

## BARBARA-XW-PF

White version with ~75° wide beam

### SPECIFICATION:

Dimensions	Ø 70.0 mm
Height	41.7 mm
Fastening	socket
ROHS compliant	yes ⓘ

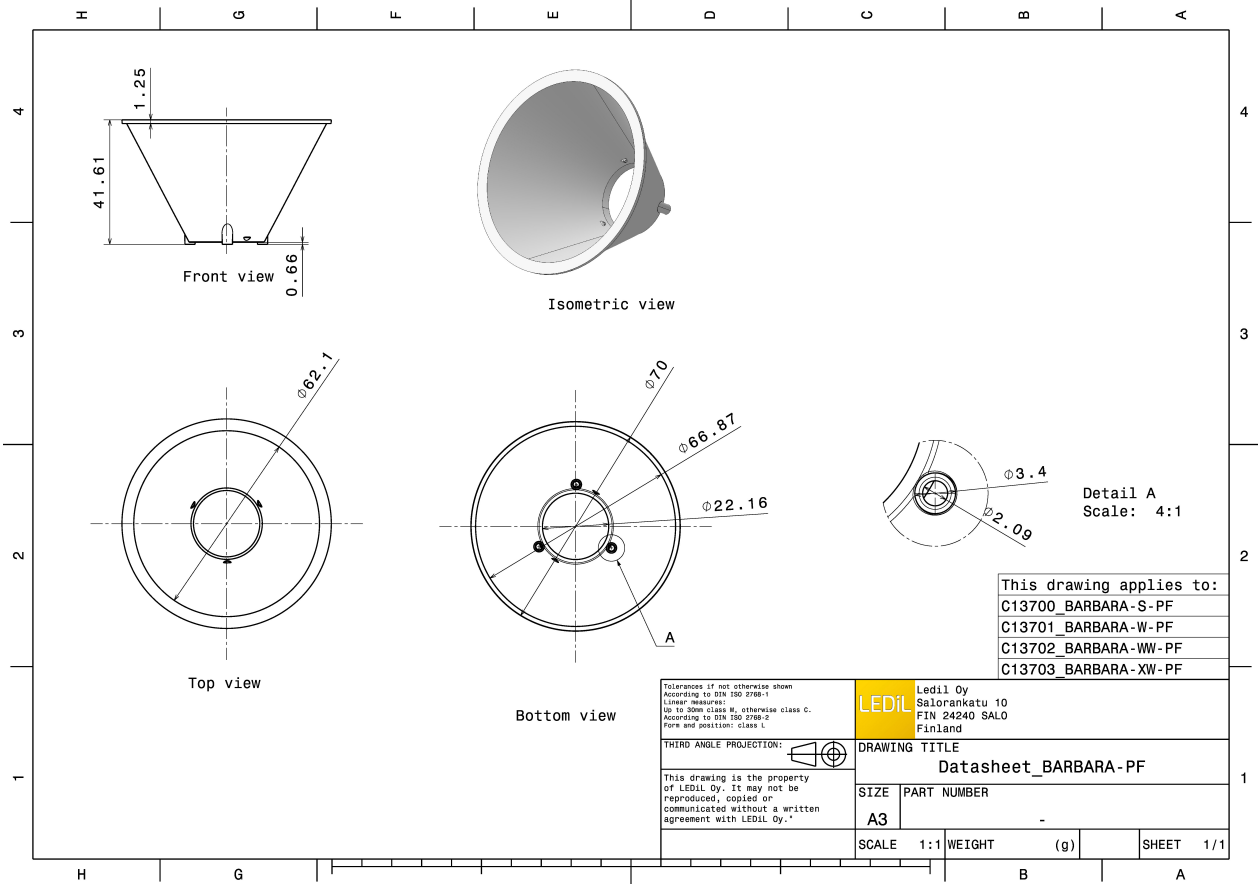
### MATERIALS:

Component	Type	Material	Colour	Finish	Coating
BARBARA-XW-PF	Reflector	HRPC	white		



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13703_BARBARA-XW-PF » Box size: 480 x 280 x 300 mm	288	90	18	6.1



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

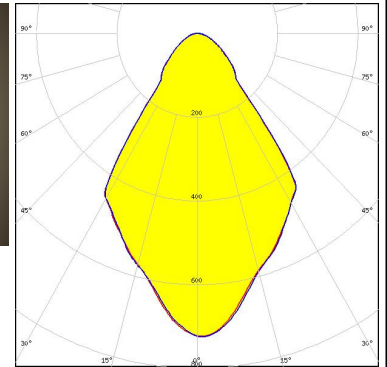
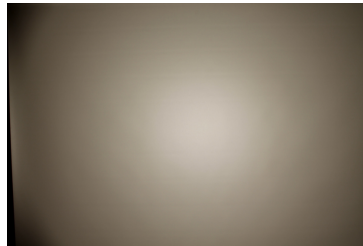
#### OPTICAL RESULTS (MEASURED):

bridgelux

LED V10 Gen7  
FWHM / FWTM 70.0° / 111.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 434 Typ L1



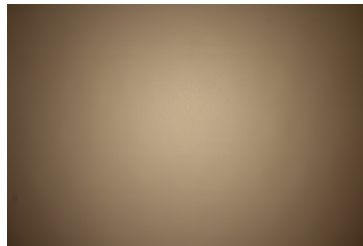
Light distribution files

bridgelux

LED V15 Gen6  
FWHM / FWTM 71.0° / 116.0°  
Efficiency 89 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 456 Typ L2



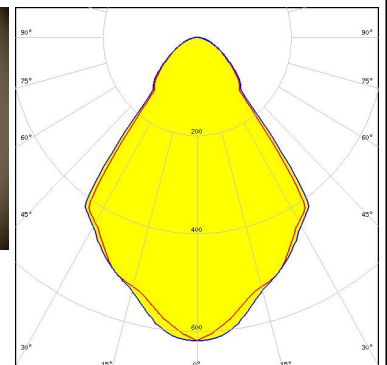
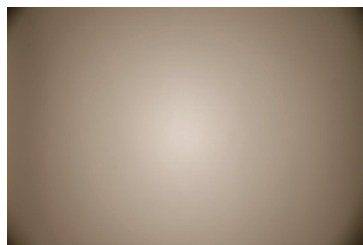
Light distribution files

bridgelux

LED V8 Gen6  
FWHM / FWTM 74.0° / 119.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13761\_PF-SOCKET-CXA15

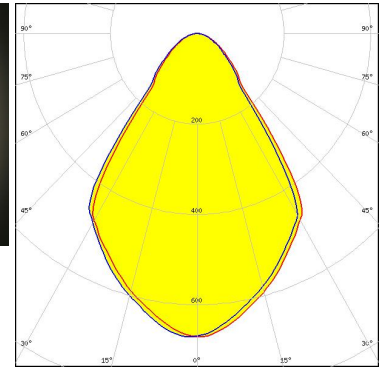
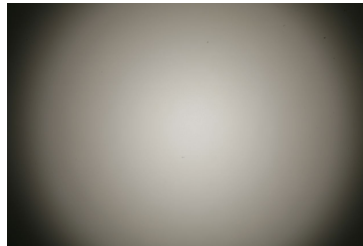


Light distribution files

#### OPTICAL RESULTS (MEASURED):



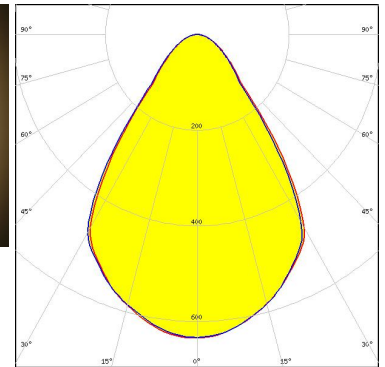
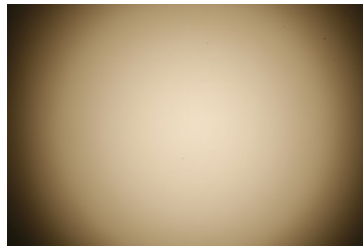
**LED** VERO13  
**FWHM / FWTM** 72.0° / 116.0°  
**Efficiency** 93 %  
**Peak intensity** 0.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18



Light distribution files



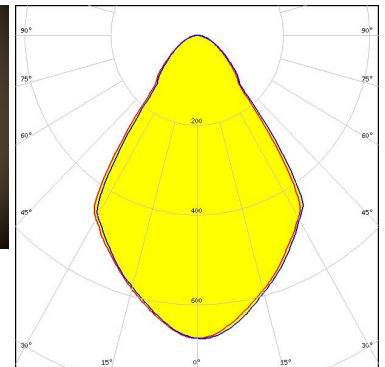
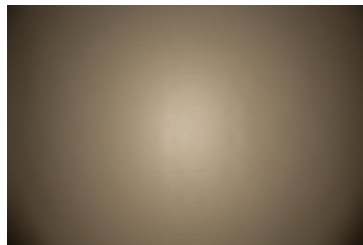
**LED** VERO18  
**FWHM / FWTM** 72.0° / 116.0°  
**Efficiency** 93 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18



Light distribution files



**LED** Xenio Point 13mm  
**FWHM / FWTM** 71.0° / 114.0°  
**Efficiency** 92 %  
**Peak intensity** 0.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18



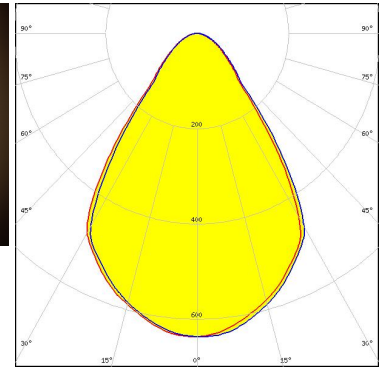
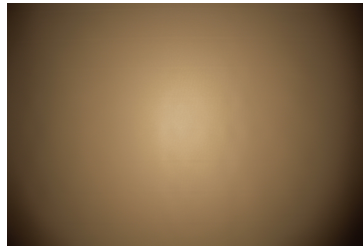
Light distribution files



#### OPTICAL RESULTS (MEASURED):



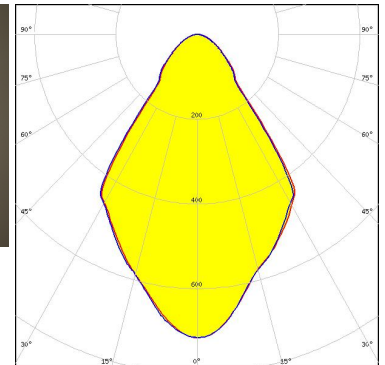
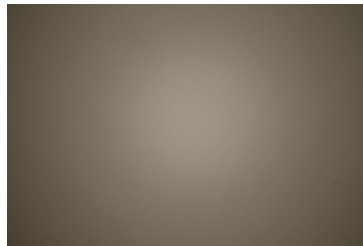
LED Xenio Point 18mm  
 FWHM / FWTM 72.0° / 115.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18



Light distribution files

#### CITIZEN

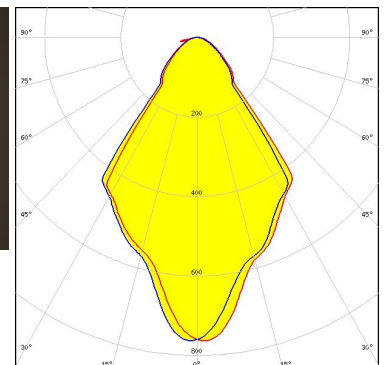
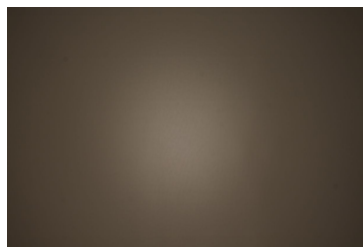
LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 70.0° / 111.0°  
 Efficiency 90 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



Light distribution files

#### CITIZEN

LED CLU700/701/702/703  
 FWHM / FWTM 70.0° / 109.0°  
 Efficiency 90 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



Light distribution files

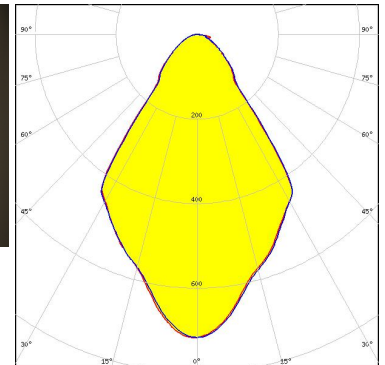
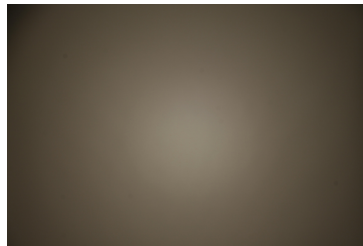
#### OPTICAL RESULTS (MEASURED):



LED CXA/B 15xx  
FWHM / FWTM 70.0° / 110.0°  
Efficiency 92 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14115\_PF-SOCKET-CXA15-18



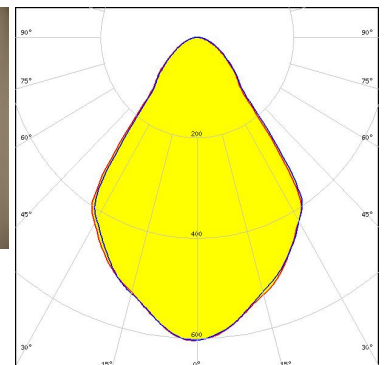
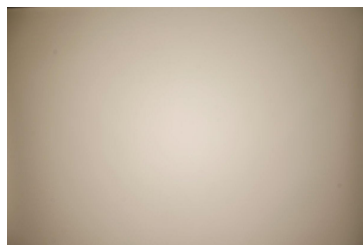
LED CXA/B 15xx  
FWHM / FWTM 70.0° / 111.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 441 Typ L1



Light distribution files



LED CXA/B 15xx  
FWHM / FWTM 73.0° / 117.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13083\_PF-SOCKET  
C14658\_BARBARA-RZ-LENS

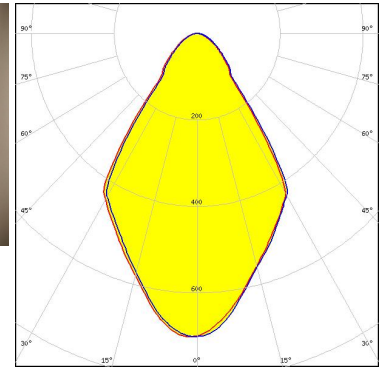
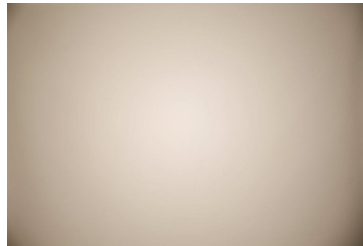


Light distribution files

#### OPTICAL RESULTS (MEASURED):



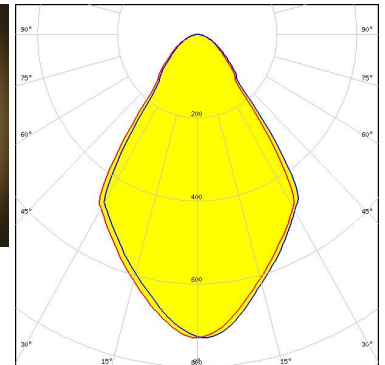
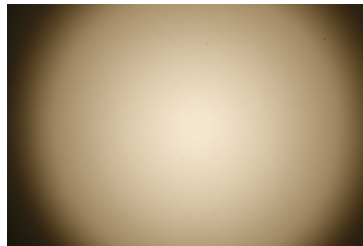
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM / FWTM 67.0° / 106.0°  
Efficiency 82 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 437 Typ L1



Light distribution files



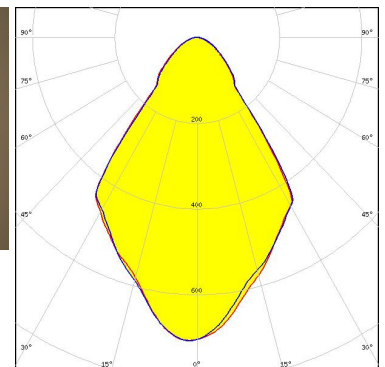
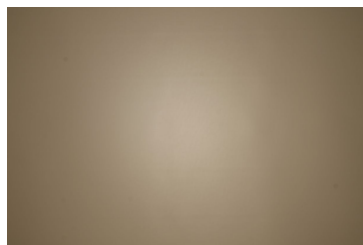
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM / FWTM 70.0° / 112.0°  
Efficiency 93 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14115\_PF-SOCKET-CXA15-18



Light distribution files



LED LUXEON CoB 1202/1203  
FWHM / FWTM 71.0° / 112.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 438 Typ L1

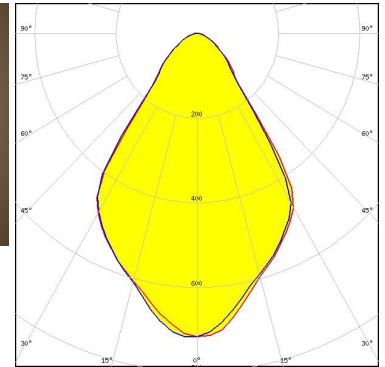
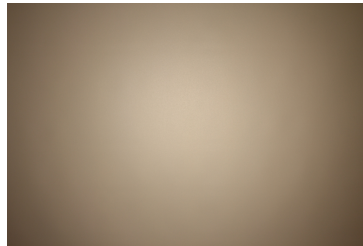


Light distribution files

#### OPTICAL RESULTS (MEASURED):



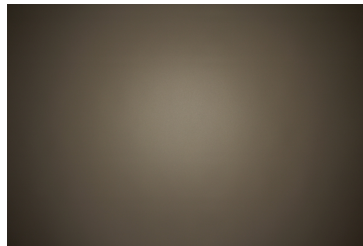
LED LUXEON CoB 1202/1203  
FWHM / FWTM 71.0° / 112.0°  
Efficiency 92 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14037\_PF-NSX-SOCKET



Light distribution files



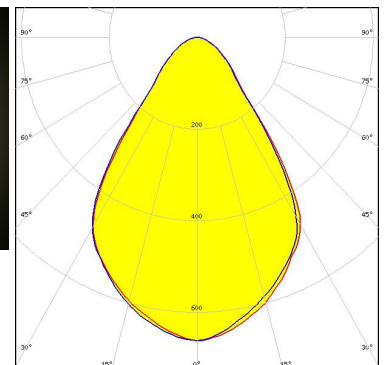
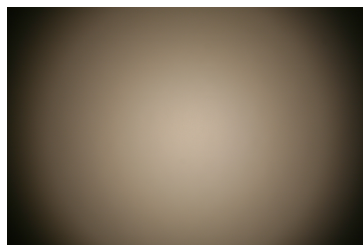
LED LUXEON CoB 1202s  
FWHM / FWTM 75.0° / 120.0°  
Efficiency 92 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13761\_PF-SOCKET-CXA15



Light distribution files



LED COB J-Type  
FWHM / FWTM 72.0° / 116.0°  
Efficiency 93 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14037\_PF-NSX-SOCKET



Light distribution files

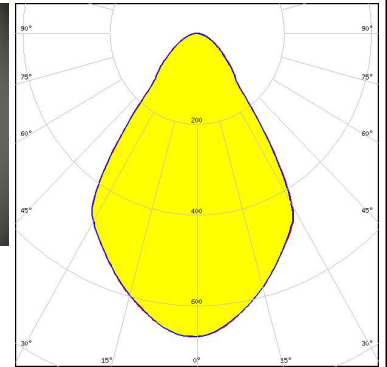
#### OPTICAL RESULTS (MEASURED):



LED COB J-Type  
FWHM / FWTM 70.0° / 112.0°  
Efficiency 89 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 463 Typ L2



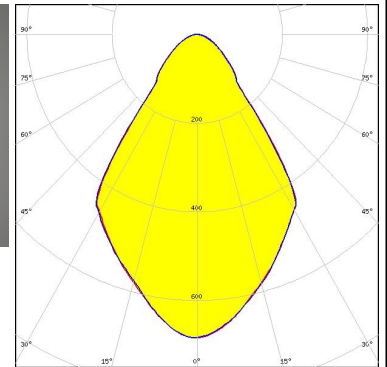
Light distribution files



LED COB L-Type (LES 11)  
FWHM / FWTM 70.0° / 113.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 438 Typ L1



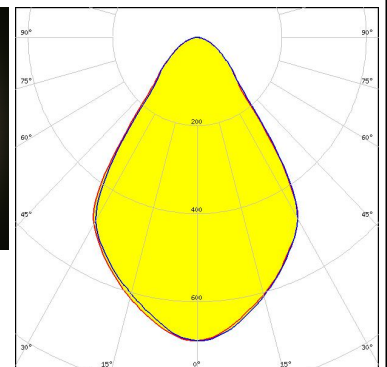
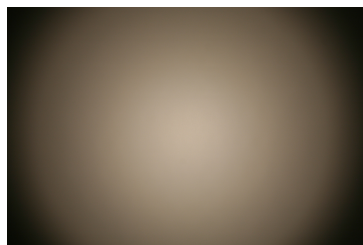
Light distribution files



LED COB L-Type (LES 11)  
FWHM / FWTM 72.0° / 115.0°  
Efficiency 93 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C14037\_PF-NSX-SOCKET

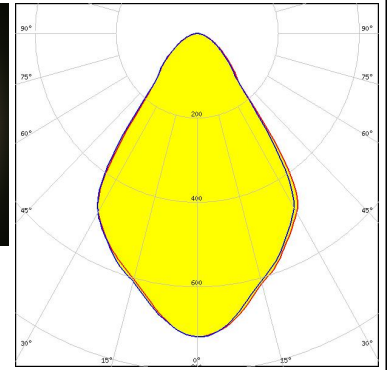


Light distribution files

#### OPTICAL RESULTS (MEASURED):



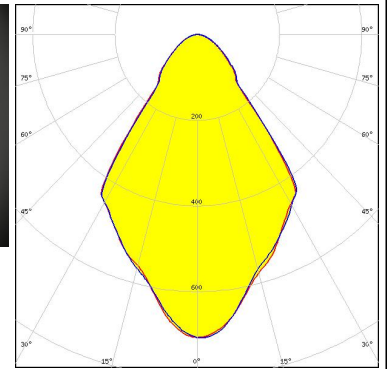
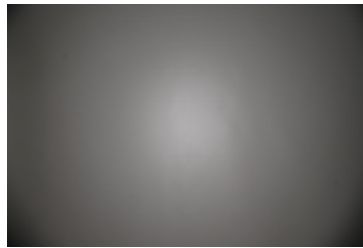
LED COB L-Type (LES 9)  
FWHM / FWTM 72.0° / 112.0°  
Efficiency 93 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14037\_PF-NSX-SOCKET



Light distribution files



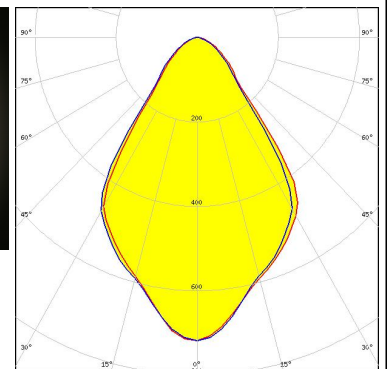
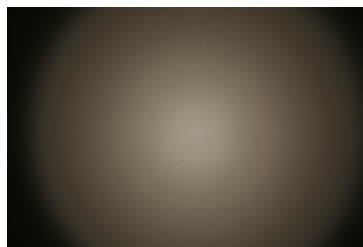
LED COB L-Type (LES 9)  
FWHM / FWTM 70.0° / 112.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 438 Typ L1



Light distribution files



LED NSCxL036A  
FWHM / FWTM 71.0° / 112.0°  
Efficiency 91 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14037\_PF-NSX-SOCKET



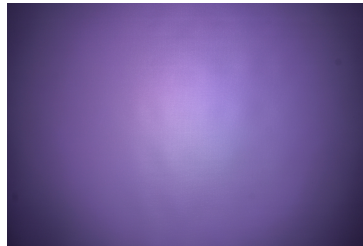
Light distribution files



#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

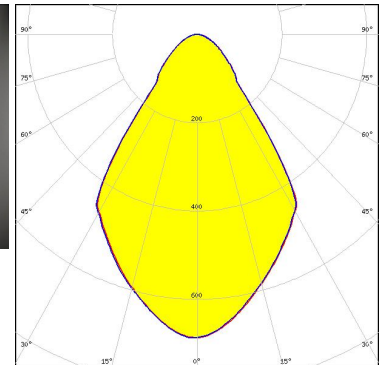
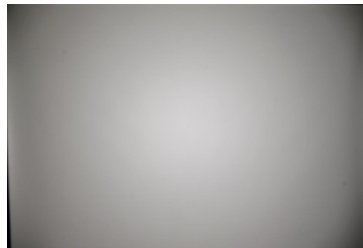
LED OSTAR Stage (S2WP)  
FWHM / FWTM 74.0° / 120.0°  
Efficiency 83 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13083\_PF-SOCKET  
C14658\_BARBARA-RZ-LENS



Light distribution files

**OSRAM**  
Opto Semiconductors

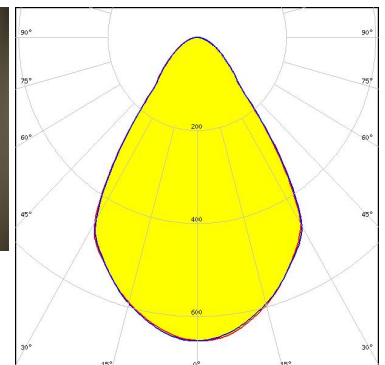
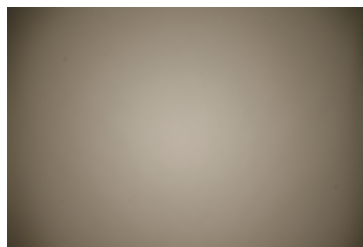
LED Soleriq S13  
FWHM / FWTM 70.0° / 113.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 437 Typ L1



Light distribution files

**SAMSUNG**

LED LC026B / 033B / 040B  
FWHM / FWTM 70.0° / 113.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 450 Typ L2



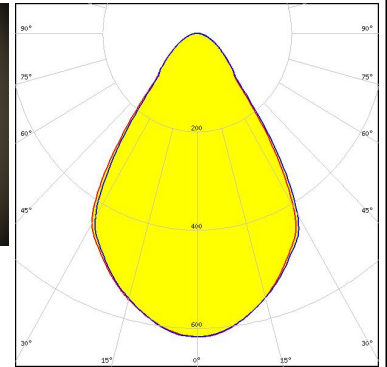
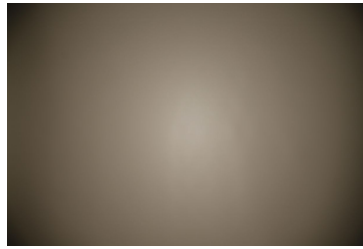
Light distribution files



#### OPTICAL RESULTS (MEASURED):

### XICATO

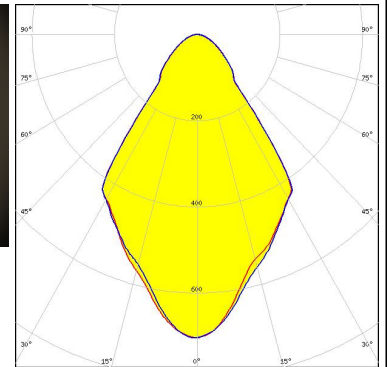
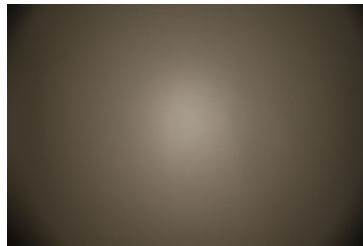
LED XTM - 19mm LES  
FWHM / FWTM 70.0° / 112.0°  
Efficiency 83 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14636\_XTM-PF-ADAPTER



Light distribution files

### XICATO

LED XTM - 9mm LES  
FWHM / FWTM 70.0° / 111.0°  
Efficiency 86 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14636\_XTM-PF-ADAPTER



Light distribution files

#### OPTICAL RESULTS (SIMULATED):

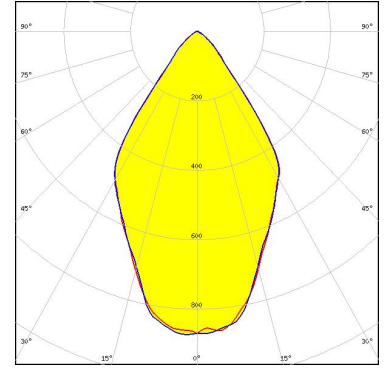


LED V10 Gen7  
FWHM / FWTM 66.0° / 93.0°  
Efficiency 88 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 486 Typ L1



[Light distribution files](#)



LED LUXEON CoB Compact  
FWHM / FWTM 75.0° / 120.0°  
Efficiency 92 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13761\_PF-SOCKET-CXA15

[Light distribution files](#)



LED CxM-14 (19x19)  
FWHM / FWTM 70.0° / 113.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

[Light distribution files](#)

#### OPTICAL RESULTS (SIMULATED):



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 70.0° / 111.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

[Light distribution files](#)

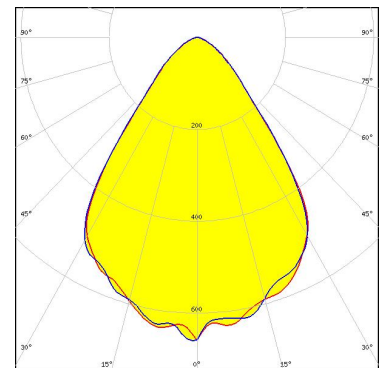


LED Soleriq S15  
FWHM / FWTM 74.0° / 112.0°  
Efficiency 95 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



[Light distribution files](#)

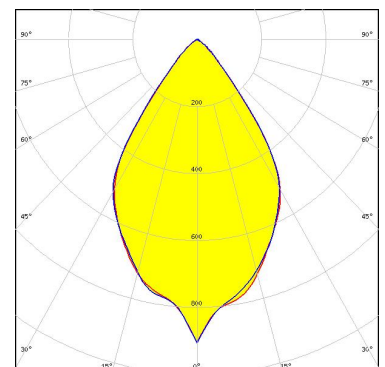


LED LC010C  
FWHM / FWTM 66.0° / 91.0°  
Efficiency 89 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



[Light distribution files](#)

#### OPTICAL RESULTS (SIMULATED):

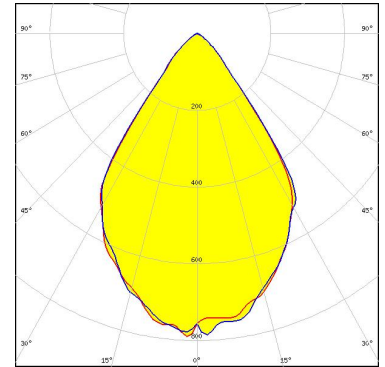
### SAMSUNG

LED LC020C  
FWHM / FWTM 70.0° / 95.0°  
Efficiency 88 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



Light distribution files

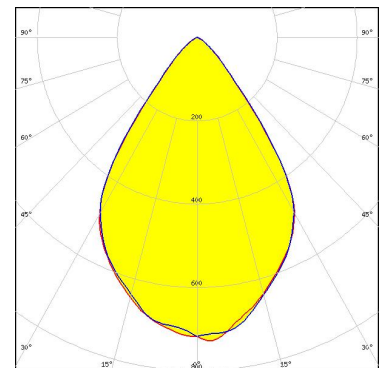
### SAMSUNG

LED LC040C  
FWHM / FWTM 70.0° / 96.0°  
Efficiency 84 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 480 Typ L1



Light distribution files




LED ZC12/18  
FWHM / FWTM 70.0° / 113.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

## OPTICAL RESULTS (SIMULATED):

 SEOL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	70.0° / 111.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components: C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 434 Typ L1	

#### 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.

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