

## MIRELLA-XW-PF

~80° wide beam

### SPECIFICATION:

Dimensions	Ø 50.0
Height	23.9 mm
Fastening	socket
ROHS compliant	yes ⓘ

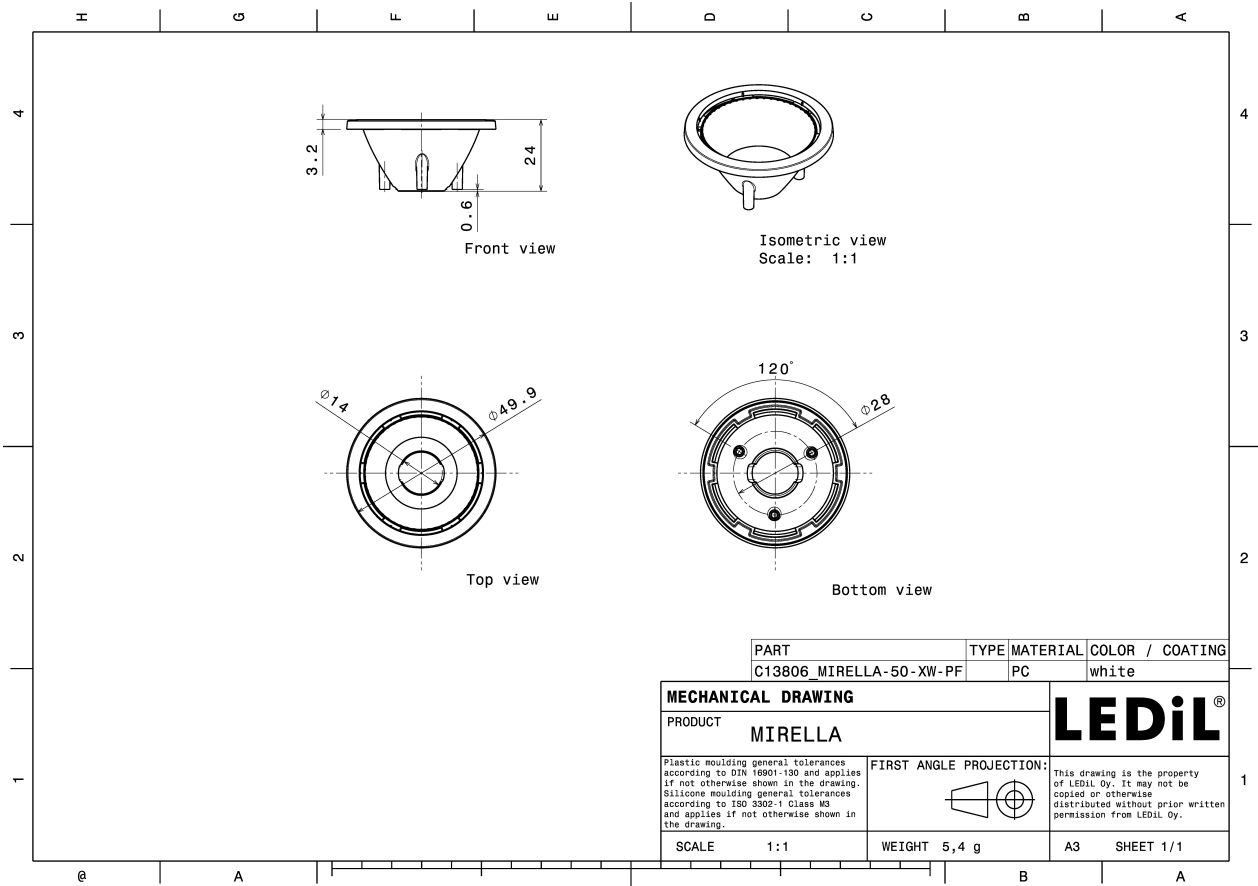
### MATERIALS:

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



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13806_MIRELLA-XW-PF » Box size: 480 x 280 x 300 mm	336	112	28	3.3



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

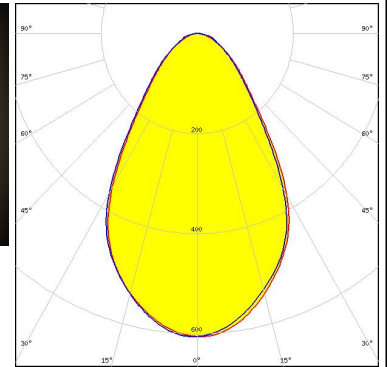
#### OPTICAL RESULTS (MEASURED):

bridgelux

LED V10 Gen7  
 FWHM / FWTM 66.0° / 120.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL



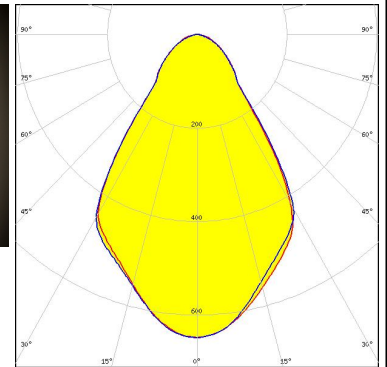
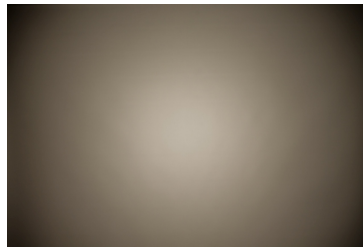
Light distribution files

bridgelux

LED V10 Gen7  
 FWHM / FWTM 68.0° / 118.0°  
 Efficiency 87 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 486 Typ L1



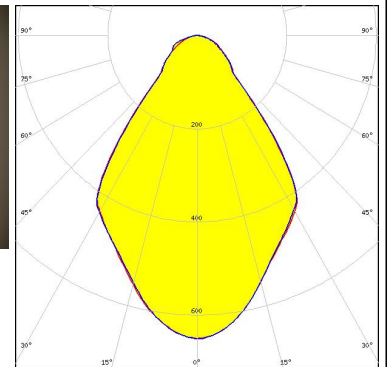
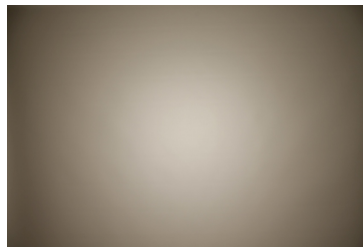
Light distribution files

bridgelux

LED V10 Gen7  
 FWHM / FWTM 73.0° / 118.0°  
 Efficiency 91 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 486 Typ L1

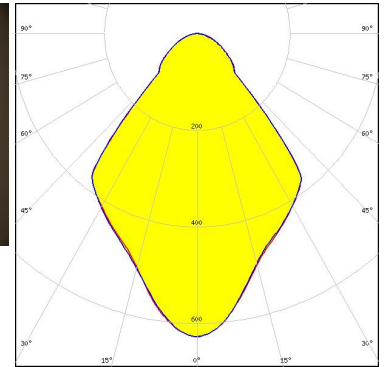
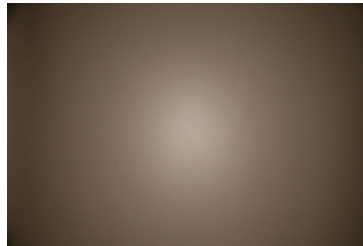


Light distribution files

#### OPTICAL RESULTS (MEASURED):



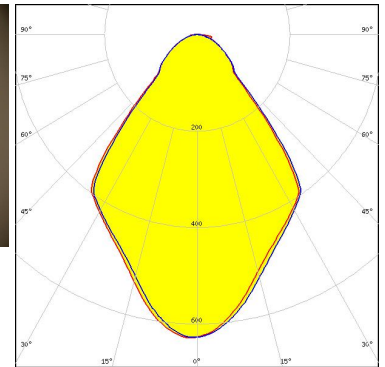
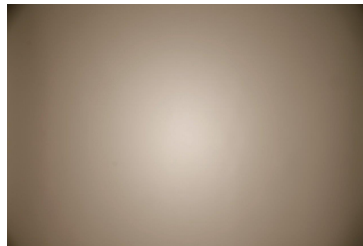
LED V6 Gen6  
 FWHM / FWTM 79.0° / 122.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



Light distribution files



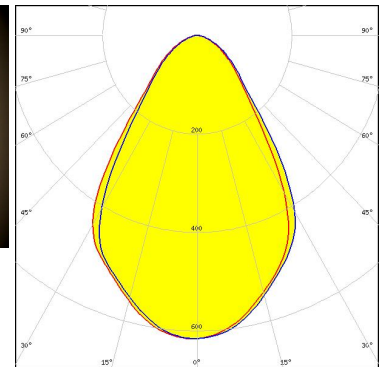
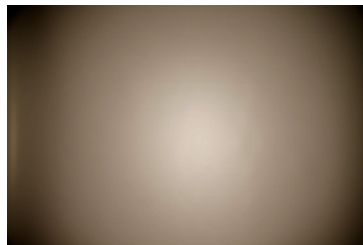
LED V8 Gen6  
 FWHM / FWTM 77.0° / 121.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



Light distribution files



LED VERO10  
 FWHM / FWTM 69.0° / 120.0°  
 Efficiency 87 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13708\_PF-SOCKET-VERO10  
 C12479\_MIRELLA-DL



Light distribution files

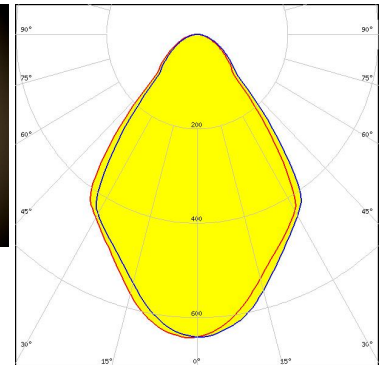
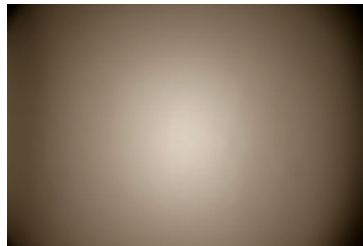
#### OPTICAL RESULTS (MEASURED):



LED VERO10  
FWHM / FWTM 69.0° / 120.0°  
Efficiency 87 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13708\_PF-SOCKET-VERO10  
C13333\_MIRELLA-CL



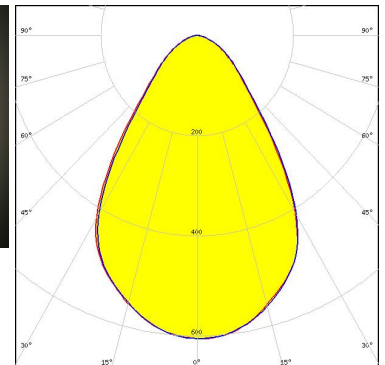
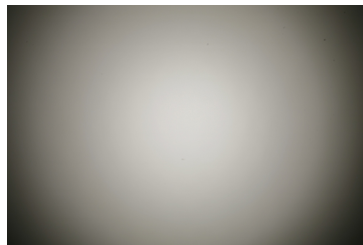
LED VERO10  
FWHM / FWTM 74.0° / 119.0°  
Efficiency 92 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13708\_PF-SOCKET-VERO10



Light distribution files



LED VERO13  
FWHM / FWTM 70.0° / 121.0°  
Efficiency 87 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL

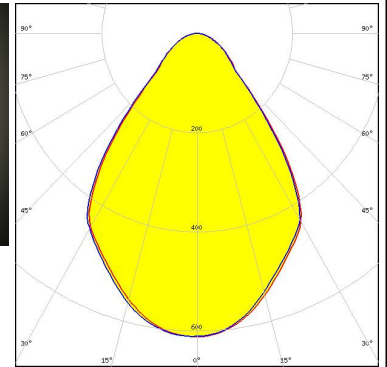
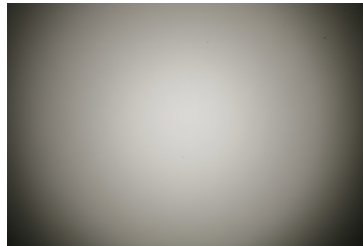


Light distribution files

#### OPTICAL RESULTS (MEASURED):



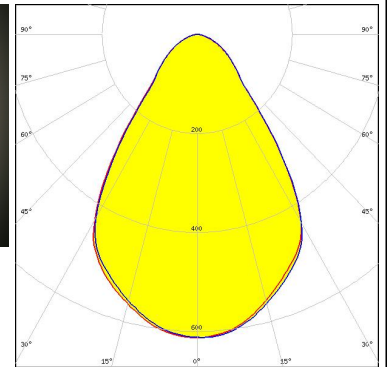
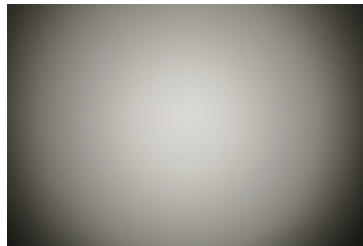
**LED** VERO13  
**FWHM / FWTM** 75.0° / 121.0°  
**Efficiency** 92 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18



Light distribution files



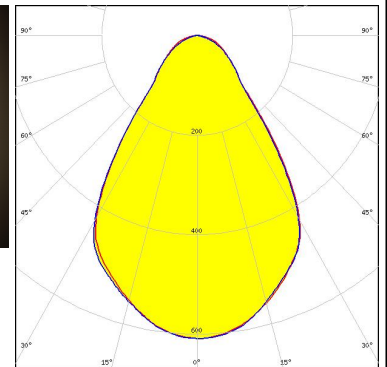
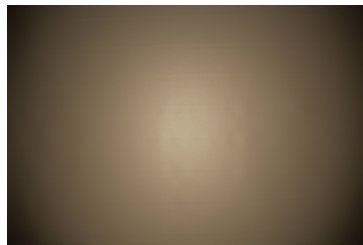
**LED** VERO13  
**FWHM / FWTM** 71.0° / 121.0°  
**Efficiency** 87 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL



Light distribution files

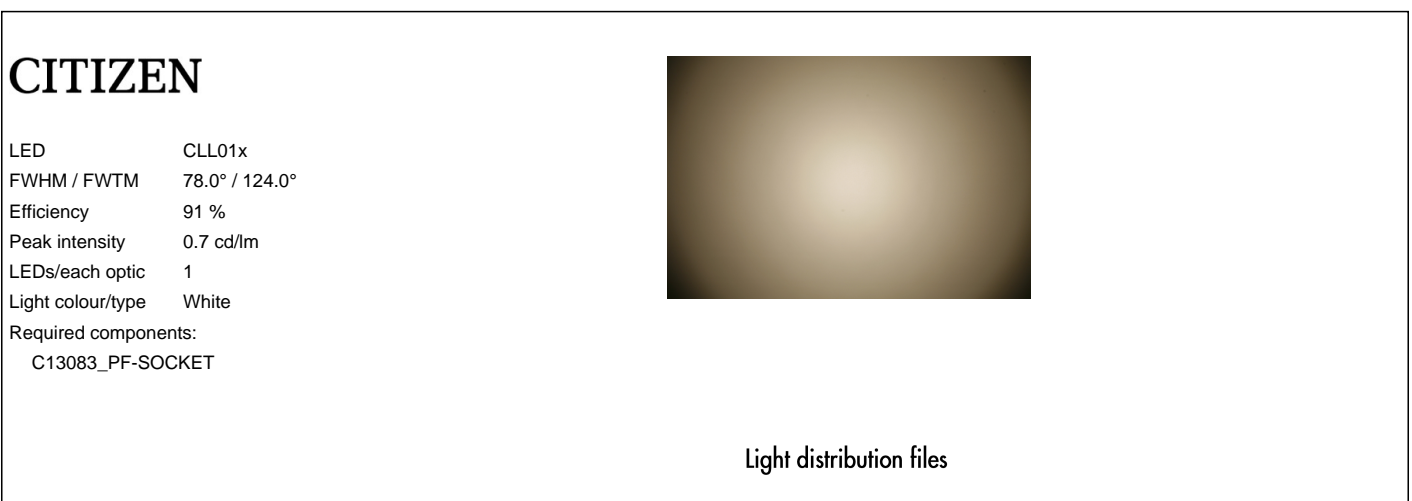
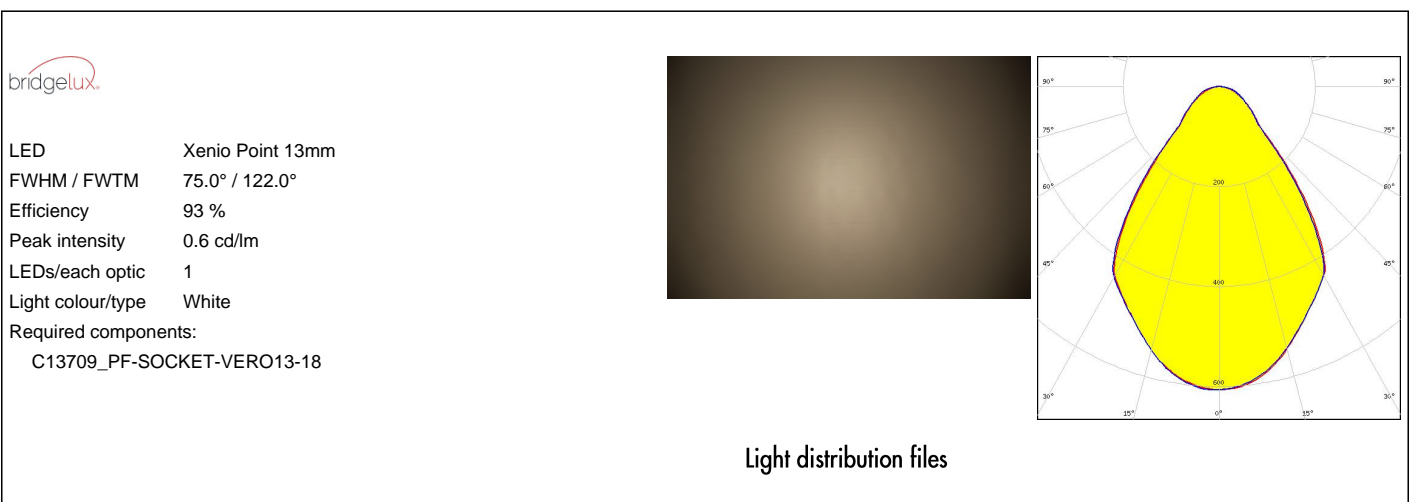
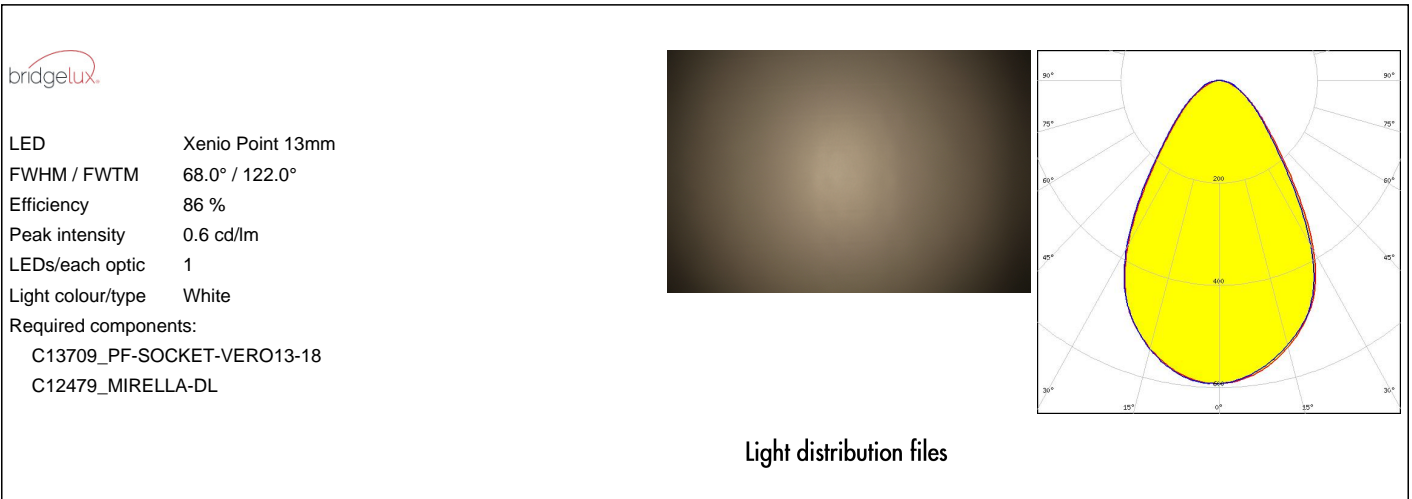


**LED** Xenio Point 13mm  
**FWHM / FWTM** 71.0° / 123.0°  
**Efficiency** 89 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL



Light distribution files

#### OPTICAL RESULTS (MEASURED):



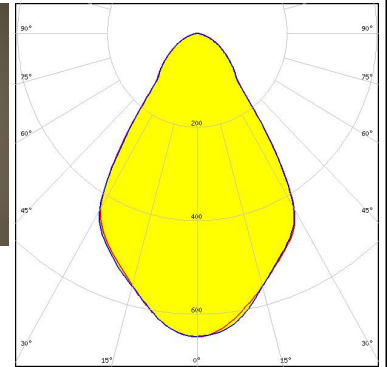
#### OPTICAL RESULTS (MEASURED):

### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 68.0° / 117.0°  
Efficiency 85 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 434 Typ L1



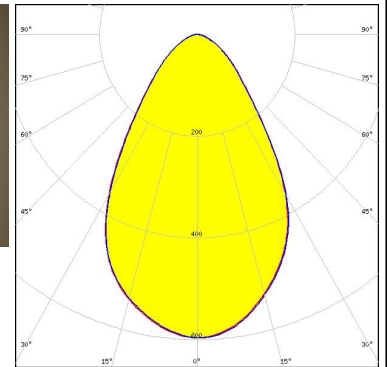
Light distribution files

### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 67.0° / 117.0°  
Efficiency 80 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL  
Bender Wirth: 434 Typ L1



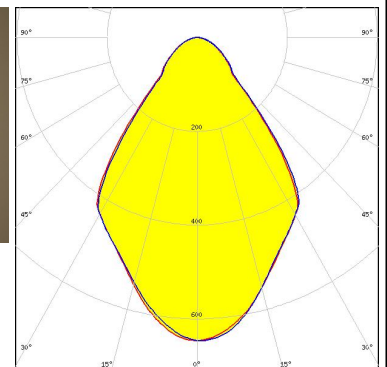
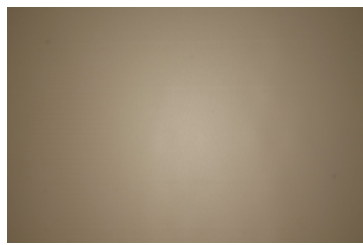
Light distribution files

### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 73.0° / 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: 434 Typ L1



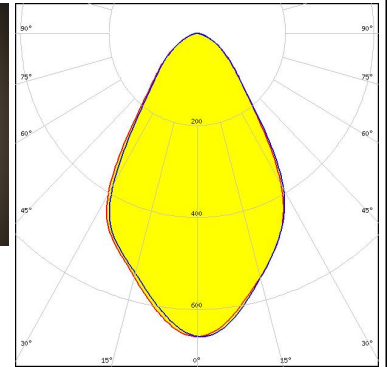
Light distribution files



#### OPTICAL RESULTS (MEASURED):

### CITIZEN

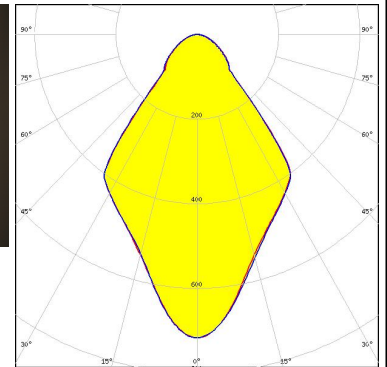
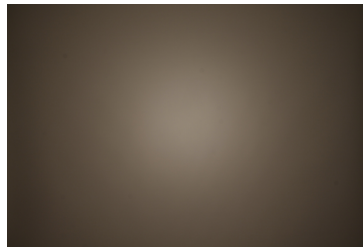
LED CLU700/701/702/703  
 FWHM / FWTM 65.0° / 115.0°  
 Efficiency 83 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 434 Typ L1



Light distribution files

### CITIZEN

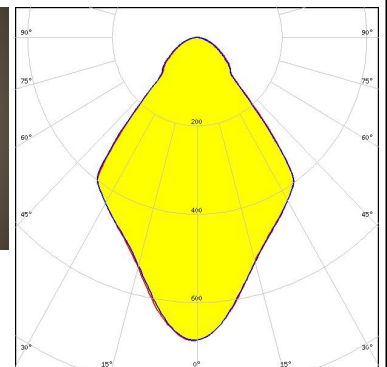
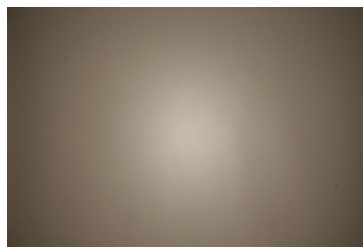
LED CLU700/701/702/703  
 FWHM / FWTM 73.0° / 113.0°  
 Efficiency 89 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



Light distribution files

### CITIZEN

LED CLU700/701/702/703  
 FWHM / FWTM 76.0° / 117.0°  
 Efficiency 92 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13083\_PF-SOCKET

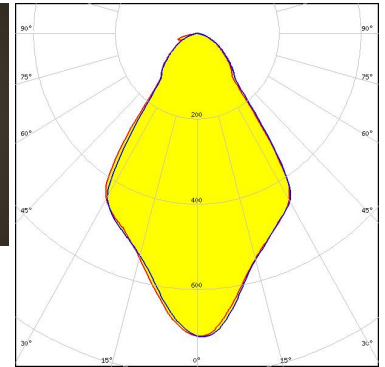
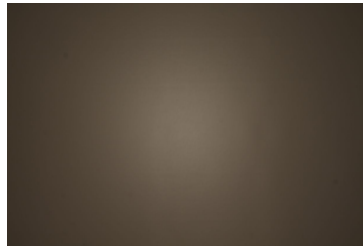


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### CITIZEN

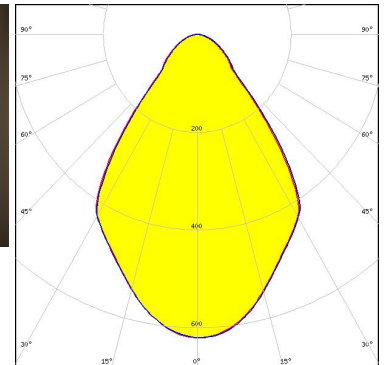
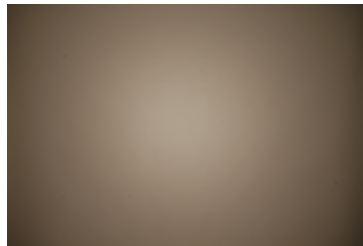
LED CLU700/701/702/703  
FWHM / FWTM 68.0° / 114.0°  
Efficiency 86 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 434 Typ L1



Light distribution files

### CITIZEN

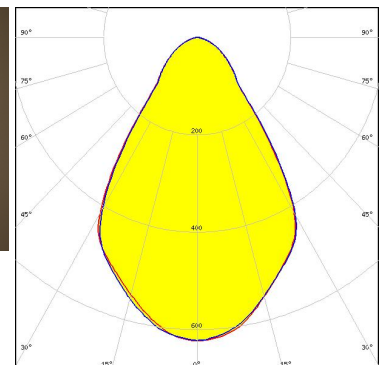
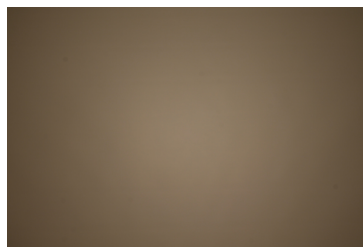
LED CLU720/721/723  
FWHM / FWTM 73.0° / 117.0°  
Efficiency 87 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 433 Typ L1



Light distribution files

### CITIZEN

LED CLU720/721/723  
FWHM / FWTM 68.0° / 117.0°  
Efficiency 83 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 433 Typ L1



Light distribution files

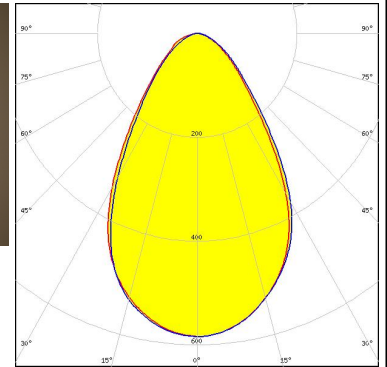
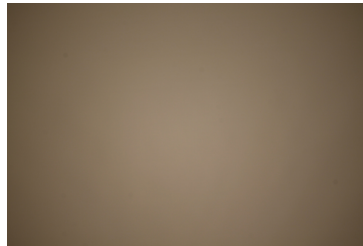
#### OPTICAL RESULTS (MEASURED):

### CITIZEN

LED CLU720/721/723  
 FWHM / FWTM 66.0° / 118.0°  
 Efficiency 79 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 433 Typ L1



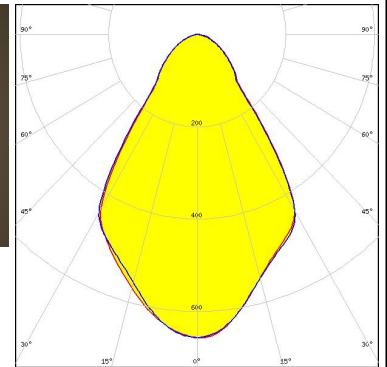
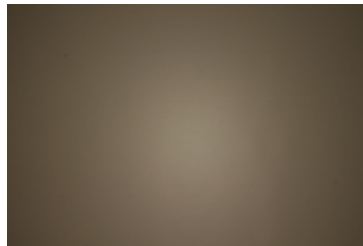
Light distribution files



LED CXA/B 15xx  
 FWHM / FWTM 68.0° / 117.0°  
 Efficiency 86 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 441 Typ L1



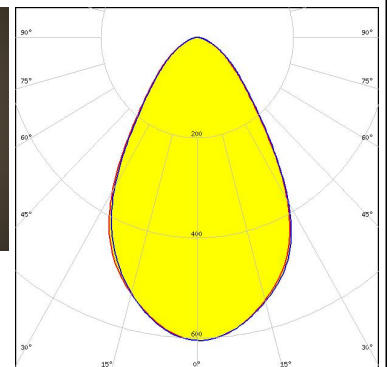
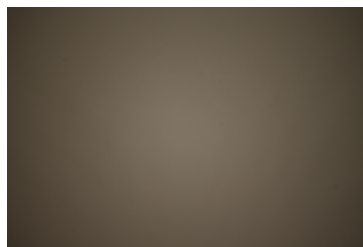
Light distribution files



LED CXA/B 15xx  
 FWHM / FWTM 66.0° / 117.0°  
 Efficiency 81 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 441 Typ L1

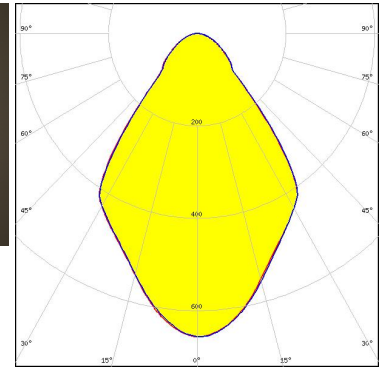
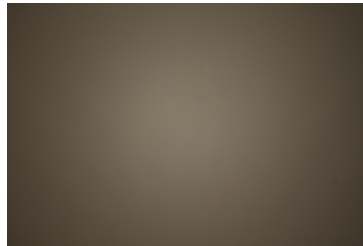


Light distribution files

#### OPTICAL RESULTS (MEASURED):



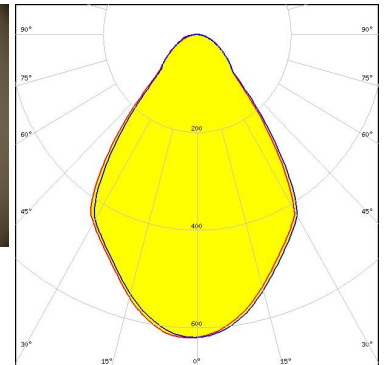
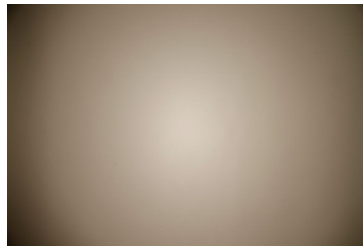
LED CXA/B 15xx  
 FWHM / FWTM 73.0° / 116.0°  
 Efficiency 89 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 441 Typ L1



Light distribution files



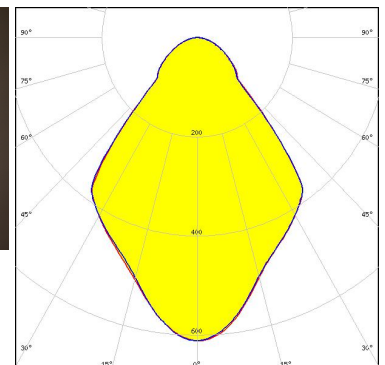
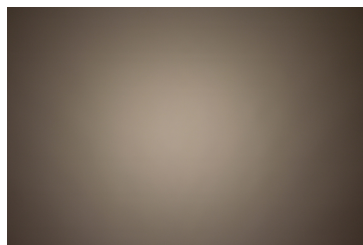
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 73.0° / 118.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2101CR + 50-2100MR



Light distribution files



LED MHD-E/G  
 FWHM / FWTM 78.0° / 126.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13083\_PF-SOCKET

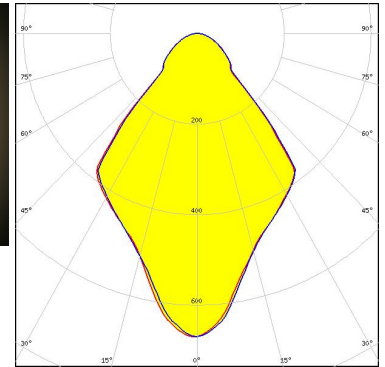
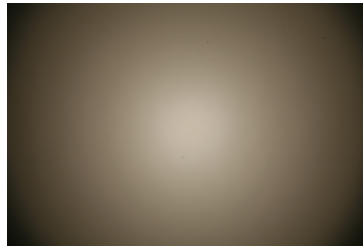


Light distribution files

#### OPTICAL RESULTS (MEASURED):



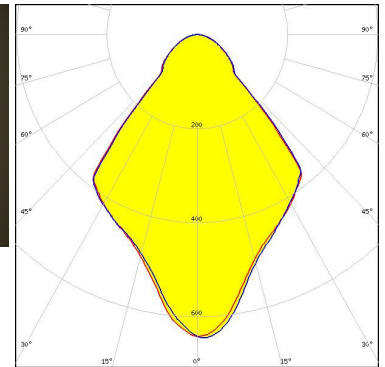
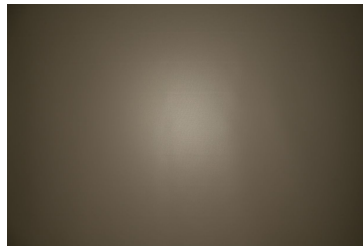
LED MK-R  
FWHM / FWTM 77.0° / 118.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13083\_PF-SOCKET



Light distribution files



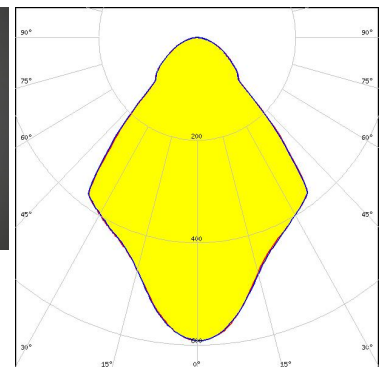
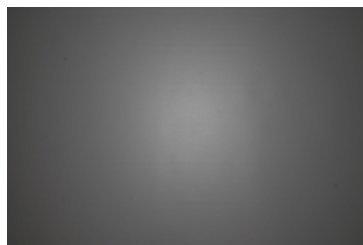
LED XHP50  
FWHM / FWTM 79.0° / 121.0°  
Efficiency 92 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13083\_PF-SOCKET



Light distribution files



LED XHP70  
FWHM / FWTM 79.0° / 126.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13083\_PF-SOCKET

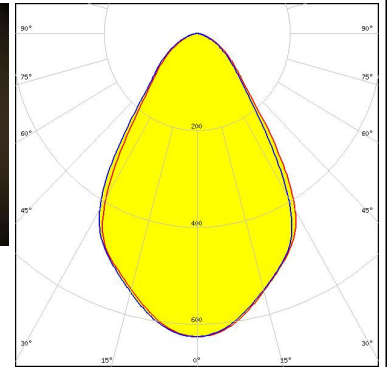
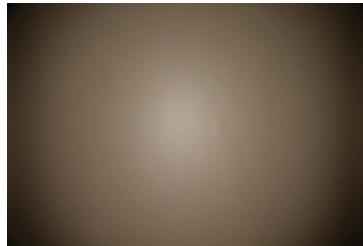


Light distribution files

#### OPTICAL RESULTS (MEASURED):



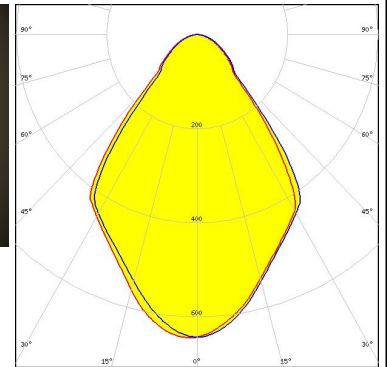
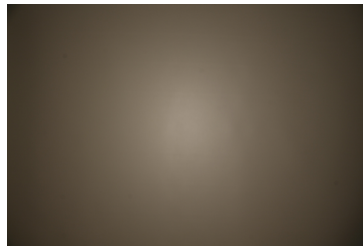
LED LUXEON CoB 1202/1203  
 FWHM / FWTM 68.0° / 119.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12479\_MIRELLA-DL  
 IDEAL: 50-2100NC +50-2100MR



Light distribution files



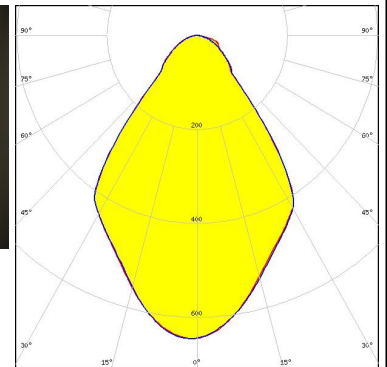
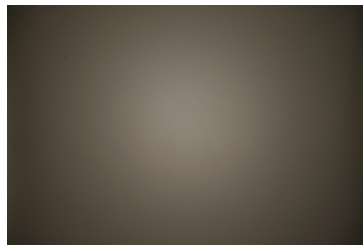
LED LUXEON CoB 1202/1203  
 FWHM / FWTM 75.0° / 119.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2100NC +50-2100MR



Light distribution files



LED LUXEON CoB 1202/1203  
 FWHM / FWTM 73.0° / 117.0°  
 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: 438 Typ L1

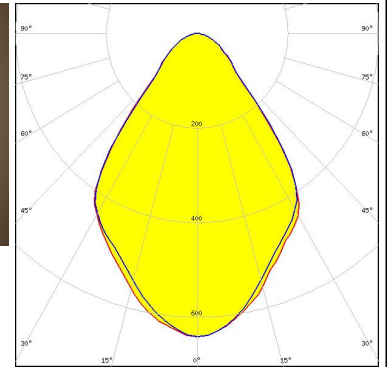
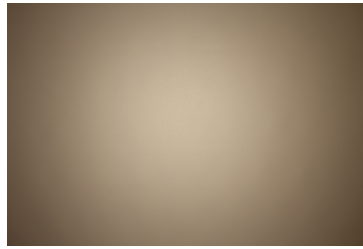


Light distribution files

#### OPTICAL RESULTS (MEASURED):



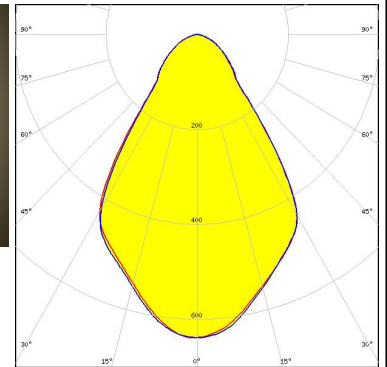
**LED** LUXEON CoB 1202/1203  
**FWHM / FWTM** 76.0° / 119.0°  
**Efficiency** 92 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14037\_PF-NSX-SOCKET



Light distribution files



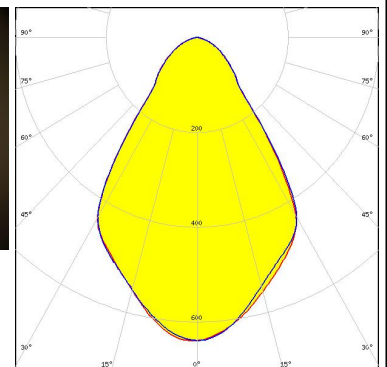
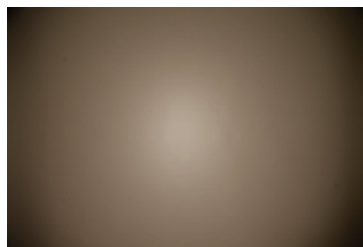
**LED** LUXEON CoB 1202/1203  
**FWHM / FWTM** 69.0° / 117.0°  
**Efficiency** 84 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 438 Typ L1



Light distribution files



**LED** LUXEON CoB 1202/1203  
**FWHM / FWTM** 69.0° / 119.0°  
**Efficiency** 87 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13333\_MIRELLA-CL  
 IDEAL: 50-2100NC +50-2100MR



Light distribution files

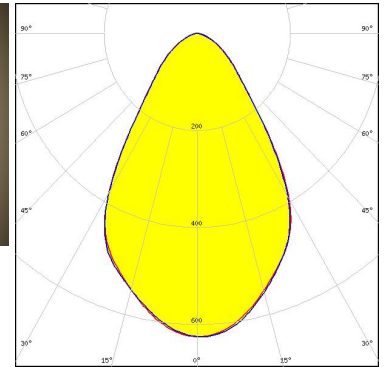
#### OPTICAL RESULTS (MEASURED):



LED LUXEON CoB 1202/1203  
 FWHM / FWTM 67.0° / 116.0°  
 Efficiency 83 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 438 Typ L1



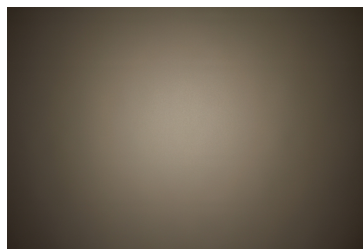
Light distribution files



LED LUXEON CoB 1202s  
 FWHM / FWTM 78.0° / 124.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13761\_PF-SOCKET-CXA15



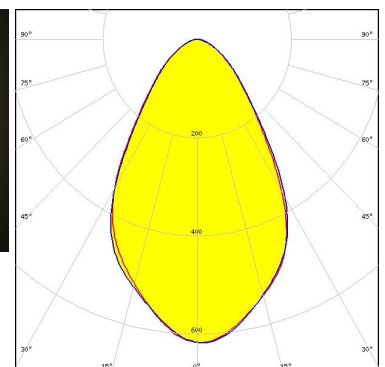
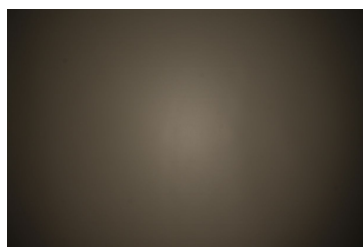
Light distribution files



LED LUXEON CoB 1202s  
 FWHM / FWTM 65.0° / 117.0°  
 Efficiency 82 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 452 Typ L1



Light distribution files



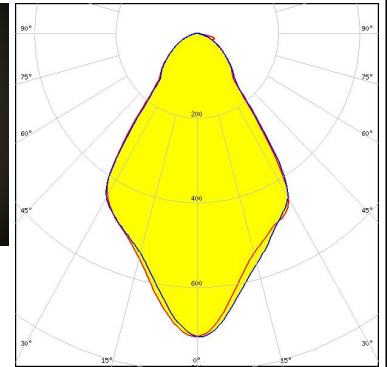
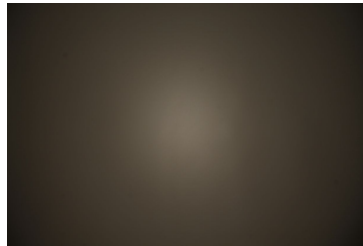
#### OPTICAL RESULTS (MEASURED):



LED LUXEON CoB 1202s  
 FWHM / FWTM 67.0° / 114.0°  
 Efficiency 86 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 452 Typ L1



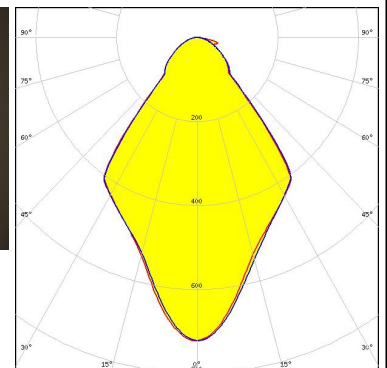
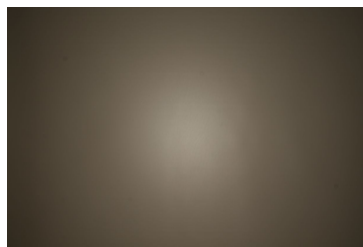
Light distribution files



LED LUXEON CoB 1202s  
 FWHM / FWTM 73.0° / 114.0°  
 Efficiency 91 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 452 Typ L1



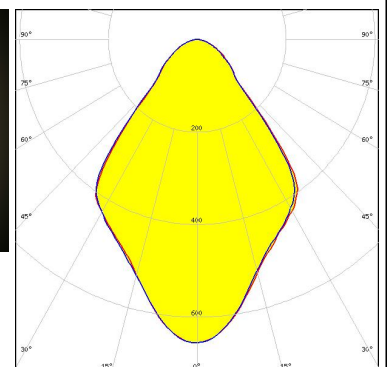
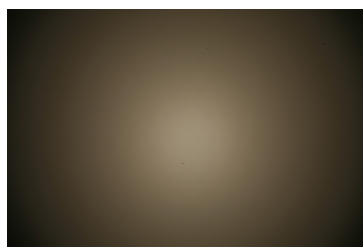
Light distribution files



LED CxM-6 (12x13)  
 FWHM / FWTM 77.0° / 120.0°  
 Efficiency 91 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13083\_PF-SOCKET

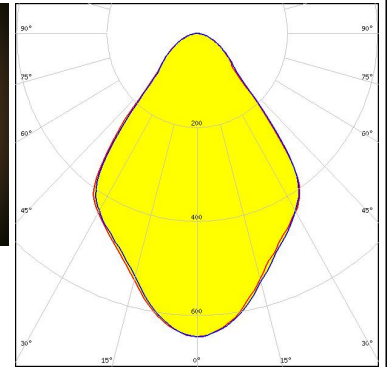
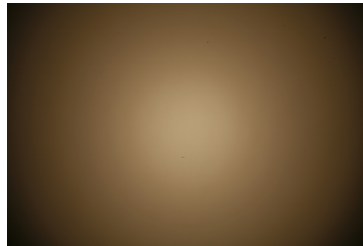


Light distribution files

#### OPTICAL RESULTS (MEASURED):



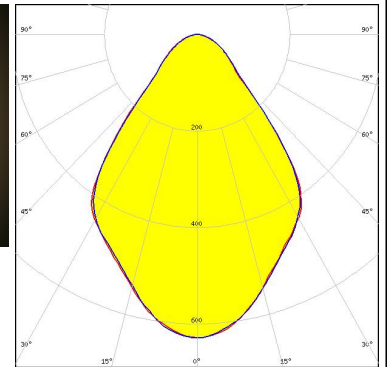
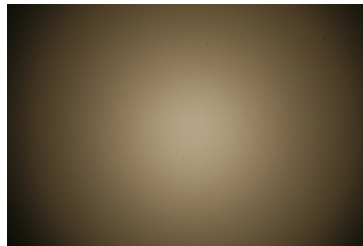
**LED** CXM-7 (13x13)  
**FWHM / FWTM** 77.0° / 120.0°  
**Efficiency** 92 %  
**Peak intensity** 0.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13083\_PF-SOCKET



Light distribution files



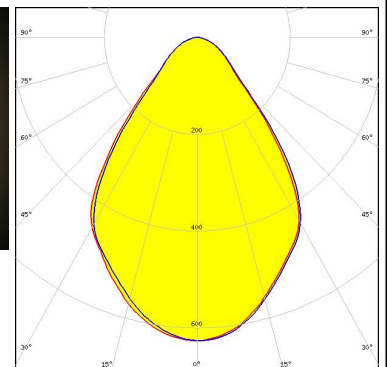
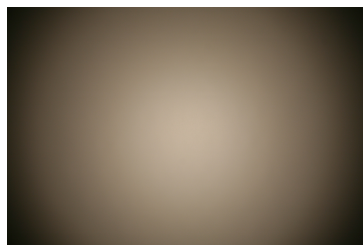
**LED** CxM-9 (13.5x13.5)  
**FWHM / FWTM** 77.0° / 121.0°  
**Efficiency** 92 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13083\_PF-SOCKET



Light distribution files



**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 75.0° / 120.0°  
**Efficiency** 92 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14037\_PF-NSX-SOCKET



Light distribution files

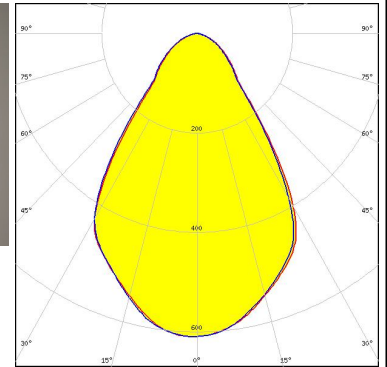
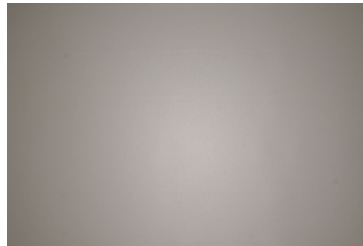
#### OPTICAL RESULTS (MEASURED):



LED COB L-Type (LES 11)  
 FWHM / FWTM 69.0° / 118.0°  
 Efficiency 83 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 438 Typ L1



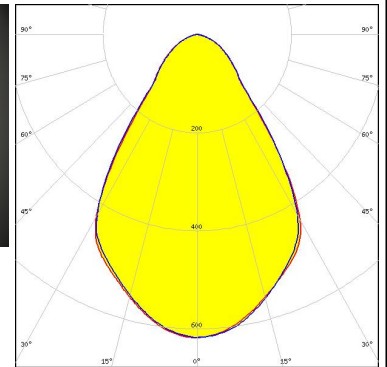
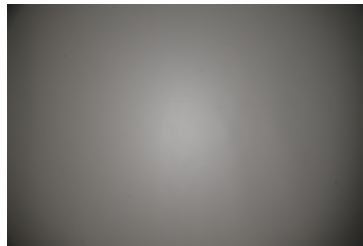
Light distribution files



LED COB L-Type (LES 11)  
 FWHM / FWTM 70.0° / 120.0°  
 Efficiency 87 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13333\_MIRELLA-CL  
 IDEAL: 50-2100NC +50-2100MR



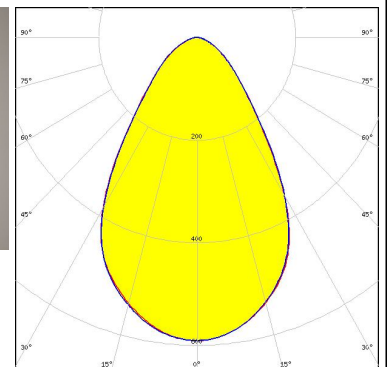
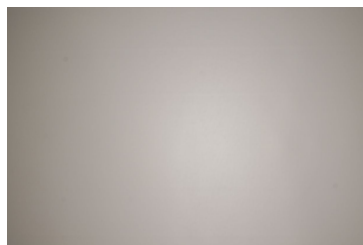
Light distribution files



LED COB L-Type (LES 11)  
 FWHM / FWTM 67.0° / 119.0°  
 Efficiency 82 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 438 Typ L1

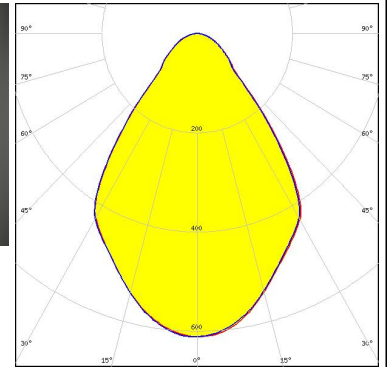
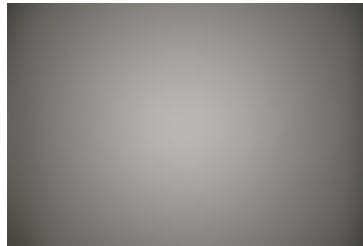


Light distribution files

#### OPTICAL RESULTS (MEASURED):



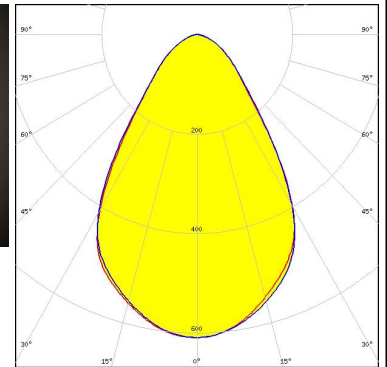
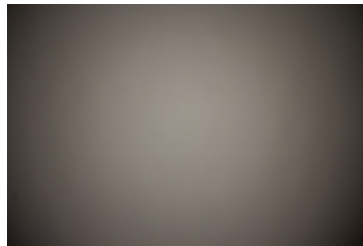
**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 73.0° / 118.0°  
**Efficiency** 88 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 438 Typ L1



Light distribution files



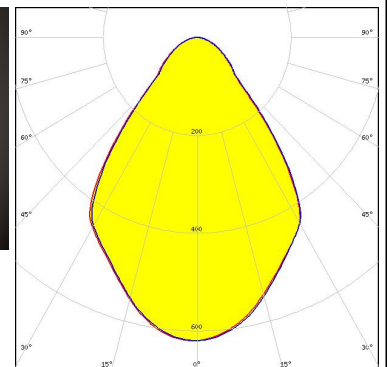
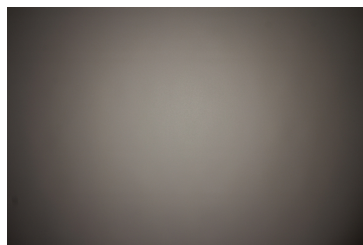
**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 69.0° / 120.0°  
**Efficiency** 87 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C12479\_MIRELLA-DL  
 IDEAL: 50-2100NC +50-2100MR



Light distribution files



**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 75.0° / 120.0°  
**Efficiency** 92 %  
**Peak intensity** 0.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 IDEAL: 50-2100NC +50-2100MR



Light distribution files

#### OPTICAL RESULTS (MEASURED):



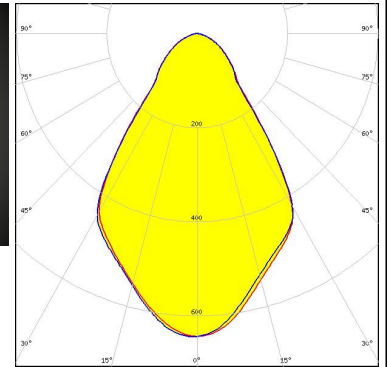
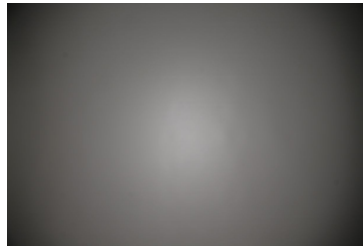
LED COB L-Type (LES 9)  
 FWHM / FWTM 68.0° / 118.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL

Bender Wirth: 438 Typ L1



Light distribution files

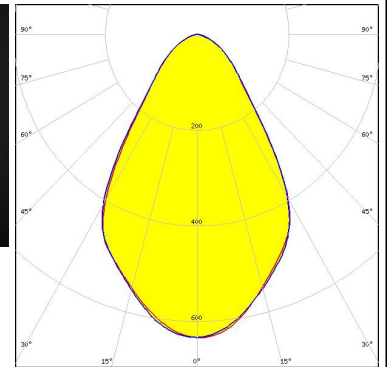
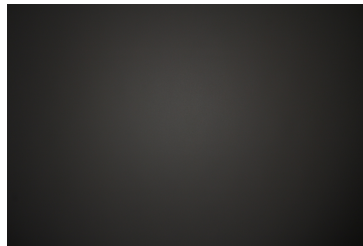


LED COB L-Type (LES 9)  
 FWHM / FWTM 67.0° / 118.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C12479\_MIRELLA-DL

IDEAL: 50-2100NC +50-2100MR



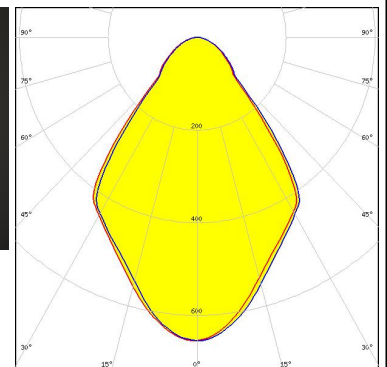
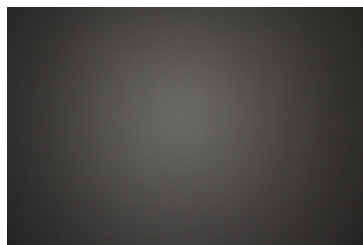
Light distribution files



LED COB L-Type (LES 9)  
 FWHM / FWTM 75.0° / 119.0°  
 Efficiency 93 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2100NC +50-2100MR

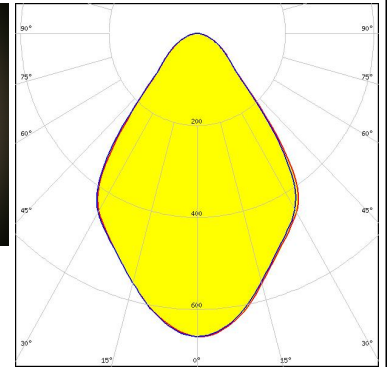


Light distribution files

#### OPTICAL RESULTS (MEASURED):



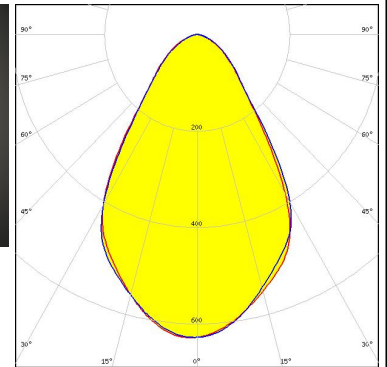
LED COB L-Type (LES 9)  
FWHM / FWTM 75.0° / 119.0°  
Efficiency 93 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14037\_PF-NSX-SOCKET



Light distribution files



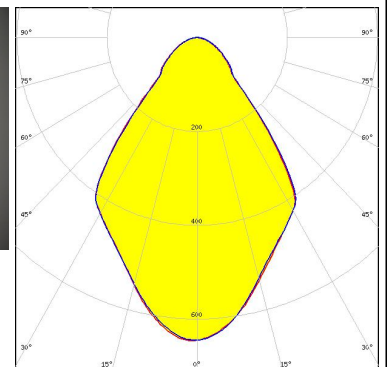
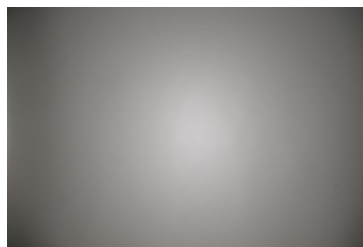
LED COB L-Type (LES 9)  
FWHM / FWTM 67.0° / 118.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL  
Bender Wirth: 438 Typ L1



Light distribution files

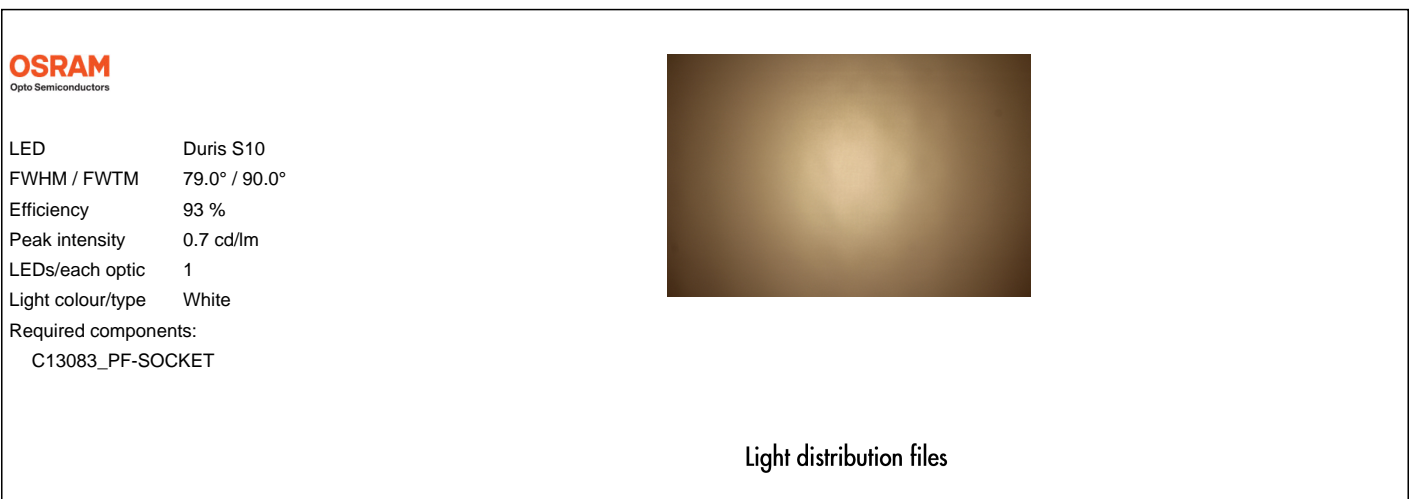
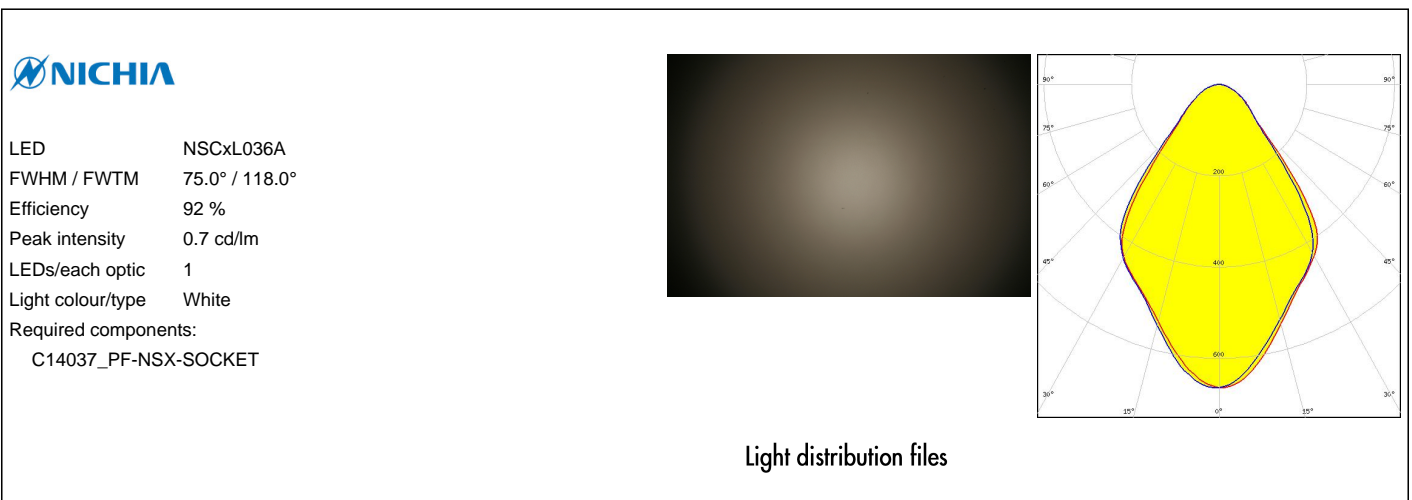
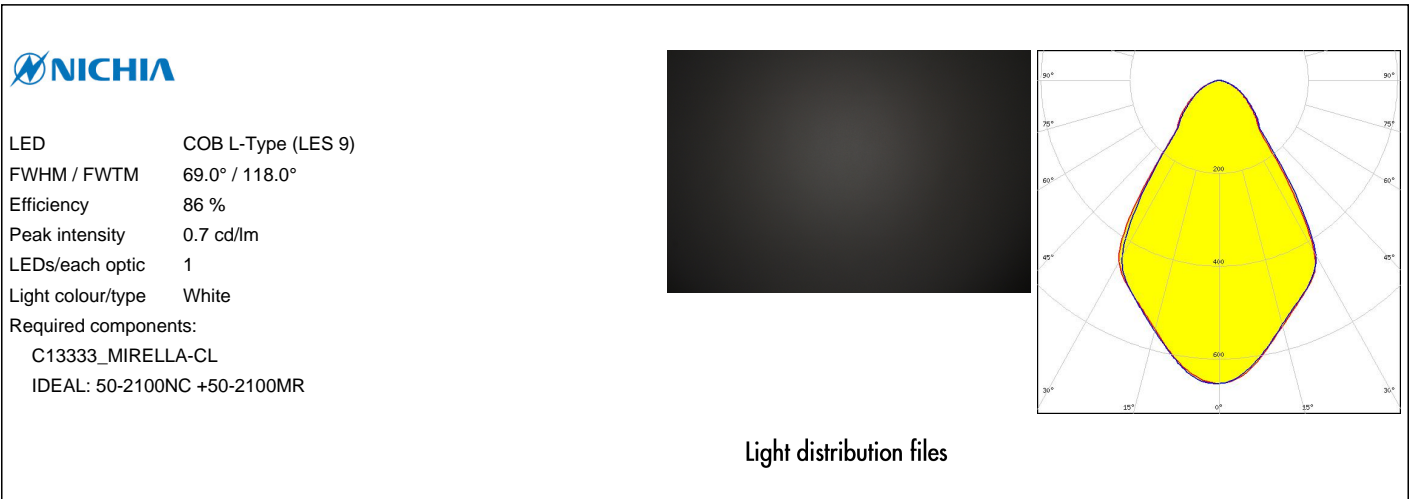


LED COB L-Type (LES 9)  
FWHM / FWTM 74.0° / 118.0°  
Efficiency 89 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 438 Typ L1



Light distribution files

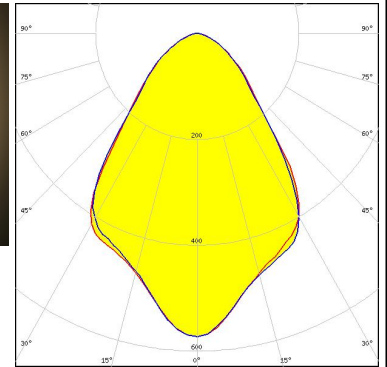
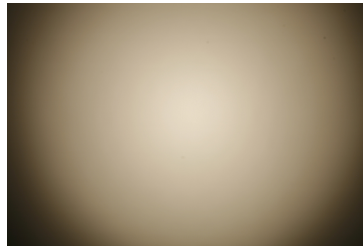
#### OPTICAL RESULTS (MEASURED):



#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

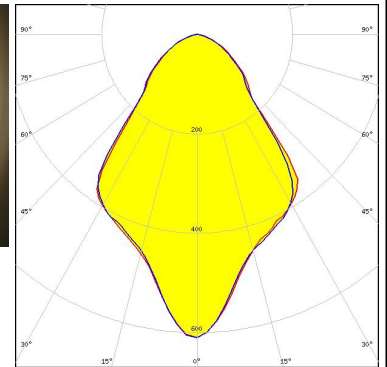
LED Duris S8  
 FWHM / FWTM 75.0° / 126.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13708\_PF-SOCKET-VERO10  
 C12479\_MIRELLA-DL



Light distribution files

**OSRAM**  
Opto Semiconductors

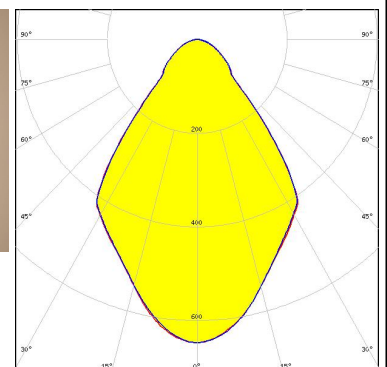
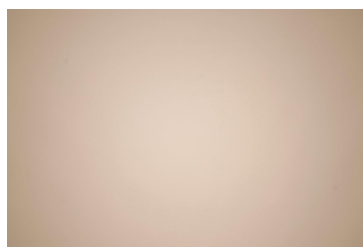
LED Duris S8  
 FWHM / FWTM 76.0° / 128.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13708\_PF-SOCKET-VERO10  
 C13333\_MIRELLA-CL



Light distribution files

**XICATO**

LED XTM - 9mm LES  
 FWHM / FWTM 73.0° / 116.0°  
 Efficiency 89 %  
 Peak intensity 0.7 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14636\_XTM-PF-ADAPTER



Light distribution files



#### OPTICAL RESULTS (SIMULATED):



LED	LUXEON CoB Compact
FWHM / FWTM	78.0° / 124.0°
Efficiency	94 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:  
C13761\_PF-SOCKET-CXA15



LED	LUXEON CoB Compact
FWHM / FWTM	73.0° / 114.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:  
C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 452 Typ L1



LED	LUXEON CoB Compact
FWHM / FWTM	65.0° / 117.0°
Efficiency	82 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL

Bender Wirth: 452 Typ L1

#### OPTICAL RESULTS (SIMULATED):



LED	LUXEON CoB Compact
FWHM / FWTM	67.0° / 114.0°
Efficiency	86 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL

Bender Wirth: 452 Typ L1



LED	CxM-14 (19x19)
FWHM / FWTM	67.0° / 117.0°
Efficiency	76 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL

Bender Wirth: 433 Typ L1



LED	CxM-14 (19x19)
FWHM / FWTM	69.0° / 119.0°
Efficiency	78 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL

Bender Wirth: 433 Typ L1

#### OPTICAL RESULTS (SIMULATED):



LED CxM-14 (19x19)  
FWHM / FWTM 74.0° / 117.0°  
Efficiency 82 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 73.0° / 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: 434 Typ L1



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 67.0° / 117.0°  
Efficiency 80 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL

Bender Wirth: 434 Typ L1

#### OPTICAL RESULTS (SIMULATED):



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 68.0° / 117.0°  
Efficiency 85 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL

Bender Wirth: 434 Typ L1



LED COB S-Type (LES 7)  
FWHM / FWTM 65.0° / 117.0°  
Efficiency 82 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL

Bender Wirth: 452 Typ L1



LED COB S-Type (LES 7)  
FWHM / FWTM 67.0° / 114.0°  
Efficiency 86 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL

Bender Wirth: 452 Typ L1

#### OPTICAL RESULTS (SIMULATED):



LED COB S-Type (LES 7)  
FWHM / FWTM 73.0° / 114.0°  
Efficiency 91 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 452 Typ L1

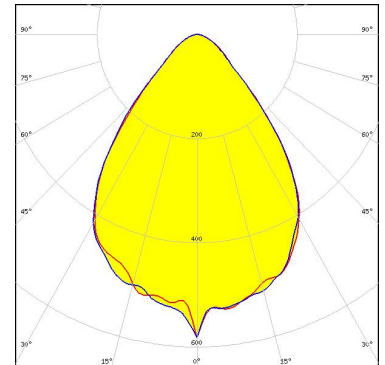


LED Soleriq S15  
FWHM / FWTM 76.0° / 114.0°  
Efficiency 83 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



Light distribution files

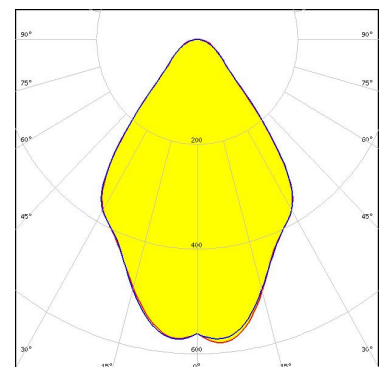


LED LC010C  
FWHM / FWTM 72.0° / 110.0°  
Efficiency 78 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



Light distribution files

#### OPTICAL RESULTS (SIMULATED):

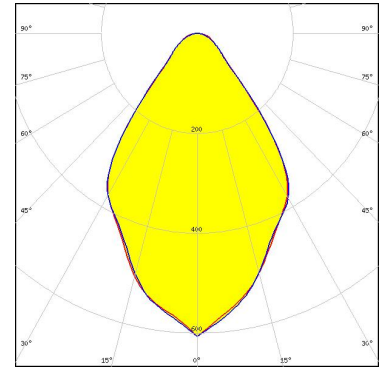
### SAMSUNG

LED LC020C  
FWHM / FWTM 71.0° / 107.0°  
Efficiency 77 %  
Peak intensity 0.6 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

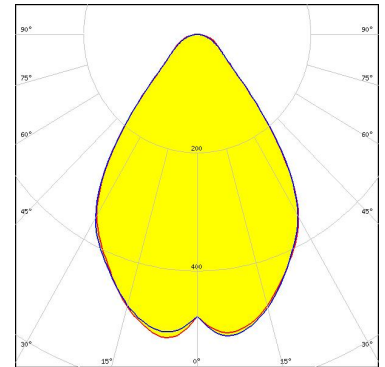
### SAMSUNG

LED LC040C  
FWHM / FWTM 73.0° / 113.0°  
Efficiency 74 %  
Peak intensity 0.5 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



SEOUL SEMICONDUCTOR

LED ZC4/6  
FWHM / FWTM 68.0° / 117.0°  
Efficiency 85 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White


Required components:


C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL

Bender Wirth: 434 Typ L1

#### OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	67.0° / 117.0°
Efficiency	80 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C12479_MIRELLA-DL	
Bender Wirth: 434 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	73.0° / 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: 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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