

## ANGELINA-M

~30° medium beam

### SPECIFICATION:

Dimensions	Ø 82.0
Height	31 mm
Fastening	socket
ROHS compliant	yes ⓘ

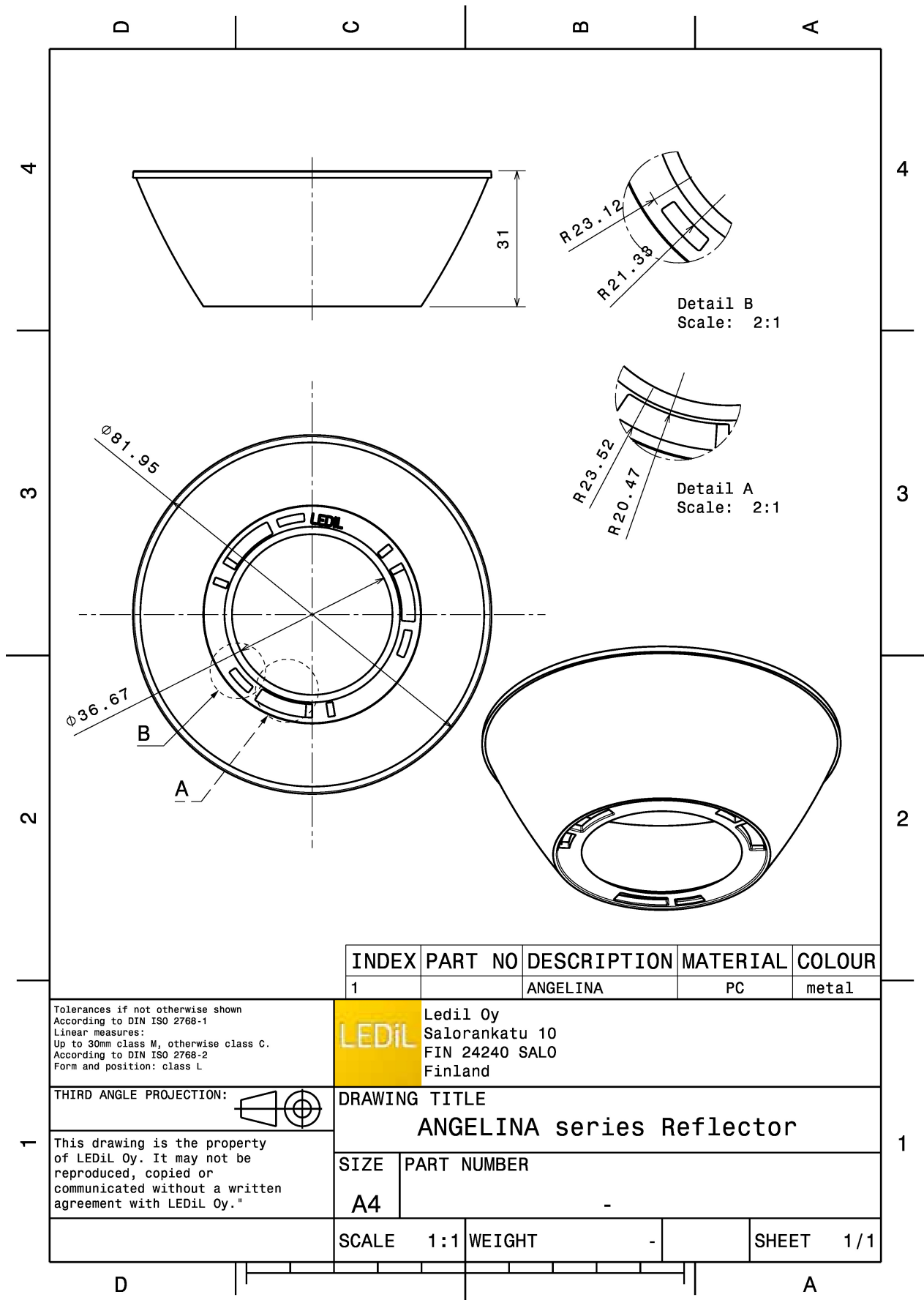
### MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELINA-M	Reflector	PC	metal		HMDS



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13401_ANGELINA-M » Box size: 480 x 280 x 300 mm	900	120	60	11.0



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA	PC	metal

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**ANGELINA series Reflector**

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SIZE	PART NUMBER
A4	-

SCALE	1:1	WEIGHT	-	SHEET	1/1
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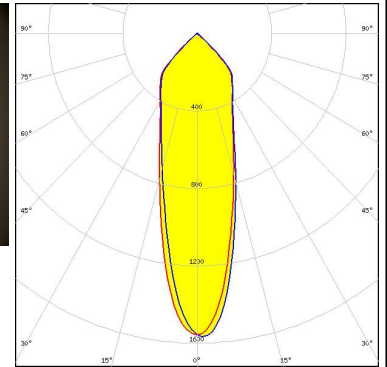
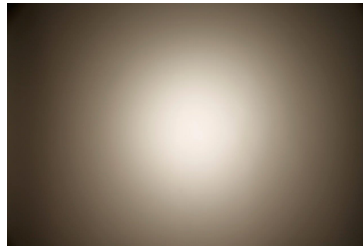
See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)



### OPTICAL RESULTS (MEASURED):

bridgelux

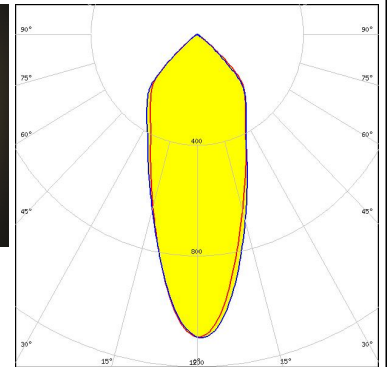
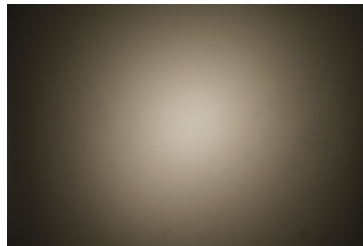
LED BXRA ES Rectangle  
 FWHM / FWTM 30.0° / 93.0°  
 Efficiency 93 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2100BL + 50-2100AN



Light distribution files

bridgelux

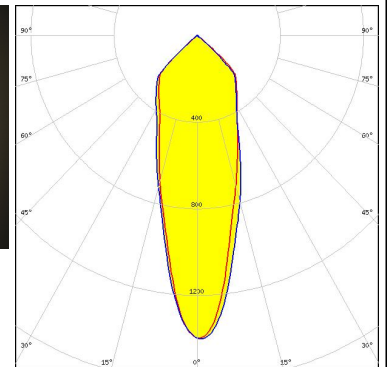
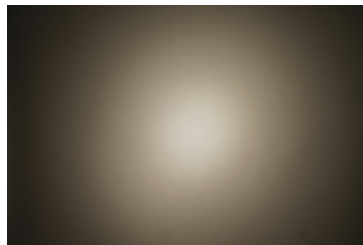
LED V10 Gen7  
 FWHM / FWTM 38.0° / 99.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 434 Typ L1



Light distribution files

bridgelux

LED V10 Gen7  
 FWHM / FWTM 30.0° / 97.0°  
 Efficiency 92 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



Light distribution files

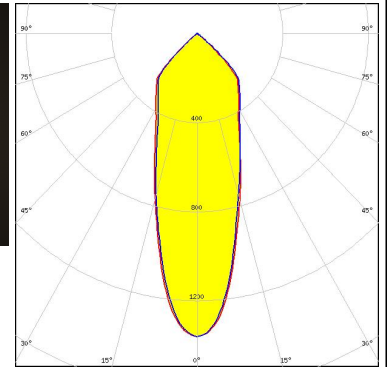
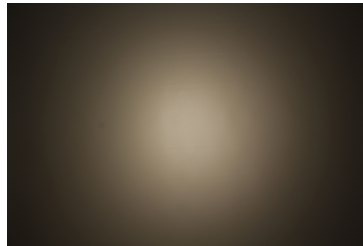
### OPTICAL RESULTS (MEASURED):



LED V13 Gen7  
 FWHM / FWTM 34.0° / 95.0°  
 Efficiency 92 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

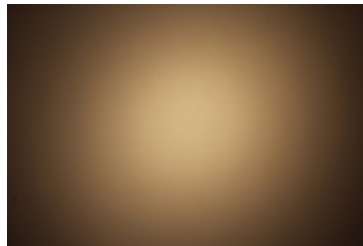


LED V15 Gen6  
 FWHM / FWTM 37.0° / 98.0°  
 Efficiency 92 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18

Bender Wirth: 456 Typ L2



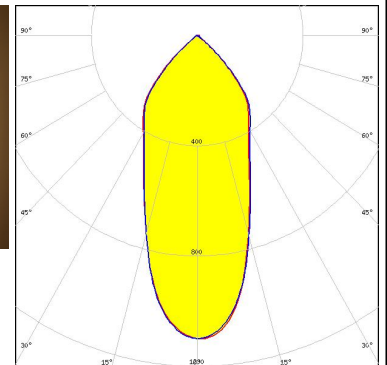
Light distribution files



LED V22 Gen6  
 FWHM / FWTM 43.0° / 96.0°  
 Efficiency 91 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2204-CT + 50-2100AN

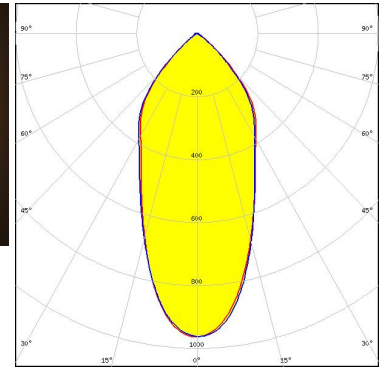
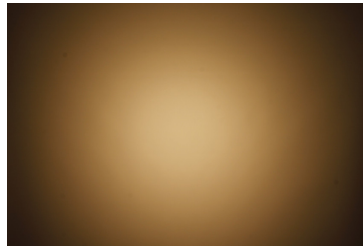


Light distribution files

### OPTICAL RESULTS (MEASURED):



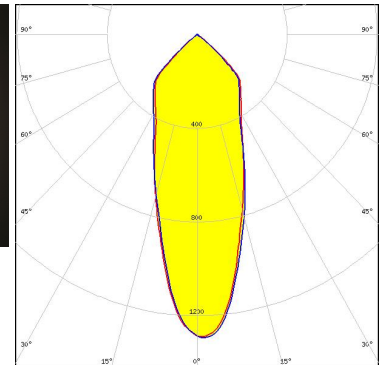
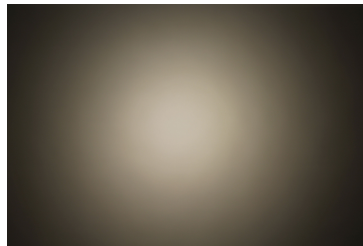
LED V22 Gen6  
FWHM / FWTM 47.0° / 98.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F13671\_ANGE-RZ-LENS  
IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



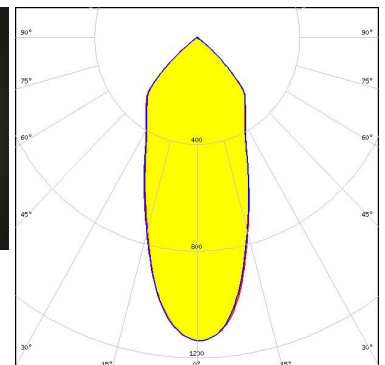
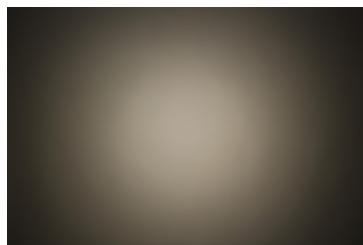
LED Vero SE 13  
FWHM / FWTM 36.0° / 97.0°  
Efficiency 93 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16402\_CLAMP-VEROSE-13-18



Light distribution files



LED Vero SE 18  
FWHM / FWTM 42.0° / 98.0°  
Efficiency 93 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16402\_CLAMP-VEROSE-13-18

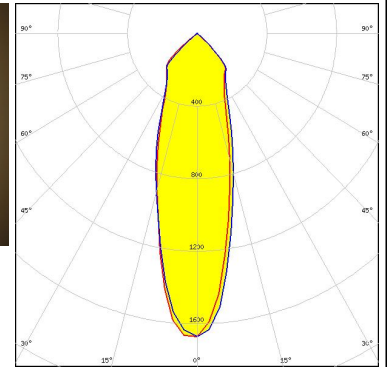


Light distribution files

### OPTICAL RESULTS (MEASURED):



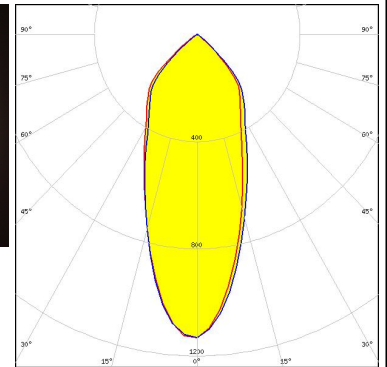
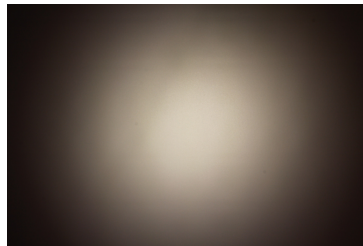
**LED** VERO13  
**FWHM / FWTM** 31.0° / 94.0°  
**Efficiency** 92 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18



Light distribution files



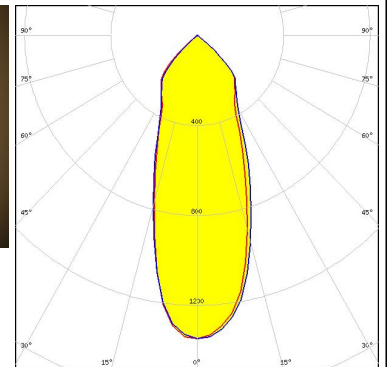
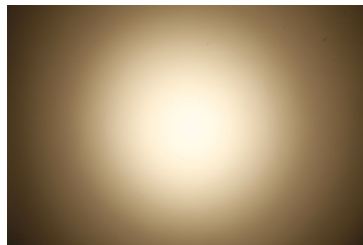
**LED** VERO13  
**FWHM / FWTM** 42.0° / 98.0°  
**Efficiency** 87 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS



Light distribution files



**LED** VERO18  
**FWHM / FWTM** 38.0° / 95.0°  
**Efficiency** 92 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18

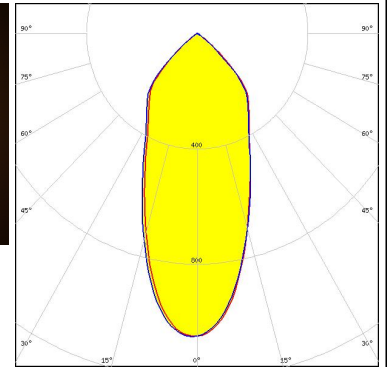


Light distribution files

### OPTICAL RESULTS (MEASURED):



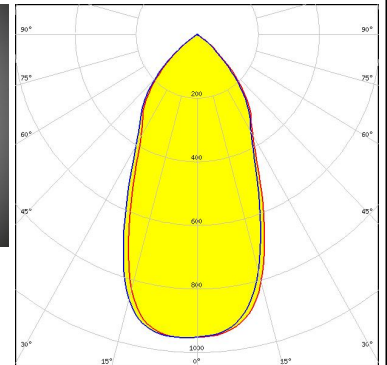
**LED** VERO18  
**FWHM / FWTM** 43.0° / 99.0°  
**Efficiency** 89 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS



Light distribution files



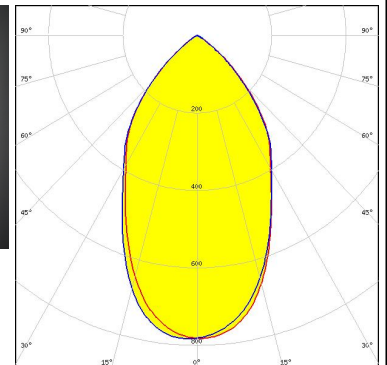
**LED** VERO29  
**FWHM / FWTM** 51.0° / 99.0°  
**Efficiency** 90 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29



Light distribution files



**LED** VERO29  
**FWHM / FWTM** 60.0° / 104.0°  
**Efficiency** 87 %  
**Peak intensity** 0.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS

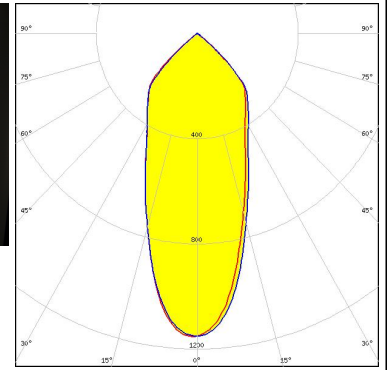


Light distribution files

### OPTICAL RESULTS (MEASURED):



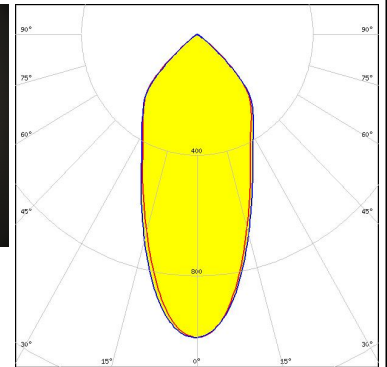
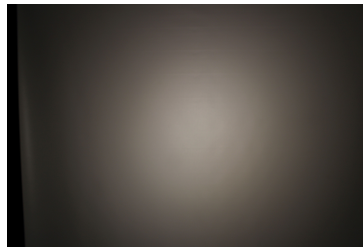
**LED** Vesta TW 15mm DP  
**FWHM / FWTM** 41.0° / 98.0°  
**Efficiency** 93 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 482 Typ L2



Light distribution files



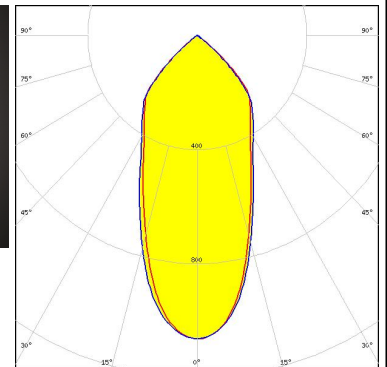
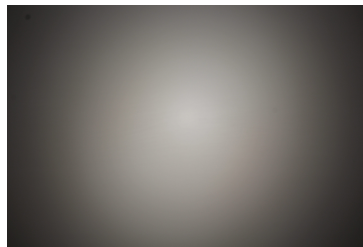
**LED** Vesta TW 15mm DP  
**FWHM / FWTM** 45.0° / 100.0°  
**Efficiency** 89 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 482 Typ L2



Light distribution files



**LED** Vesta TW 18mm (31W) DP  
**FWHM / FWTM** 45.0° / 99.0°  
**Efficiency** 93 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 483 Typ L3



Light distribution files



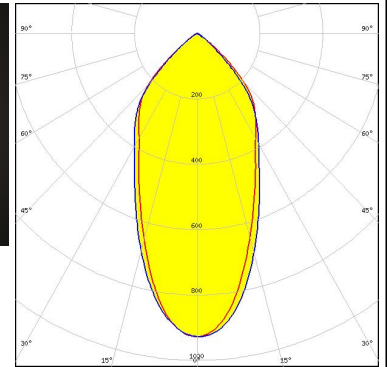
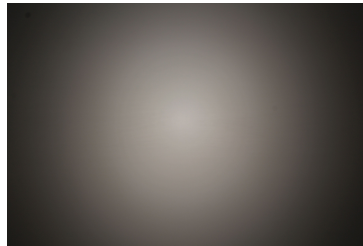
### OPTICAL RESULTS (MEASURED):



LED Vesta TW 18mm (31W) DP  
 FWHM / FWTM 49.0° / 101.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 483 Typ L3



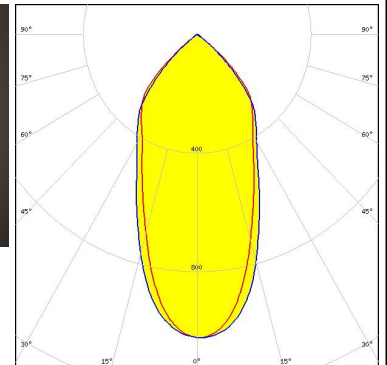
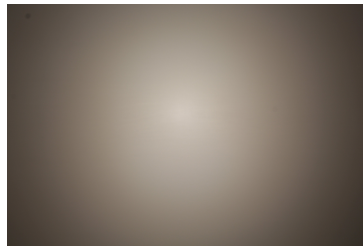
Light distribution files



LED Vesta TW 22mm DP  
 FWHM / FWTM 47.0° / 99.0°  
 Efficiency 93 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



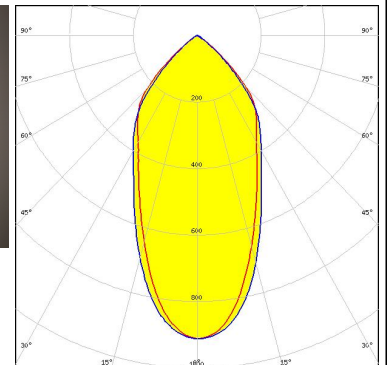
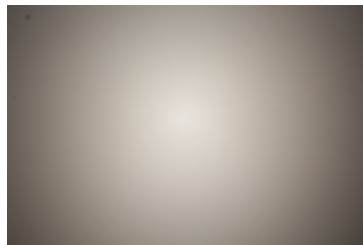
Light distribution files



LED Vesta TW 22mm DP  
 FWHM / FWTM 50.0° / 101.0°  
 Efficiency 88 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 494 Typ L3

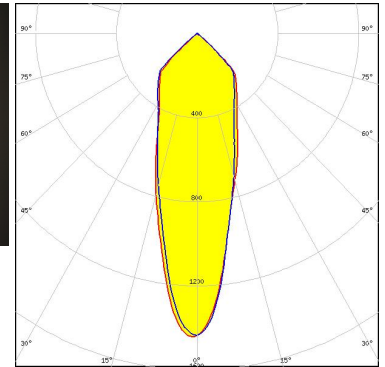


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

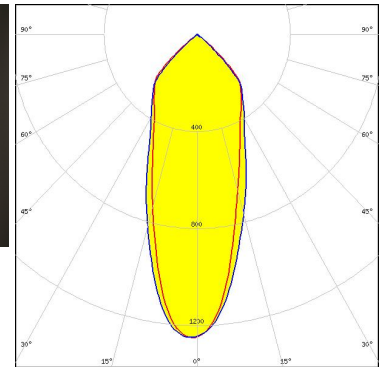
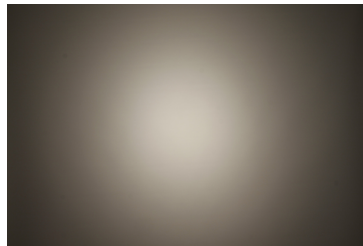
LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 31.0° / 96.0°  
 Efficiency 92 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



Light distribution files

#### CITIZEN

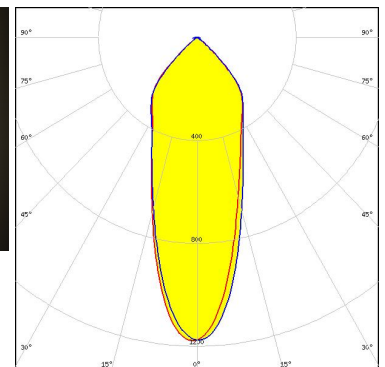
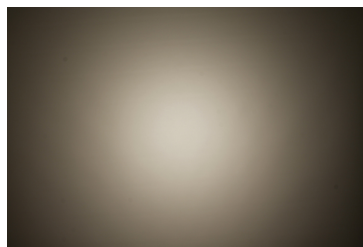
LED CLL03x/CLU03x  
 FWHM / FWTM 37.0° / 97.0°  
 Efficiency 91 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 433 Typ L1



Light distribution files

#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 36.0° / 95.0°  
 Efficiency 87 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2103CT + 50-2100AN



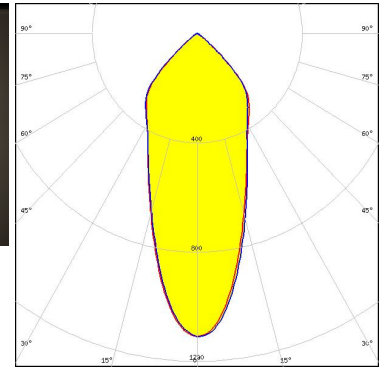
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### CITIZEN

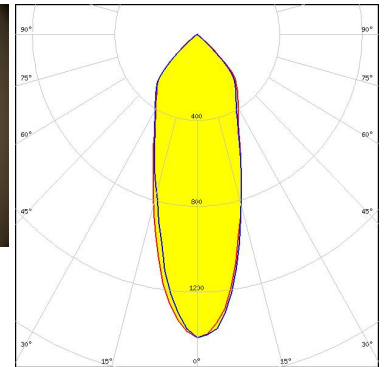
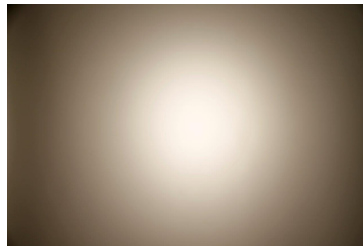
LED CLL03x/CLU03x  
 FWHM / FWTM 39.0° / 98.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16791\_CLAMP-Z45-A  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2325807-3



Light distribution files

#### CITIZEN

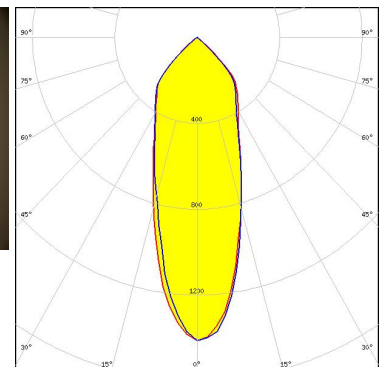
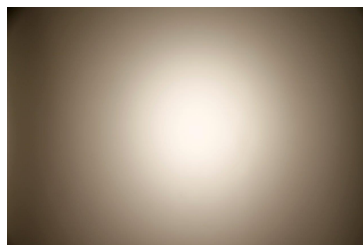
LED CLL03x/CLU03x  
 FWHM / FWTM 35.0° / 95.0°  
 Efficiency 94 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 30.0° / 92.0°  
 Efficiency 92 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



Light distribution files

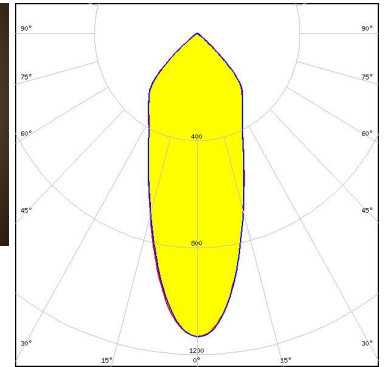
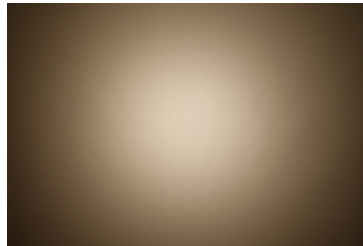
### OPTICAL RESULTS (MEASURED):

#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 38.0° / 97.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



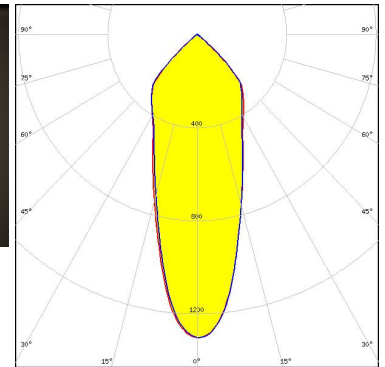
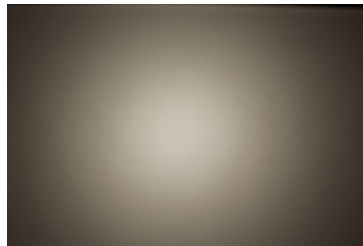
Light distribution files

#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 36.0° / 96.0°  
 Efficiency 94 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C16791\_CLAMP-Z45-A  
 TE Connectivity: 2325807-3



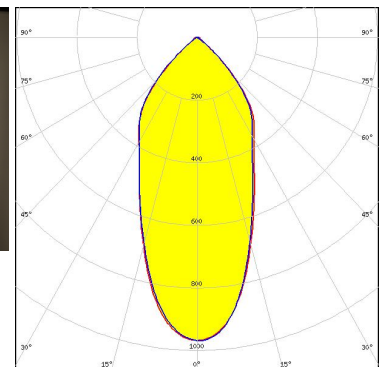
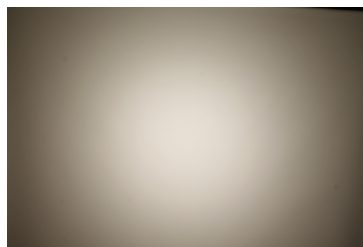
Light distribution files

#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 46.0° / 98.0°  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN

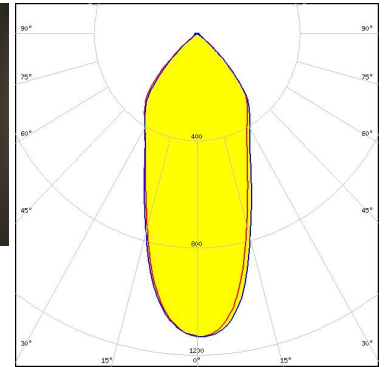
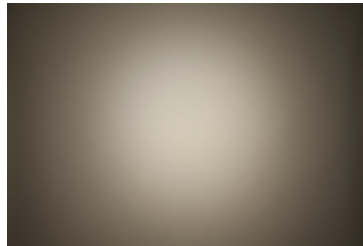


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### CITIZEN

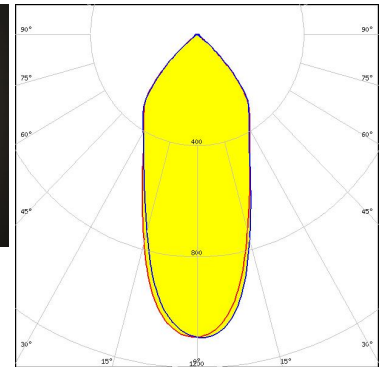
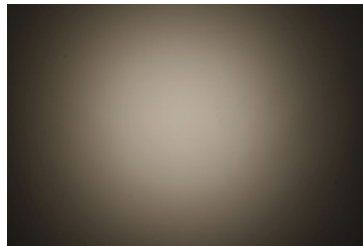
LED CLL04x/CLU04x  
 FWHM / FWTM 42.0° / 96.0°  
 Efficiency 92 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



Light distribution files

### CITIZEN

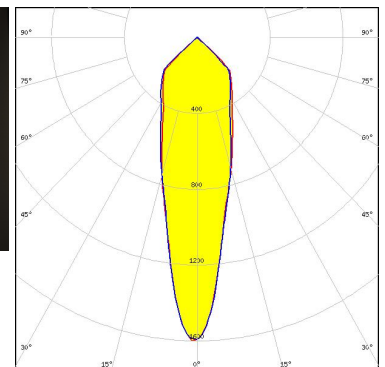
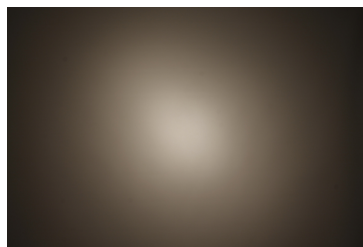
LED CLL04x/CLU04x  
 FWHM / FWTM 43.0° / 96.0°  
 Efficiency 91 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

### CITIZEN

LED CLU700/701/702/703  
 FWHM / FWTM 26.0° / 96.0°  
 Efficiency 92 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1

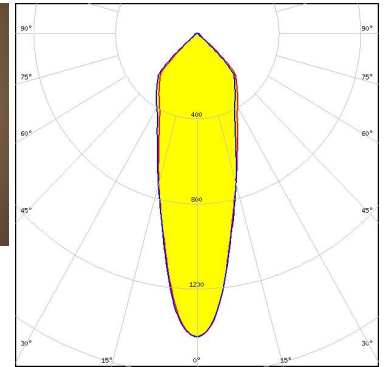
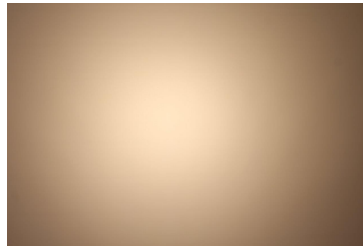


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

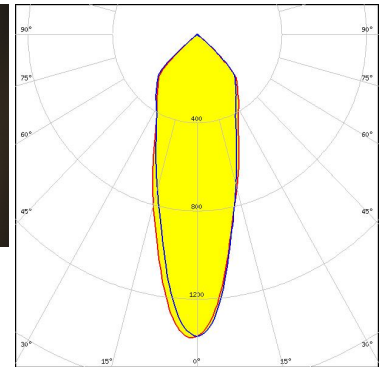
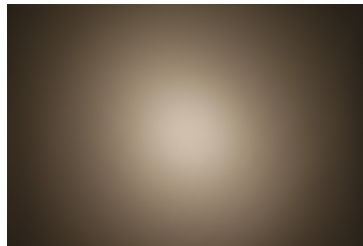
LED CLU720/721/723  
FWHM / FWTM 31.0° / 95.0°  
Efficiency 94 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### CITIZEN

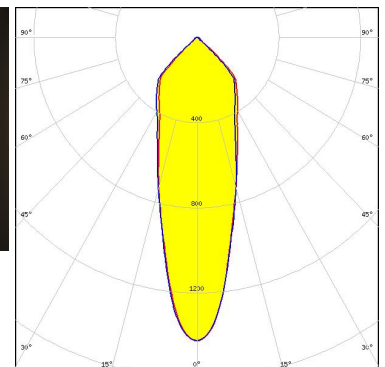
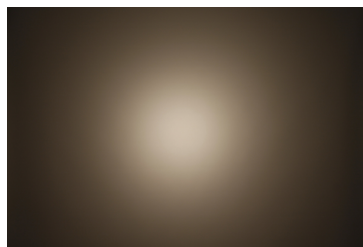
LED CLU720/721/723  
FWHM / FWTM 33.0° / 96.0°  
Efficiency 91 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18



Light distribution files

#### CITIZEN

LED CLU720/721/723  
FWHM / FWTM 26.0° / 92.0°  
Efficiency 93 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2103CT + 50-2100AN

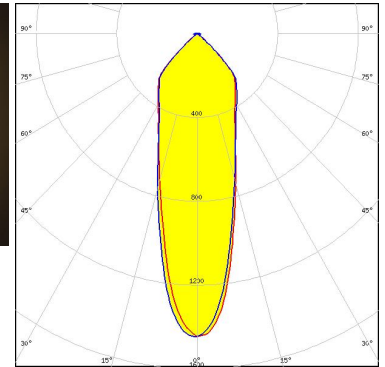


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

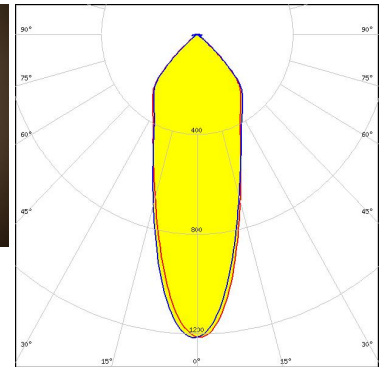
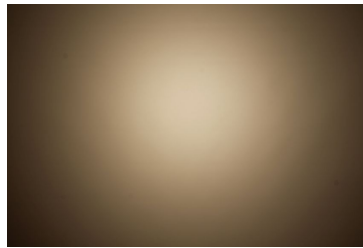
LED CLU730/731/733  
 FWHM / FWTM 31.0° / 93.0°  
 Efficiency 91 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

#### CITIZEN

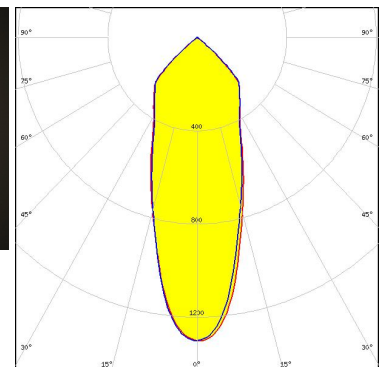
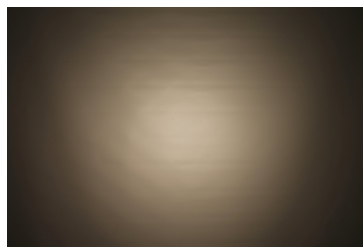
LED CLU730/731/733  
 FWHM / FWTM 35.0° / 95.0°  
 Efficiency 87 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



LED CMA1840  
 FWHM / FWTM 37.0° / 97.0°  
 Efficiency 94 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18

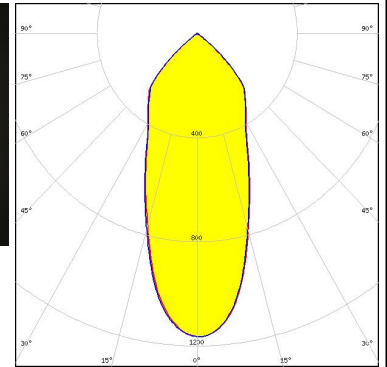
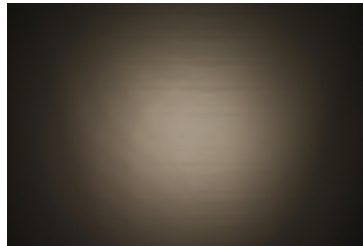


Light distribution files

### OPTICAL RESULTS (MEASURED):



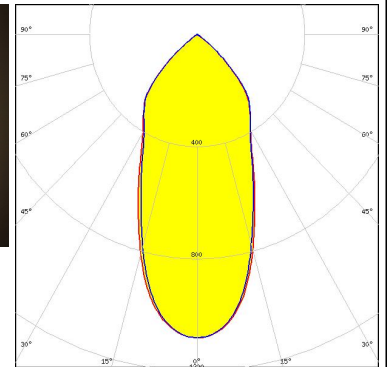
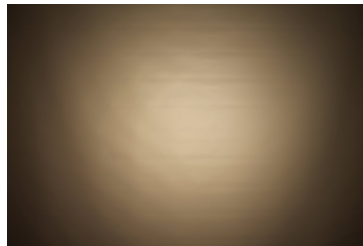
LED CMA2550  
 FWHM / FWTM 42.0° / 98.0°  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



Light distribution files



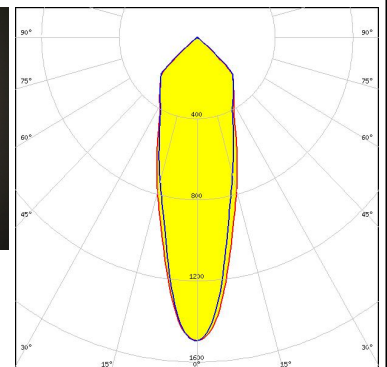
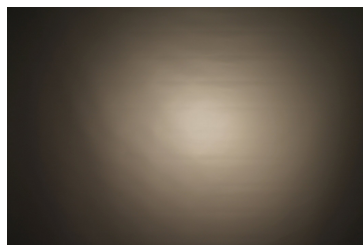
LED CMA3090  
 FWHM / FWTM 46.0° / 99.0°  
 Efficiency 94 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



Light distribution files



LED CMT14xx  
 FWHM / FWTM 30.0° / 96.0°  
 Efficiency 93 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



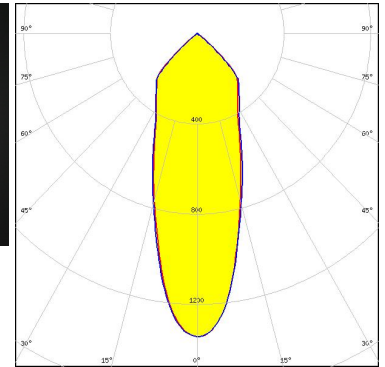
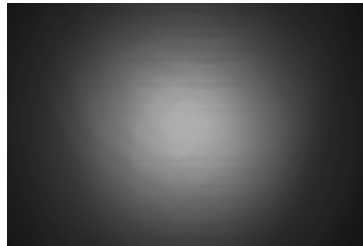
Light distribution files



### OPTICAL RESULTS (MEASURED):



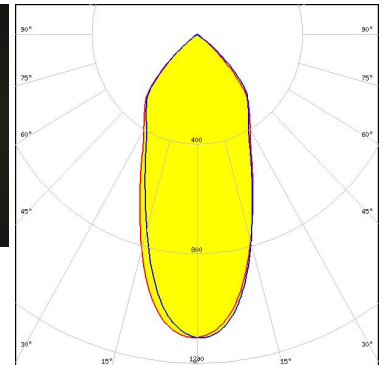
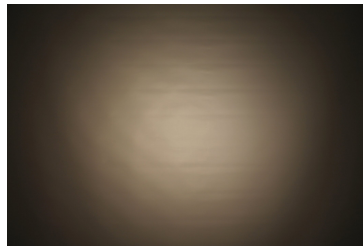
**LED** CMT19xx  
**FWHM / FWTM** 36.0° / 97.0°  
**Efficiency** 94 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 477 Typ L1



Light distribution files



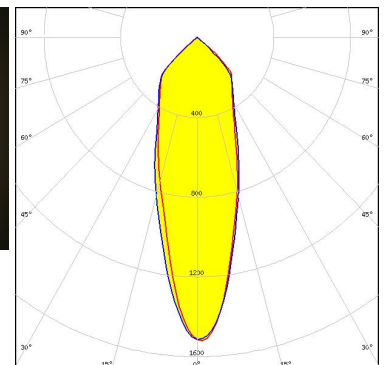
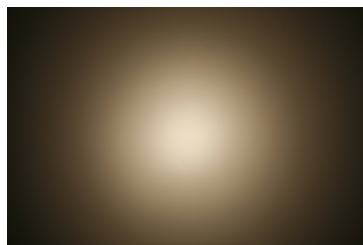
**LED** CMT28xx  
**FWHM / FWTM** 44.0° / 98.0°  
**Efficiency** 94 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 471 Typ L3



Light distribution files



**LED** CXA/B 15xx  
**FWHM / FWTM** 33.0° / 96.0°  
**Efficiency** 94 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14123\_CLAMP-CXA15-18

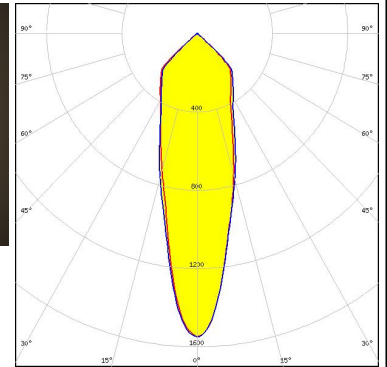
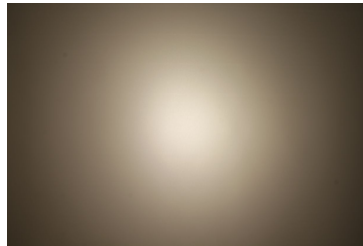


Light distribution files

### OPTICAL RESULTS (MEASURED):



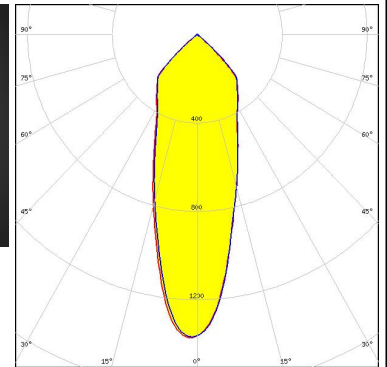
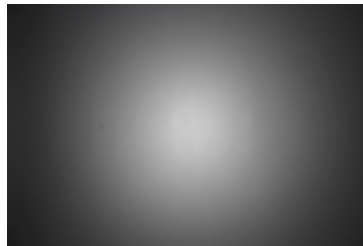
LED CXA/B 15xx  
 FWHM / FWTM 28.0° / 96.0°  
 Efficiency 92 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 441 Typ L1



Light distribution files



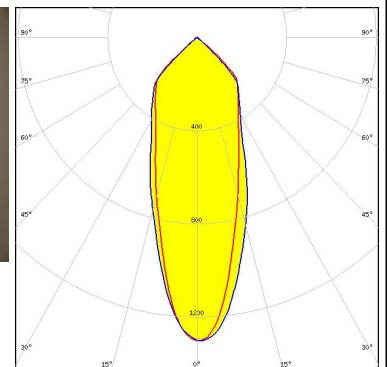
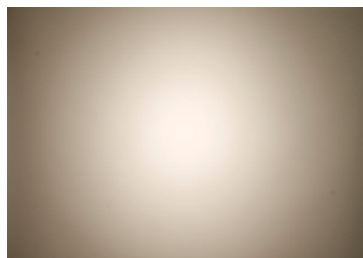
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 33.0° / 96.0°  
 Efficiency 92 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 36.0° / 97.0°  
 Efficiency 91 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



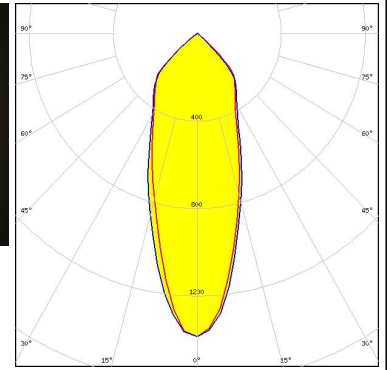
Light distribution files



### OPTICAL RESULTS (MEASURED):



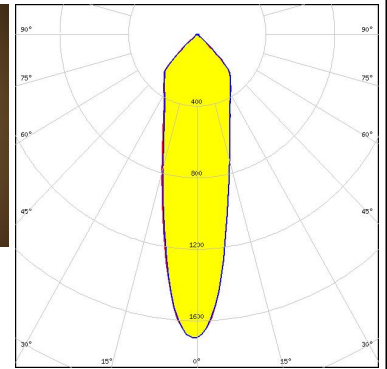
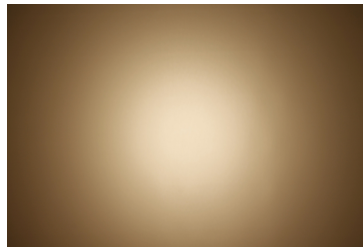
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 37.0° / 97.0°  
 Efficiency 94 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18



Light distribution files



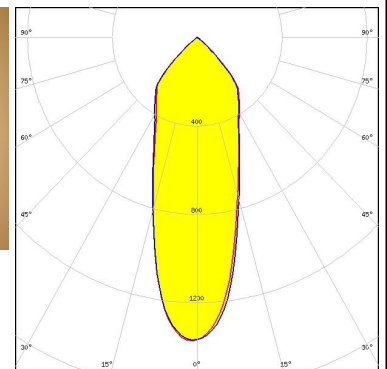
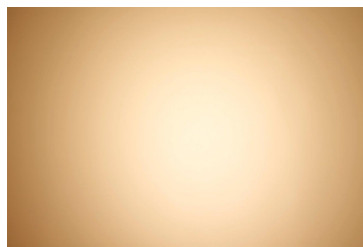
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 26.0° / 92.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2101CR + 50-2100AN



Light distribution files



LED CXA/B 25xx  
 FWHM / FWTM 34.0° / 94.0°  
 Efficiency 93 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2102CR + 50-2100AN

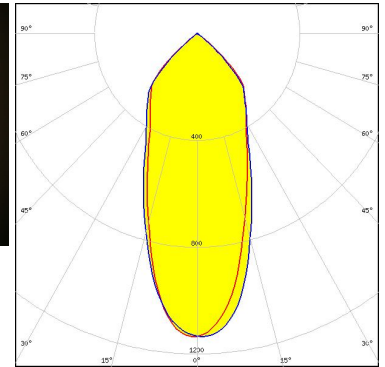
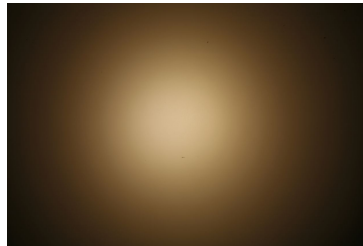


Light distribution files

### OPTICAL RESULTS (MEASURED):



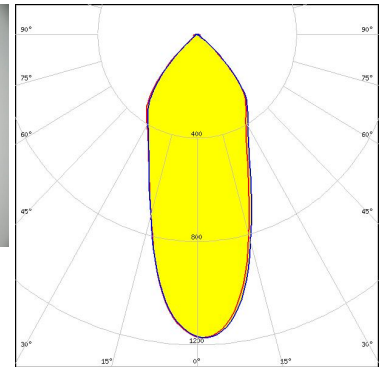
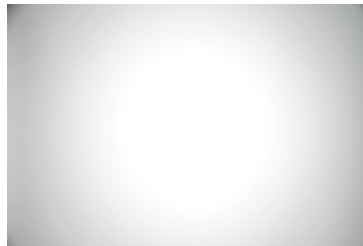
LED CXA/B 25xx  
 FWHM / FWTM 42.0° / 98.0°  
 Efficiency 92 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



Light distribution files



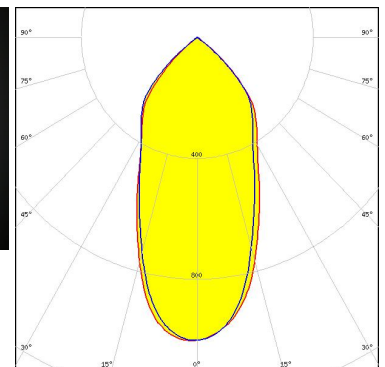
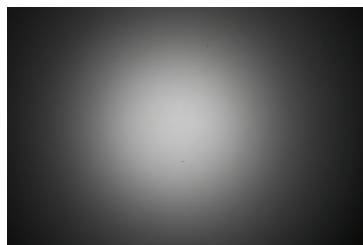
LED CXA/B 30xx  
 FWHM / FWTM 40.0° / 95.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2234C + 50-2100AN



Light distribution files



LED CXA/B 30xx  
 FWHM / FWTM 48.0° / 100.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14036\_CLAMP\_CXA25-30

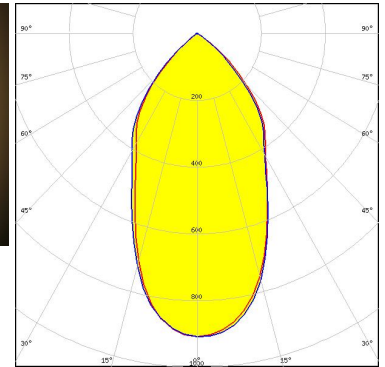
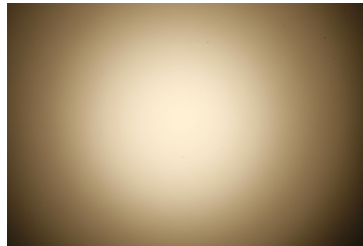


Light distribution files

### OPTICAL RESULTS (MEASURED):



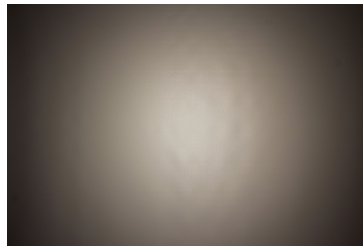
LED CXA/B 3590  
FWHM / FWTM 54.0° / 101.0°  
Efficiency 92 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2303CR + 50-2300AN



Light distribution files



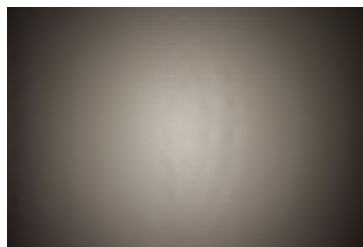
LED CHI3030 19W  
FWHM / FWTM 43.0° / 90.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3



Light distribution files



LED CHI3030 29W  
FWHM / FWTM 52.0° / 90.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3

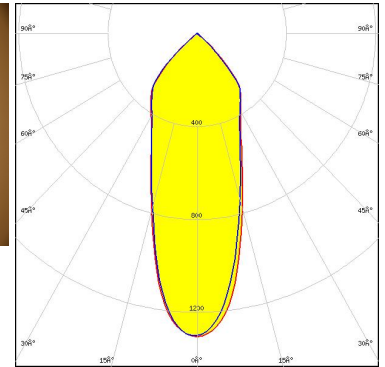
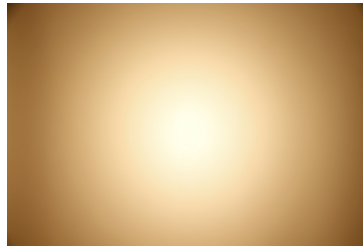


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### inventronics

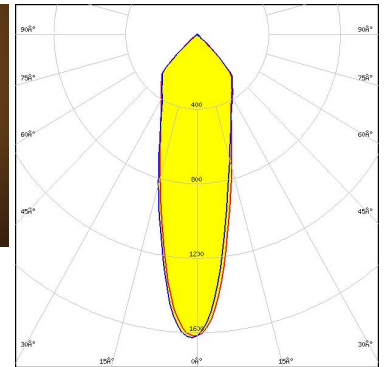
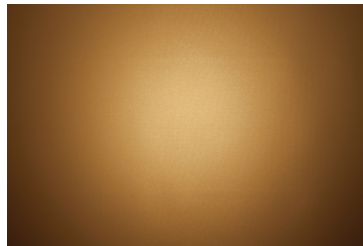
LED PrevaLED Core AC (LEP-2000)  
 FWHM / FWTM 36.0° / 94.0°  
 Efficiency 93 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

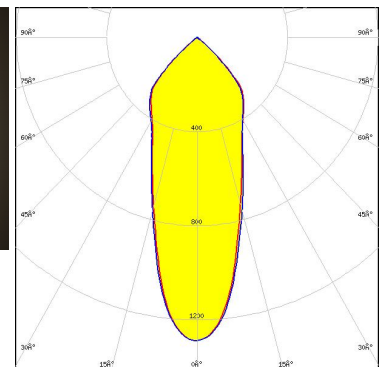
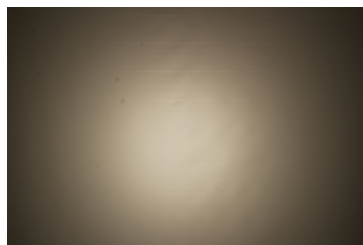
LED PrevaLED Core AC (LEP-800)  
 FWHM / FWTM 28.0° / 92.0°  
 Efficiency 93 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

LED PrevaLED Core G7 L15 H1  
 FWHM / FWTM 36.0° / 96.0°  
 Efficiency 94 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16685\_CLAMP-PRV-A

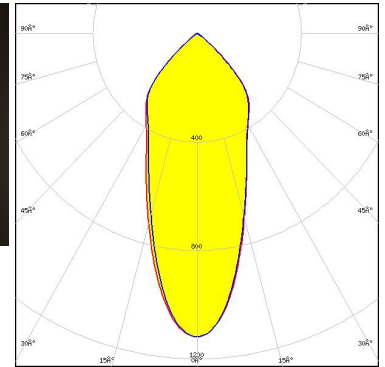
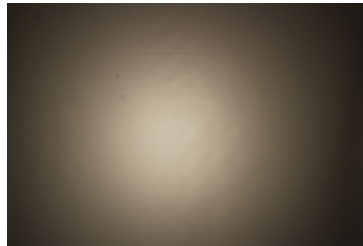


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### inventronics

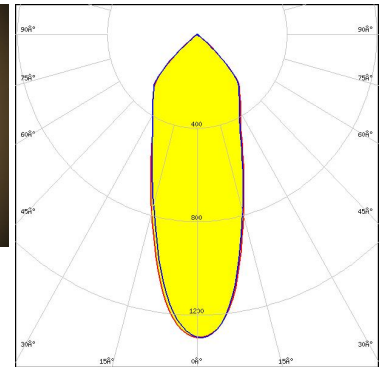
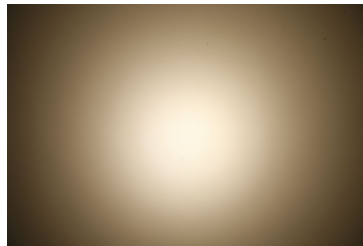
LED PrevaLED Core G7 L15 H1  
FWHM / FWTM 40.0° / 97.0°  
Efficiency 90 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16685\_CLAMP-PRV-A  
F13671\_ANGE-RZ-LENS



Light distribution files

#### inventronics

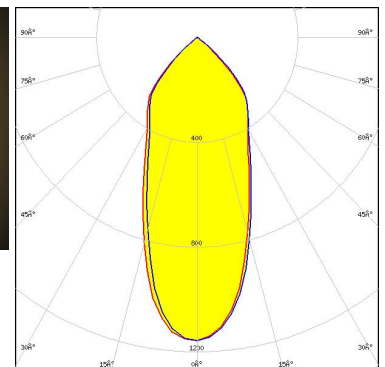
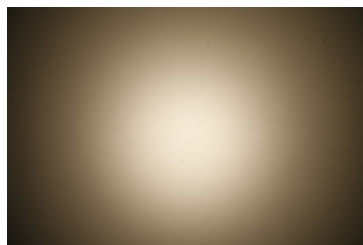
LED PrevaLED Core Z3 LES19  
FWHM / FWTM 37.0° / 96.0°  
Efficiency 93 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

LED PrevaLED Core Z3 LES23  
FWHM / FWTM 43.0° / 97.0°  
Efficiency 94 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

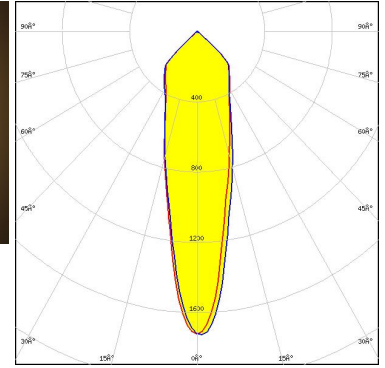


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### inventronics

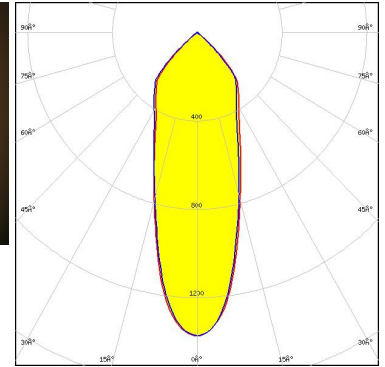
LED PrevaLED Core Z3 LES9  
 FWHM / FWTM 26.0° / 94.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

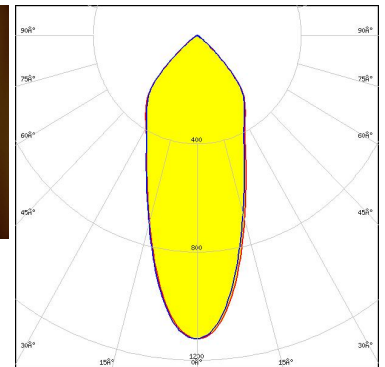
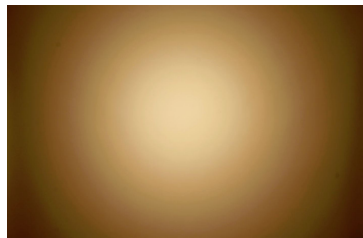
LED PrevaLED Core Z4 LES19  
 FWHM / FWTM 34.0° / 94.0°  
 Efficiency 93 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

LED PrevaLED Core Z4 LES19  
 FWHM / FWTM 40.0° / 96.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



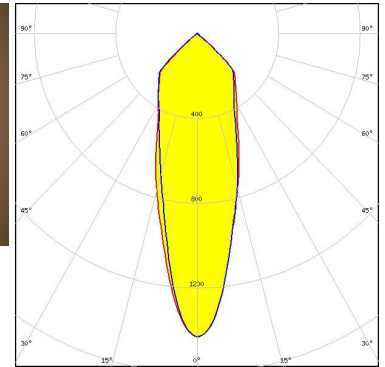
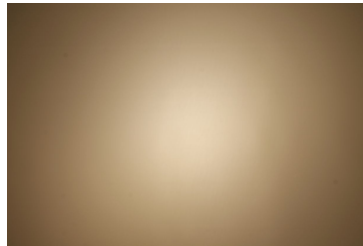
Light distribution files



### OPTICAL RESULTS (MEASURED):



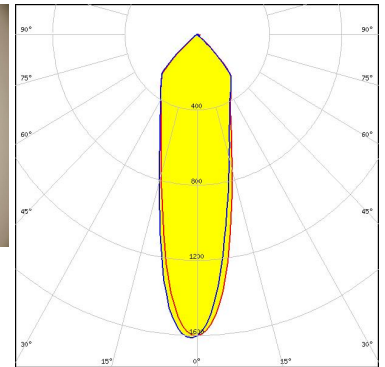
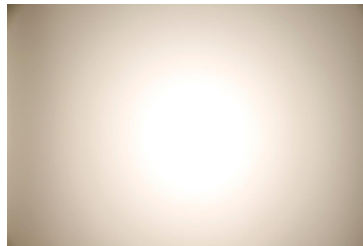
**LED** LUXEON CoB 1202/1203  
**FWHM / FWTM** 32.0° / 96.0°  
**Efficiency** 92 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



Light distribution files



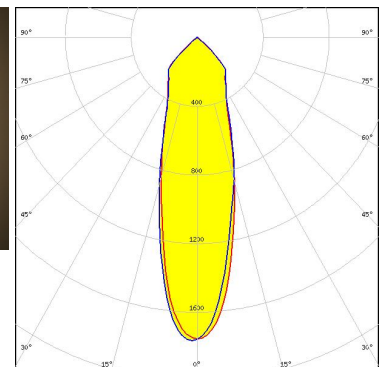
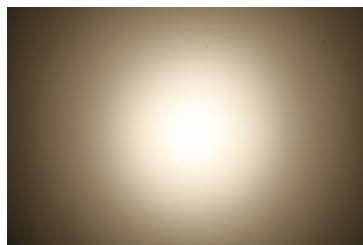
**LED** LUXEON CoB 1204/1205  
**FWHM / FWTM** 28.0° / 92.0°  
**Efficiency** 92 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 IDEAL: 50-2100SH + 50-2100AN



Light distribution files



**LED** LUXEON CoB 1204/1205  
**FWHM / FWTM** 30.0° / 93.0°  
**Efficiency** 94 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

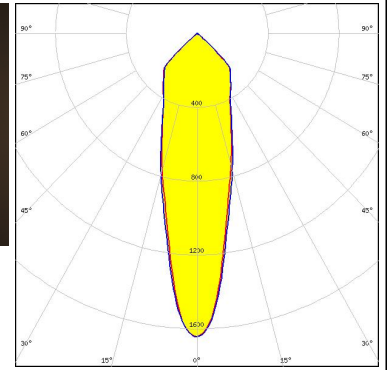
### OPTICAL RESULTS (MEASURED):



LED LUXEON CoB 1204HD  
 FWHM / FWTM 27.0° / 95.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



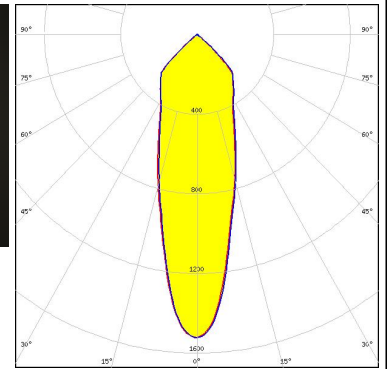
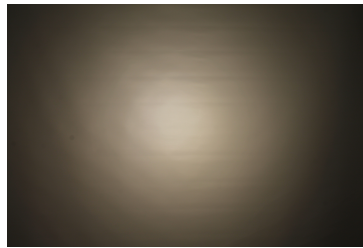
Light distribution files



LED LUXEON CoB 1205HD  
 FWHM / FWTM 30.0° / 95.0°  
 Efficiency 93 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

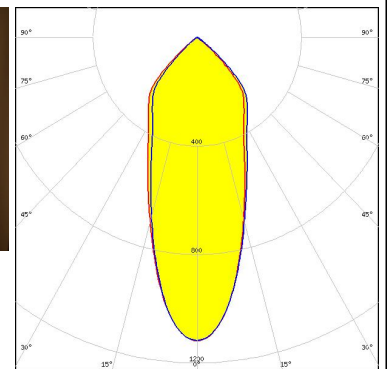
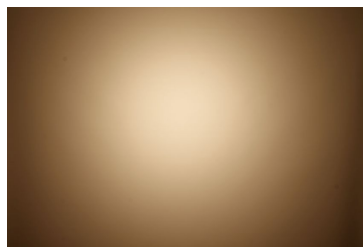


LED LUXEON CoB 1208  
 FWHM / FWTM 39.0° / 97.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



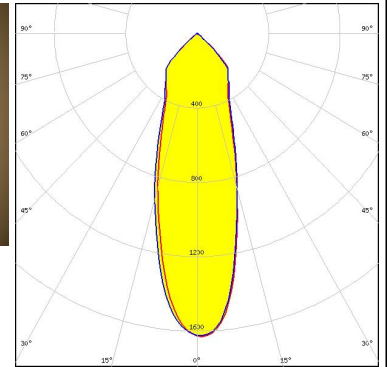
### OPTICAL RESULTS (MEASURED):



LED LUXEON CoB 1208  
 FWHM / FWTM 32.0° / 93.0°  
 Efficiency 93 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



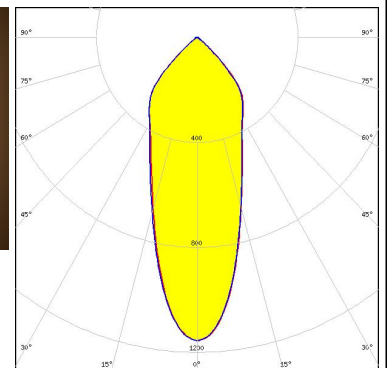
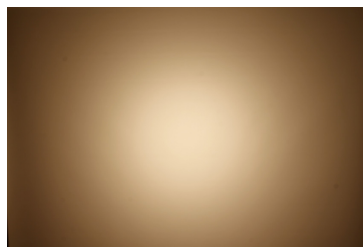
Light distribution files



LED LUXEON CoB 1208  
 FWHM / FWTM 36.0° / 95.0°  
 Efficiency 86 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2100SH + 50-2100AN



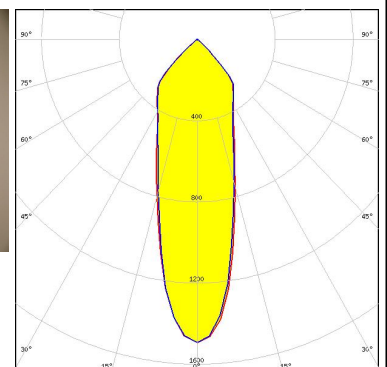
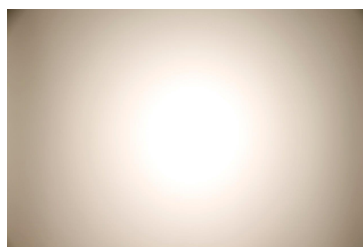
Light distribution files



LED LUXEON CoB 1208  
 FWHM / FWTM 31.0° / 93.0°  
 Efficiency 93 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2100SH + 50-2100AN

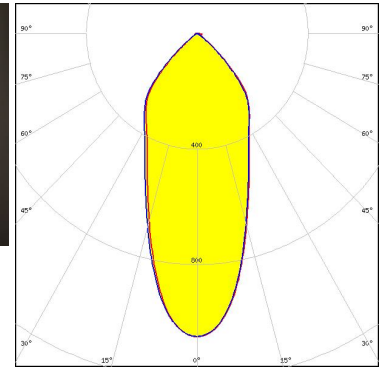
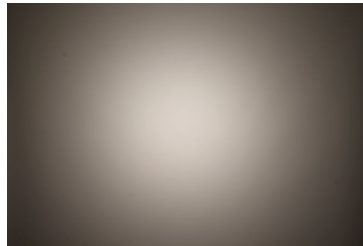


Light distribution files

### OPTICAL RESULTS (MEASURED):



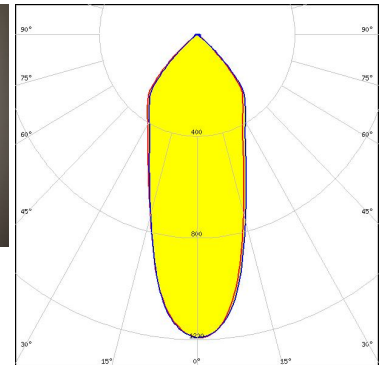
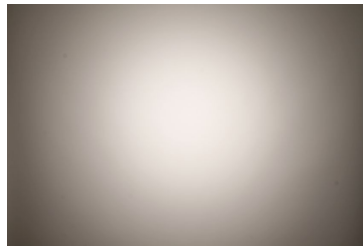
LED LUXEON CoB 1211  
 FWHM / FWTM 41.0° / 97.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



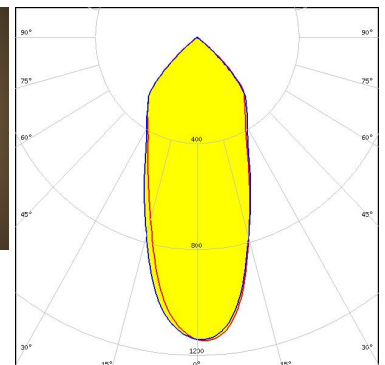
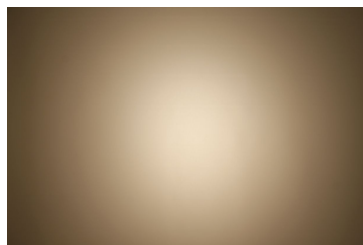
LED LUXEON CoB 1211  
 FWHM / FWTM 39.0° / 95.0°  
 Efficiency 91 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



LED LUXEON CoB 1211  
 FWHM / FWTM 42.0° / 97.0°  
 Efficiency 92 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3

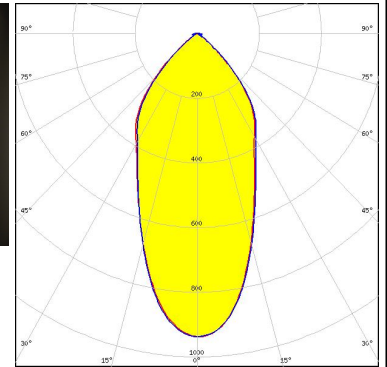
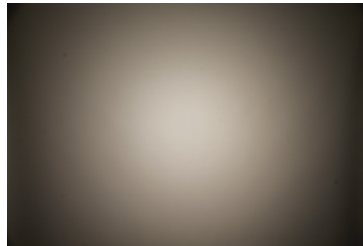


Light distribution files

### OPTICAL RESULTS (MEASURED):



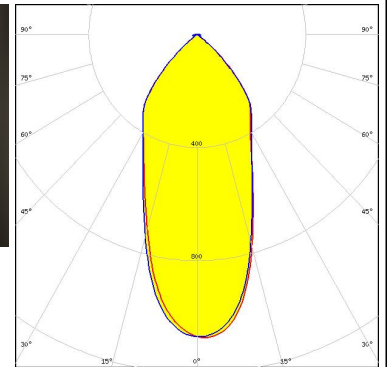
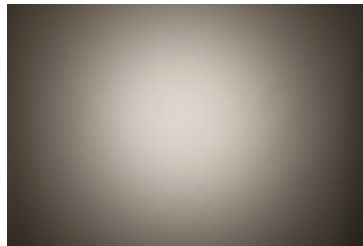
LED LUXEON CoB 1213/1216/1812  
 FWHM / FWTM 48.0° / 99.0°  
 Efficiency 87 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



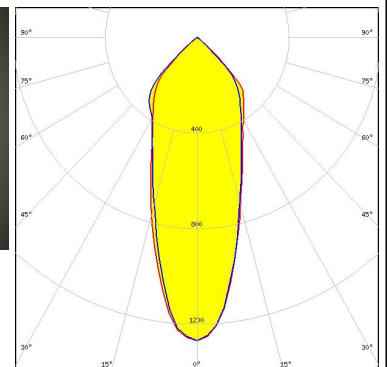
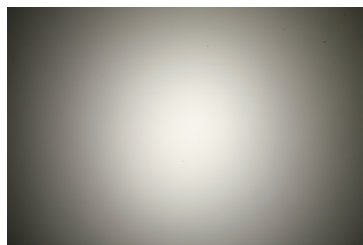
LED LUXEON CoB 1213/1216/1812  
 FWHM / FWTM 44.0° / 96.0°  
 Efficiency 91 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



LED LUXEON K12  
 FWHM / FWTM 37.0° / 96.0°  
 Efficiency 89 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

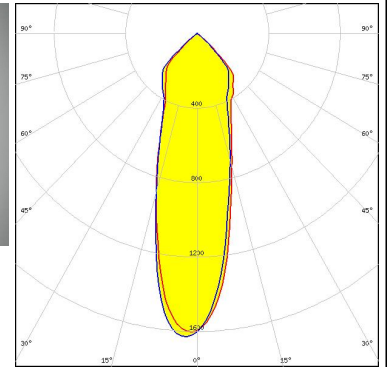
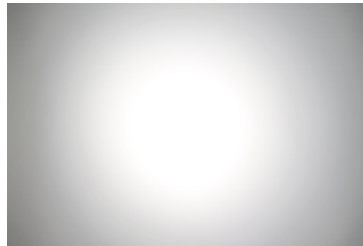
### OPTICAL RESULTS (MEASURED):



LED LUXEON K12  
 FWHM / FWTM 29.0° / 94.0°  
 Efficiency 94 %  
 Peak intensity 1.6 cd/m  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



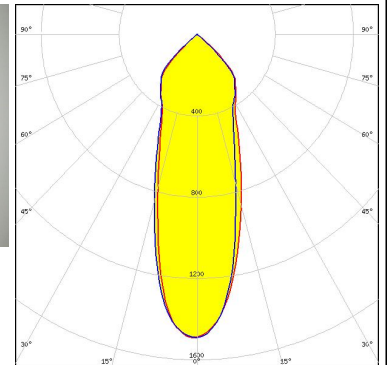
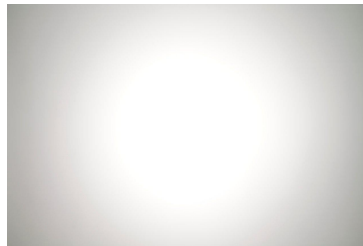
Light distribution files



LED LUXEON K16  
 FWHM / FWTM 32.0° / 95.0°  
 Efficiency 94 %  
 Peak intensity 1.5 cd/m  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

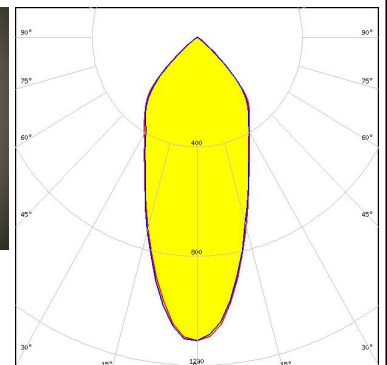


LED LUXEON K16  
 FWHM / FWTM 43.0° / 98.0°  
 Efficiency 89 %  
 Peak intensity 1.1 cd/m  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1

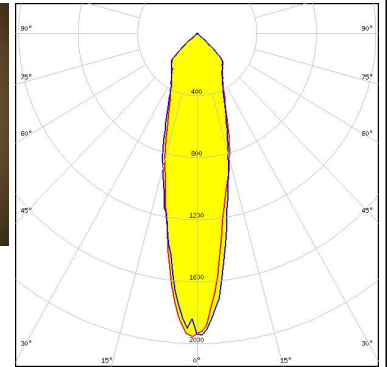


Light distribution files

### OPTICAL RESULTS (MEASURED):



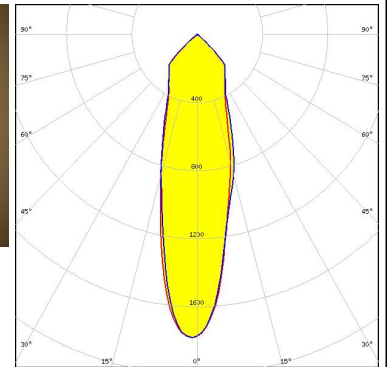
**LED** LUXEON S2000  
**FWHM / FWTM** 25.0° / 92.0°  
**Efficiency** 92 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13395\_CLAMP-S2000



Light distribution files



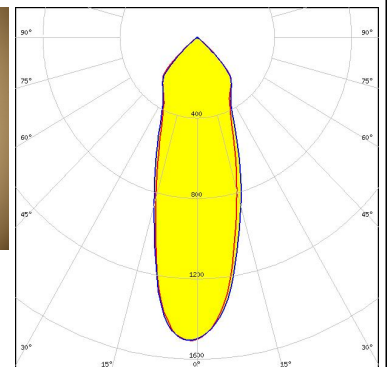
**LED** LUXEON S3000  
**FWHM / FWTM** 28.0° / 93.0°  
**Efficiency** 92 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13397\_CLAMP-S3000



Light distribution files



**LED** LUXEON S5000  
**FWHM / FWTM** 33.0° / 94.0°  
**Efficiency** 92 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13399\_CLAMP-S5000

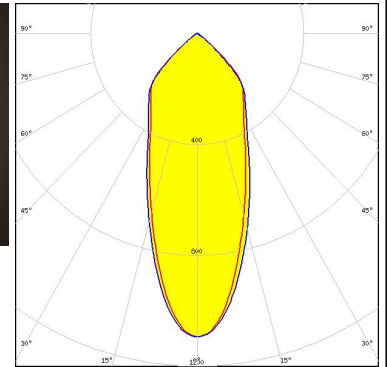
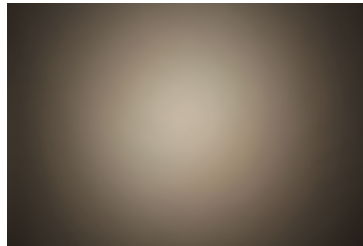


Light distribution files

### OPTICAL RESULTS (MEASURED):



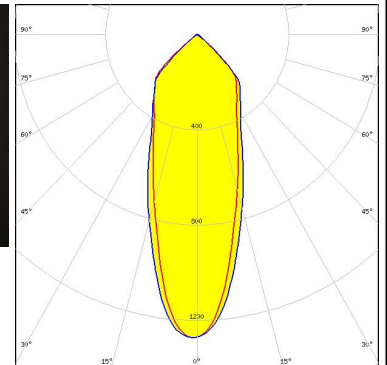
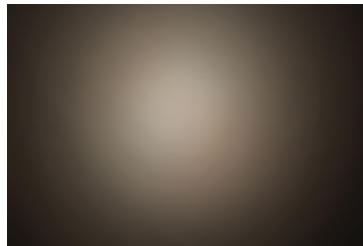
LED CDM-14 (Dim-To-Warm)  
 FWHM / FWTM 40.0° / 99.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



Light distribution files



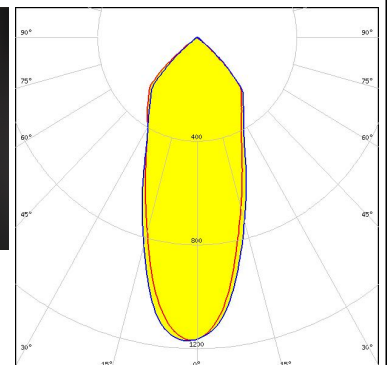
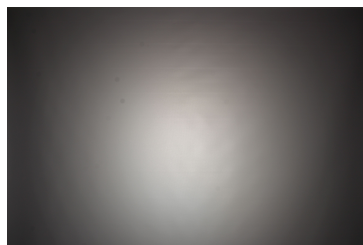
LED CDM-14 (Dim-To-Warm)  
 FWHM / FWTM 36.0° / 97.0°  
 Efficiency 92 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



Light distribution files



LED CDM-18 (Dim-To-Warm)  
 FWHM / FWTM 40.0° / 98.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



Light distribution files



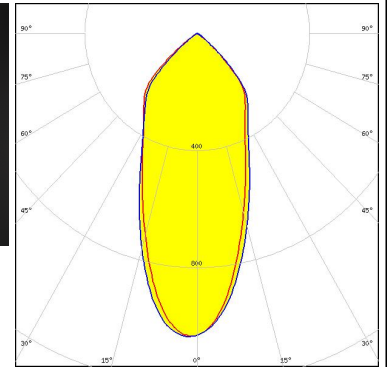
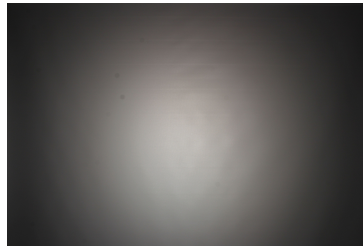
#### OPTICAL RESULTS (MEASURED):



LED CDM-18 (Dim-To-Warm)  
 FWHM / FWTM 43.0° / 99.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



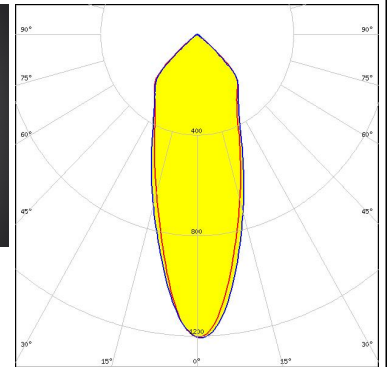
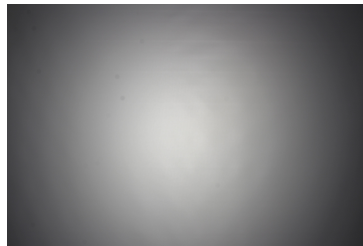
Light distribution files



LED CDM-9 (Dim-To-Warm)  
 FWHM / FWTM 36.0° / 97.0°  
 Efficiency 87 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 490 Typ L1



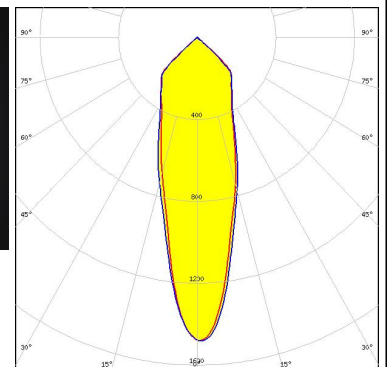
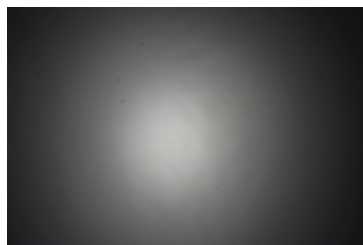
Light distribution files



LED CDM-9 (Dim-To-Warm)  
 FWHM / FWTM 30.0° / 96.0°  
 Efficiency 91 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18  
 Bender Wirth: 490 Typ L1

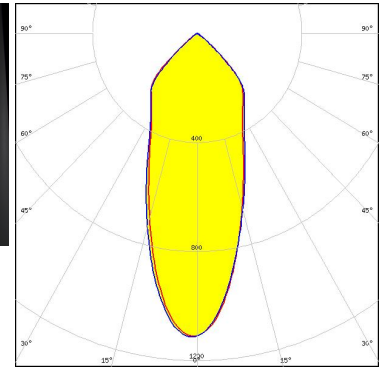


Light distribution files

### OPTICAL RESULTS (MEASURED):



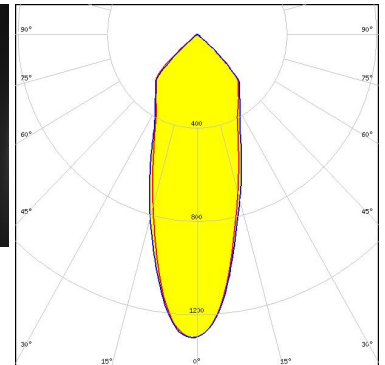
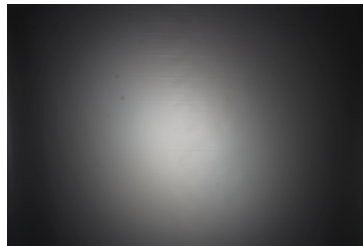
**LED** CTM-14 (Tunable White)  
**FWHM / FWTM** 39.0° / 98.0°  
**Efficiency** 86 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 442 Typ L3



Light distribution files



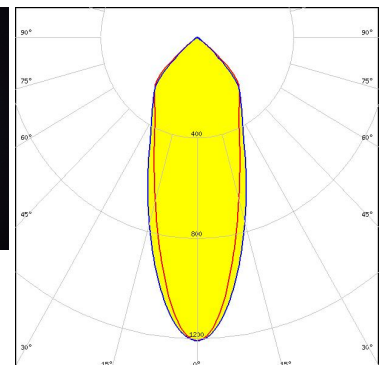
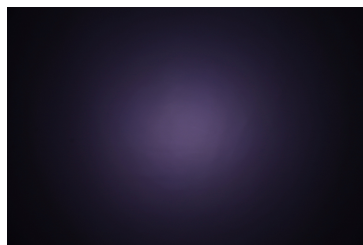
**LED** CTM-14 (Tunable White)  
**FWHM / FWTM** 35.0° / 96.0°  
**Efficiency** 91 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 442 Typ L3



Light distribution files



**LED** CTM-14 RGBW  
**FWHM / FWTM** 37.0° / 97.0°  
**Efficiency** 89 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** RGBW  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 500 Typ L3-1



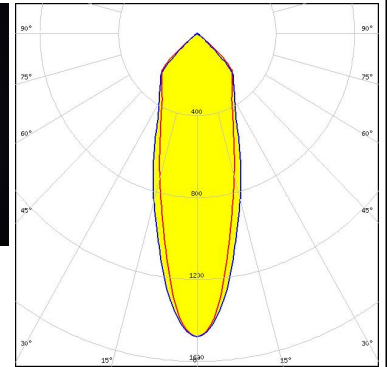
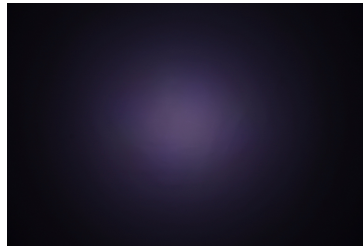
Light distribution files



#### OPTICAL RESULTS (MEASURED):



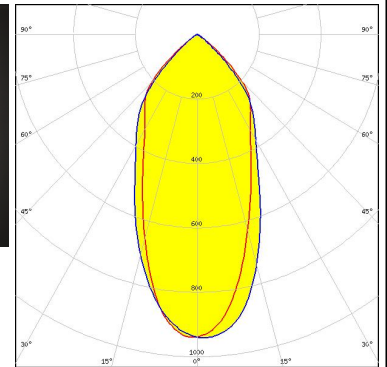
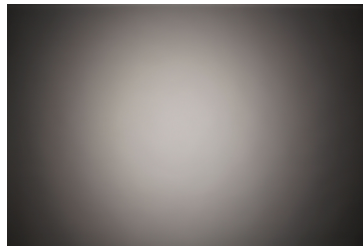
LED CTM-14 RGBW  
 FWHM / FWTM 33.0° / 96.0°  
 Efficiency 93 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type RGBW  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 500 Typ L3-1



Light distribution files



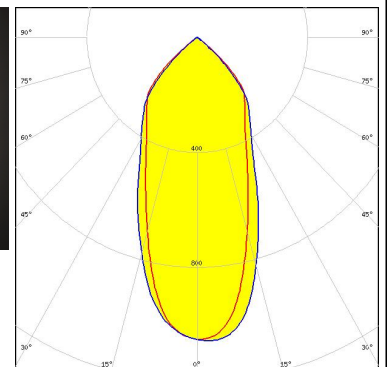
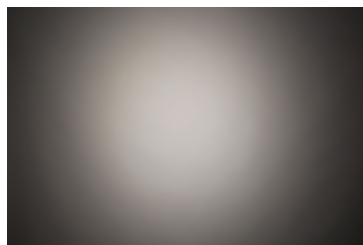
LED CTM-22 (Tunable White)  
 FWHM / FWTM 47.0° / 100.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 494 Typ L3



Light distribution files



LED CTM-22 (Tunable White)  
 FWHM / FWTM 44.0° / 98.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



Light distribution files

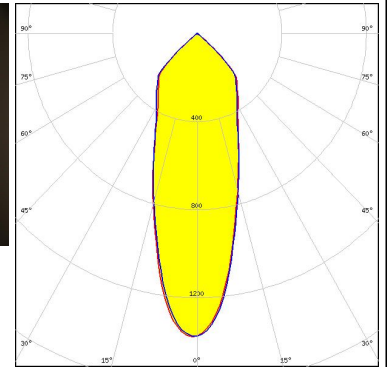
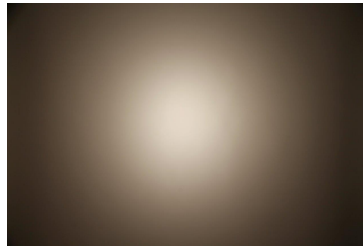
### OPTICAL RESULTS (MEASURED):



LED CxM-14 (19x19)  
FWHM / FWTM 34.0° / 96.0°  
Efficiency 93 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



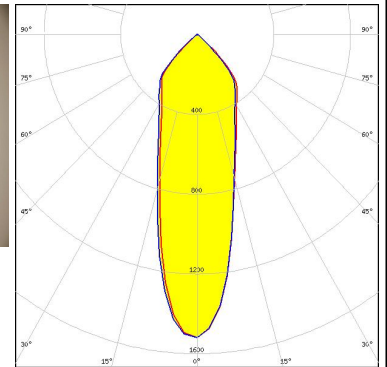
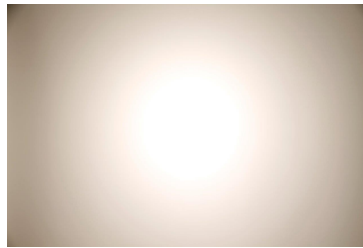
Light distribution files



LED COB J-Type  
FWHM / FWTM 31.0° / 93.0°  
Efficiency 94 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

IDEAL: 50-2103NC + 50-2100AN



Light distribution files

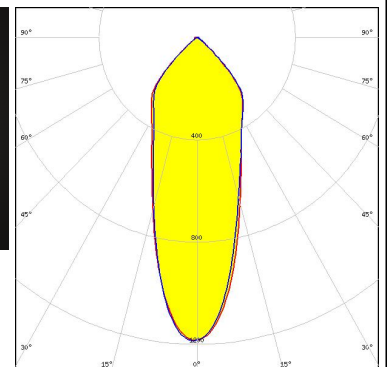
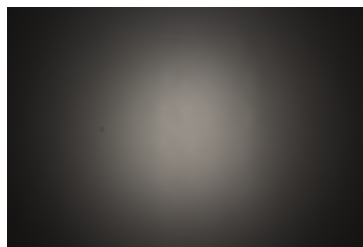


LED COB J-Type  
FWHM / FWTM 36.0° / 95.0°  
Efficiency 87 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

IDEAL: 50-2103NC + 50-2100AN

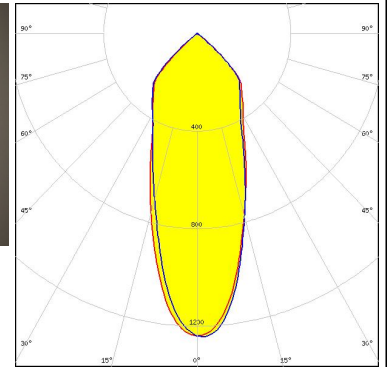
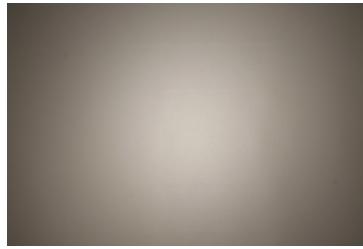


Light distribution files

### OPTICAL RESULTS (MEASURED):



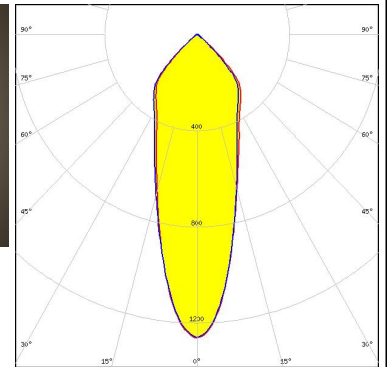
LED COB J-Type  
FWHM / FWTM 38.0° / 97.0°  
Efficiency 92 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 463 Typ L2



Light distribution files



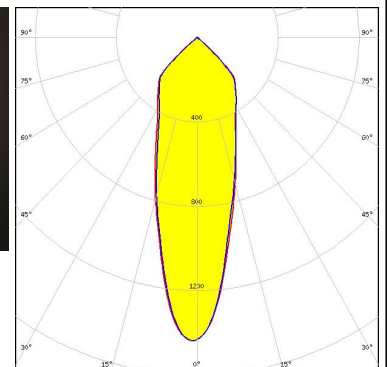
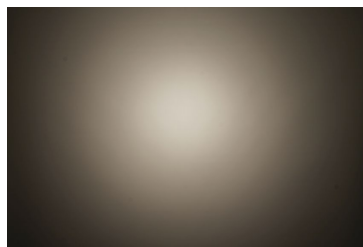
LED COB L-Type (LES 11)  
FWHM / FWTM 32.0° / 95.0°  
Efficiency 86 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F13671\_ANGE-RZ-LENS  
IDEAL: 50-2100NC + 50-2100AN



Light distribution files



LED COB L-Type (LES 11)  
FWHM / FWTM 31.0° / 95.0°  
Efficiency 91 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

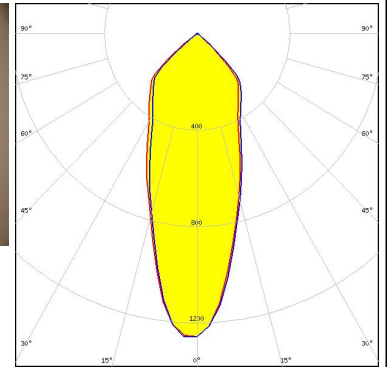
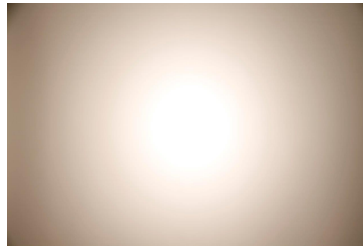


Light distribution files

### OPTICAL RESULTS (MEASURED):



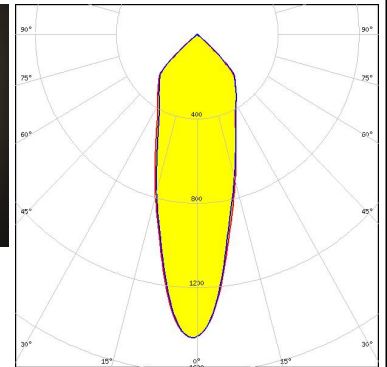
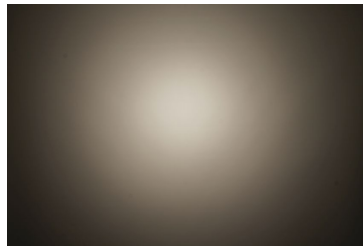
**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 27.0° / 92.0°  
**Efficiency** 91 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 IDEAL: 50-2100NC + 50-2100AN



Light distribution files



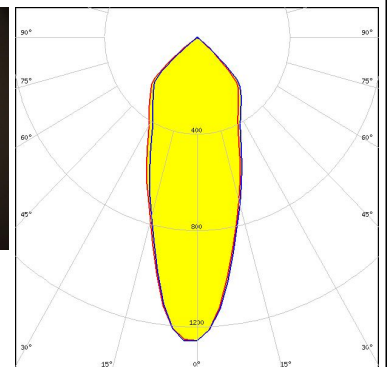
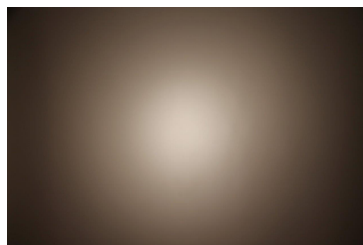
**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 32.0° / 95.0°  
**Efficiency** 91 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 37.0° / 98.0°  
**Efficiency** 94 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Molex: 180580-0005

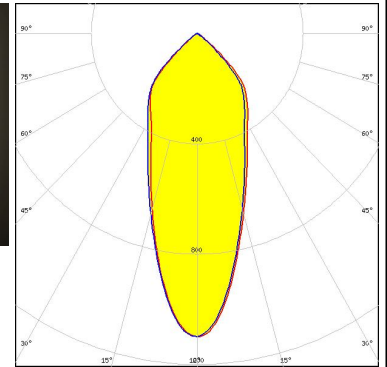
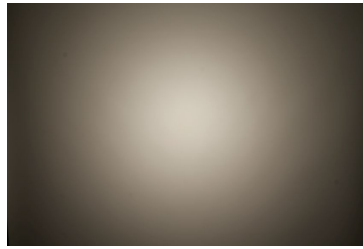


Light distribution files

### OPTICAL RESULTS (MEASURED):



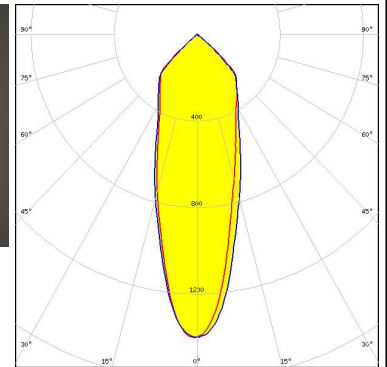
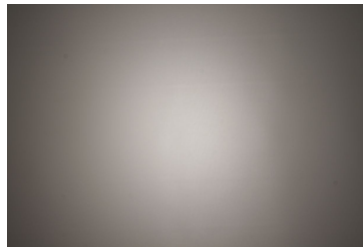
**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 39.0° / 98.0°  
**Efficiency** 86 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



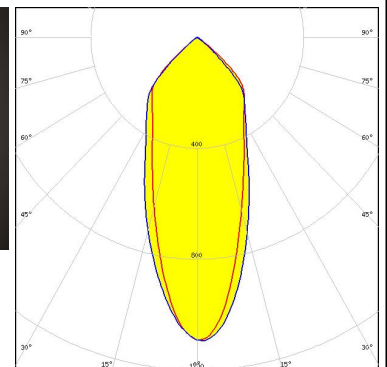
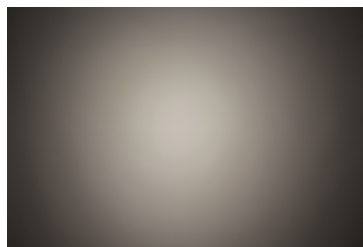
**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 32.0° / 36.0°  
**Efficiency** 92 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



Light distribution files



**LED** NVCWJ024Z-V1MT: COB J-Type Tunable White  
**FWHM / FWTM** 42.0° / 101.0°  
**Efficiency** 87 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 498 Typ L2

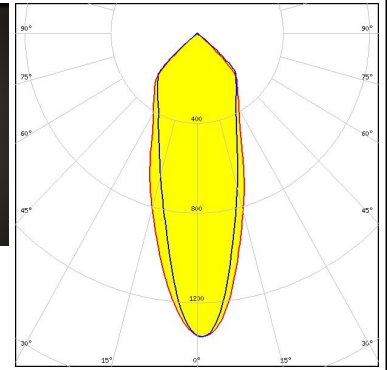


Light distribution files

### OPTICAL RESULTS (MEASURED):



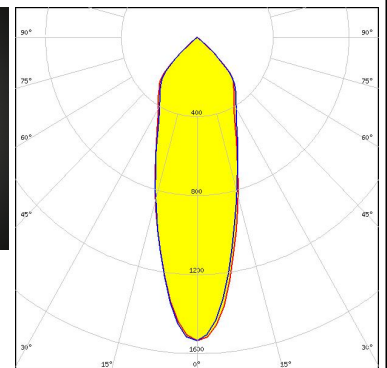
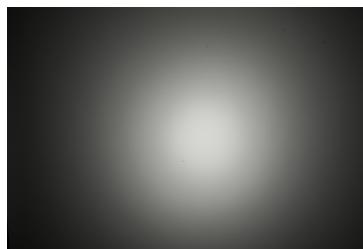
**LED** NVCWJ024Z-V1MT: COB J-Type Tunable White  
**FWHM / FWTM** 38.0° / 98.0°  
**Efficiency** 92 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 498 Typ L2



Light distribution files



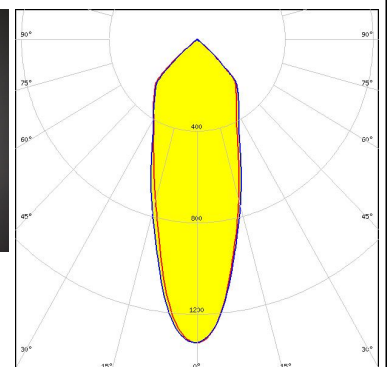
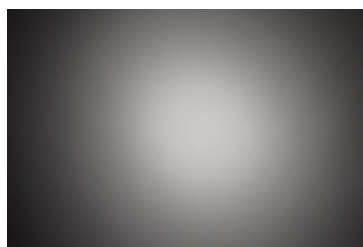
**LED** Soleriq S13  
**FWHM / FWTM** 34.0° / 95.0°  
**Efficiency** 94 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



**LED** Soleriq S13  
**FWHM / FWTM** 34.0° / 97.0°  
**Efficiency** 92 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



Light distribution files



### OPTICAL RESULTS (MEASURED):

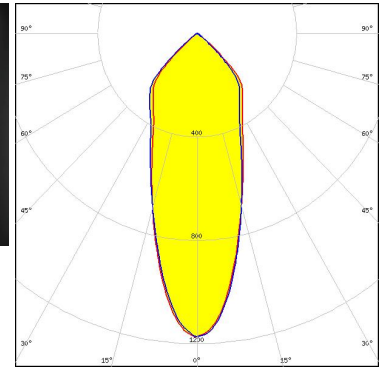
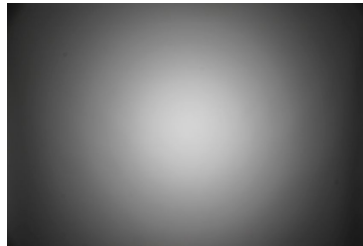
**OSRAM**  
Opto Semiconductors

LED Soleriq S13 19x19  
FWHM / FWTM 37.0° / 97.0°  
Efficiency 87 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



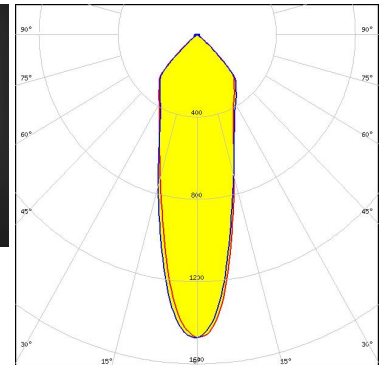
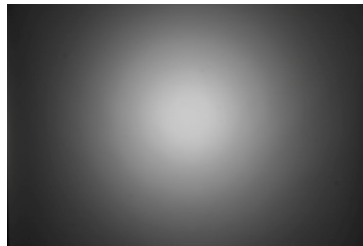
Light distribution files

**OSRAM**  
Opto Semiconductors

LED Soleriq S13 19x19  
FWHM / FWTM 30.0° / 93.0°  
Efficiency 91 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

IDEAL: 50-2103CT + 50-2100AN



Light distribution files

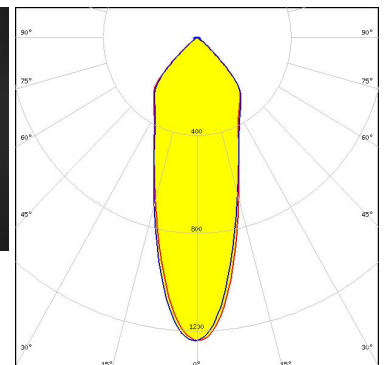
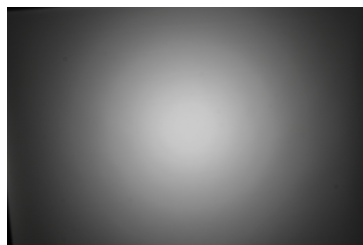
**OSRAM**  
Opto Semiconductors

LED Soleriq S13 19x19  
FWHM / FWTM 34.0° / 95.0°  
Efficiency 87 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

IDEAL: 50-2103CT + 50-2100AN



Light distribution files

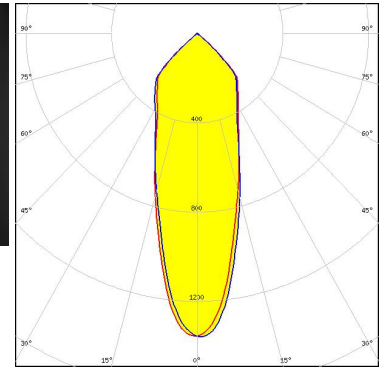
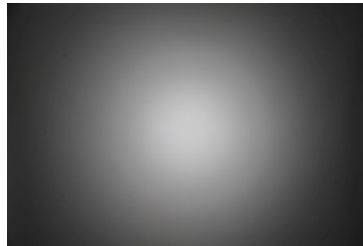
### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED Soleriq S13 19x19  
FWHM / FWTM 34.0° / 96.0°  
Efficiency 93 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



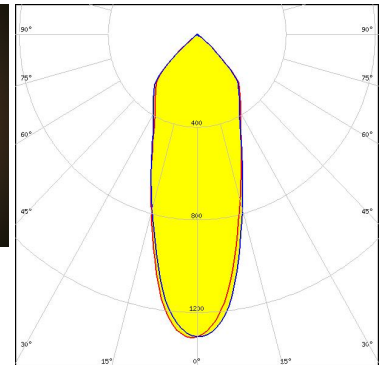
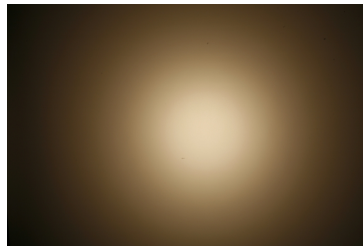
Light distribution files

**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM / FWTM 37.0° / 96.0°  
Efficiency 93 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

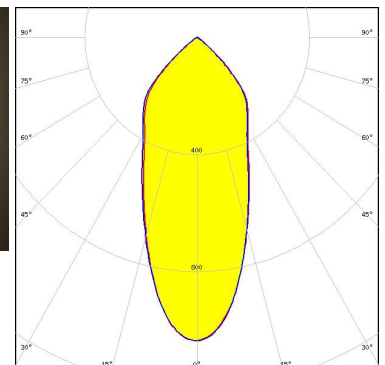
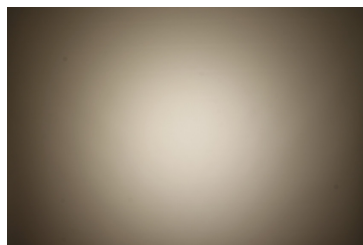
**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM / FWTM 43.0° / 98.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1

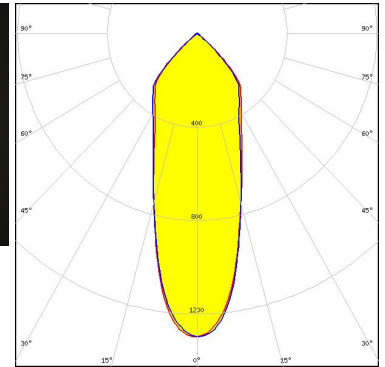
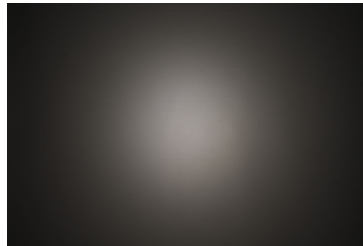


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

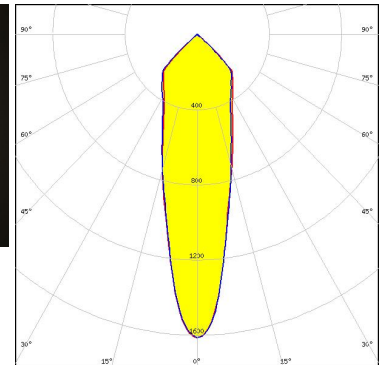
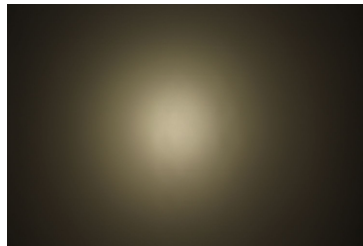
LED Soleriq S19  
 FWHM / FWTM 35.0° / 95.0°  
 Efficiency 91 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 462 Typ L3



Light distribution files

**PHILIPS**

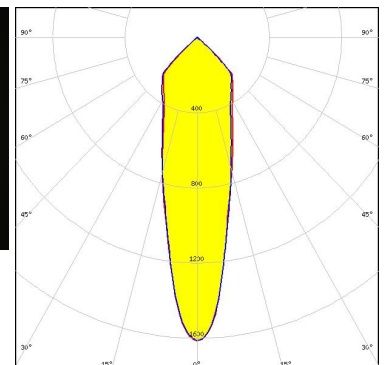
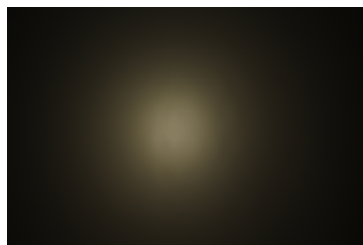
LED Fortimo SLM L09 + SLM holder  
 FWHM / FWTM 27.0° / 94.0°  
 Efficiency 92 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

**PHILIPS**

LED Fortimo SLM L09 + SLM holder  
 FWHM / FWTM 27.0° / 94.0°  
 Efficiency 92 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

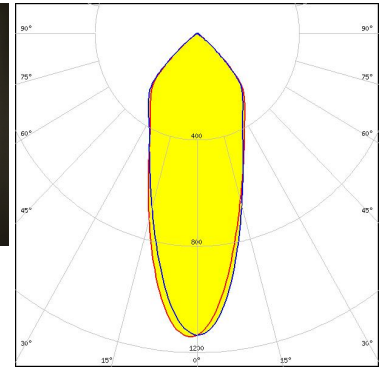
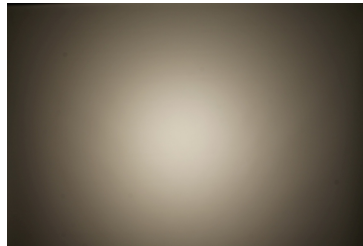


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

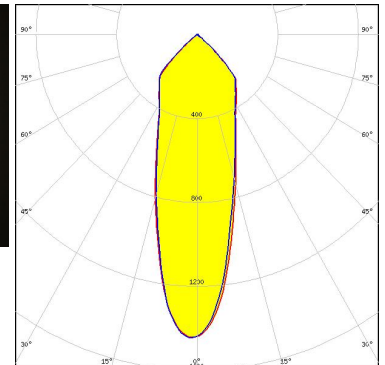
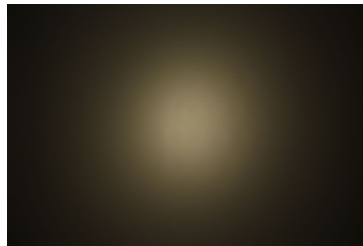
LED Fortimo SLM L13 + SLM holder  
 FWHM / FWTM 38.0° / 97.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

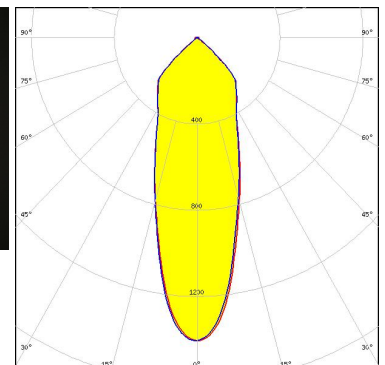
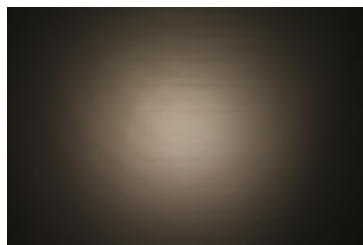
LED Fortimo SLM L13 + SLM holder  
 FWHM / FWTM 32.0° / 94.0°  
 Efficiency 91 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM / FWTM 34.0° / 96.0°  
 Efficiency 94 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

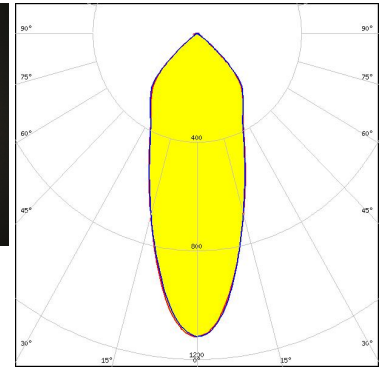


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

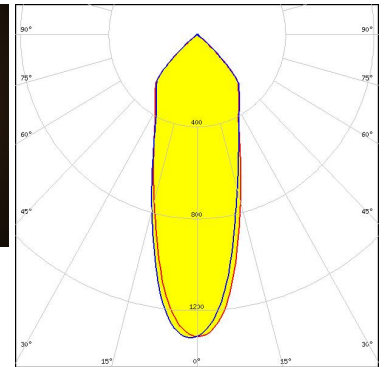
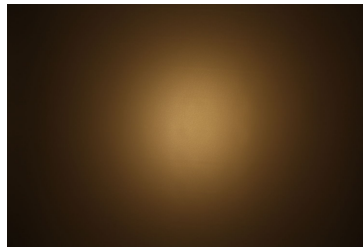
LED Fortimo SLM L13 CoB  
 FWHM / FWTM 38.0° / 98.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

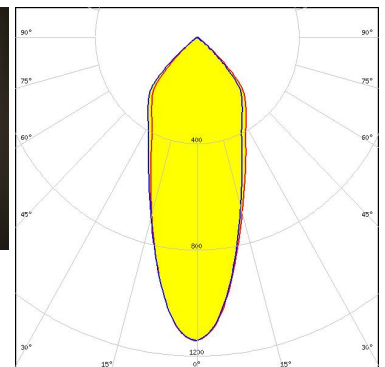
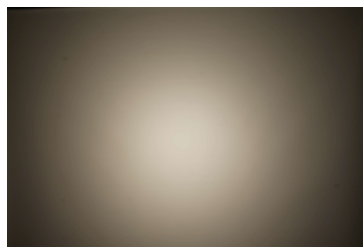
LED Fortimo SLM L15 + SLM holder  
 FWHM / FWTM 35.0° / 95.0°  
 Efficiency 90 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

LED Fortimo SLM L15 + SLM holder  
 FWHM / FWTM 37.0° / 97.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

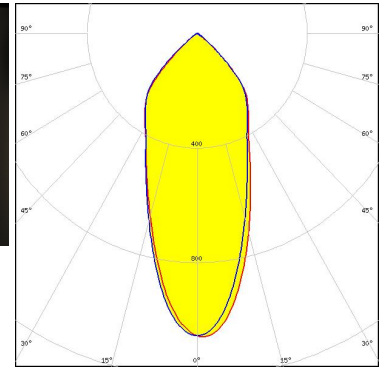
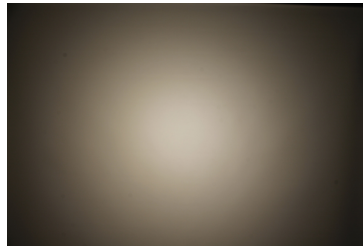


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

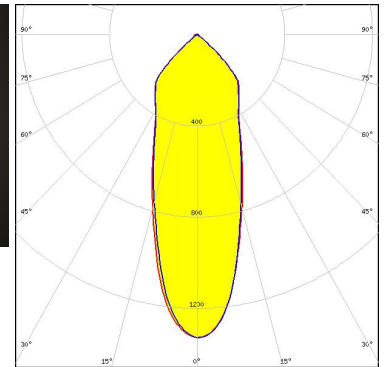
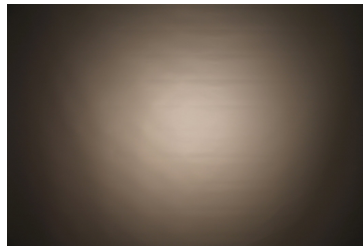
LED Fortimo SLM L15 + SLM holder  
 FWHM / FWTM 41.0° / 97.0°  
 Efficiency 86 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

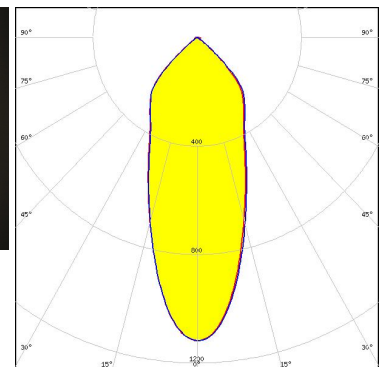
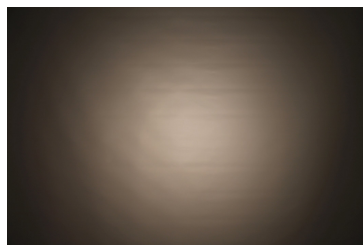
LED Fortimo SLM L15 CoB  
 FWHM / FWTM 36.0° / 96.0°  
 Efficiency 93 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM / FWTM 39.0° / 98.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



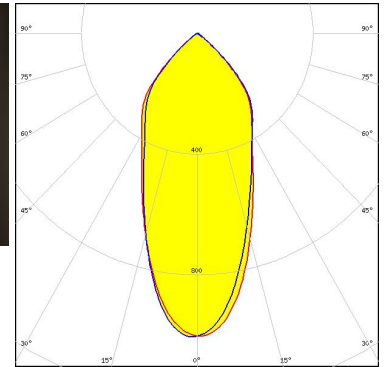
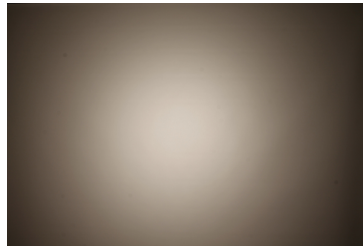
Light distribution files



#### OPTICAL RESULTS (MEASURED):

### PHILIPS

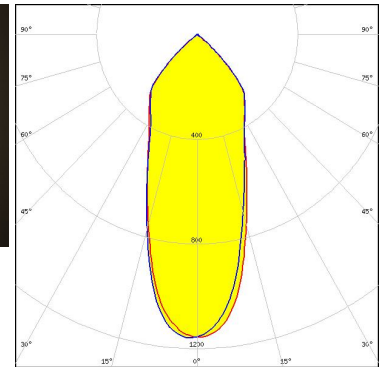
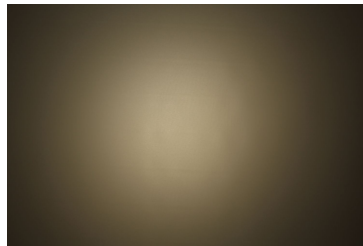
LED Fortimo SLM L19 + SLM holder  
 FWHM / FWTM 44.0° / 98.0°  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

### PHILIPS

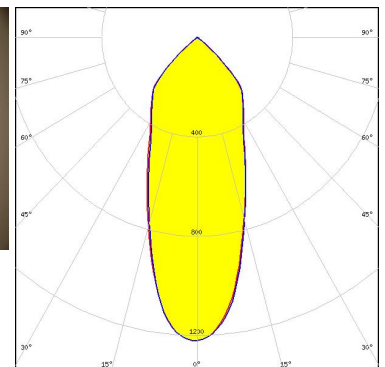
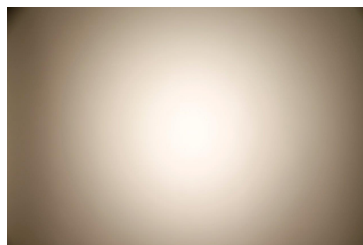
LED Fortimo SLM L19 + SLM holder  
 FWHM / FWTM 40.0° / 96.0°  
 Efficiency 89 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

### SAMSUNG

LED LC026B / 033B / 040B  
 FWHM / FWTM 39.0° / 97.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1

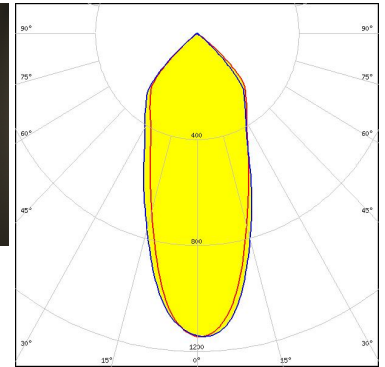
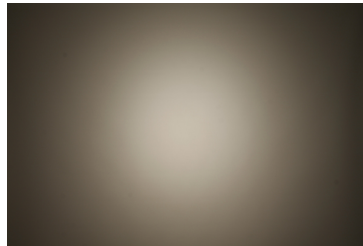


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

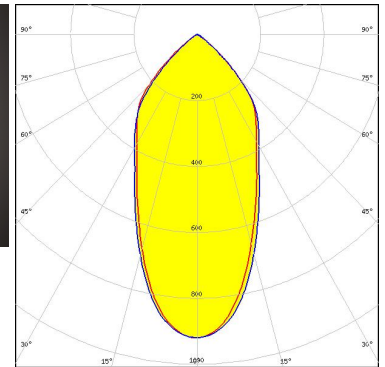
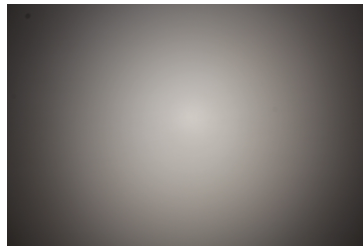
LED LC026B / 033B / 040B  
FWHM / FWTM 41.0° / 98.0°  
Efficiency 92 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 450 Typ L2



Light distribution files

#### SAMSUNG

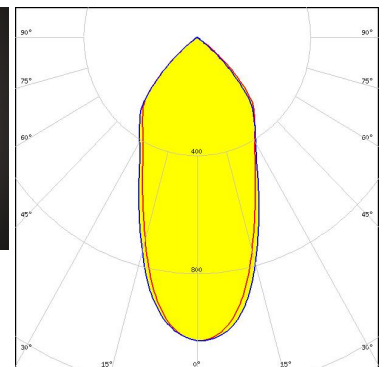
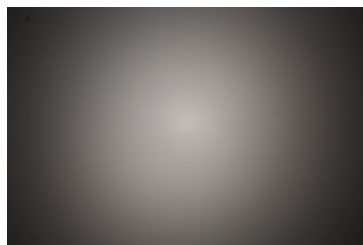
LED LC035T (Tunable white)  
FWHM / FWTM 50.0° / 101.0°  
Efficiency 88 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 502 Typ L3



Light distribution files

#### SAMSUNG

LED LC035T (Tunable white)  
FWHM / FWTM 47.0° / 97.0°  
Efficiency 93 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 502 Typ L3

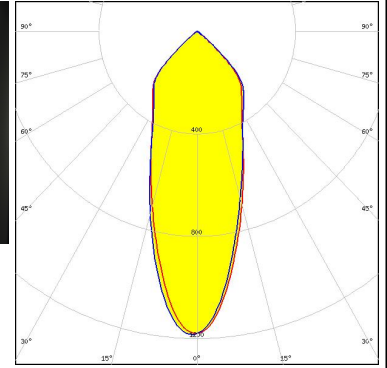


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

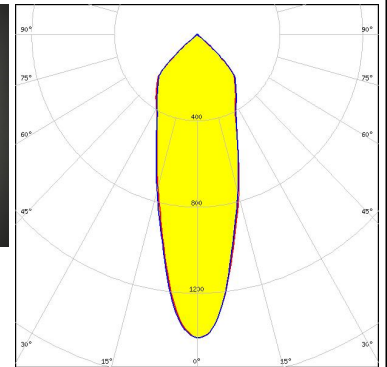
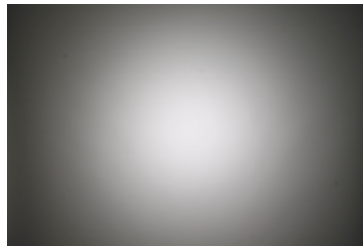
LED LC040C  
 FWHM / FWTM 37.0° / 97.0°  
 Efficiency 88 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### SAMSUNG

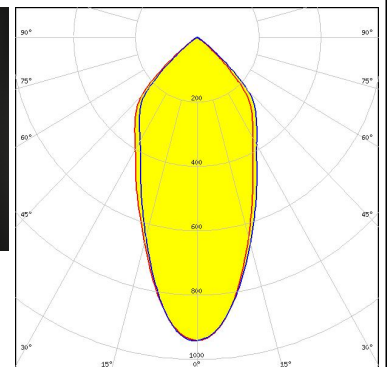
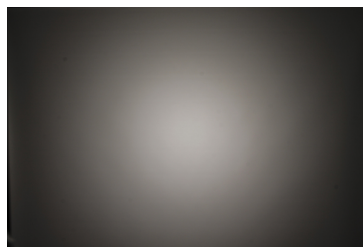
LED LC040C  
 FWHM / FWTM 32.0° / 95.0°  
 Efficiency 91 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

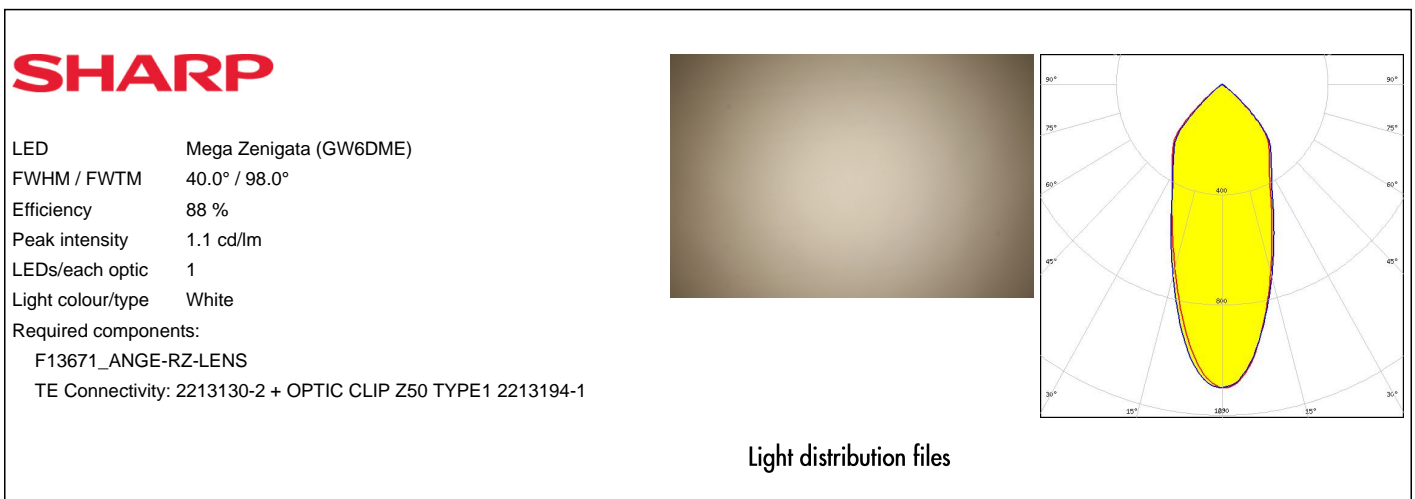
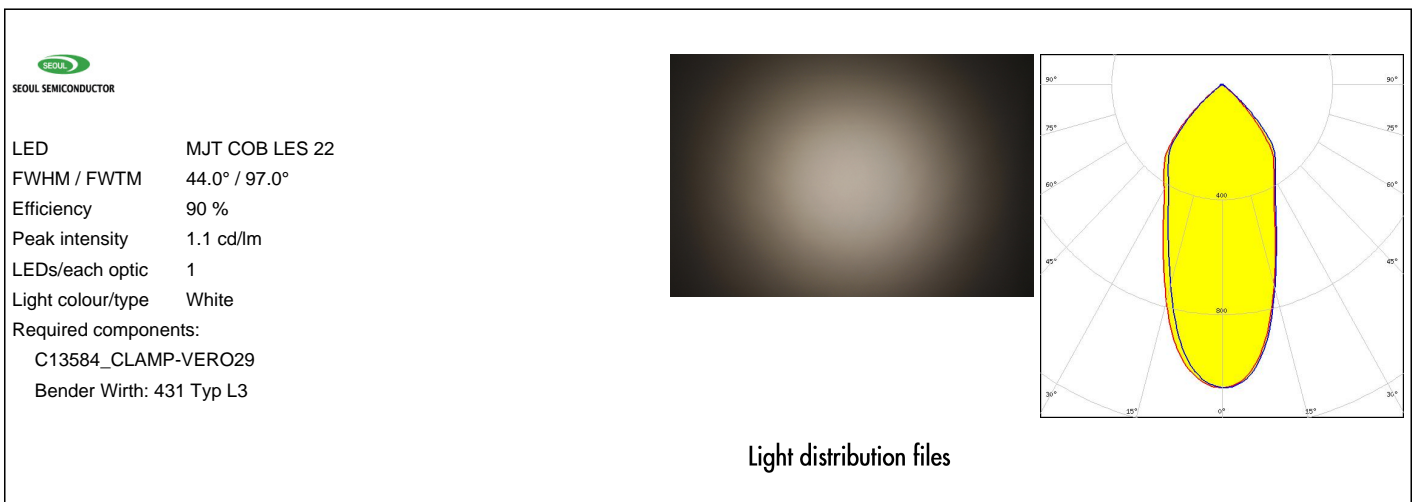
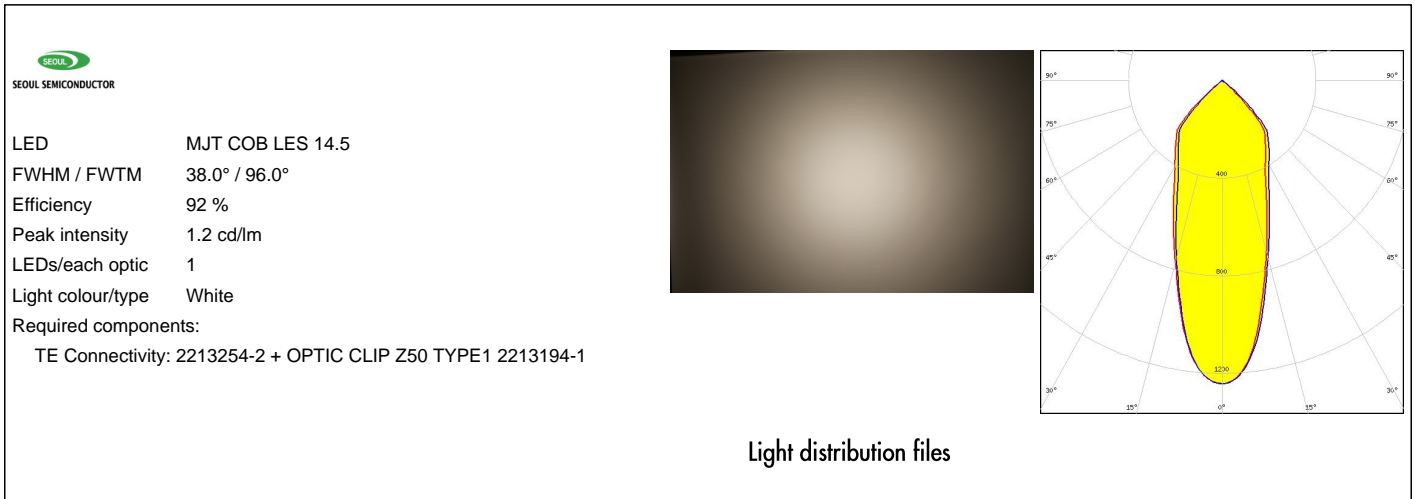


LED AC Zhaga COB  
 FWHM / FWTM 47.0° / 101.0°  
 Efficiency 88 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 Optosource: SEHSMJD-A



Light distribution files

### OPTICAL RESULTS (MEASURED):



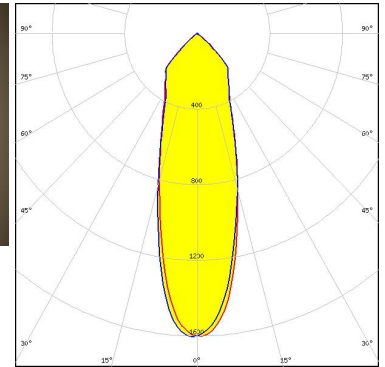
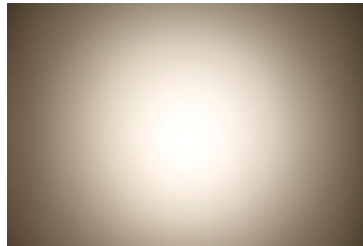
### OPTICAL RESULTS (MEASURED):

#### SHARP

LED Mega Zenigata (GW6DME)  
 FWHM / FWTM 32.0° / 93.0°  
 Efficiency 92 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



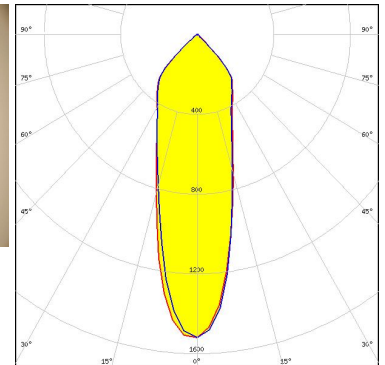
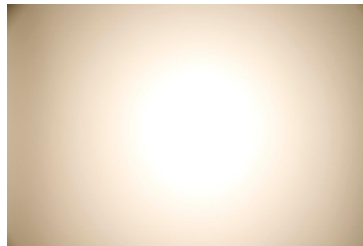
Light distribution files

#### SHARP

LED Mega Zenigata (GW6DME)  
 FWHM / FWTM 30.0° / 92.0°  
 Efficiency 93 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2100SH + 50-2100AN



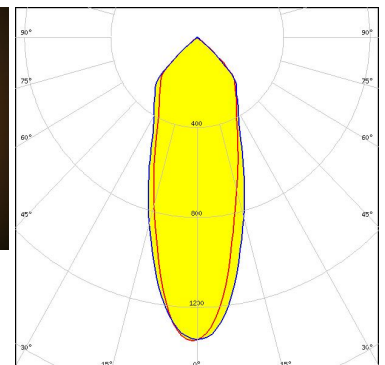
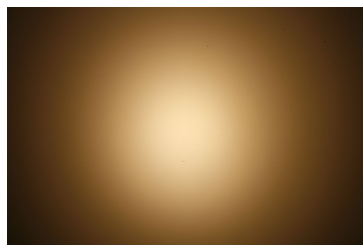
Light distribution files

#### VS LIGHTING SOLUTIONS

LED WU-M-461  
 FWHM / FWTM 35.0° / 96.0°  
 Efficiency 93 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

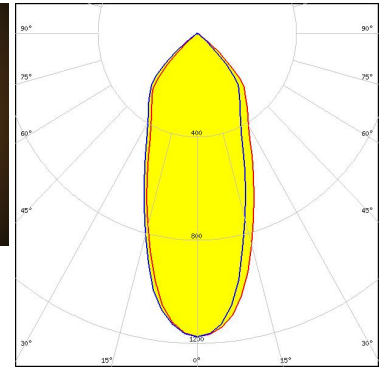
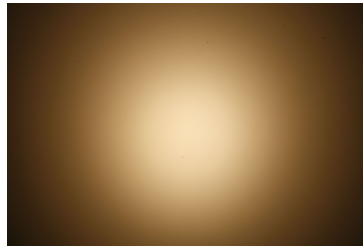


Light distribution files

### OPTICAL RESULTS (MEASURED):



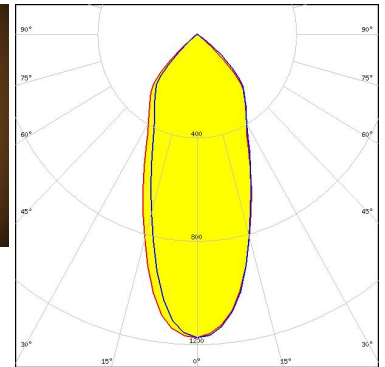
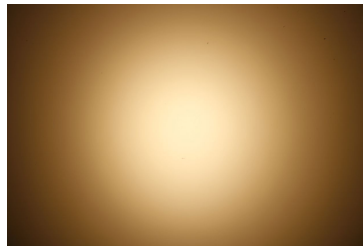
LED WU-M-462  
 FWHM / FWTM 42.0° / 98.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



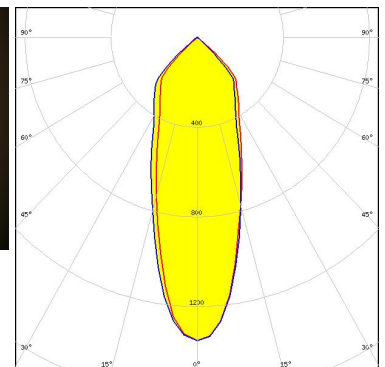
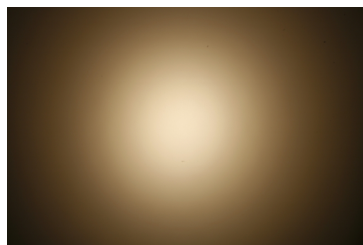
LED WU-M-464  
 FWHM / FWTM 42.0° / 97.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED WU-M-484  
 FWHM / FWTM 36.0° / 96.0°  
 Efficiency 93 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



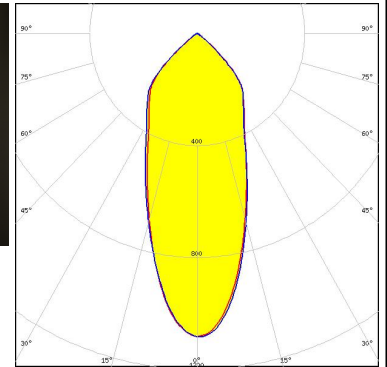
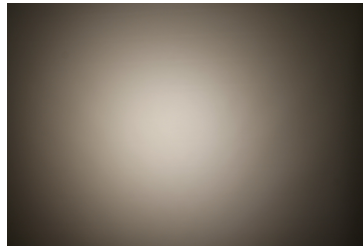
Light distribution files



### OPTICAL RESULTS (MEASURED):



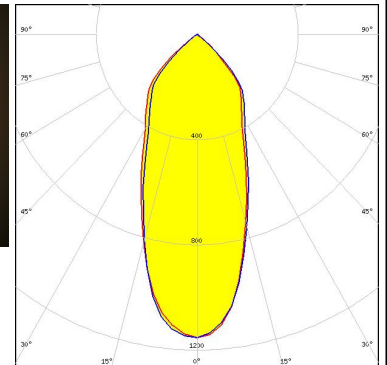
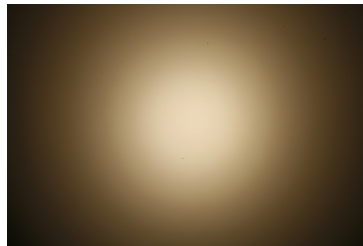
**LED** WU-M-484  
**FWHM / FWTM** 40.0° / 98.0°  
**Efficiency** 86 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



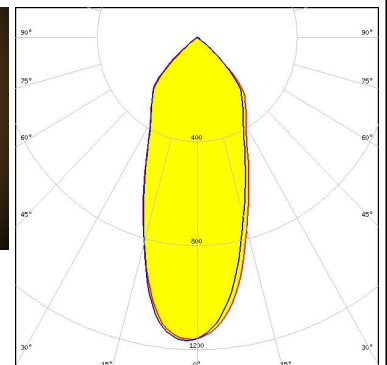
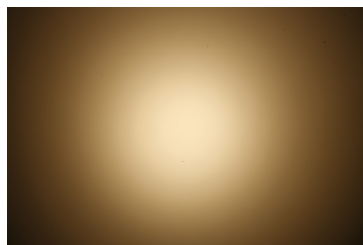
**LED** WU-M-485  
**FWHM / FWTM** 43.0° / 98.0°  
**Efficiency** 93 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



**LED** WU-M-486  
**FWHM / FWTM** 42.0° / 98.0°  
**Efficiency** 92 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

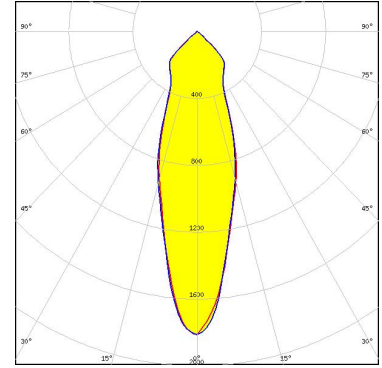
### OPTICAL RESULTS (SIMULATED):



LED V10 Gen7  
 FWHM / FWTM 31.0° / 93.0°  
 Efficiency 93 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:  
 C13658\_CLAMP-VERO13-18

Bender Wirth: 486 Typ L1



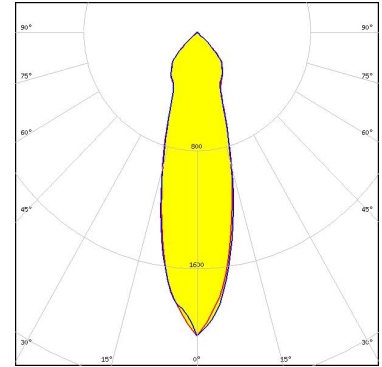
Light distribution files



LED V13 Gen7  
 FWHM / FWTM 28.0° / 88.0°  
 Efficiency 93 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2103CT + 50-2100AN



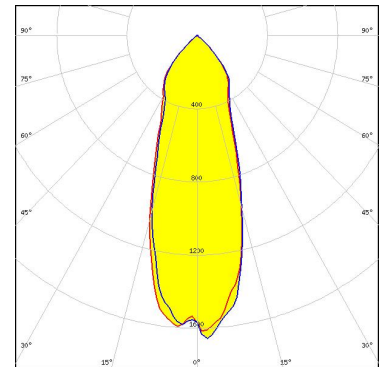
Light distribution files



LED V22 Gen7  
 FWHM / FWTM 34.0° / 88.0°  
 Efficiency 94 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White


Required components:


IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

### OPTICAL RESULTS (SIMULATED):

	
LED	CxM-14 (19x19)
FWHM / FWTM	37.0° / 97.0°
Efficiency	91 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components: C13658_CLAMP-VERO13-18	
Bender Wirth: 433 Typ L1	Light distribution files

	
LED	CxM-9 (13.5x13.5)
FWHM / FWTM	31.0° / 96.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components: C13658_CLAMP-VERO13-18	
Bender Wirth: 434 Typ L1	Light distribution files

 SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM / FWTM	37.0° / 97.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components: C13658_CLAMP-VERO13-18	
Bender Wirth: 433 Typ L1	

## OPTICAL RESULTS (SIMULATED):



SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	31.0° / 96.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658\_CLAMP-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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