

### WINNIE-W-C

~50° spot beam with holder C compatible with LEDiL HEKLA

#### SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	19.5 mm
Fastening	tape
ROHS compliant	yes ⓘ



#### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
C14234_WINNIE-W	Single lens	PMMA	clear		
C15821_WINNIE-HLD-C	Holder	PC	black		

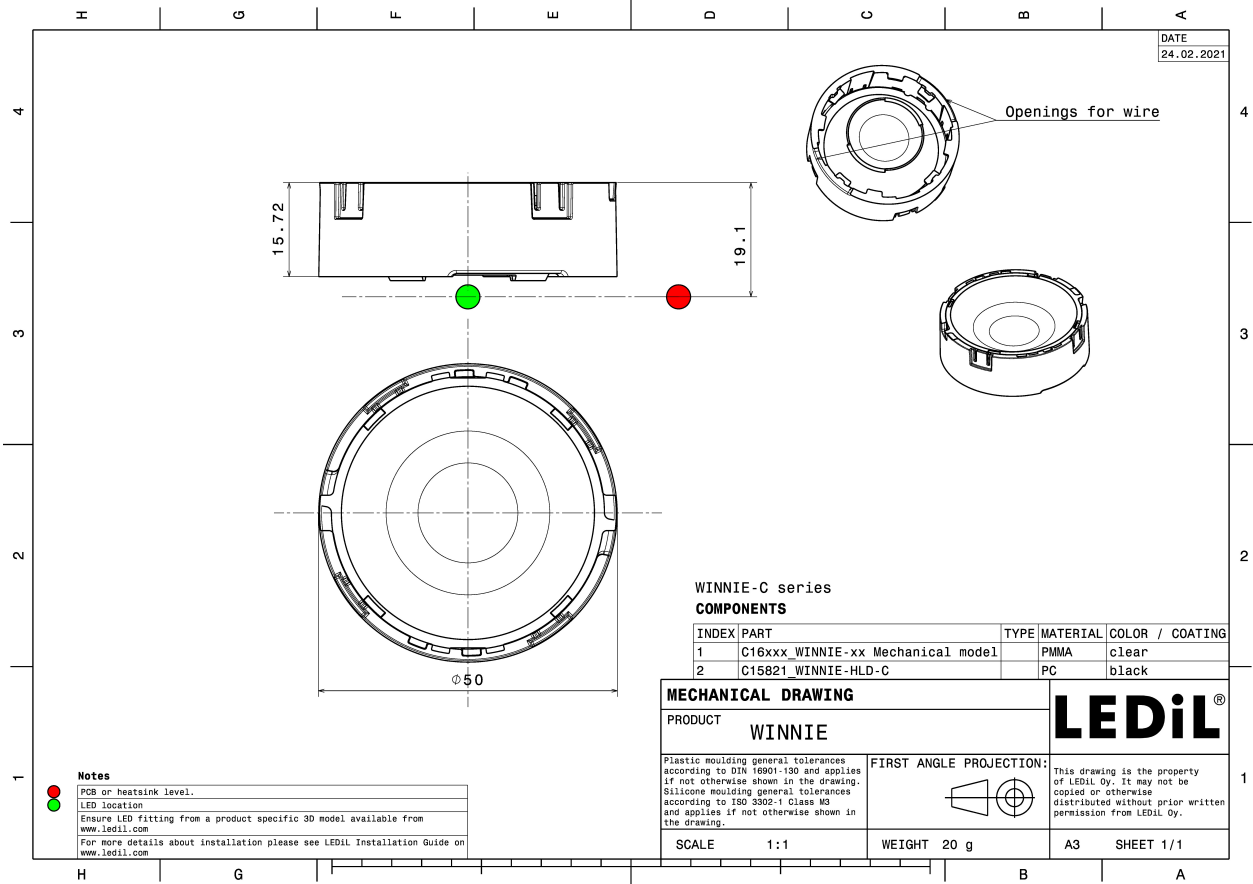
#### ORDERING INFORMATION:

##### Quantities for one set:

Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14234_WINNIE-W	Single lens	364	84	28	5.6
» Box size: 480 x 280 x 300 mm					
C15821_WINNIE-HLD-C	Holder	420		28	4.1
» Box size: 400 x 300 x 300 mm					



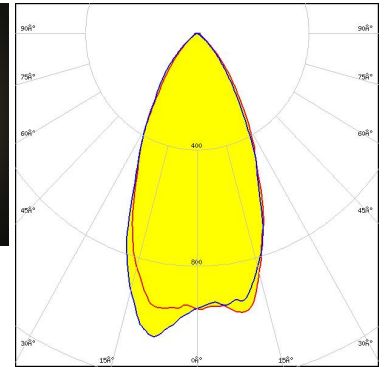


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

bridgelux

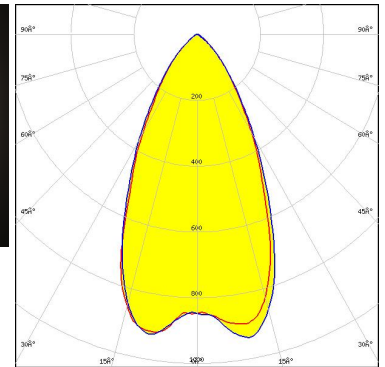
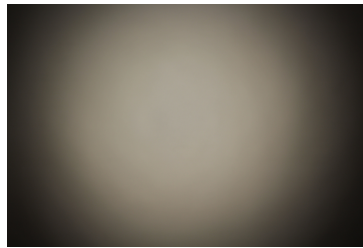
LED V4 HD Gen 7  
 FWHM / FWTM 50.0° / 89.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15253\_HEKLA-SOCKET-A



Light distribution files

bridgelux

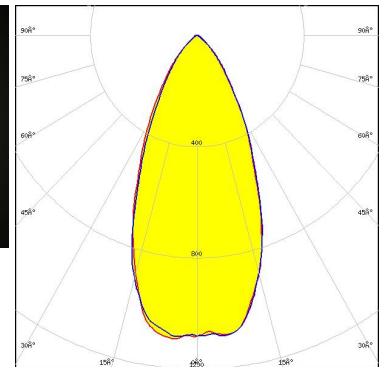
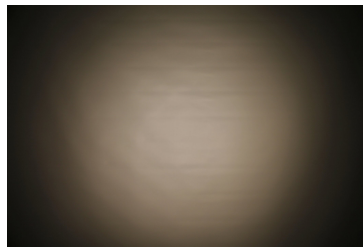
LED V6 Gen6  
 FWHM / FWTM 53.0° / 91.0°  
 Efficiency 83 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15253\_HEKLA-SOCKET-A



Light distribution files

bridgelux

LED V6 HD Gen 7  
 FWHM / FWTM 47.0° / 87.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

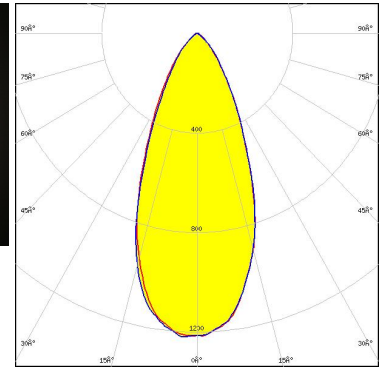
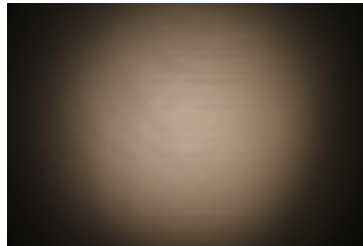


Light distribution files

### OPTICAL RESULTS (MEASURED):



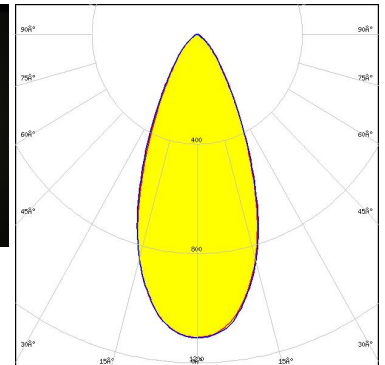
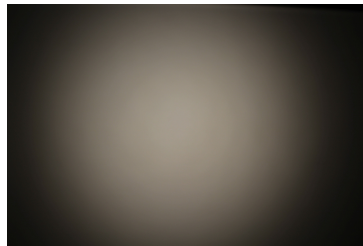
**LED** V9 HD Gen7  
**FWHM / FWTM** 44.0° / 82.0°  
**Efficiency** 83 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



Light distribution files



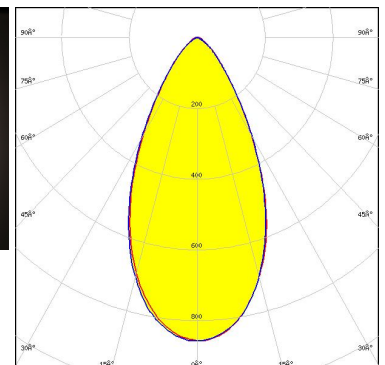
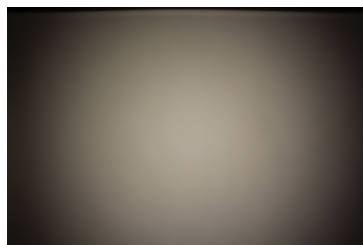
**LED** VERO13  
**FWHM / FWTM** 45.0° / 83.0°  
**Efficiency** 78 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



Light distribution files



**LED** VERO18  
**FWHM / FWTM** 52.0° / 92.0°  
**Efficiency** 76 %  
**Peak intensity** 0.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



Light distribution files

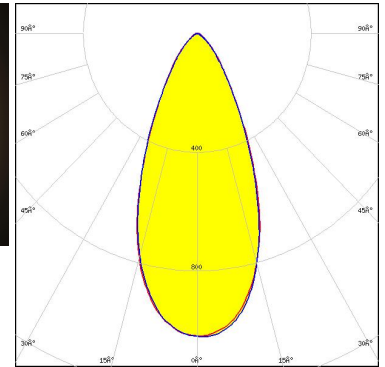
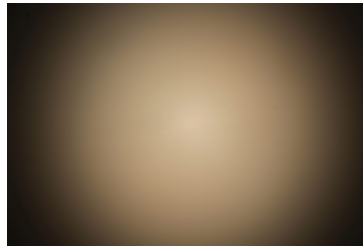
### OPTICAL RESULTS (MEASURED):



LED Vesta DTW 13mm (21W)  
 FWHM / FWTM 46.0° / 84.0°  
 Efficiency 75 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 491 Typ L8



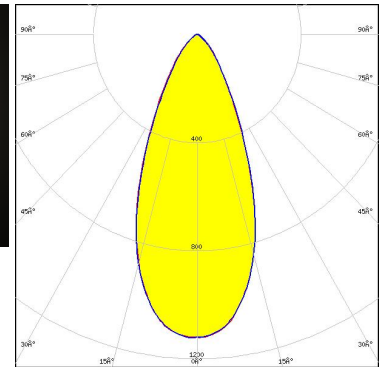
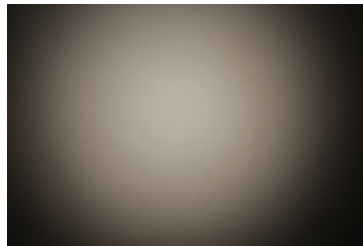
Light distribution files



LED Vesta TW 13mm (25W) CSP  
 FWHM / FWTM 44.0° / 81.0°  
 Efficiency 78 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 492 Typ L8



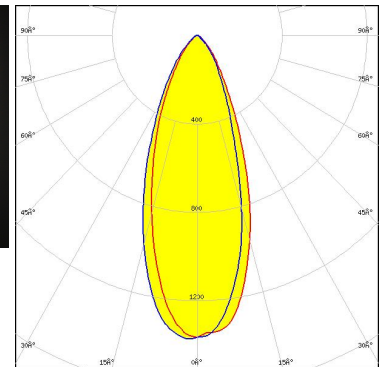
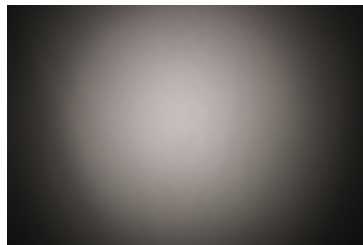
Light distribution files



LED Vesta TW 6mm DP  
 FWHM / FWTM 38.0° / 77.0°  
 Efficiency 79 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

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

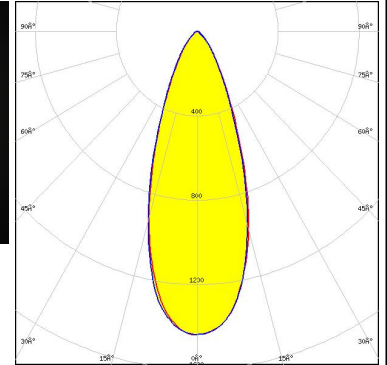


Light distribution files

### OPTICAL RESULTS (MEASURED):



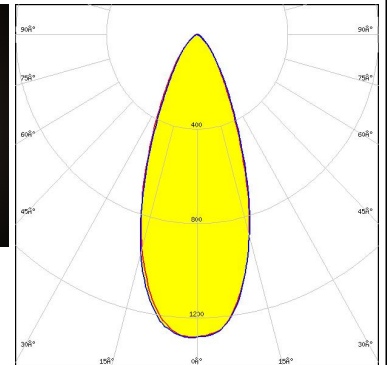
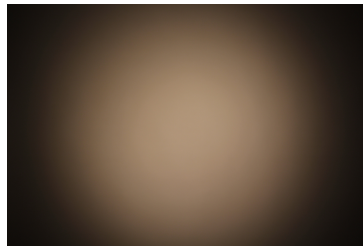
LED Vesta TW 9mm (12W) CSP  
 FWHM / FWTM 38.0° / 72.0°  
 Efficiency 78 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



Light distribution files

### CITIZEN

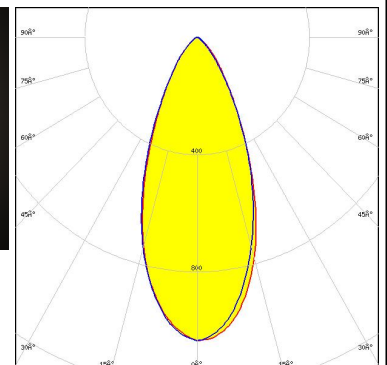
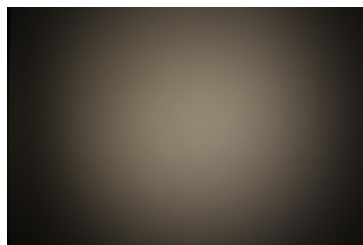
LED CLC020 Series (Dim-To-Warm)  
 FWHM / FWTM 41.0° / 78.0°  
 Efficiency 79 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



Light distribution files

### CITIZEN

LED CLC030 Series (Dim-To-Warm)  
 FWHM / FWTM 43.0° / 82.0°  
 Efficiency 70 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

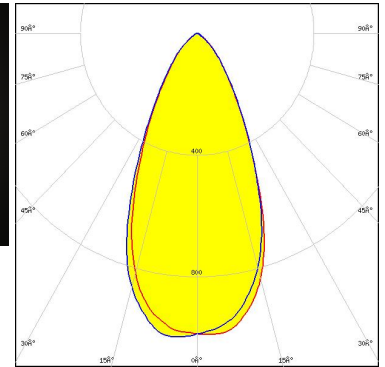


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

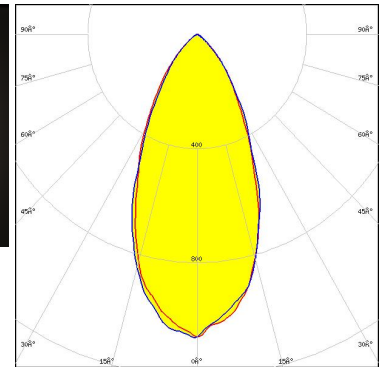
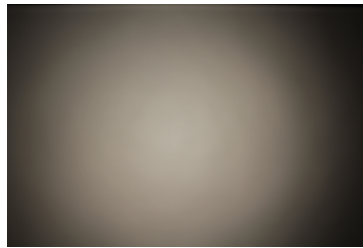
LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 48.0° / 88.0°  
 Efficiency 79 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

#### CITIZEN

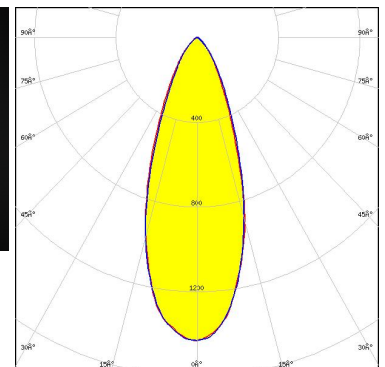
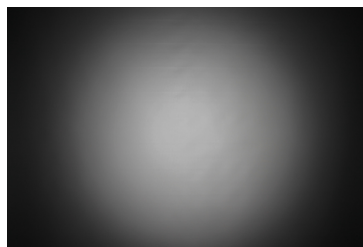
LED CLU7A2/7A3  
 FWHM / FWTM 48.0° / 90.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

#### CITIZEN

LED LCN-C01B (Tunable White)  
 FWHM / FWTM 38.0° / 74.0°  
 Efficiency 78 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 481 Typ L8



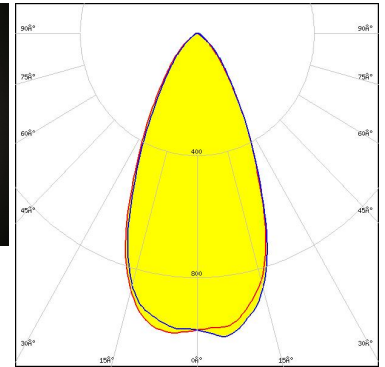
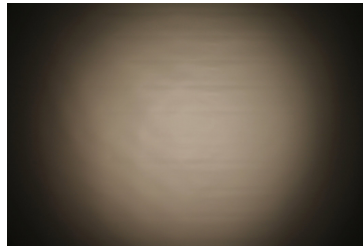
Light distribution files



### OPTICAL RESULTS (MEASURED):



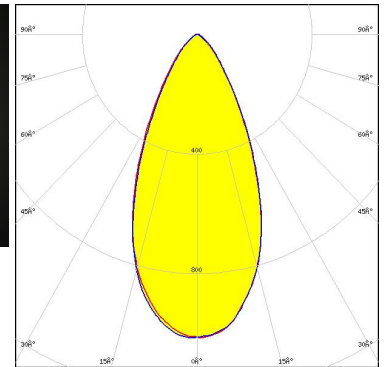
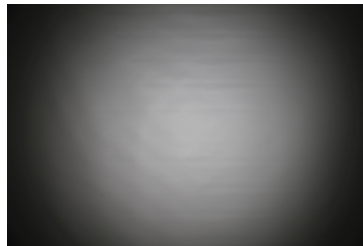
LED CMT14xx  
 FWHM / FWTM 49.0° / 89.0°  
 Efficiency 82 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



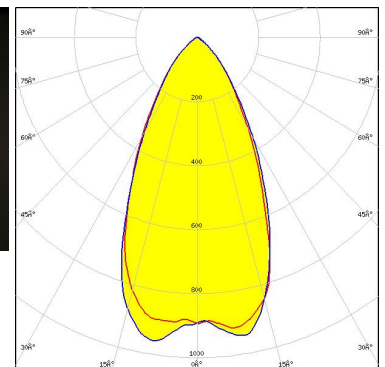
LED CMT19xx  
 FWHM / FWTM 48.0° / 86.0°  
 Efficiency 79 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



Light distribution files



LED CXA/B 13xx  
 FWHM / FWTM 52.0° / 92.0°  
 Efficiency 83 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15956\_HEKLA-SOCKET-J

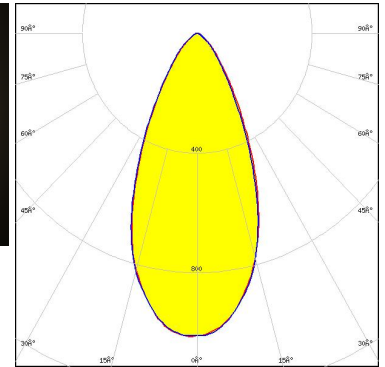
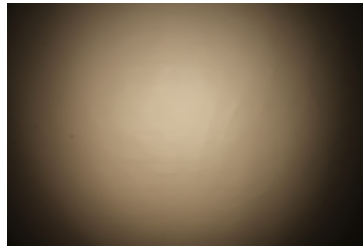


Light distribution files

### OPTICAL RESULTS (MEASURED):



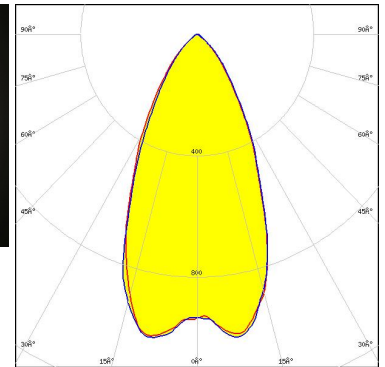
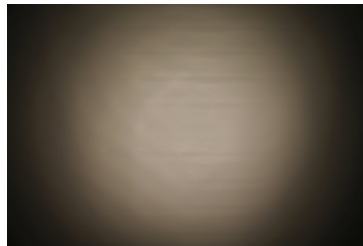
LED LUXEON CX Plus CoB L08 (Gen2)  
 FWHM / FWTM 48.0° / 86.0°  
 Efficiency 79 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 637a Hekla



Light distribution files



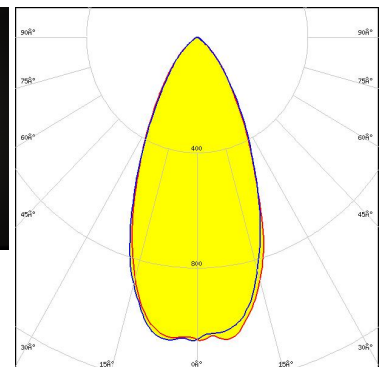
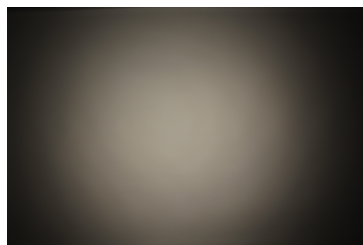
LED LUXEON CoB 1202HD  
 FWHM / FWTM 50.0° / 89.0°  
 Efficiency 84 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



Light distribution files



LED LUXEON CoB 1202s  
 FWHM / FWTM 48.0° / 88.0°  
 Efficiency 83 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



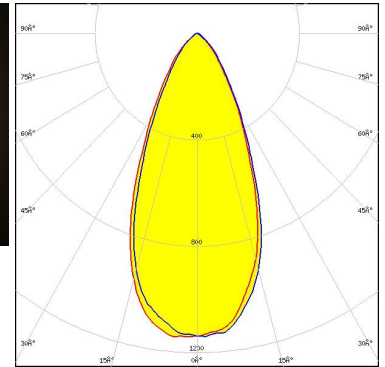
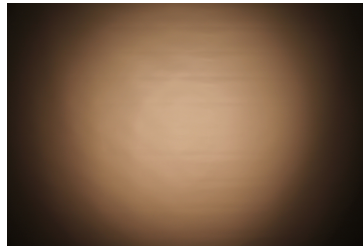
Light distribution files



### OPTICAL RESULTS (MEASURED):



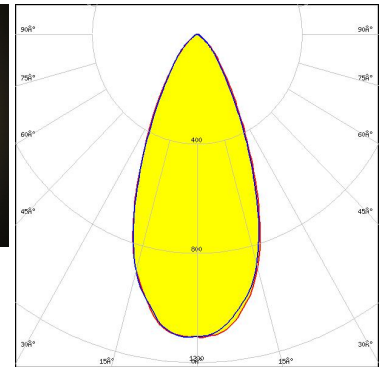
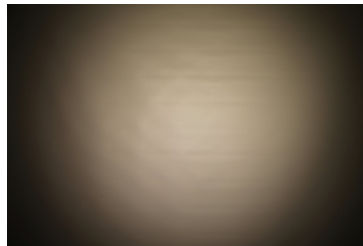
LED LUXEON CoB 1204HD  
FWHM / FWTM 46.0° / 85.0°  
Efficiency 84 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15858\_HEKLA-SOCKET-H



Light distribution files



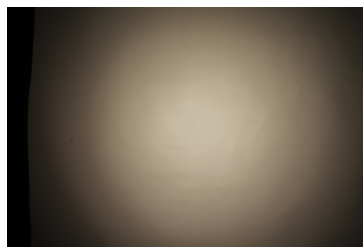
LED LUXEON CoB 1205HD  
FWHM / FWTM 46.0° / 84.0°  
Efficiency 82 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15858\_HEKLA-SOCKET-H



Light distribution files



LED LUXEON CX Plus CoB - HD S01H4  
FWHM / FWTM 46.0° / 87.0°  
Efficiency 83 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 634c Hekla

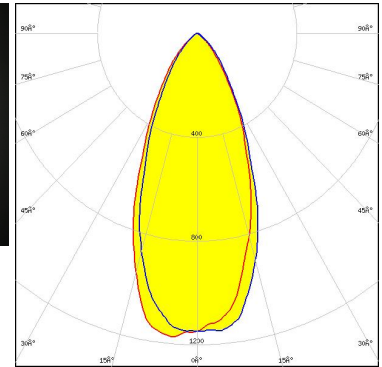


Light distribution files

### OPTICAL RESULTS (MEASURED):



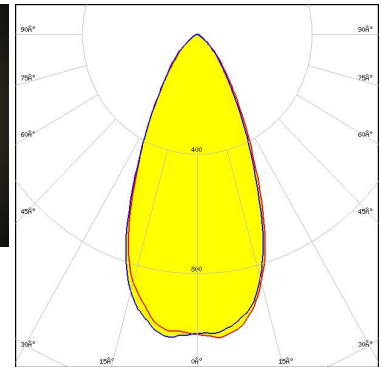
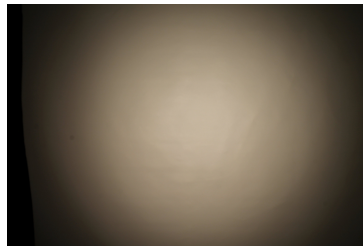
LED LUXEON CX Plus CoB - HD S02H6  
 FWHM / FWTM 44.0° / 86.0°  
 Efficiency 83 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



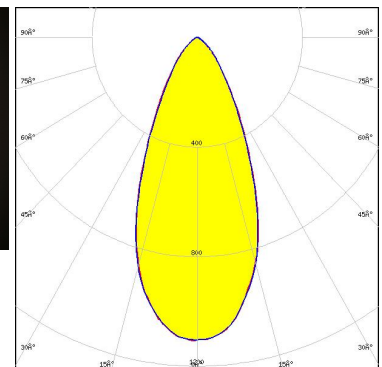
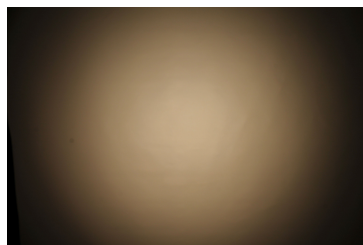
LED LUXEON CX Plus CoB - HD S04H9  
 FWHM / FWTM 48.0° / 88.0°  
 Efficiency 82 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON CX Plus CoB L04 / L05 (Gen2)  
 FWHM / FWTM 46.0° / 85.0°  
 Efficiency 80 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 637a Hekla

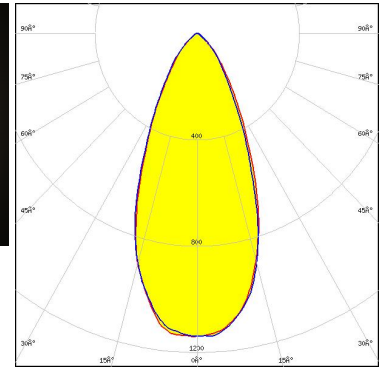
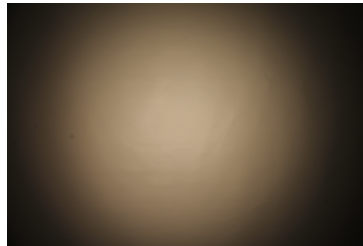


Light distribution files

### OPTICAL RESULTS (MEASURED):



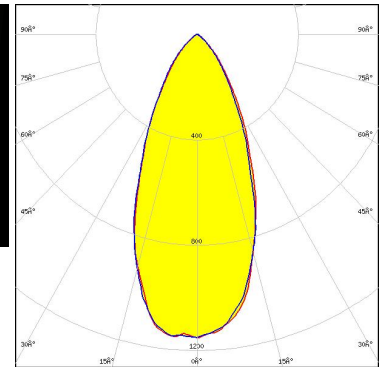
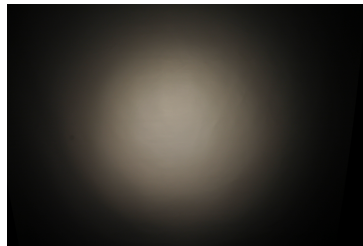
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
 FWHM / FWTM 45.0° / 85.0°  
 Efficiency 82 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 641a Hekla



Light distribution files



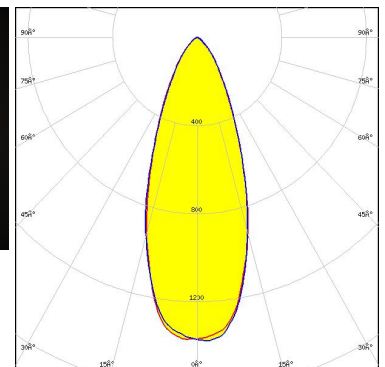
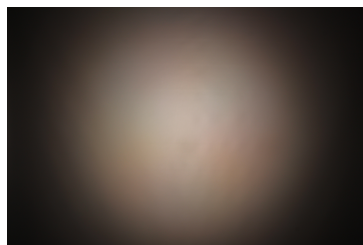
LED LUXEON CX Plus CoB S01 (Gen2)  
 FWHM / FWTM 45.0° / 86.0°  
 Efficiency 84 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON Fusion 12-up (20x24)  
 FWHM / FWTM 39.0° / 77.0°  
 Efficiency 80 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 442 Typ L8

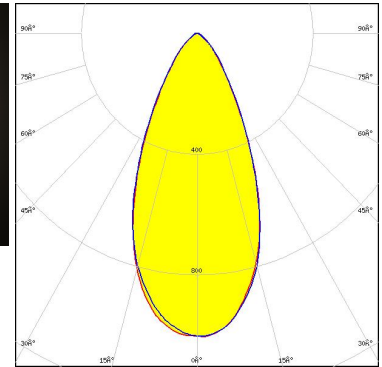
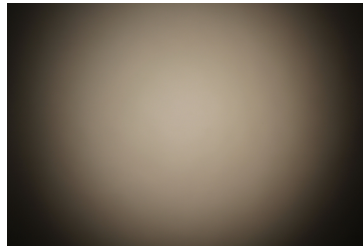


Light distribution files

### OPTICAL RESULTS (MEASURED):



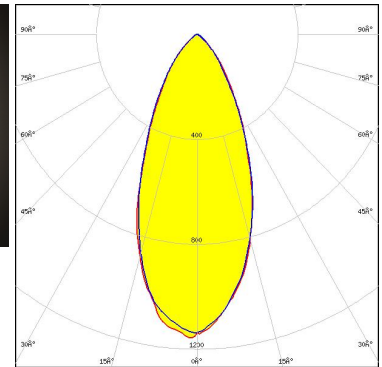
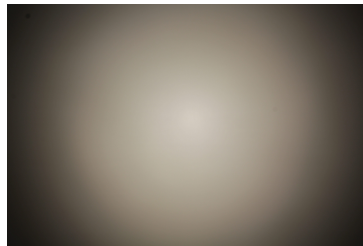
LED CxM-14 (19x19)  
FWHM / FWTM 48.0° / 86.0°  
Efficiency 78 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files



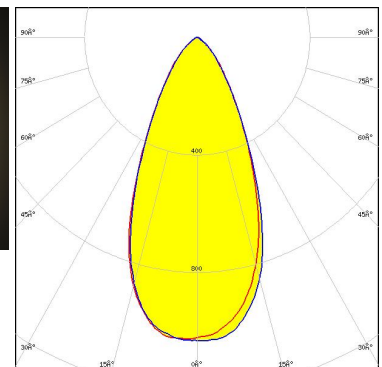
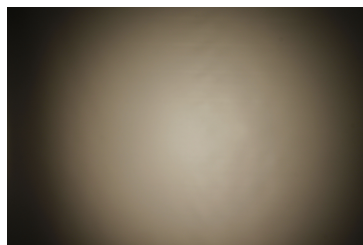
LED CXM-4  
FWHM / FWTM 45.0° / 86.0°  
Efficiency 82 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 48.0° / 88.0°  
Efficiency 81 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

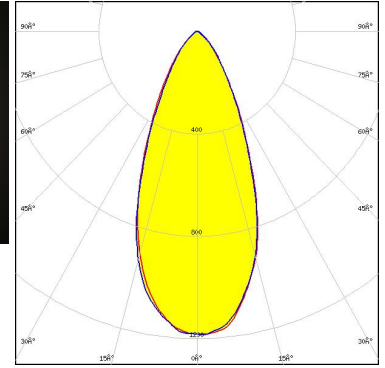


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

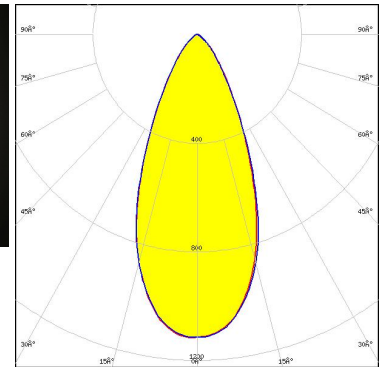
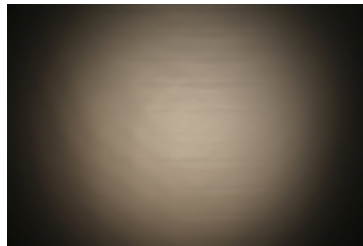
LED Fortimo SLM L09 CoB  
 FWHM / FWTM 45.0° / 83.0°  
 Efficiency 83 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



Light distribution files

#### PHILIPS

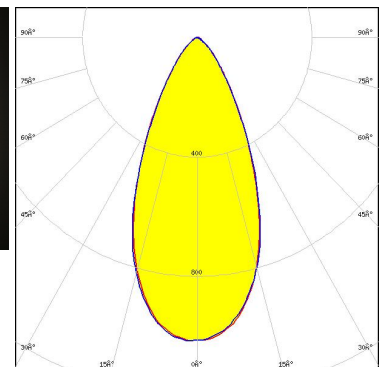
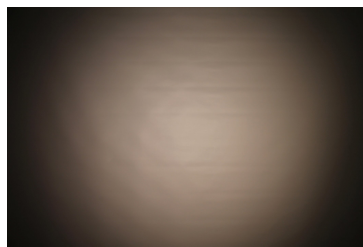
LED Fortimo SLM L13 CoB  
 FWHM / FWTM 45.0° / 82.0°  
 Efficiency 79 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



Light distribution files

#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM / FWTM 47.0° / 85.0°  
 Efficiency 77 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



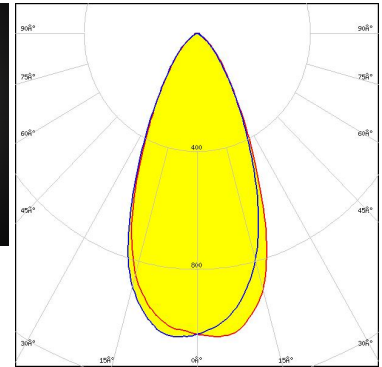
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

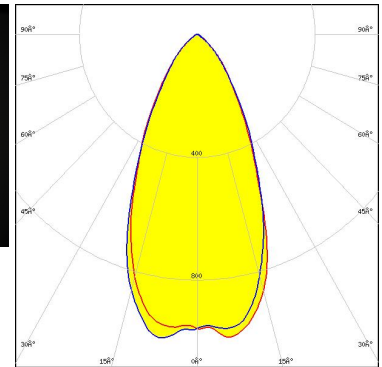
LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 48.0° / 88.0°  
 Efficiency 81 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

#### SAMSUNG

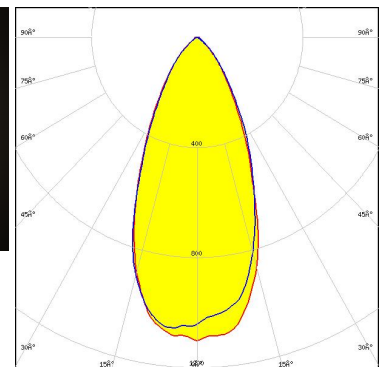
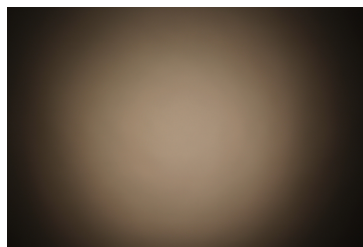
LED LC010C  
 FWHM / FWTM 49.0° / 90.0°  
 Efficiency 82 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



Light distribution files

#### SAMSUNG

LED LC010C G2  
 FWHM / FWTM 46.0° / 87.0°  
 Efficiency 82 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

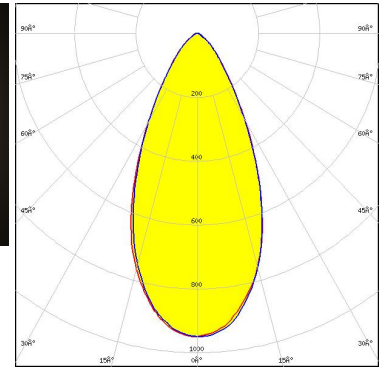
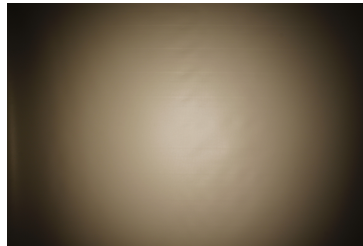


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

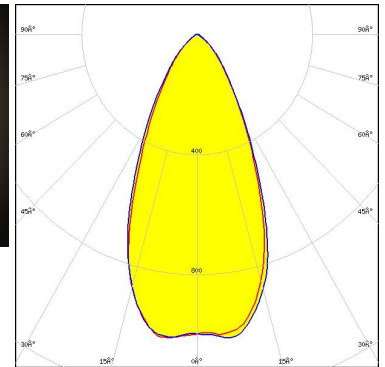
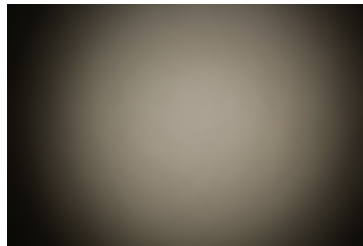
LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 49.0° / 89.0°  
 Efficiency 77 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



Light distribution files

#### SAMSUNG

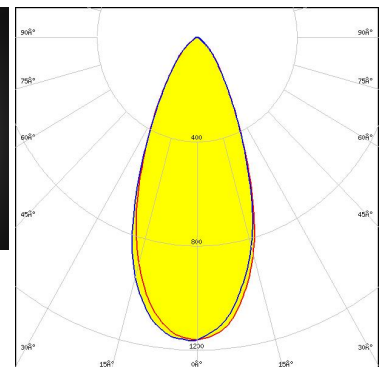
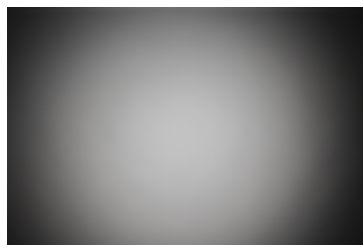
LED LC020C  
 FWHM / FWTM 48.0° / 88.0°  
 Efficiency 82 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



Light distribution files

#### SAMSUNG

LED LC020C G2  
 FWHM / FWTM 44.0° / 84.0°  
 Efficiency 82 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

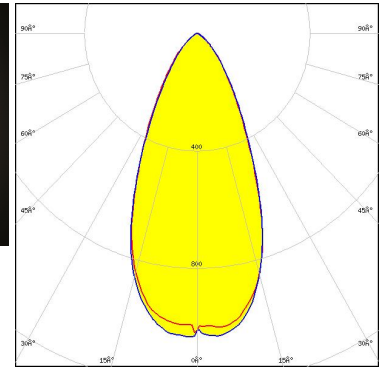
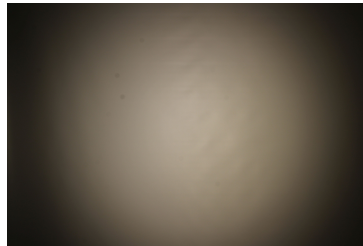


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

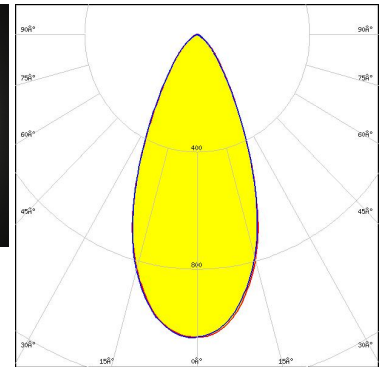
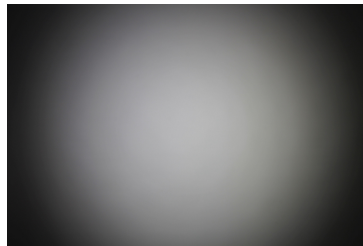
LED SLE G7 LES09  
FWHM / FWTM 48.0° / 87.0°  
Efficiency 80 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

#### TRIDONIC

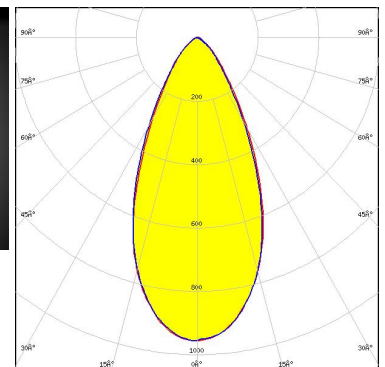
LED SLE G7 LES13  
FWHM / FWTM 47.0° / 86.0°  
Efficiency 78 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files

#### TRIDONIC

LED SLE G7 LES15  
FWHM / FWTM 49.0° / 88.0°  
Efficiency 77 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



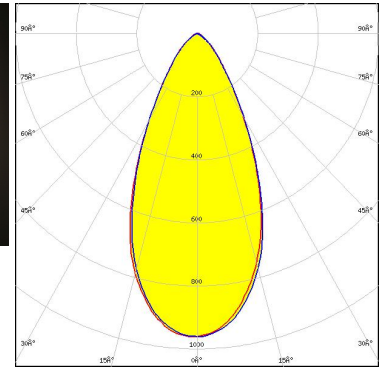
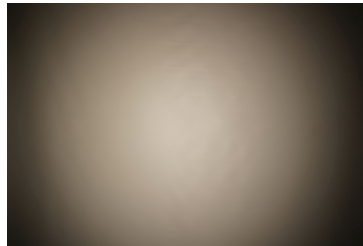
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### XICATO

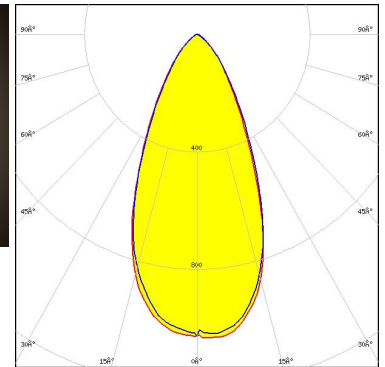
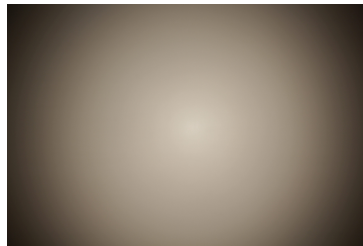
LED XOB 14.5 mm  
FWHM / FWTM 49.0° / 88.0°  
Efficiency 78 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files

#### XICATO

LED XOB 9.8 mm  
FWHM / FWTM 47.0° / 88.0°  
Efficiency 81 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

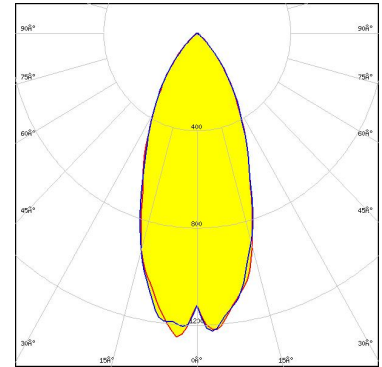


Light distribution files

### OPTICAL RESULTS (SIMULATED):



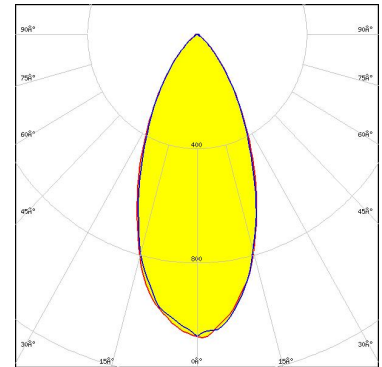
**LED** VERO10  
**FWHM / FWTM** 44.0° / 84.0°  
**Efficiency** 85 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15616\_HEKLA-SOCKET-F



Light distribution files

### CITIZEN

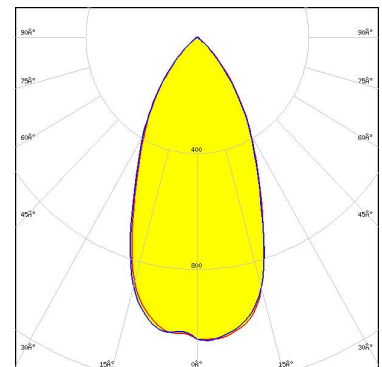
**LED** CLL03x/CLU03x  
**FWHM / FWTM** 46.0° / 86.0°  
**Efficiency** 77 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



Light distribution files



**LED** CXA/B 15xx  
**FWHM / FWTM** 49.0° / 89.0°  
**Efficiency** 85 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15256\_HEKLA-SOCKET-D

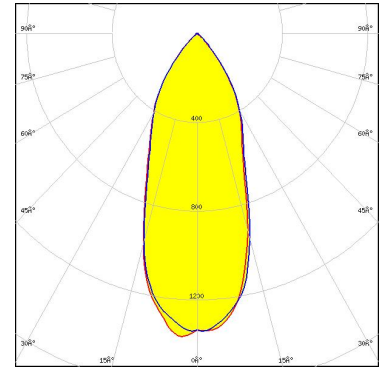


Light distribution files

### OPTICAL RESULTS (SIMULATED):



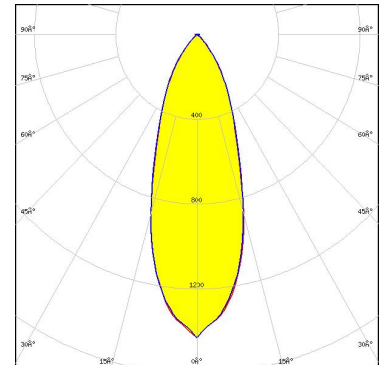
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 39.0° / 83.0°  
 Efficiency 88 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



Light distribution files



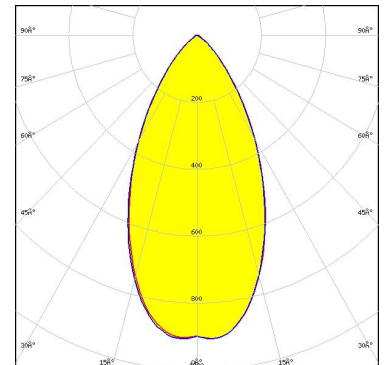
LED NFSWE11A  
 FWHM / FWTM 36.0° / 76.0°  
 Efficiency 75 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 30  
 Light colour/type White  
 Required components:



Light distribution files




LED MJT COB LES 14.5  
 FWHM / FWTM 52.0° / 92.0°  
 Efficiency 79 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

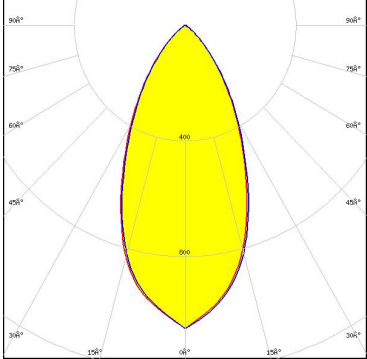


Light distribution files

### OPTICAL RESULTS (SIMULATED):

 SECL SEOUL SEMICONDUCTOR		
LED	MJT COB LES 9.8	
FWHM / FWTM	49.0° / 90.0°	
Efficiency	83 %	
Peak intensity	1.1 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

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