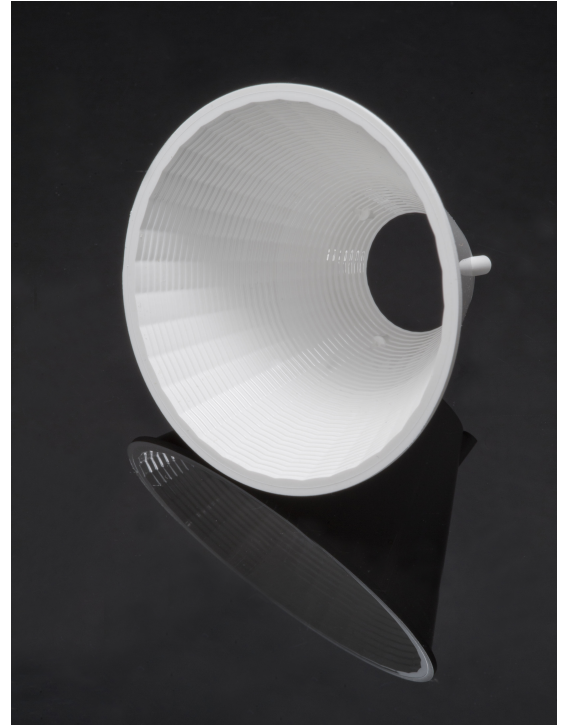


## BARBARA-XW-PF

White version with ~75° wide beam

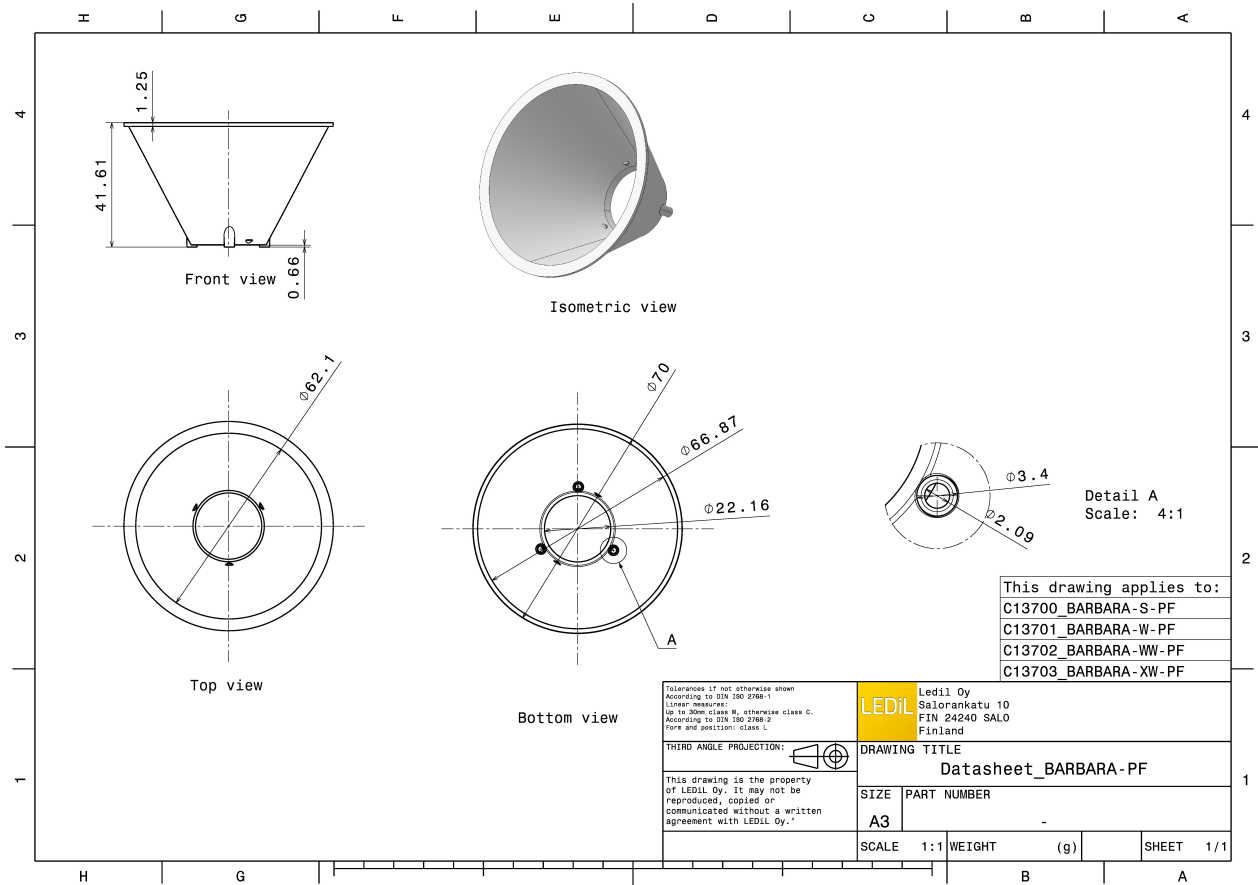
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.7 mm
Fastening	socket
Colour	white
Box size	480 x 280 x 300 mm
Box weight	8.4 kg
Quantity in Box	288 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

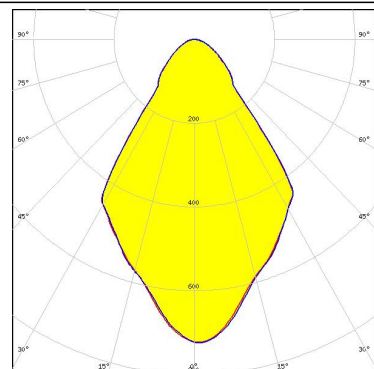
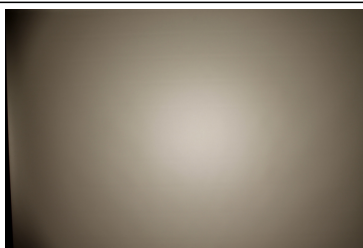
Component	Type	Material	Colour	Coating
BARBARA-XW-PF	Reflector	HRPC	white	



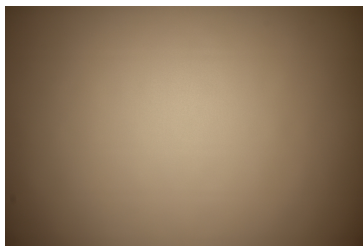
#### PHOTOMETRIC DATA (MEASURED):



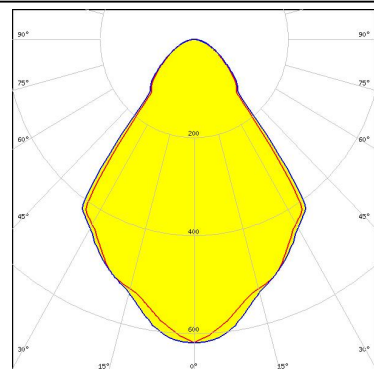
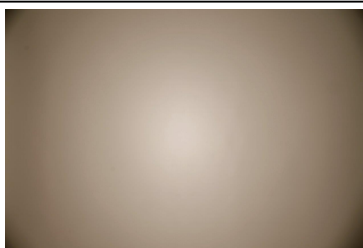
**LED** V10 Gen7  
**FWHM** 70.0°  
**Efficiency** 90 %  
**Peak intensity** 0.700 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



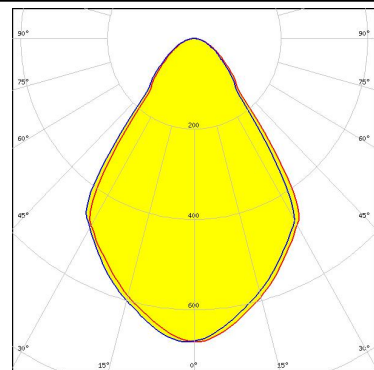
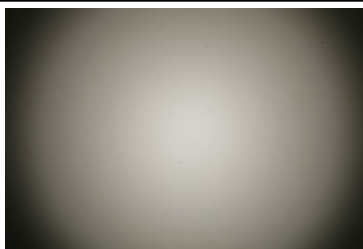
**LED** V15 Gen6  
**FWHM** 71.0°  
**Efficiency** 89 %  
**Peak intensity** 0.720 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 456 Typ L2



**LED** V8 Gen6  
**FWHM** 74.0°  
**Efficiency** 90 %  
**Peak intensity** 0.630 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C13761\_PF-SOCKET-CXA15



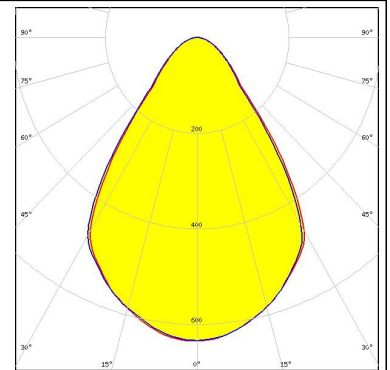
**LED** VERO13  
**FWHM** 72.0°  
**Efficiency** 93 %  
**Peak intensity** 0.670 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18



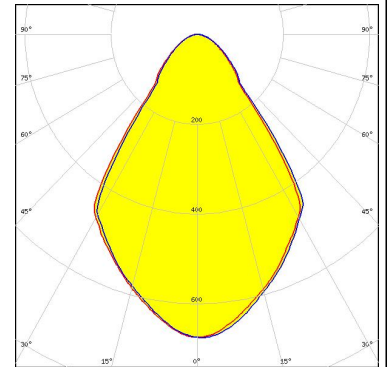
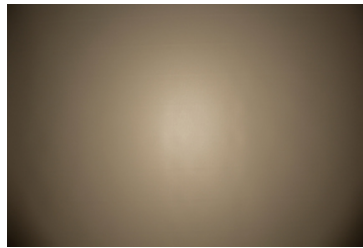
#### PHOTOMETRIC DATA (MEASURED):



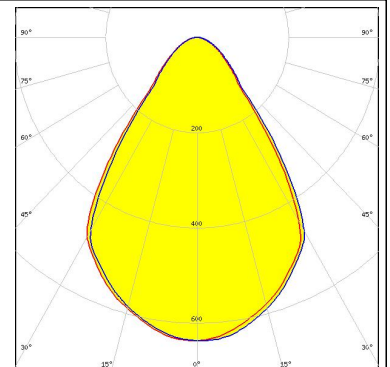
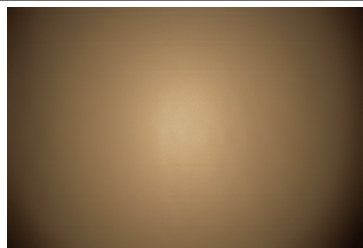
LED VERO18  
FWHM 72.0°  
Efficiency 93 %  
Peak intensity 0.630 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18



LED Xenio Point 13mm  
FWHM 71.0°  
Efficiency 92 %  
Peak intensity 0.680 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18

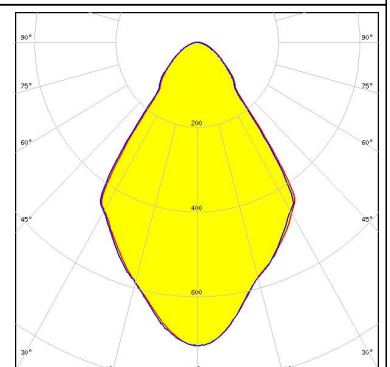
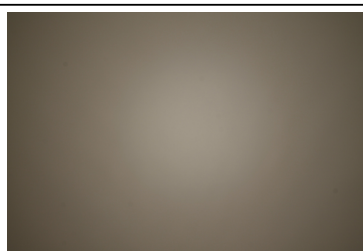


LED Xenio Point 18mm  
FWHM 72.0°  
Efficiency 91 %  
Peak intensity 0.640 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18



#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 70.0°  
Efficiency 90 %  
Peak intensity 0.720 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 434 Typ L1

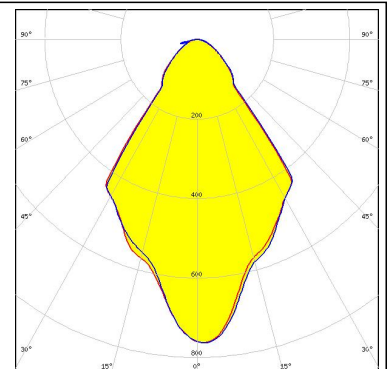
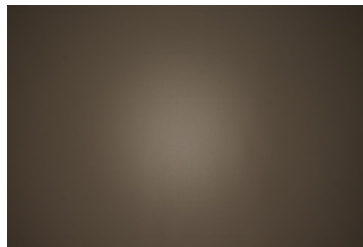




#### PHOTOMETRIC DATA (MEASURED):

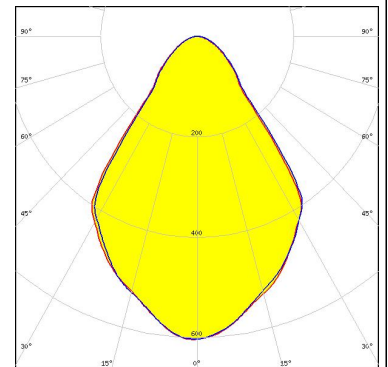
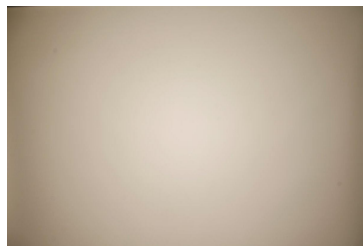
#### CITIZEN

LED CLU700/701  
 FWHM 70.0°  
 Efficiency 90 %  
 Peak intensity 0.770 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



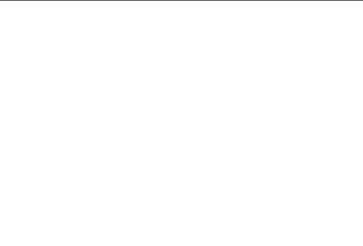
#### CREE

LED CXA/B 15xx  
 FWHM 73.0°  
 Efficiency 85 %  
 Peak intensity 0.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C14658\_BARBARA-RZ-LENS



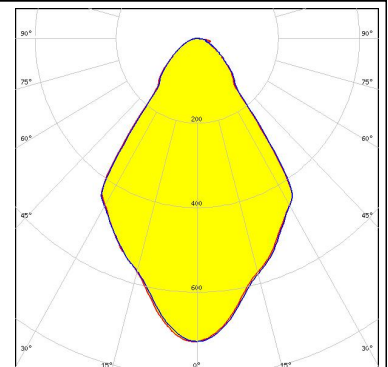
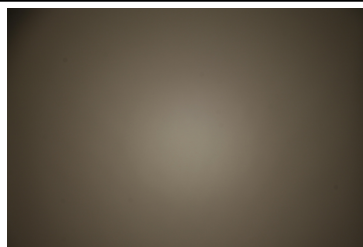
#### CREE

LED CXA/B 15xx  
 FWHM 70.0°  
 Efficiency 92 %  
 Peak intensity 0.760 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14115\_PF-SOCKET-CXA15-18



#### CREE

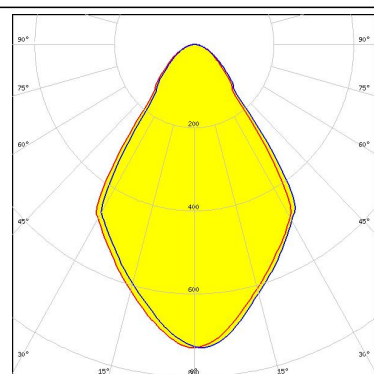
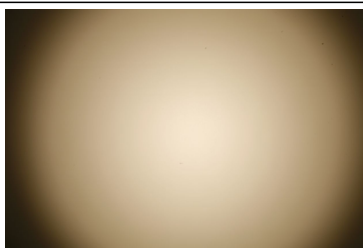
LED CXA/B 15xx  
 FWHM 70.0°  
 Efficiency 90 %  
 Peak intensity 0.720 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 441 Typ L1



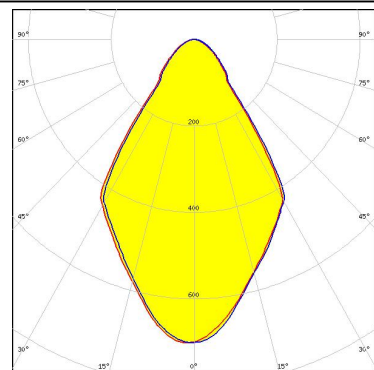
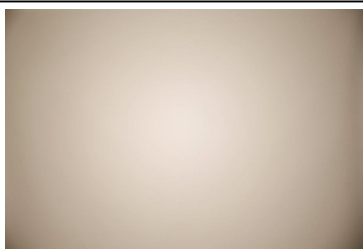
#### PHOTOMETRIC DATA (MEASURED):



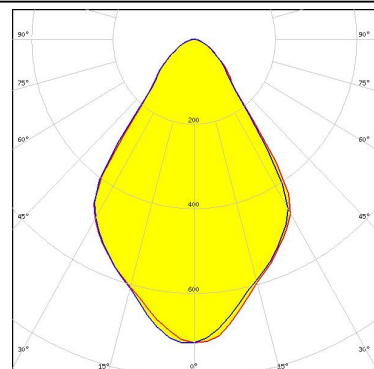
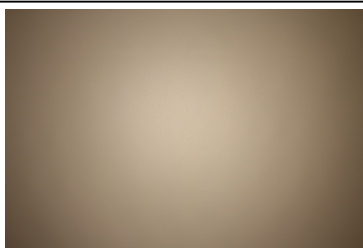
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 70.0°  
 Efficiency 93 %  
 Peak intensity 0.730 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14115\_PF-SOCKET-CXA15-18



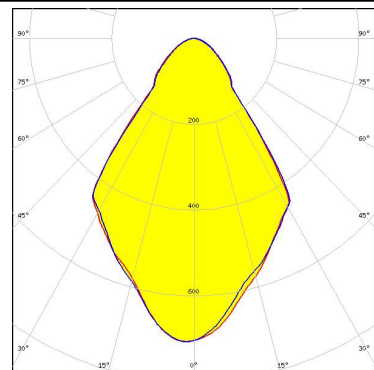
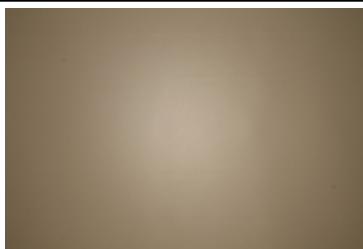
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 67.0°  
 Efficiency 82 %  
 Peak intensity 0.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 437 Typ L1



LED LUXEON CoB 1202/1203  
 FWHM 71.0°  
 Efficiency 92 %  
 Peak intensity 0.720 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14037\_PF-NSX-SOCKET



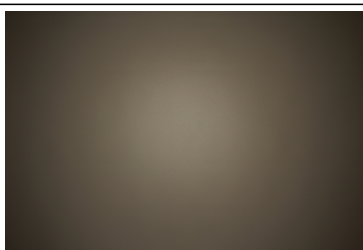
LED LUXEON CoB 1202/1203  
 FWHM 71.0°  
 Efficiency 90 %  
 Peak intensity 0.710 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 438 Typ L1



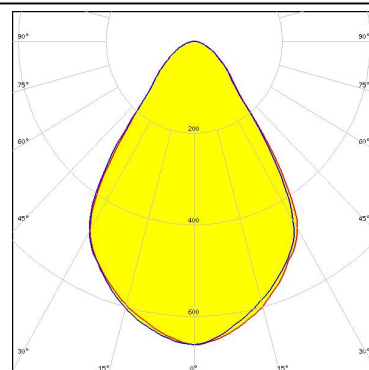
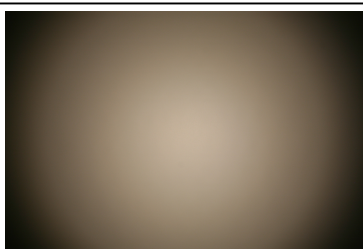
#### PHOTOMETRIC DATA (MEASURED):



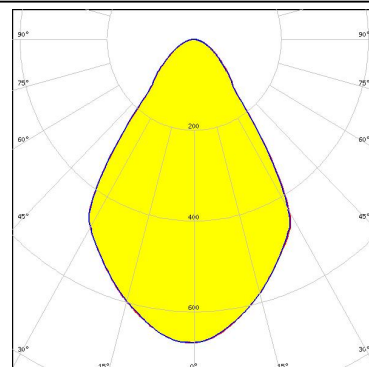
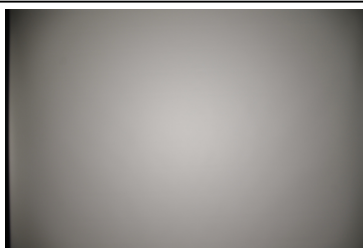
LED LUXEON CoB 1202s  
 FWHM 75.0°  
 Efficiency 92 %  
 Peak intensity 0.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



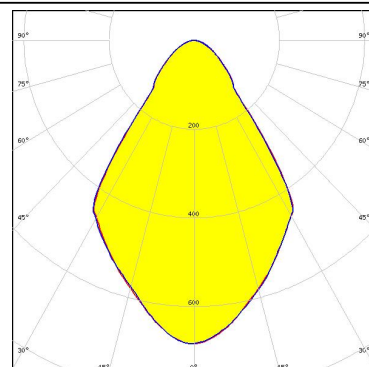
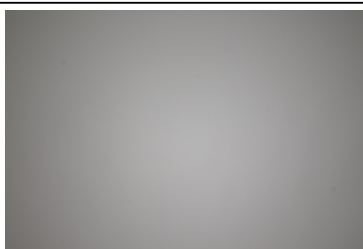
LED COB J-Type  
 FWHM 72.0°  
 Efficiency 93 %  
 Peak intensity 0.660 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14037\_PF-NSX-SOCKET



LED COB J-Type  
 FWHM 70.0°  
 Efficiency 89 %  
 Peak intensity 0.670 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 463 Typ L2



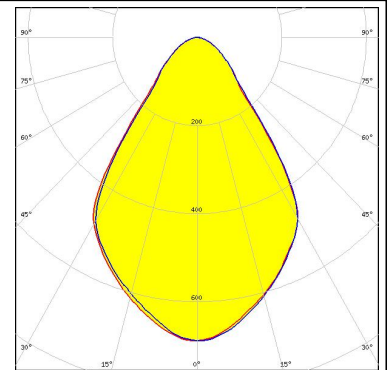
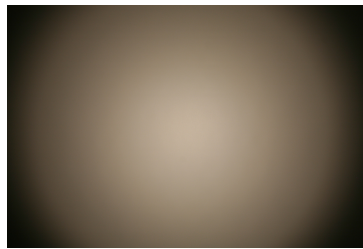
LED COB L-Type (LES 11)  
 FWHM 70.0°  
 Efficiency 90 %  
 Peak intensity 0.680 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 438 Typ L1



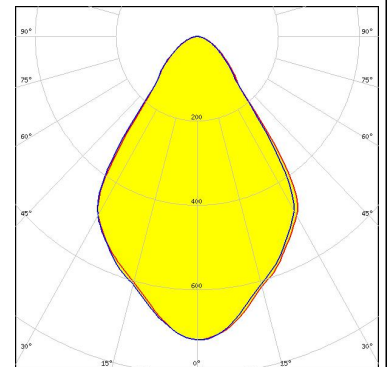
#### PHOTOMETRIC DATA (MEASURED):



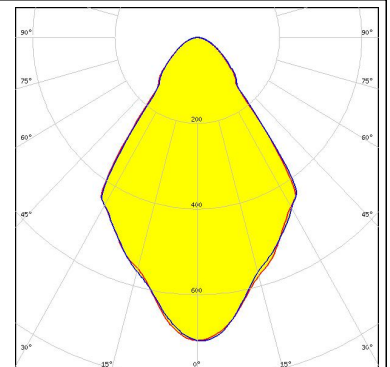
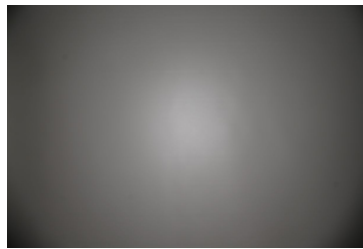
LED COB L-Type (LES 11)  
 FWHM 72.0°  
 Efficiency 93 %  
 Peak intensity 0.680 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14037\_PF-NSX-SOCKET



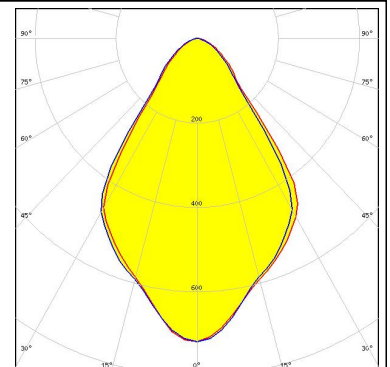
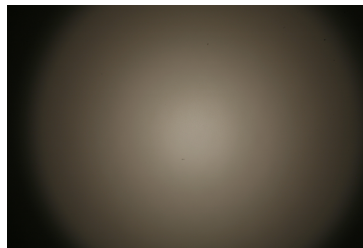
LED COB L-Type (LES 9)  
 FWHM 72.0°  
 Efficiency 93 %  
 Peak intensity 0.720 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14037\_PF-NSX-SOCKET



LED COB L-Type (LES 9)  
 FWHM 70.0°  
 Efficiency 90 %  
 Peak intensity 0.710 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 438 Typ L1



LED NSCxL036A  
 FWHM 71.0°  
 Efficiency 91 %  
 Peak intensity 0.690 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14037\_PF-NSX-SOCKET



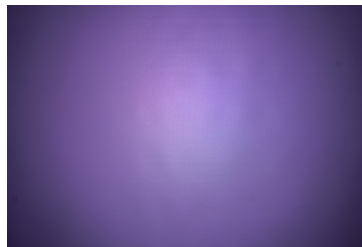


#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

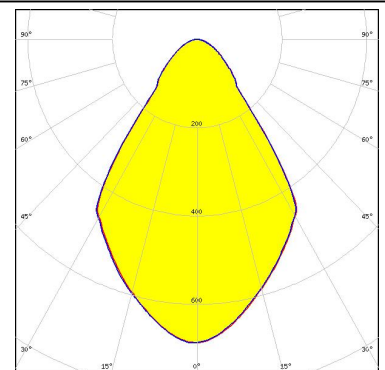
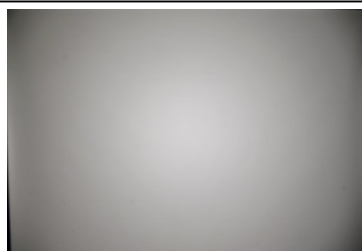
LED OSTAR Stage (S2WP)  
FWHM 74.0°  
Efficiency 83 %  
Peak intensity 0.630 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13083\_PF-SOCKET  
C14658\_BARBARA-RZ-LENS



#### OSRAM

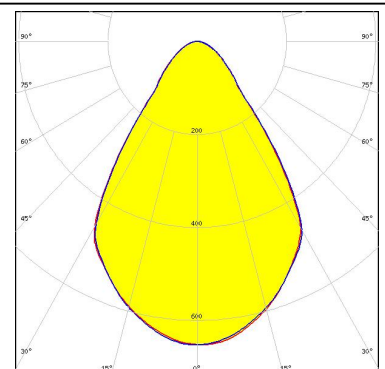
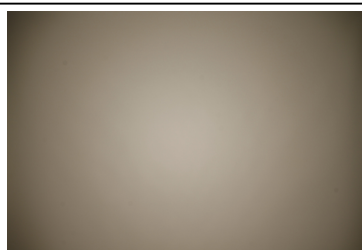
Opto Semiconductors

LED Soleriq S13  
FWHM 70.0°  
Efficiency 90 %  
Peak intensity 0.690 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 437 Typ L1



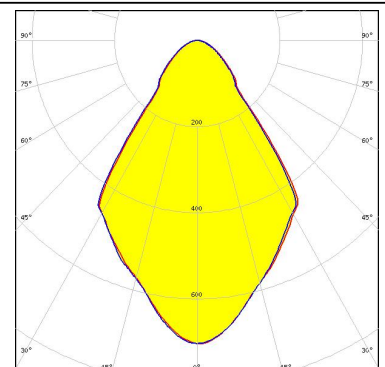
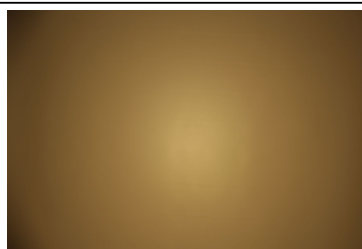
#### SAMSUNG

LED LC026B / 033B / 040B  
FWHM 70.0°  
Efficiency 90 %  
Peak intensity 0.560 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 450 Typ L2



#### TRIDONIC

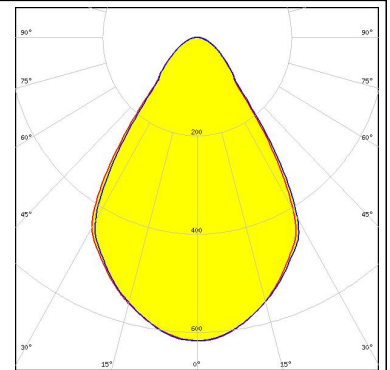
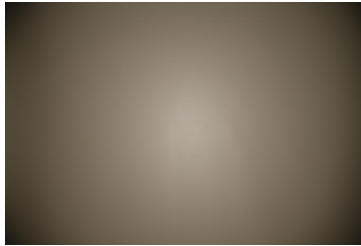
LED SLE G5 LES11  
FWHM 70.0°  
Efficiency 90 %  
Peak intensity 0.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 434 Typ L1



### PHOTOMETRIC DATA (MEASURED):

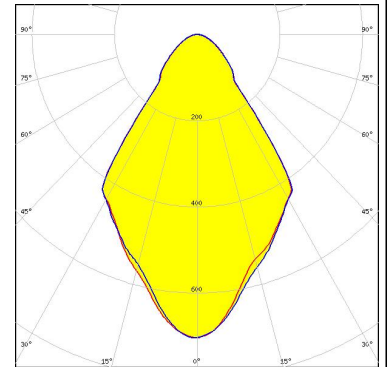
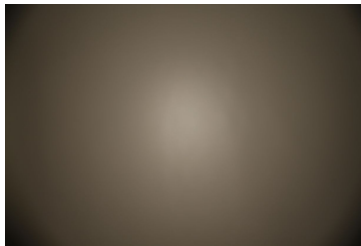
#### XICATO

LED XTM - 19mm LES  
FWHM 70.0°  
Efficiency 83 %  
Peak intensity 0.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14636\_XTM-PF-ADAPTER



#### XICATO

LED XTM - 9mm LES  
FWHM 70.0°  
Efficiency 86 %  
Peak intensity 0.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14636\_XTM-PF-ADAPTER

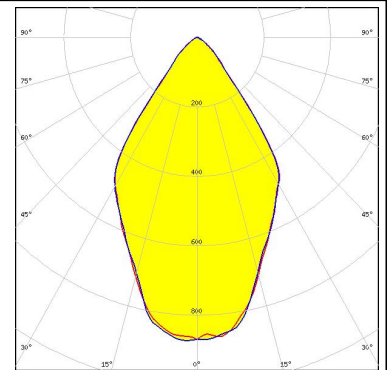




#### PHOTOMETRIC DATA (SIMULATED):



LED V10 Gen7  
FWHM 66.0°  
Efficiency 88 %  
Peak intensity 0.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 486 Typ L1



LED LUXEON CoB Compact  
FWHM 75.0°  
Efficiency 92 %  
Peak intensity 0.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13761\_PF-SOCKET-CXA15



LED CXM-14  
FWHM 70.0°  
Efficiency 90 %  
Peak intensity 0.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 433 Typ L1



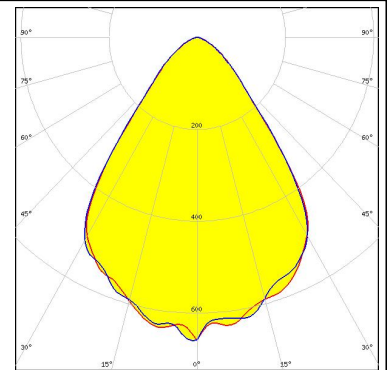
LED CXM-9  
FWHM 70.0°  
Efficiency 90 %  
Peak intensity 0.720 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 434 Typ L1

#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

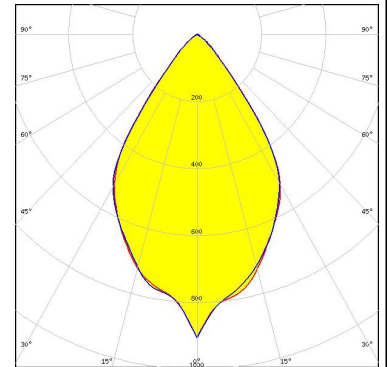
Opto Semiconductors

LED Soleriq S15  
FWHM 74.0°  
Efficiency 95 %  
Peak intensity 0.680 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 433 Typ L1



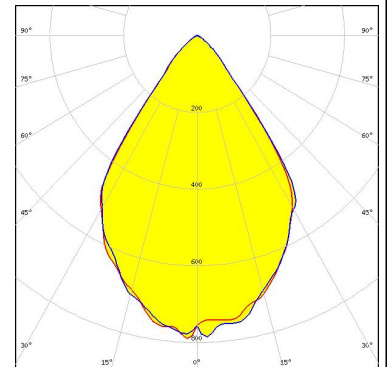
##### SAMSUNG

LED LC010C  
FWHM 66.0°  
Efficiency 89 %  
Peak intensity 0.910 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 479 Typ L1



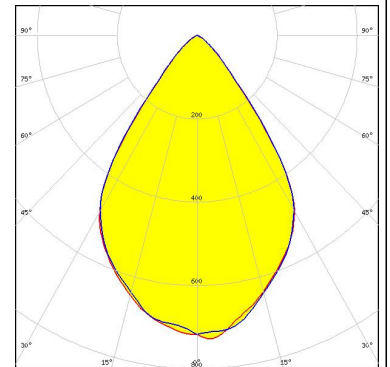
##### SAMSUNG

LED LC020C  
FWHM 70.0°  
Efficiency 88 %  
Peak intensity 0.810 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 479 Typ L1



##### SAMSUNG

LED LC040C  
FWHM 70.0°  
Efficiency 84 %  
Peak intensity 0.730 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 480 Typ L1



### PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM	70.0°
Efficiency	90 %
Peak intensity	0.680 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 433 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	70.0°
Efficiency	90 %
Peak intensity	0.720 cd/lm
LEDs/each optic	1
Light colour	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.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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