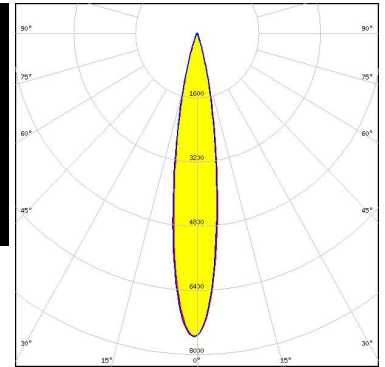


Light distribution files

#### OPTICAL RESULTS (MEASURED):



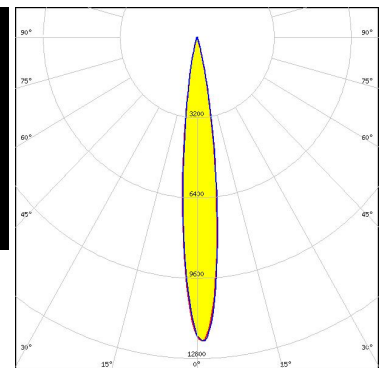
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
 FWHM / FWTM 17.0° / 33.0°  
 Efficiency 94 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 641a Hekla



Light distribution files



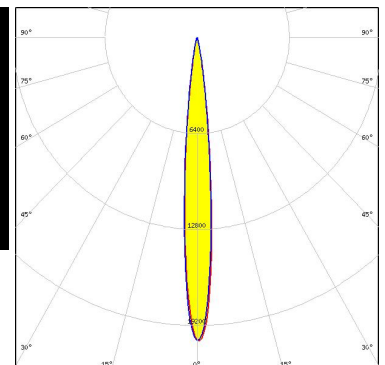
LED LUXEON CX Plus CoB S01 (Gen2)  
 FWHM / FWTM 13.0° / 26.0°  
 Efficiency 94 %  
 Peak intensity 12.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



LED CXM-3  
 FWHM / FWTM 11.0° / 20.0°  
 Efficiency 94 %  
 Peak intensity 20.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

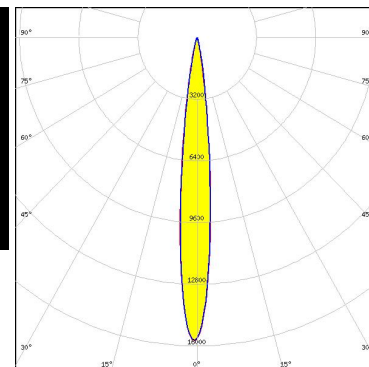


Light distribution files

#### OPTICAL RESULTS (MEASURED):



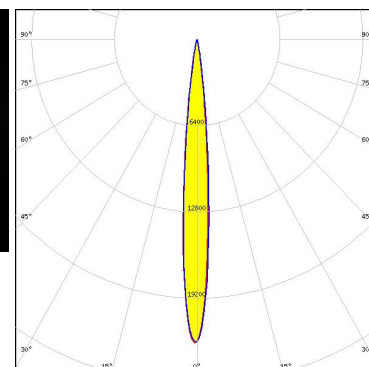
LED CXM-4  
 FWHM / FWTM 12.0° / 23.0°  
 Efficiency 94 %  
 Peak intensity 15.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



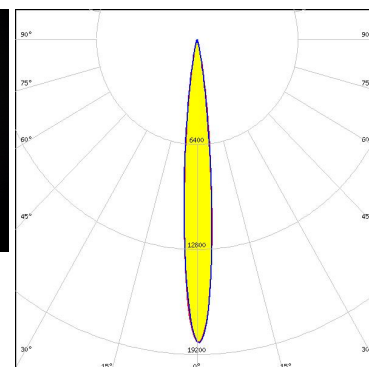
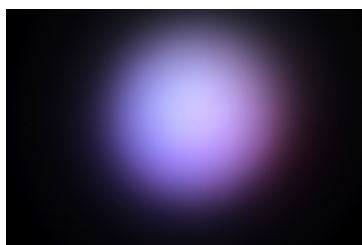
LED OSTAR Stage (S2WN)  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 94 %  
 Peak intensity 22.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



Light distribution files



LED OSTAR Stage (S2WP)  
 FWHM / FWTM 11.0° / 21.0°  
 Efficiency 94 %  
 Peak intensity 18.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

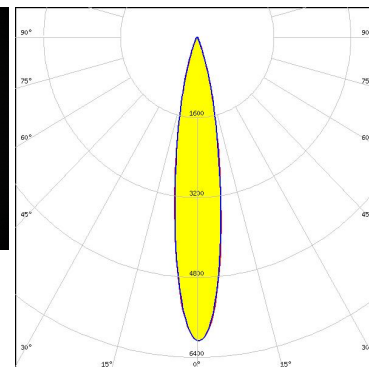
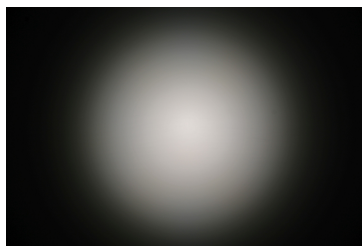


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

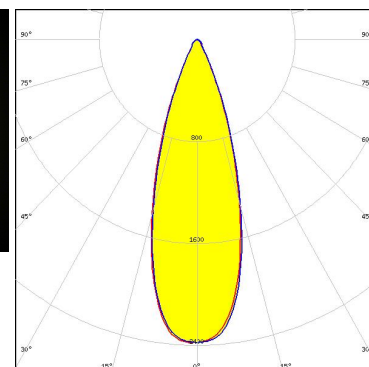
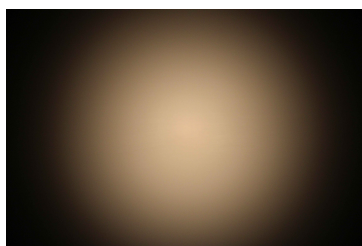
LED LC010T (Tunable White)  
 FWHM / FWTM 18.0° / 37.0°  
 Efficiency 94 %  
 Peak intensity 6.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8



Light distribution files



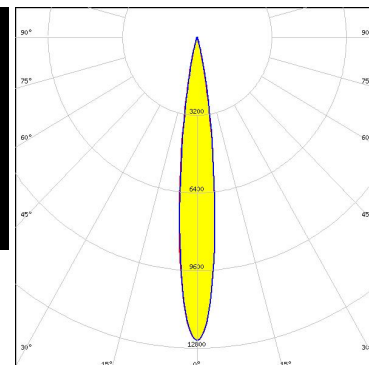
LED MJT COB LES 14.5  
 FWHM / FWTM 33.0° / 57.0°  
 Efficiency 95 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17438\_HEKLA-G2-I



Light distribution files



LED MJT COB LES 6  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 96 %  
 Peak intensity 12.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17435\_HEKLA-G2-C

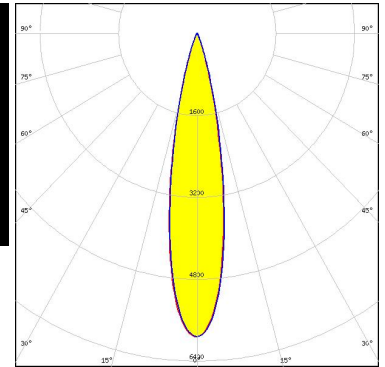


Light distribution files

#### OPTICAL RESULTS (MEASURED):



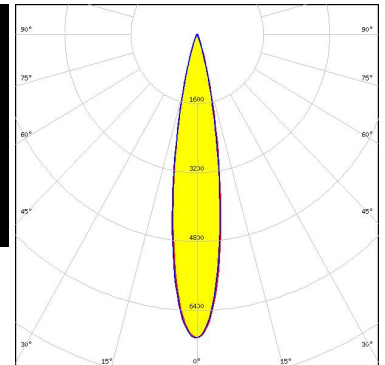
LED MJT COB LES 9.8  
 FWHM / FWTM 21.0° / 37.0°  
 Efficiency 96 %  
 Peak intensity 5.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17435\_HEKLA-G2-C



Light distribution files

#### TRIDONIC

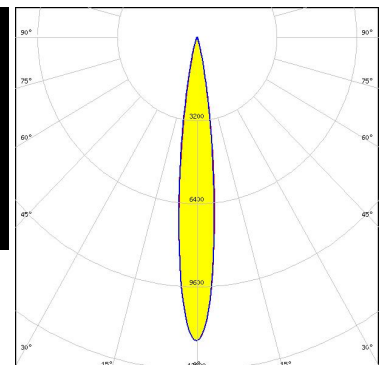
LED SLE G7 LES09  
 FWHM / FWTM 18.0° / 34.0°  
 Efficiency 95 %  
 Peak intensity 7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

#### XICATO

LED XOB 6 mm  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 94 %  
 Peak intensity 11.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



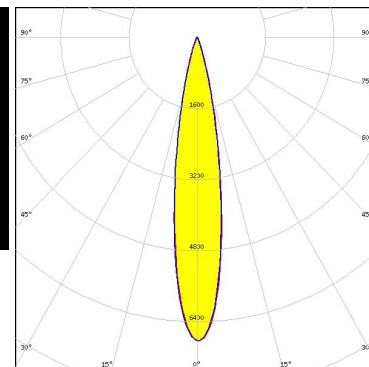
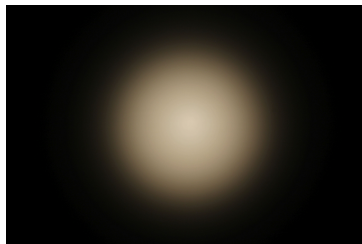
Light distribution files



## OPTICAL RESULTS (MEASURED):

### XICATO

LED XOB 9.8 mm  
FWHM / FWTM 19.0° / 35.0°  
Efficiency 94 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



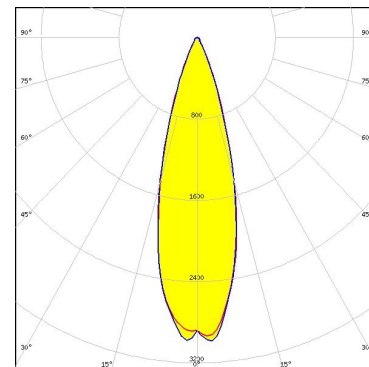
Light distribution files



### OPTICAL RESULTS (SIMULATED):



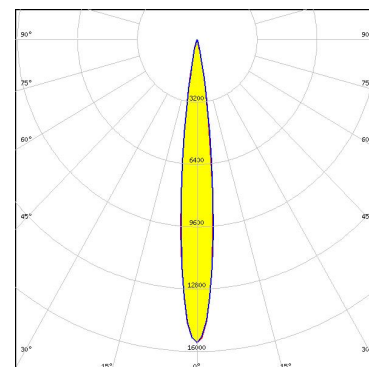
LED V13 Gen 8-9  
FWHM / FWTM 30.0° / 52.0°  
Efficiency 92 %  
Peak intensity 3 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files



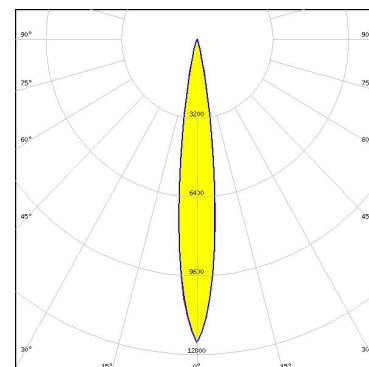
LED V4 HD Gen 7  
FWHM / FWTM 12.0° / 23.0°  
Efficiency 91 %  
Peak intensity 15.6 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15253\_HEKLA-SOCKET-A



Light distribution files



LED V6 HD Gen 7  
FWHM / FWTM 14.0° / 26.0°  
Efficiency 95 %  
Peak intensity 12.3 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

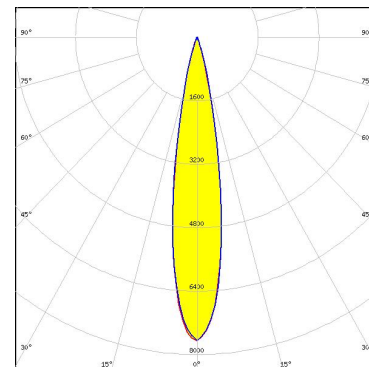
#### OPTICAL RESULTS (SIMULATED):



LED V9 HD Gen7  
FWHM / FWTM 18.0° / 32.0°  
Efficiency 94 %  
Peak intensity 7.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F15859\_HEKLA-SOCKET-I

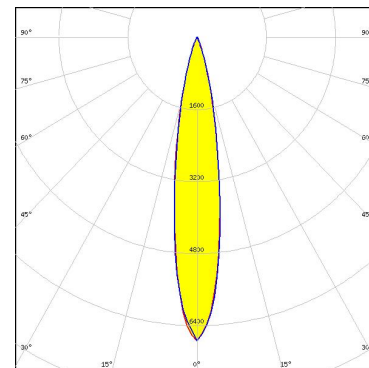


Light distribution files



LED Vero SE 10  
FWHM / FWTM 18.0° / 36.0°  
Efficiency 94 %  
Peak intensity 6.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:



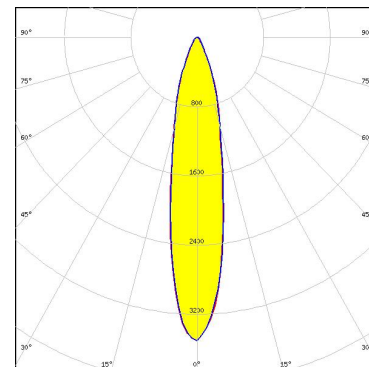
Light distribution files



LED Vero SE 13  
FWHM / FWTM 20.0° / 50.0°  
Efficiency 91 %  
Peak intensity 3.5 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C16142\_HEKLA-SOCKET-K



Light distribution files

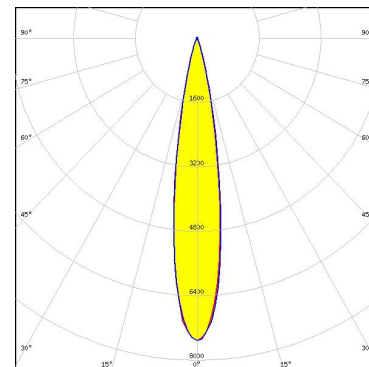
#### OPTICAL RESULTS (SIMULATED):



LED Vesta DTW 9mm (4W/6W/12W)  
 FWHM / FWTM 18.0° / 32.0°  
 Efficiency 90 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

Bender Wirth: 490 Typ L8

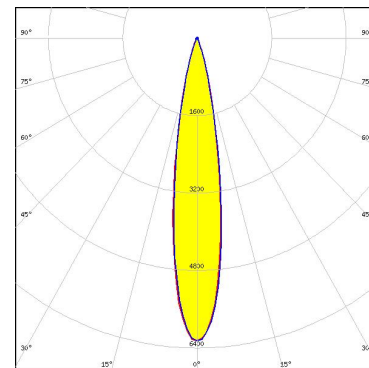
Light distribution files



LED Vesta TW 9mm (9W) DP  
 FWHM / FWTM 18.0° / 35.0°  
 Efficiency 86 %  
 Peak intensity 6.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

Bender Wirth: 489 Typ L8

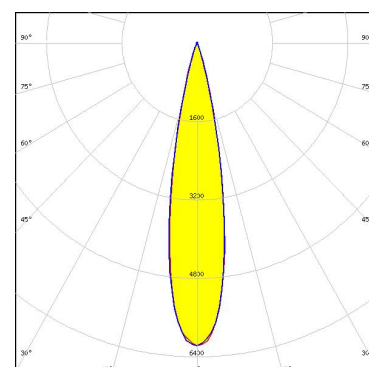
Light distribution files



## CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 21.0° / 35.0°  
 Efficiency 87 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

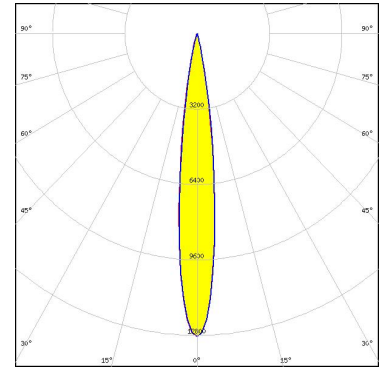
Light distribution files



### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

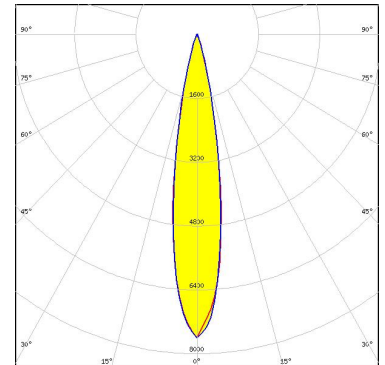
LED CLU700/701/702/703  
FWHM / FWTM 14.0° / 25.0°  
Efficiency 91 %  
Peak intensity 12.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

#### CITIZEN

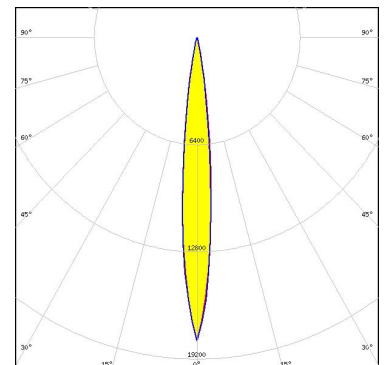
LED CLU712/713  
FWHM / FWTM 18.0° / 33.0°  
Efficiency 95 %  
Peak intensity 7.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files



LED CHA0304  
FWHM / FWTM 11.0° / 22.0°  
Efficiency 95 %  
Peak intensity 18.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C

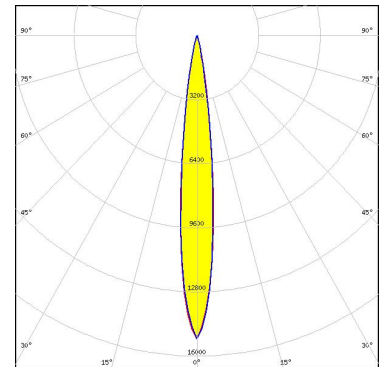


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



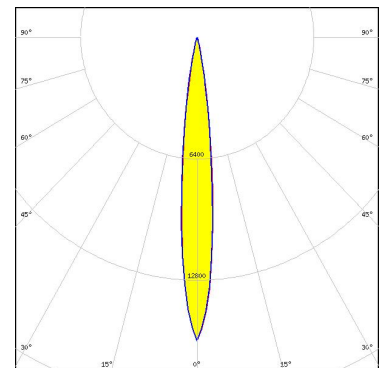
LED CHA0410  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 95 %  
 Peak intensity 15.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17435\_HEKLA-G2-C



Light distribution files



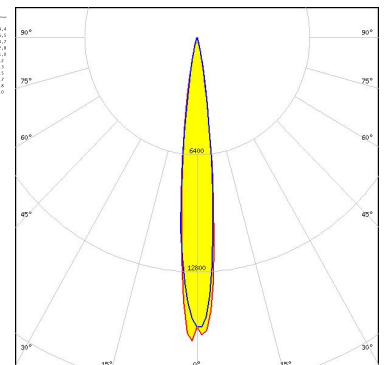
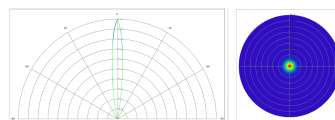
LED CMA1303  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 96 %  
 Peak intensity 16 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17439\_HEKLA-G2-J



Light distribution files



LED LZ4-00XX08  
 FWHM / FWTM 12.0° / 23.0°  
 Efficiency 96 %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:  
 F15255\_HEKLA-SOCKET-C

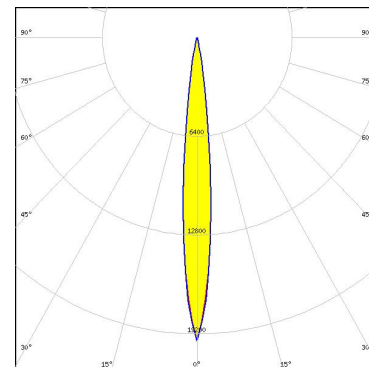


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



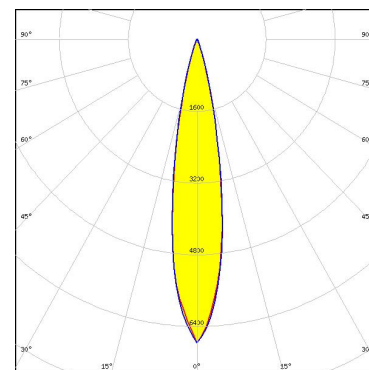
LED LZ4-00XX08  
 FWHM / FWTM 10.0° / 22.0°  
 Efficiency 95 %  
 Peak intensity 19.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



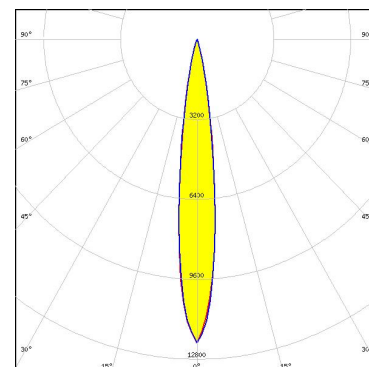
LED LUXEON CoB 1202/1203  
 FWHM / FWTM 19.0° / 35.0°  
 Efficiency 93 %  
 Peak intensity 6.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17437\_HEKLA-G2-H



Light distribution files



LED LUXEON CoB 1202s  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 96 %  
 Peak intensity 12.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15858\_HEKLA-SOCKET-H

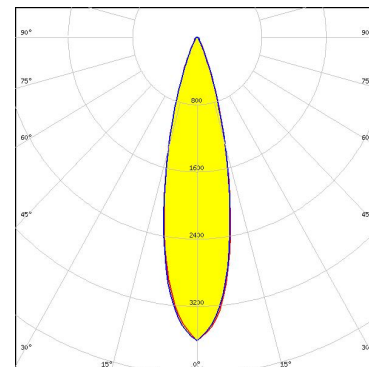


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



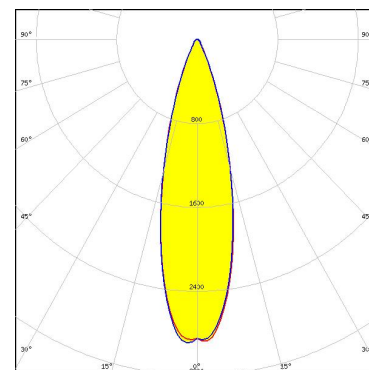
LED LUXEON CoB 1204/1205  
 FWHM / FWTM 26.0° / 47.0°  
 Efficiency 93 %  
 Peak intensity 3.6 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



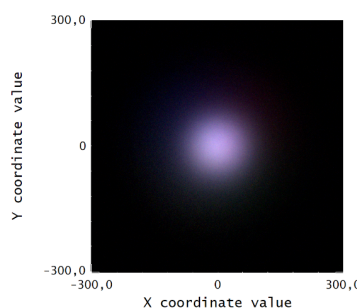
LED LUXEON CoB 1208  
 FWHM / FWTM 28.0° / 52.0°  
 Efficiency 90 %  
 Peak intensity 2.9 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Rubix  
 FWHM / FWTM 13.0° / 24.0°  
 Efficiency 95 %  
 Peak intensity 15.1 cd/Im  
 LEDs/each optic 4  
 Light colour/type RGBW  
 Required components:



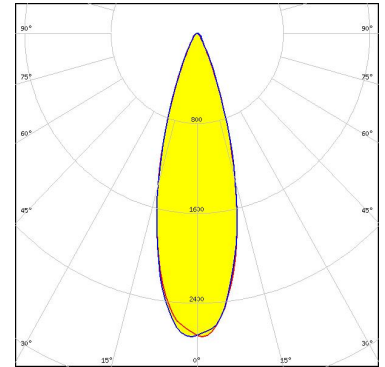
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



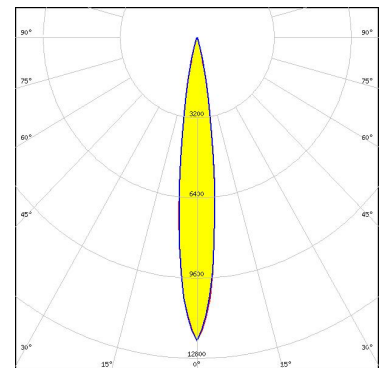
LED CxM-14 (18.5x18.5)  
 FWHM / FWTM 30.0° / 54.0°  
 Efficiency 93 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17438\_HEKLA-G2-I



Light distribution files



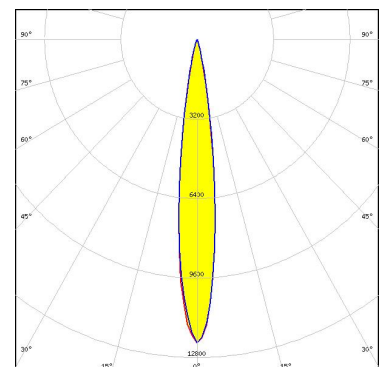
LED COB S-Type (LES 6)  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 93 %  
 Peak intensity 12.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



Light distribution files



LED COB S-Type (LES 6)  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 93 %  
 Peak intensity 12.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G

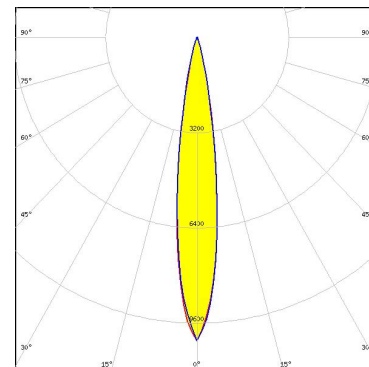


Light distribution files

### OPTICAL RESULTS (SIMULATED):



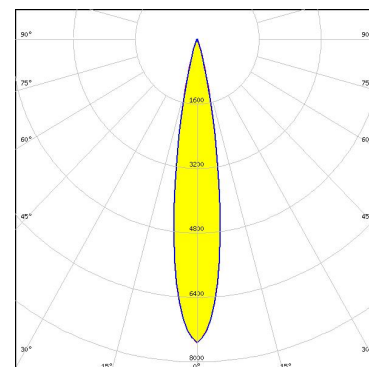
LED COB S-Type (LES 7)  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 95 %  
 Peak intensity 10.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



Light distribution files



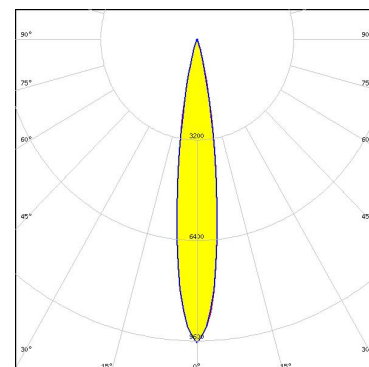
LED NFSWE11A  
 FWHM / FWTM 18.0° / 32.0°  
 Efficiency 88 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 30  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



Light distribution files



LED NJCWL024Z-V1MT: COB L-Type Tunable White  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 94 %  
 Peak intensity 9.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



Light distribution files

Bender Wirth: 497 Typ L8

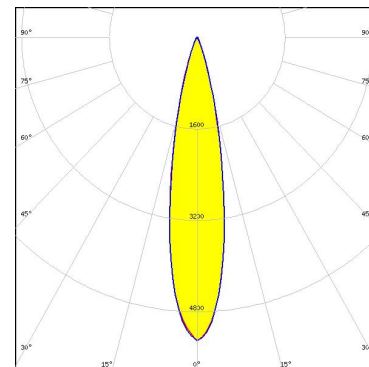
#### OPTICAL RESULTS (SIMULATED):



LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
 FWHM / FWTM 20.0° / 40.0°  
 Efficiency 93 %  
 Peak intensity 5.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

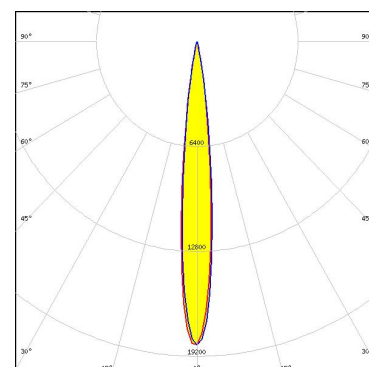
Bender Wirth: 498 Typ L8

Light distribution files



LED OSTAR Stage (S2WP)  
 FWHM / FWTM 12.0° / 21.0°  
 Efficiency 93 %  
 Peak intensity 18.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

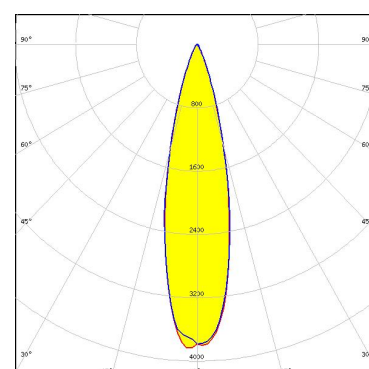
Light distribution files



LED Fortimo SLM L13 CoB  
 FWHM / FWTM 24.0° / 46.0°  
 Efficiency 93 %  
 Peak intensity 3.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Bender Wirth: 632a Hekla XL

Light distribution files



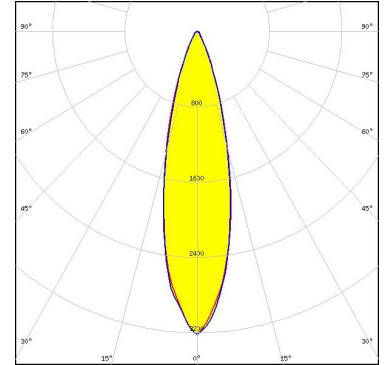
### OPTICAL RESULTS (SIMULATED):

#### PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	26.0° / 51.0°
Efficiency	92 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 632a Hekla XL

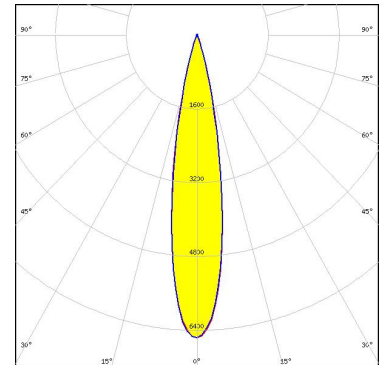
Light distribution files



#### SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	19.0° / 34.0°
Efficiency	87 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F15255_HEKLA-SOCKET-C

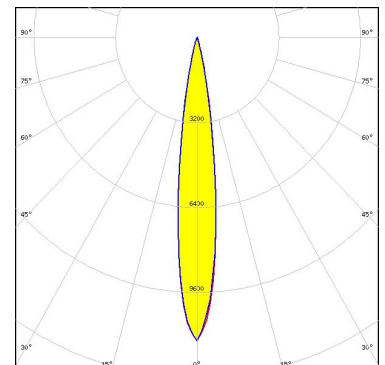
Light distribution files



#### SAMSUNG

LED	LC020C
FWHM / FWTM	14.0° / 28.0°
Efficiency	94 %
Peak intensity	11.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F17438_HEKLA-G2-I

Light distribution files



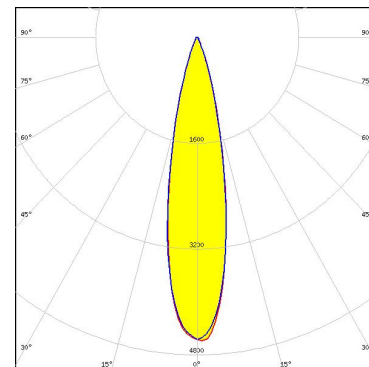
### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LC020T (Tunable white)  
 FWHM / FWTM 22.0° / 42.0°  
 Efficiency 92 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

Bender Wirth: 501 Typ L8

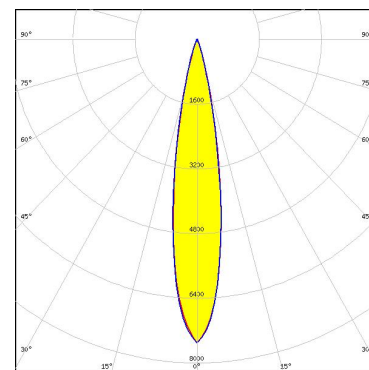
Light distribution files



#### XICATO

LED XTM - 9mm LES  
 FWHM / FWTM 18.0° / 34.0°  
 Efficiency 94 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C15743\_XTM-ADAPTER-50-B

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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