

## ANGELA-W

~45° wide beam

### SPECIFICATION:

Dimensions	Ø 119.5
Height	74.3 mm
Fastening	socket
ROHS compliant	yes ⓘ

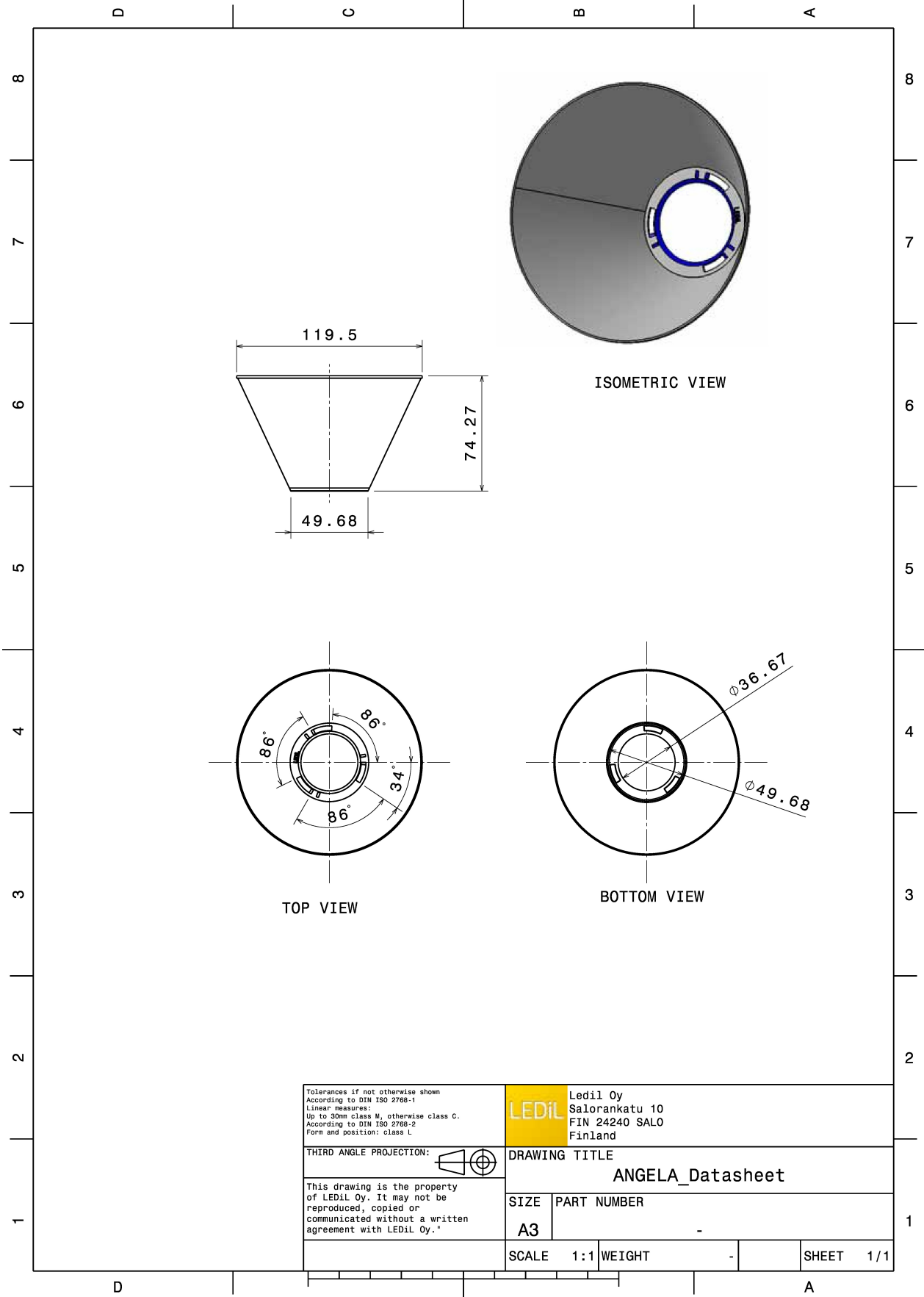
### MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELA-W	Reflector	PC	metal		HMDS



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13381_ANGELA-W » Box size: 398 x 298 x 265 mm	180	90	45	9.1



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



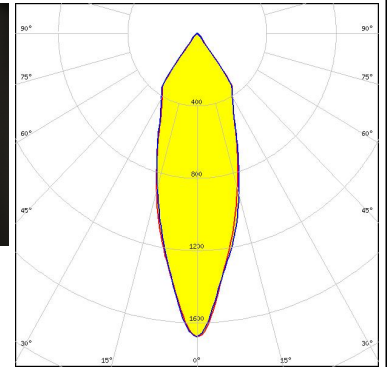
### OPTICAL RESULTS (MEASURED):

bridgelux

LED V10 Gen7  
 FWHM / FWTM 33.0° / 74.0°  
 Efficiency 82 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



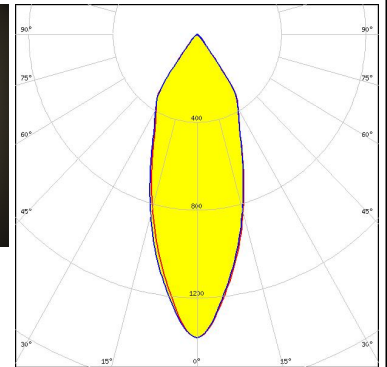
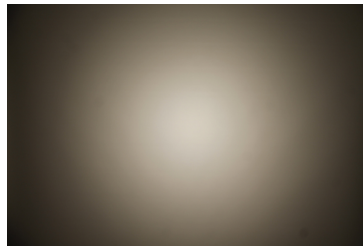
Light distribution files

bridgelux

LED V10 Gen7  
 FWHM / FWTM 37.0° / 76.0°  
 Efficiency 78 %  
 Peak intensity 1.4 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



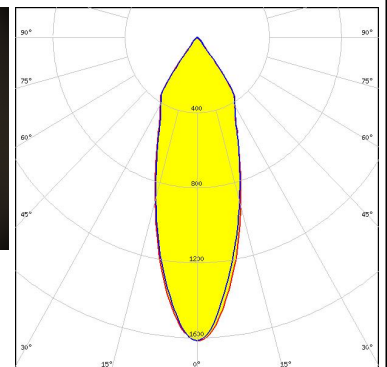
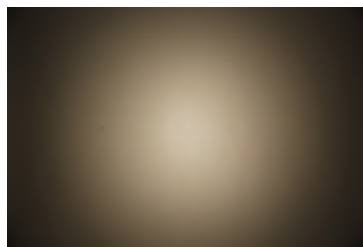
Light distribution files

bridgelux

LED V13 Gen7  
 FWHM / FWTM 34.0° / 75.0°  
 Efficiency 83 %  
 Peak intensity 1.6 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

### OPTICAL RESULTS (MEASURED):

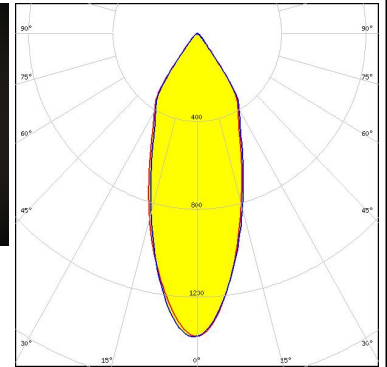
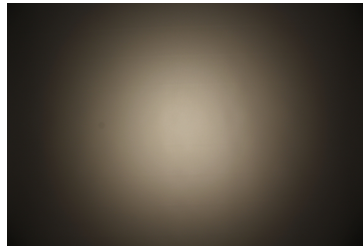


LED V13 Gen7  
 FWHM / FWTM 37.0° / 76.0°  
 Efficiency 78 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

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



Light distribution files

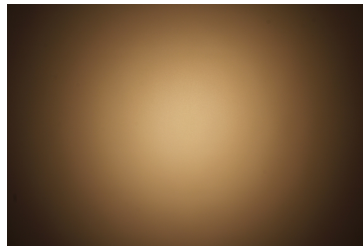


LED V15 Gen6  
 FWHM / FWTM 35.0° / 78.0°  
 Efficiency 84 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18

Bender Wirth: 456 Typ L2



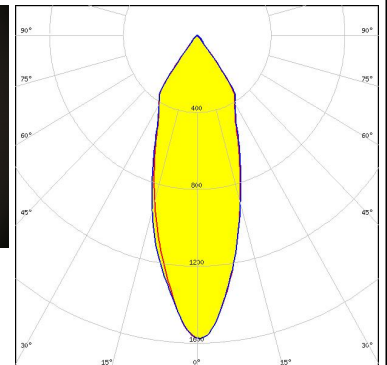
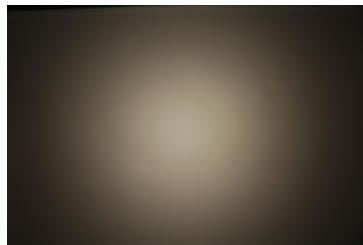
Light distribution files



LED Vero SE 13  
 FWHM / FWTM 34.0° / 75.0°  
 Efficiency 83 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C16402\_CLAMP-VEROSE-13-18

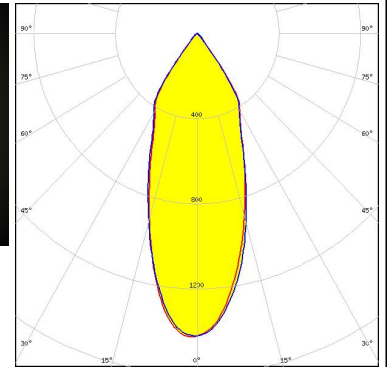
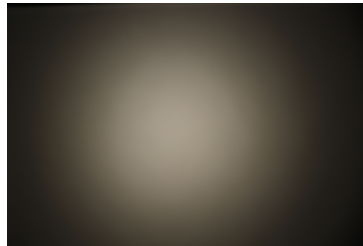


Light distribution files

### OPTICAL RESULTS (MEASURED):



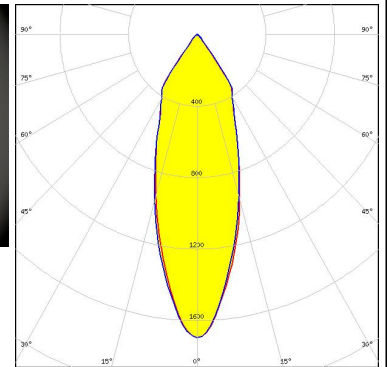
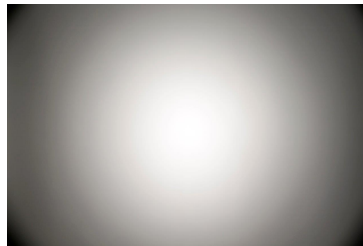
**LED** Vero SE 18  
**FWHM / FWTM** 39.0° / 76.0°  
**Efficiency** 82 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16402\_CLAMP-VEROSE-13-18



Light distribution files



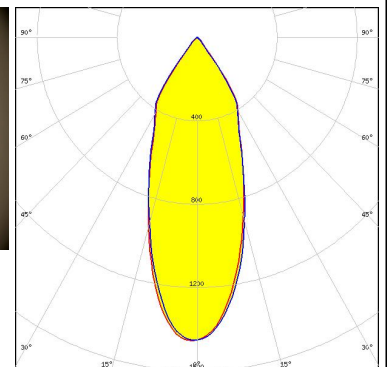
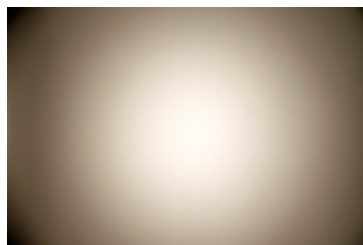
**LED** VERO13  
**FWHM / FWTM** 33.0° / 75.0°  
**Efficiency** 86 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18



Light distribution files



**LED** VERO18  
**FWHM / FWTM** 38.0° / 76.0°  
**Efficiency** 84 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18

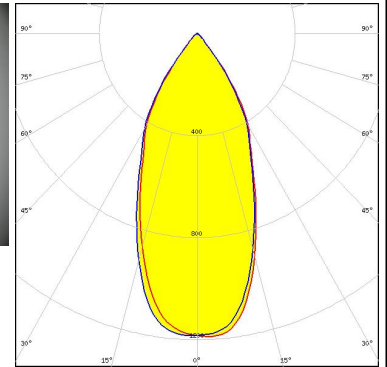
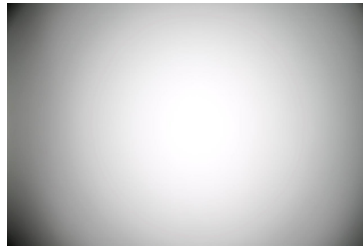


Light distribution files

### OPTICAL RESULTS (MEASURED):



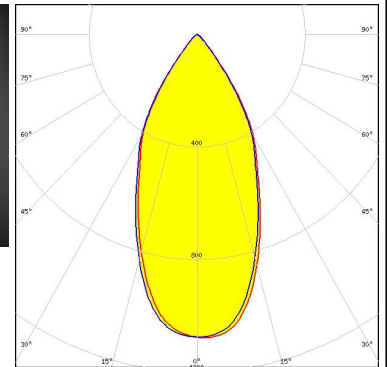
**LED** VERO29  
**FWHM / FWTM** 46.0° / 80.0°  
**Efficiency** 82 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29



Light distribution files



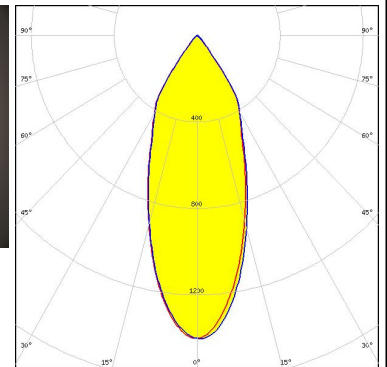
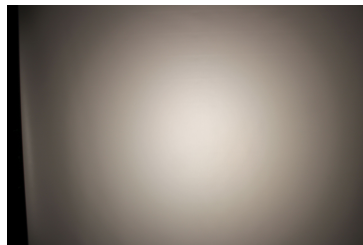
**LED** VERO29  
**FWHM / FWTM** 48.0° / 81.0°  
**Efficiency** 78 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS



Light distribution files



**LED** Vesta TW 15mm DP  
**FWHM / FWTM** 40.0° / 76.0°  
**Efficiency** 82 %  
**Peak intensity** 1.4 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

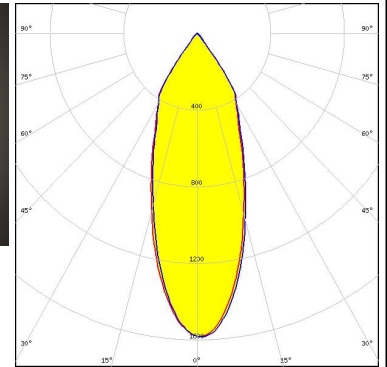
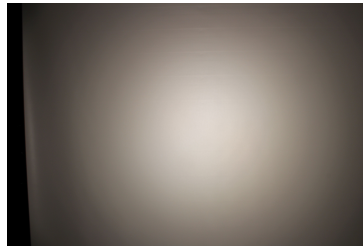


Light distribution files

#### OPTICAL RESULTS (MEASURED):



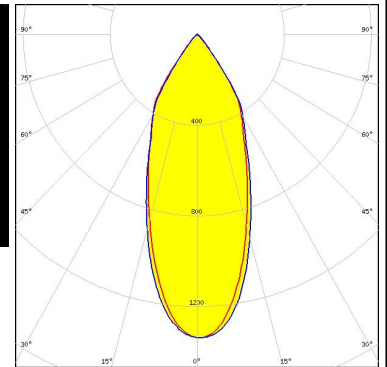
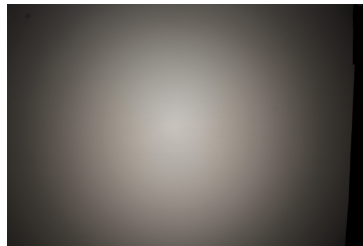
**LED** Vesta TW 15mm DP  
**FWHM / FWTM** 37.0° / 75.0°  
**Efficiency** 86 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 482 Typ L2



Light distribution files



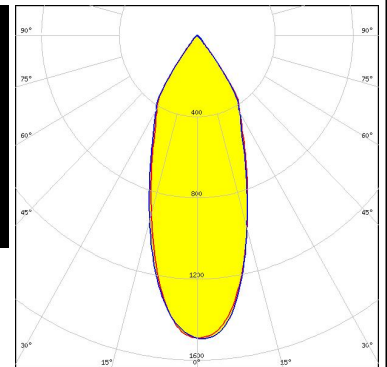
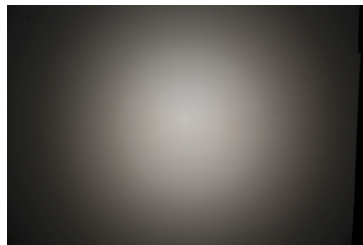
**LED** Vesta TW 18mm (31W) DP  
**FWHM / FWTM** 40.0° / 77.0°  
**Efficiency** 81 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 483 Typ L3



Light distribution files



**LED** Vesta TW 18mm (31W) DP  
**FWHM / FWTM** 39.0° / 76.0°  
**Efficiency** 85 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 483 Typ L3



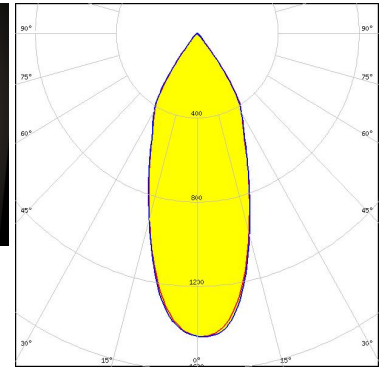
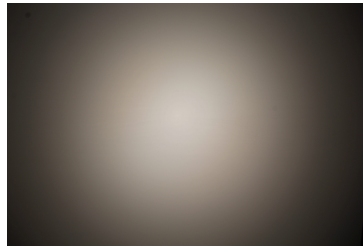
Light distribution files



### OPTICAL RESULTS (MEASURED):



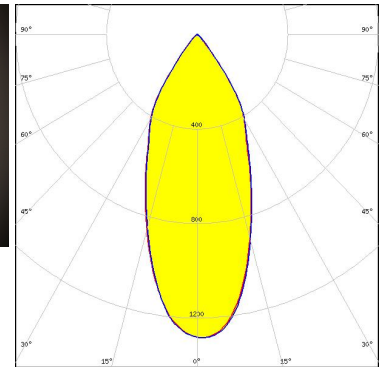
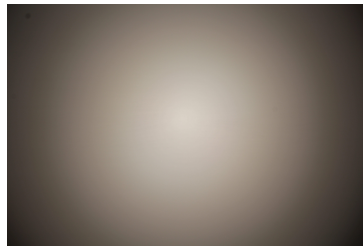
**LED** Vesta TW 22mm DP  
**FWHM / FWTM** 40.0° / 77.0°  
**Efficiency** 85 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



Light distribution files



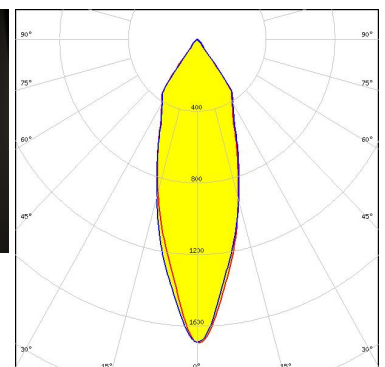
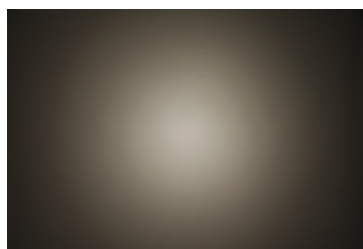
**LED** Vesta TW 22mm DP  
**FWHM / FWTM** 42.0° / 78.0°  
**Efficiency** 81 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 494 Typ L3



Light distribution files

### CITIZEN

**LED** CLL02x/CLU02x (LES10)  
**FWHM / FWTM** 33.0° / 74.0°  
**Efficiency** 83 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1

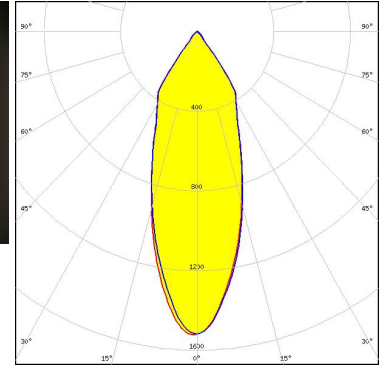


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

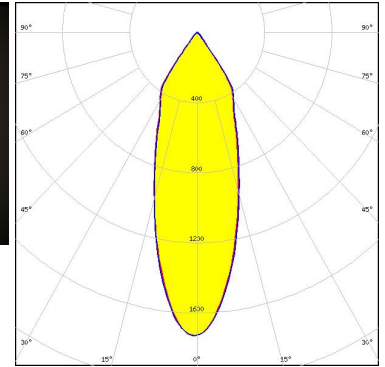
LED CLL03x/CLU03x  
FWHM / FWTM 36.0° / 75.0°  
Efficiency 82 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 433 Typ L1



Light distribution files

#### CITIZEN

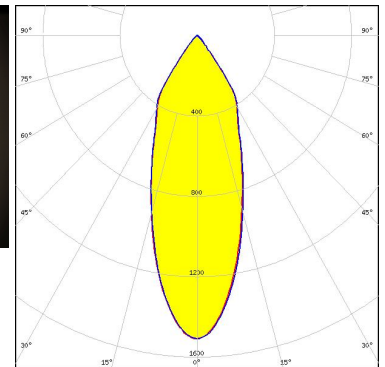
LED CLL03x/CLU03x  
FWHM / FWTM 34.0° / 74.0°  
Efficiency 87 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16791\_CLAMP-Z45-A  
TE Connectivity: 2325807-3



Light distribution files

#### CITIZEN

LED CLL03x/CLU03x  
FWHM / FWTM 36.0° / 75.0°  
Efficiency 83 %  
Peak intensity 1.5 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



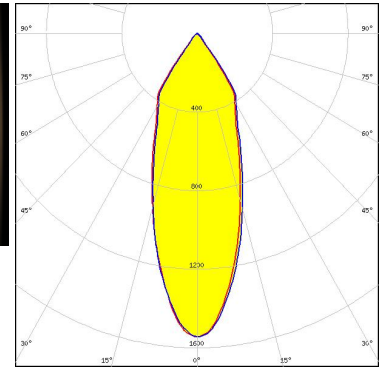
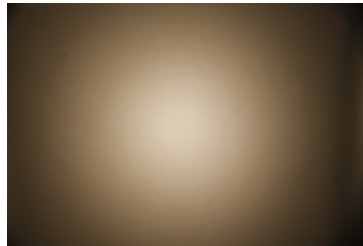
### OPTICAL RESULTS (MEASURED):

#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 35.0° / 75.0°  
 Efficiency 82 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

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



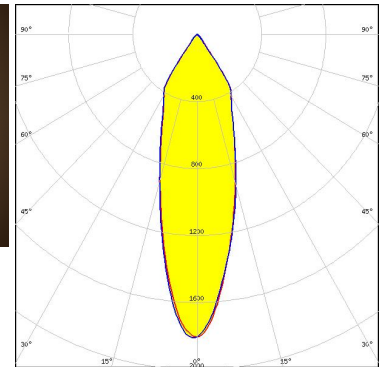
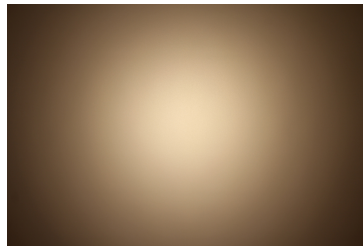
Light distribution files

#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 30.0° / 73.0°  
 Efficiency 83 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2103CT + 50-2100AN



Light distribution files

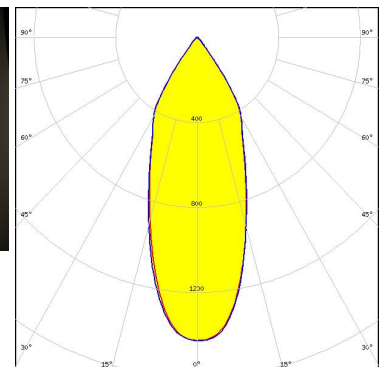
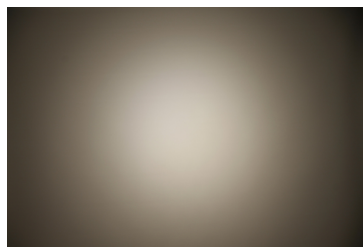
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 39.0° / 75.0°  
 Efficiency 83 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13584\_CLAMP-VERO29

Bender Wirth: 431 Typ L3

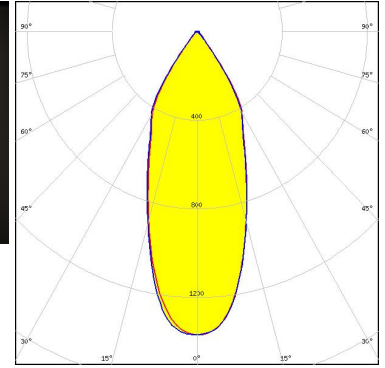


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

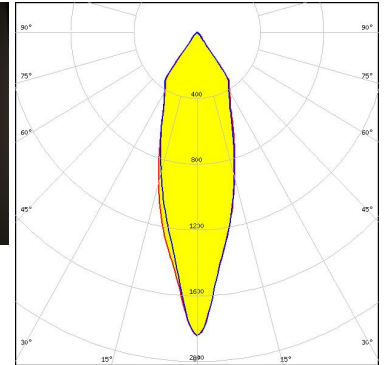
LED CLL04x/CLU04x  
 FWHM / FWTM 39.0° / 76.0°  
 Efficiency 82 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

#### CITIZEN

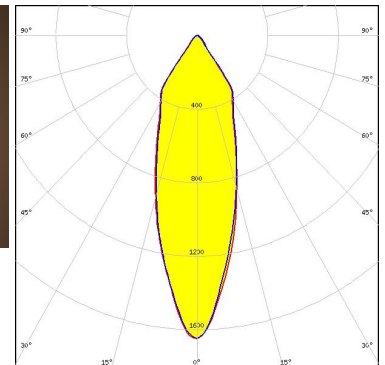
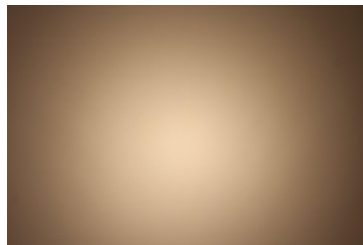
LED CLU700/701/702/703  
 FWHM / FWTM 30.0° / 74.0°  
 Efficiency 82 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



Light distribution files

#### CITIZEN

LED CLU720/721/723  
 FWHM / FWTM 32.0° / 74.0°  
 Efficiency 85 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

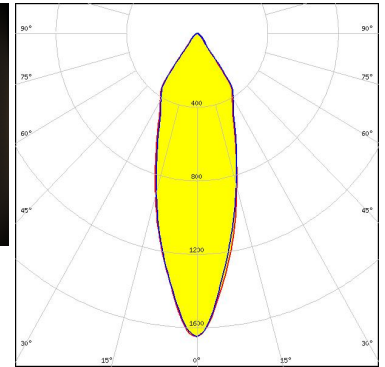


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

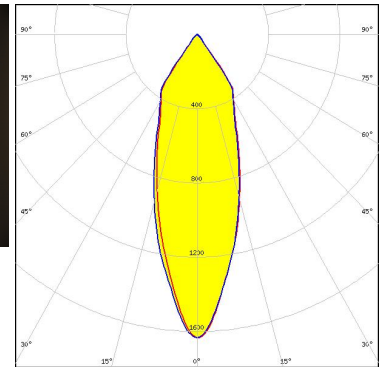
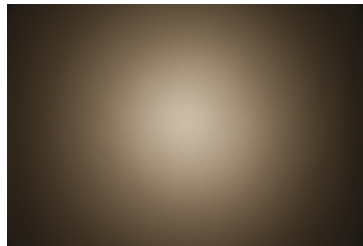
LED CLU720/721/723  
FWHM / FWTM 29.0° / 73.0°  
Efficiency 85 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2103CT + 50-2100AN



Light distribution files

#### CITIZEN

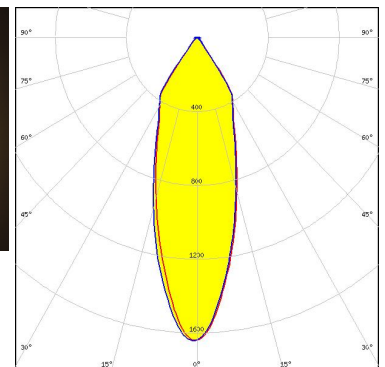
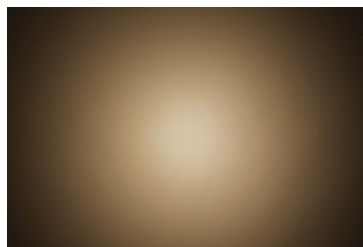
LED CLU720/721/723  
FWHM / FWTM 34.0° / 74.0°  
Efficiency 82 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 433 Typ L1



Light distribution files

#### CITIZEN

LED CLU730/731/733  
FWHM / FWTM 33.0° / 73.0°  
Efficiency 82 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2103CT + 50-2100AN

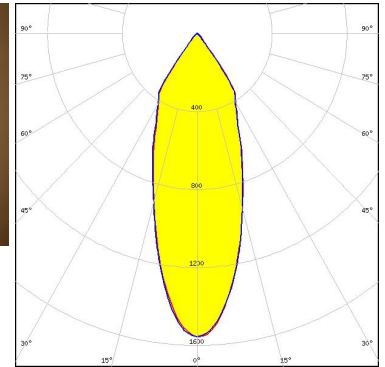


Light distribution files

### OPTICAL RESULTS (MEASURED):



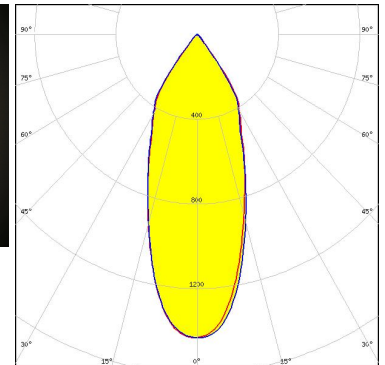
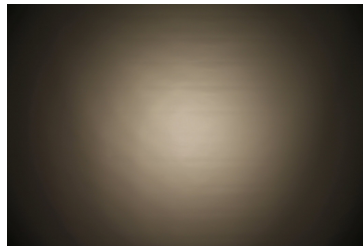
**LED** CMA1840  
**FWHM / FWTM** 36.0° / 76.0°  
**Efficiency** 84 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14123\_CLAMP-CXA15-18



Light distribution files



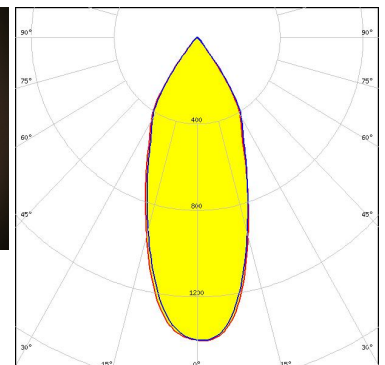
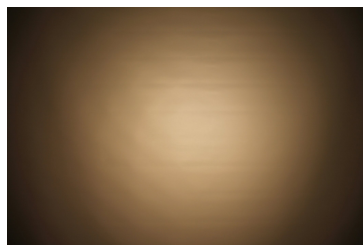
**LED** CMA2550  
**FWHM / FWTM** 39.0° / 77.0°  
**Efficiency** 84 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14036\_CLAMP\_CXA25-30



Light distribution files



**LED** CMA3090  
**FWHM / FWTM** 40.0° / 76.0°  
**Efficiency** 84 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14036\_CLAMP\_CXA25-30

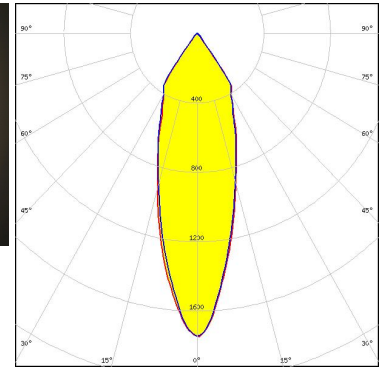
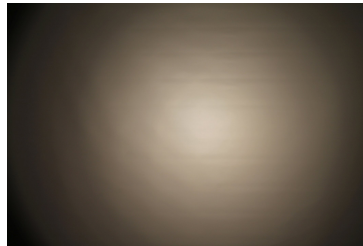


Light distribution files

### OPTICAL RESULTS (MEASURED):



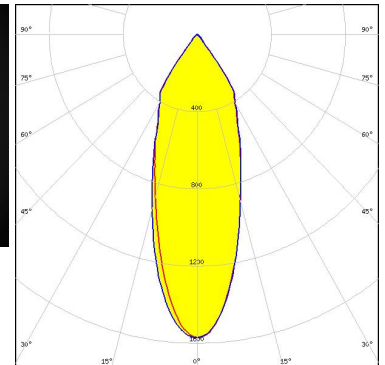
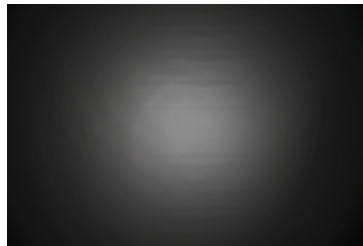
**LED** CMT14xx  
**FWHM / FWTM** 31.0° / 74.0°  
**Efficiency** 82 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



Light distribution files



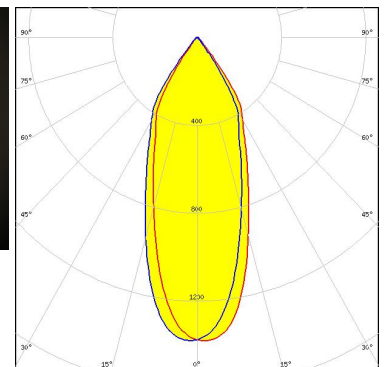
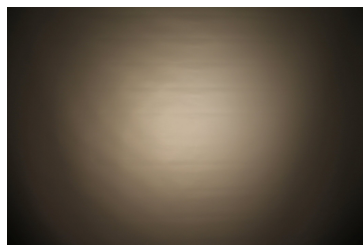
**LED** CMT19xx  
**FWHM / FWTM** 35.0° / 75.0°  
**Efficiency** 83 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 477 Typ L1



Light distribution files



**LED** CMT28xx  
**FWHM / FWTM** 38.0° / 76.0°  
**Efficiency** 80 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 471 Typ L3



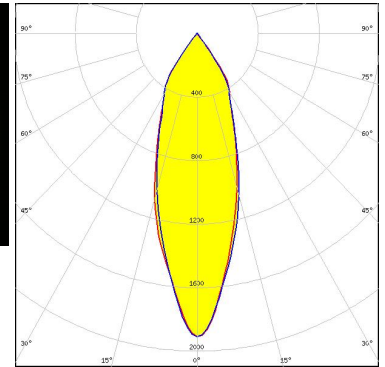
Light distribution files



### OPTICAL RESULTS (MEASURED):



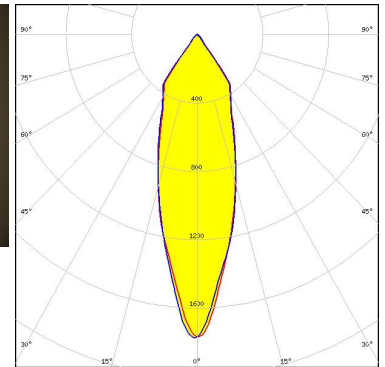
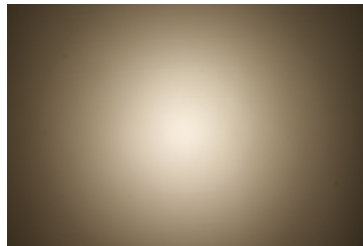
LED CXA/B 15xx  
 FWHM / FWTM 33.0° / 74.0°  
 Efficiency 84 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18



Light distribution files



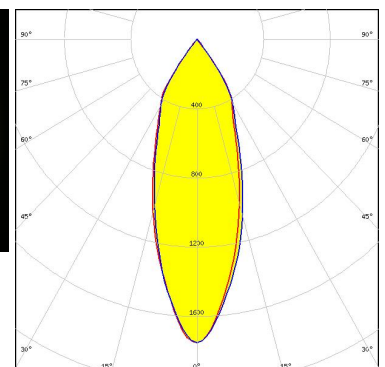
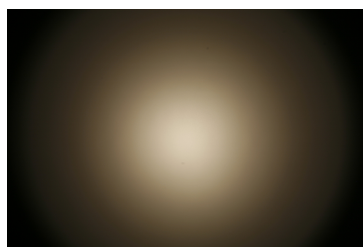
LED CXA/B 15xx  
 FWHM / FWTM 31.0° / 74.0°  
 Efficiency 83 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 441 Typ L1



Light distribution files



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 36.0° / 75.0°  
 Efficiency 84 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18

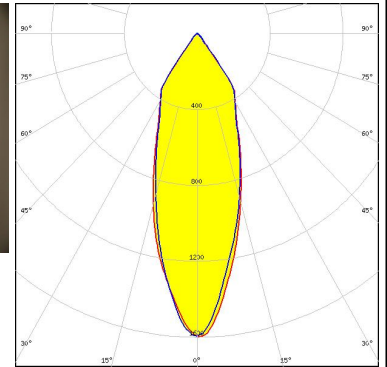
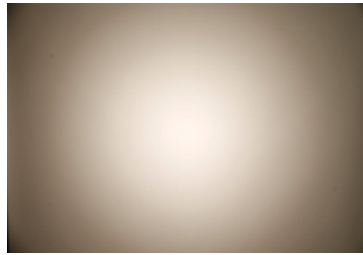


Light distribution files

### OPTICAL RESULTS (MEASURED):



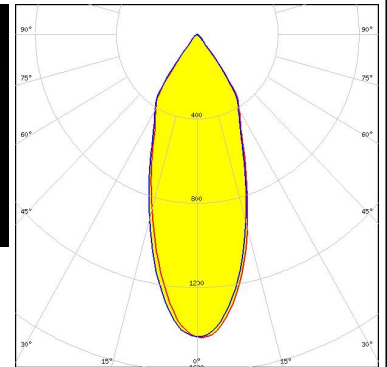
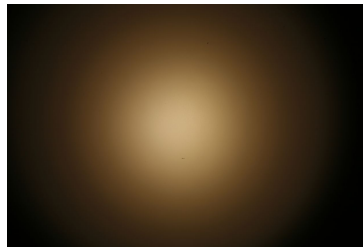
**LED** CXA/B 1816 & CXA/B 1820 & CXA 1850  
**FWHM / FWTM** 34.0° / 75.0°  
**Efficiency** 82 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



Light distribution files



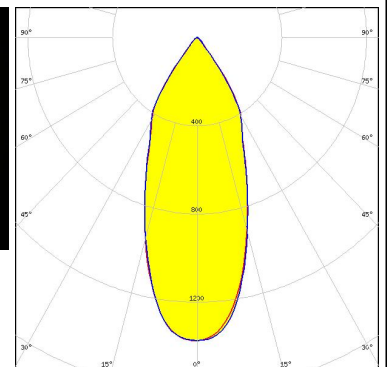
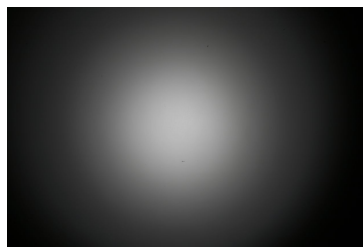
**LED** CXA/B 25xx  
**FWHM / FWTM** 38.0° / 77.0°  
**Efficiency** 84 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14036\_CLAMP\_CXA25-30



Light distribution files



**LED** CXA/B 30xx  
**FWHM / FWTM** 41.0° / 77.0°  
**Efficiency** 84 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14036\_CLAMP\_CXA25-30



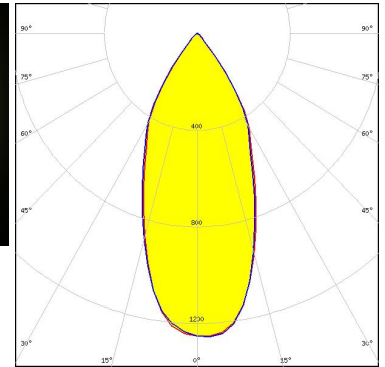
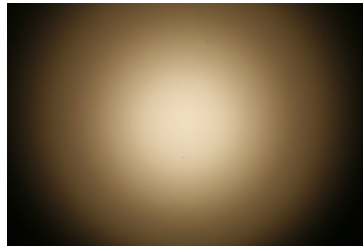
Light distribution files



### OPTICAL RESULTS (MEASURED):



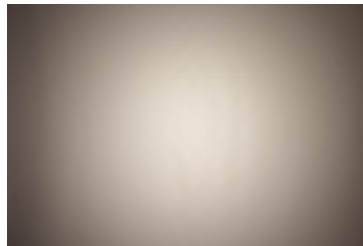
LED CXA/B 3590  
FWHM / FWTM 44.0° / 79.0°  
Efficiency 84 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2303CR + 50-2300AN



Light distribution files



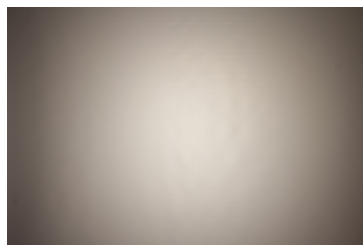
LED CHI3030 19W  
FWHM / FWTM 40.0° / 78.0°  
Efficiency 80 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3



Light distribution files



LED CHI3030 29W  
FWHM / FWTM 43.0° / 80.0°  
Efficiency 80 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3

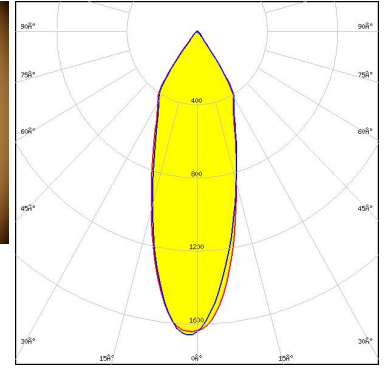


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### inventronics

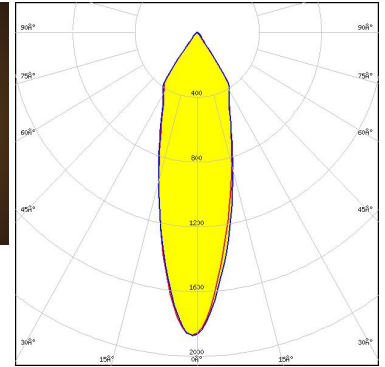
LED PrevaLED Core AC (LEP-2000)  
 FWHM / FWTM 34.0° / 74.0°  
 Efficiency 84 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

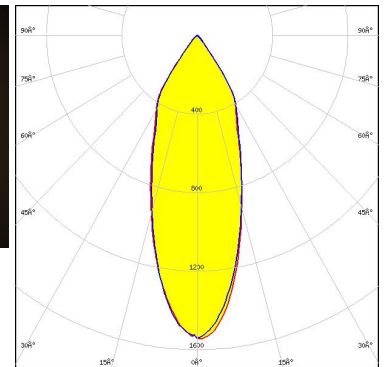
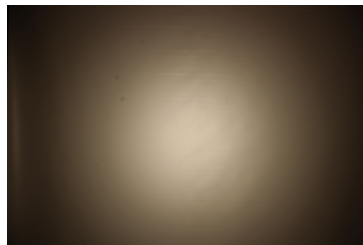
LED PrevaLED Core AC (LEP-800)  
 FWHM / FWTM 29.0° / 73.0°  
 Efficiency 84 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

LED PrevaLED Core G7 L15 H1  
 FWHM / FWTM 36.0° / 75.0°  
 Efficiency 83 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16685\_CLAMP-PRV-A  
 F13671\_ANGE-RZ-LENS

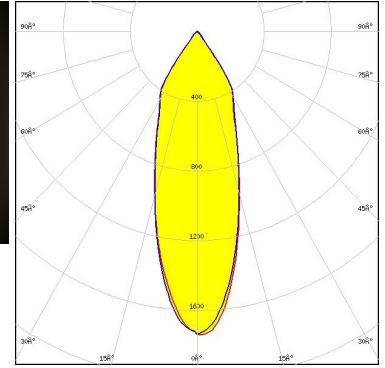


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### inventronics

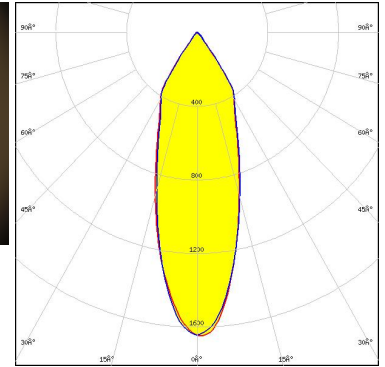
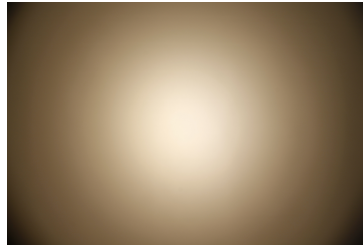
LED PrevaLED Core G7 L15 H1  
 FWHM / FWTM 34.0° / 74.0°  
 Efficiency 86 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C16685\_CLAMP-PRV-A



Light distribution files

#### inventronics

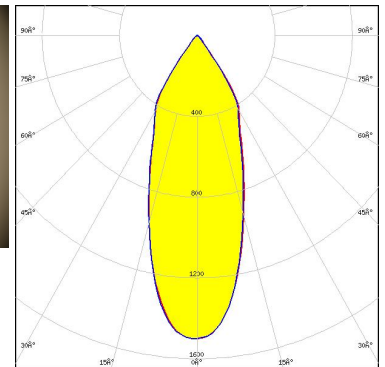
LED PrevaLED Core Z3 LES19  
 FWHM / FWTM 33.0° / 74.0°  
 Efficiency 83 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

LED PrevaLED Core Z3 LES23  
 FWHM / FWTM 38.0° / 75.0°  
 Efficiency 85 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

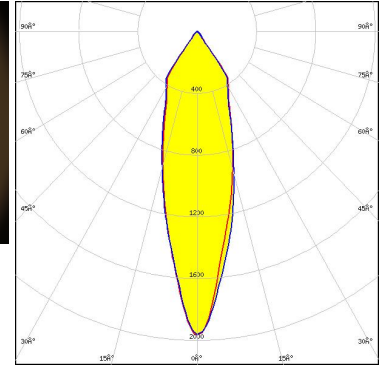


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### inventronics

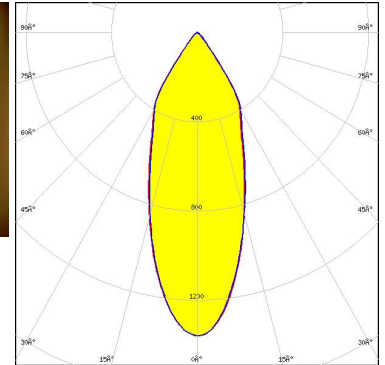
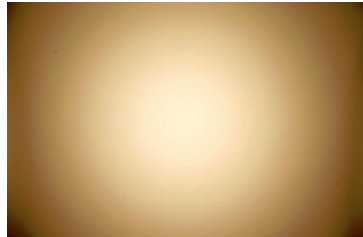
LED PrevaLED Core Z3 LES9  
FWHM / FWTM 28.0° / 73.0°  
Efficiency 84 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

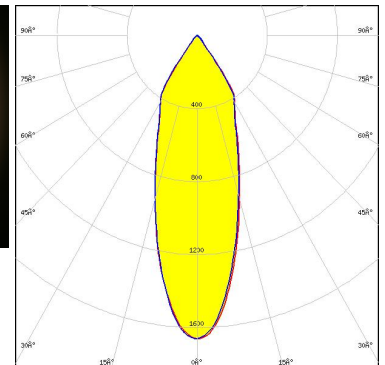
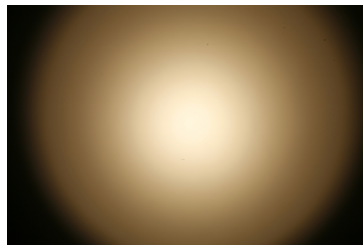
LED PrevaLED Core Z4 LES19  
FWHM / FWTM 38.0° / 76.0°  
Efficiency 78 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### inventronics

LED PrevaLED Core Z4 LES19  
FWHM / FWTM 34.0° / 74.0°  
Efficiency 84 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

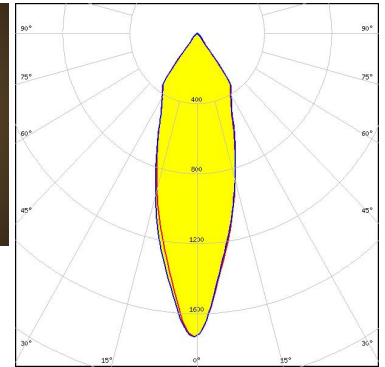
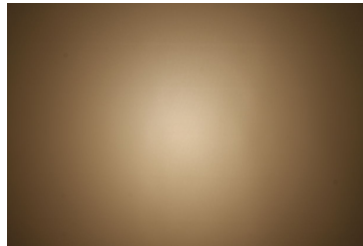


Light distribution files

### OPTICAL RESULTS (MEASURED):



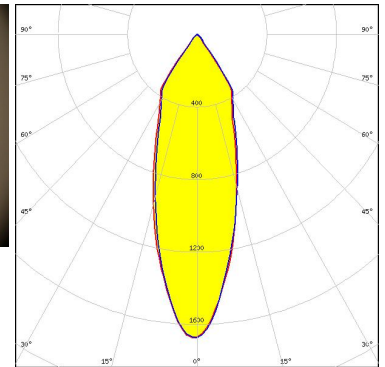
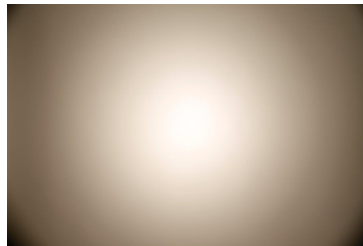
LED LUXEON CoB 1202/1203  
FWHM / FWTM 31.0° / 74.0°  
Efficiency 83 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 438 Typ L1



Light distribution files



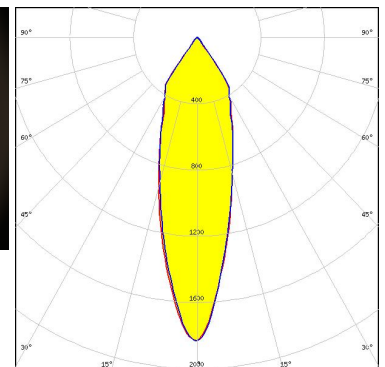
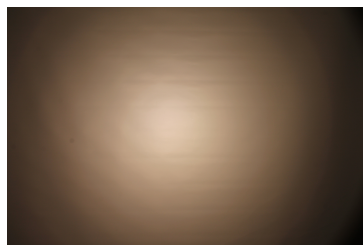
LED LUXEON CoB 1204/1205  
FWHM / FWTM 33.0° / 75.0°  
Efficiency 84 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED LUXEON CoB 1204HD  
FWHM / FWTM 29.0° / 74.0°  
Efficiency 82 %  
Peak intensity 1.8 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

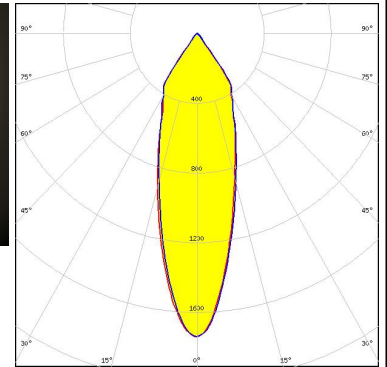
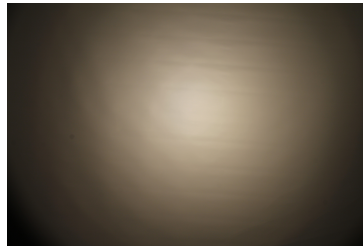
### OPTICAL RESULTS (MEASURED):



LED LUXEON CoB 1205HD  
 FWHM / FWTM 31.0° / 74.0°  
 Efficiency 82 %  
 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



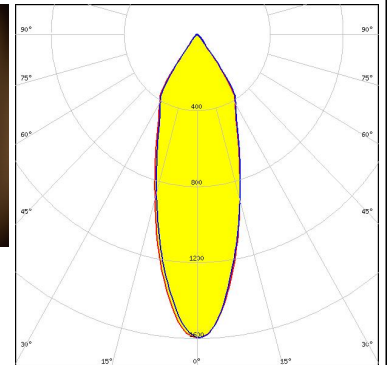
Light distribution files



LED LUXEON CoB 1208  
 FWHM / FWTM 34.0° / 74.0°  
 Efficiency 82 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2100SH + 50-2100AN



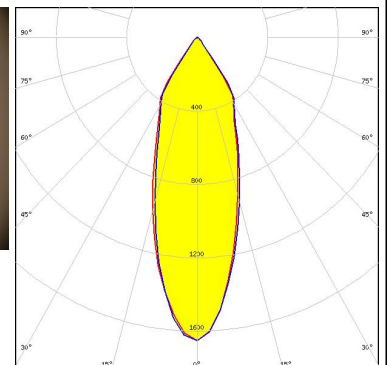
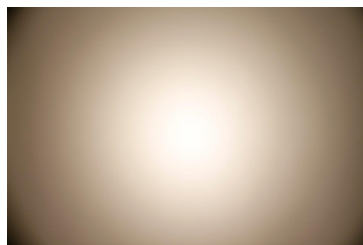
Light distribution files



LED LUXEON CoB 1208  
 FWHM / FWTM 34.0° / 74.0°  
 Efficiency 84 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

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



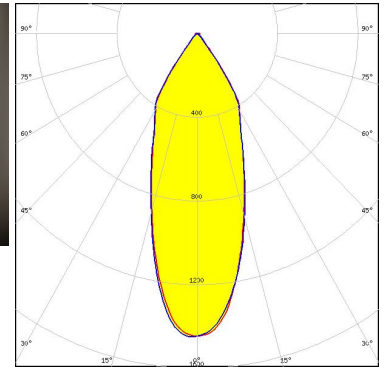
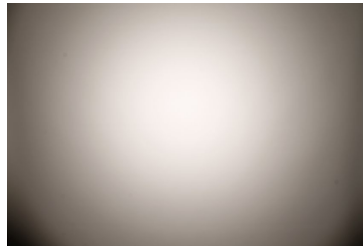
Light distribution files



### OPTICAL RESULTS (MEASURED):



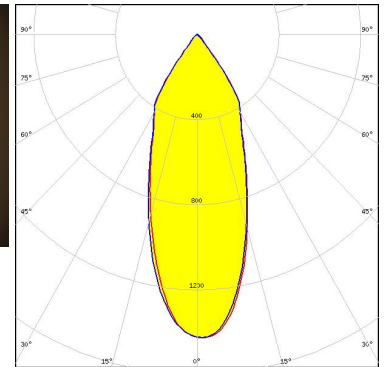
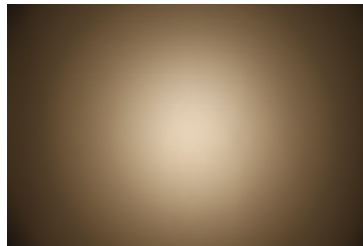
LED LUXEON CoB 1211  
FWHM / FWTM 37.0° / 75.0°  
Efficiency 82 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



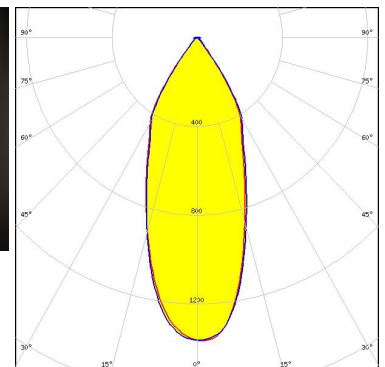
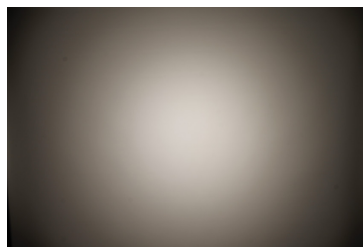
LED LUXEON CoB 1211  
FWHM / FWTM 39.0° / 76.0°  
Efficiency 83 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 431 Typ L3



Light distribution files



LED LUXEON CoB 1213/1216/1812  
FWHM / FWTM 40.0° / 76.0°  
Efficiency 82 %  
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



### OPTICAL RESULTS (MEASURED):

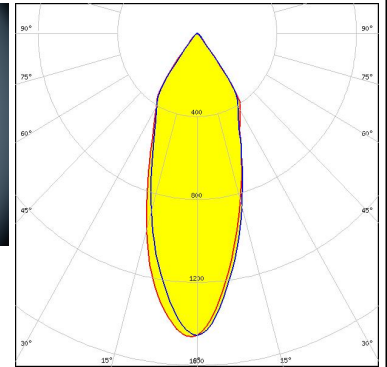
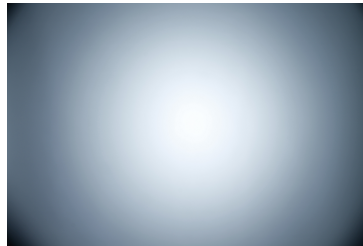


LED LUXEON K12  
FWHM / FWTM 37.0° / 76.0°  
Efficiency 82 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

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



Light distribution files

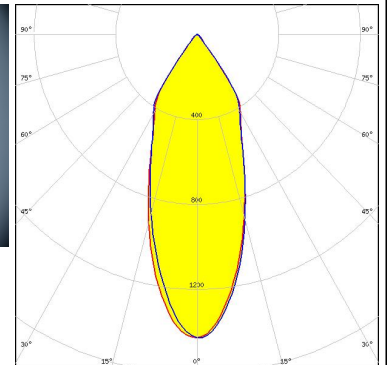
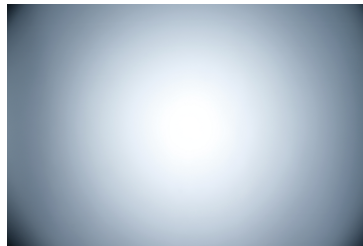


LED LUXEON K16  
FWHM / FWTM 38.0° / 76.0°  
Efficiency 83 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

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



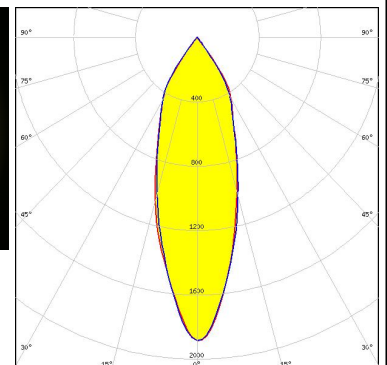
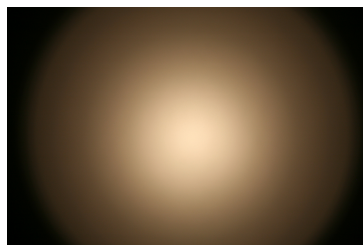
Light distribution files



LED LUXEON S2000  
FWHM / FWTM 34.0° / 74.0°  
Efficiency 84 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13395\_CLAMP-S2000

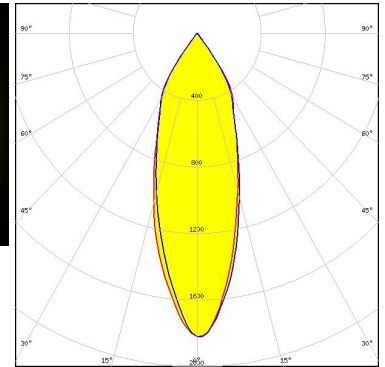


Light distribution files

### OPTICAL RESULTS (MEASURED):



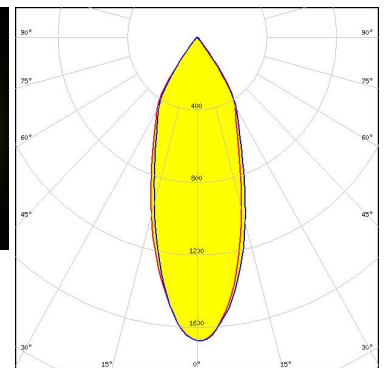
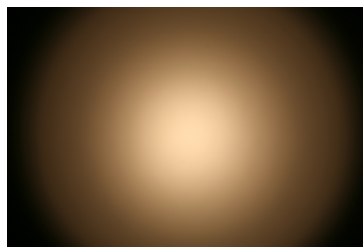
**LED** LUXEON S3000  
**FWHM / FWTM** 34.0° / 74.0°  
**Efficiency** 84 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13397\_CLAMP-S3000



Light distribution files



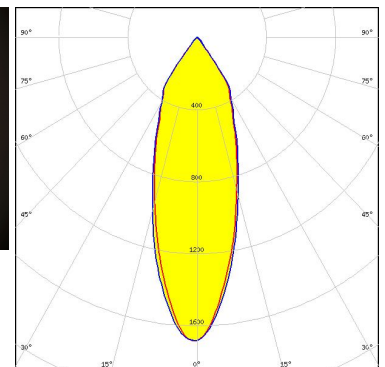
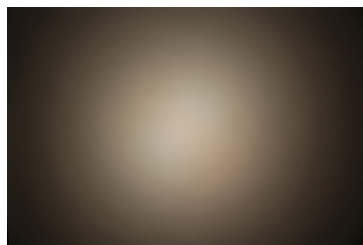
**LED** LUXEON S5000  
**FWHM / FWTM** 37.0° / 75.0°  
**Efficiency** 85 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13399\_CLAMP-S5000



Light distribution files



**LED** CDM-14 (Dim-To-Warm)  
**FWHM / FWTM** 34.0° / 75.0°  
**Efficiency** 84 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2

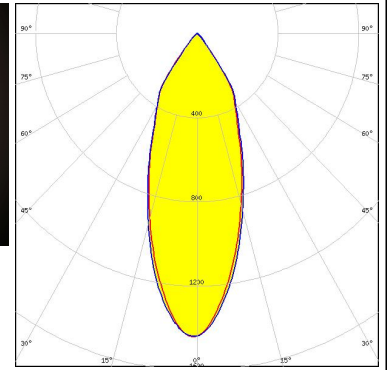


Light distribution files

### OPTICAL RESULTS (MEASURED):



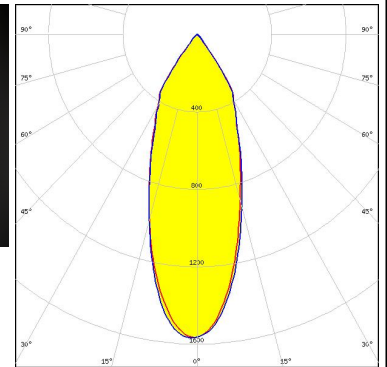
**LED** CDM-14 (Dim-To-Warm)  
**FWHM / FWTM** 38.0° / 76.0°  
**Efficiency** 80 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



Light distribution files



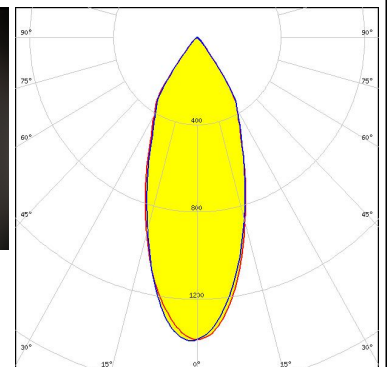
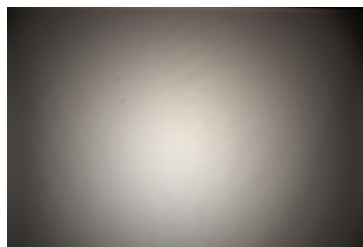
**LED** CDM-18 (Dim-To-Warm)  
**FWHM / FWTM** 37.0° / 75.0°  
**Efficiency** 85 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



Light distribution files



**LED** CDM-18 (Dim-To-Warm)  
**FWHM / FWTM** 40.0° / 76.0°  
**Efficiency** 81 %  
**Peak intensity** 1.4 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

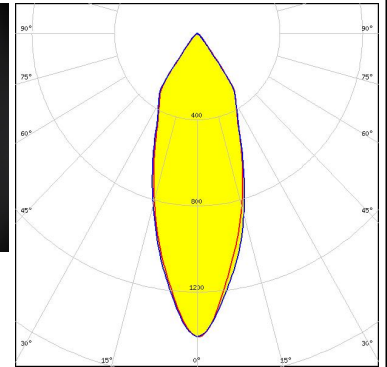


Light distribution files

### OPTICAL RESULTS (MEASURED):



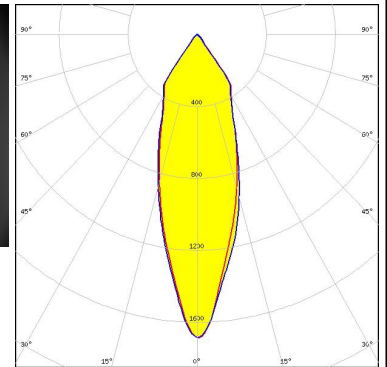
**LED** CDM-9 (Dim-To-Warm)  
**FWHM / FWTM** 36.0° / 75.0°  
**Efficiency** 76 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 490 Typ L1



Light distribution files



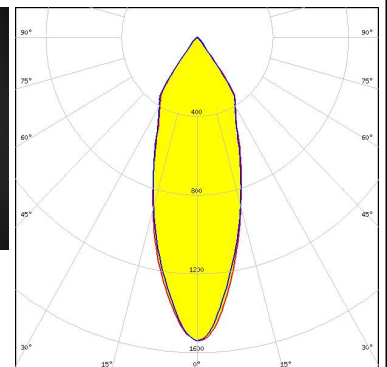
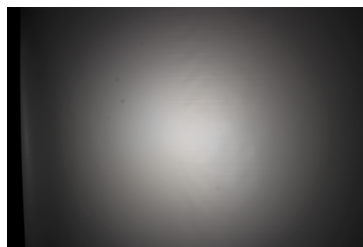
**LED** CDM-9 (Dim-To-Warm)  
**FWHM / FWTM** 32.0° / 74.0°  
**Efficiency** 80 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 490 Typ L1



Light distribution files



**LED** CTM-14 (Tunable White)  
**FWHM / FWTM** 35.0° / 75.0°  
**Efficiency** 80 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 442 Typ L3

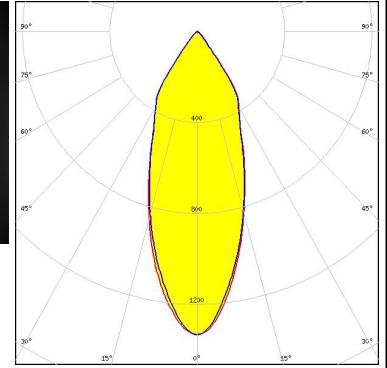


Light distribution files

### OPTICAL RESULTS (MEASURED):



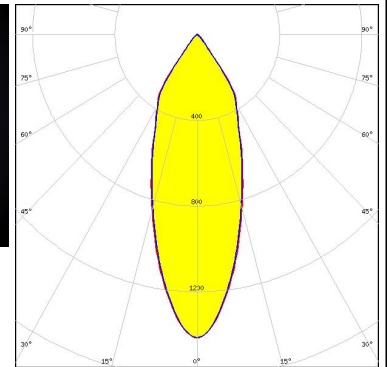
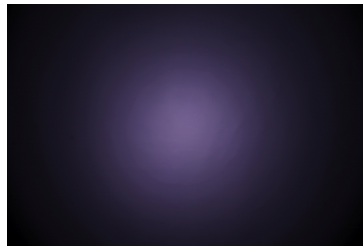
**LED** CTM-14 (Tunable White)  
**FWHM / FWTM** 38.0° / 76.0°  
**Efficiency** 76 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 442 Typ L3



Light distribution files



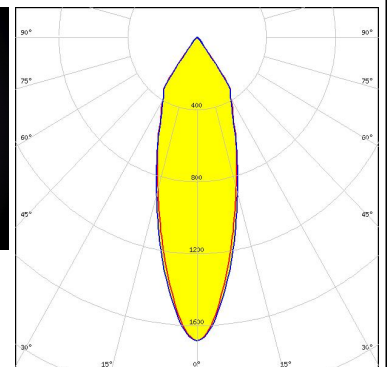
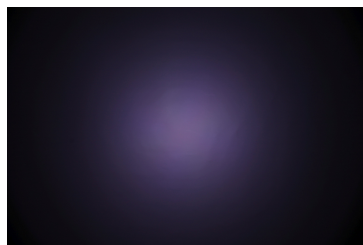
**LED** CTM-14 RGBW  
**FWHM / FWTM** 36.0° / 75.0°  
**Efficiency** 77 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** RGBW  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 500 Typ L3-1



Light distribution files



**LED** CTM-14 RGBW  
**FWHM / FWTM** 32.0° / 74.0°  
**Efficiency** 81 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** RGBW  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 500 Typ L3-1



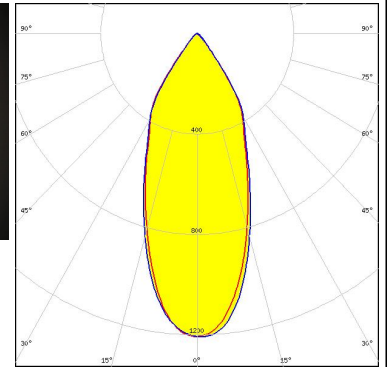
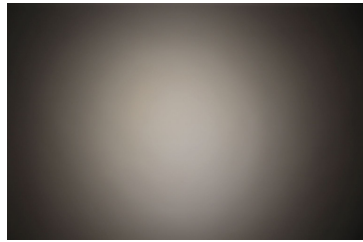
Light distribution files



### OPTICAL RESULTS (MEASURED):



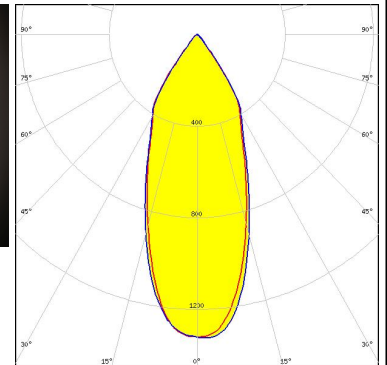
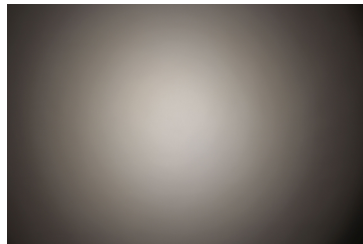
**LED** CTM-22 (Tunable White)  
**FWHM / FWTM** 42.0° / 78.0°  
**Efficiency** 76 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 494 Typ L3



Light distribution files



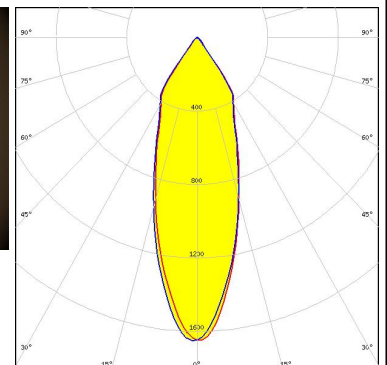
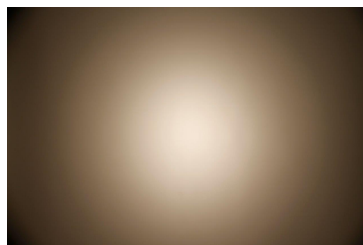
**LED** CTM-22 (Tunable White)  
**FWHM / FWTM** 40.0° / 77.0°  
**Efficiency** 80 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



Light distribution files



**LED** CxM-14 (19x19)  
**FWHM / FWTM** 34.0° / 75.0°  
**Efficiency** 84 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

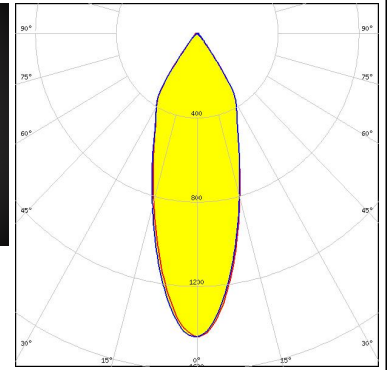


Light distribution files

### OPTICAL RESULTS (MEASURED):



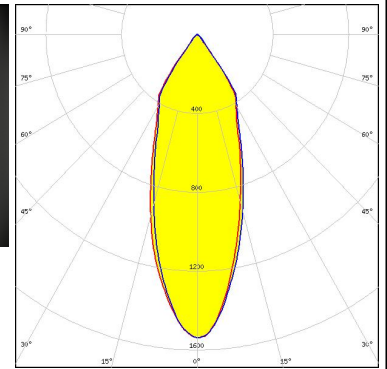
LED COB J-Type  
FWHM / FWTM 35.0° / 75.0°  
Efficiency 79 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F13671\_ANGE-RZ-LENS  
IDEAL: 50-2103NC + 50-2100AN



Light distribution files



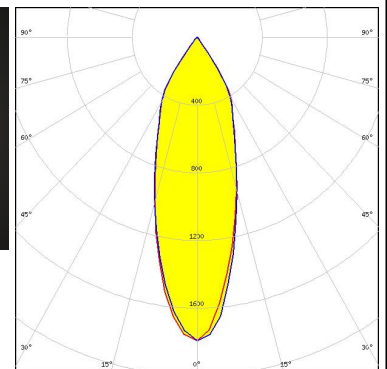
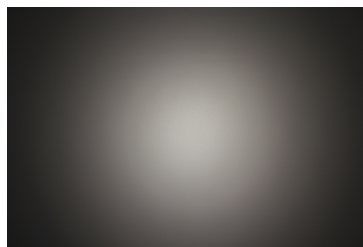
LED COB J-Type  
FWHM / FWTM 36.0° / 75.0°  
Efficiency 82 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 463 Typ L2



Light distribution files



LED COB J-Type  
FWHM / FWTM 33.0° / 73.0°  
Efficiency 82 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2103NC + 50-2100AN



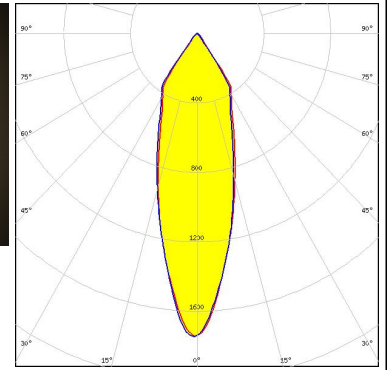
Light distribution files



### OPTICAL RESULTS (MEASURED):



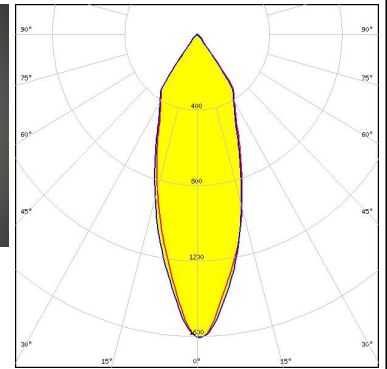
LED COB L-Type (LES 11)  
FWHM / FWTM 31.0° / 73.0°  
Efficiency 81 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2100NC + 50-2100AN



Light distribution files



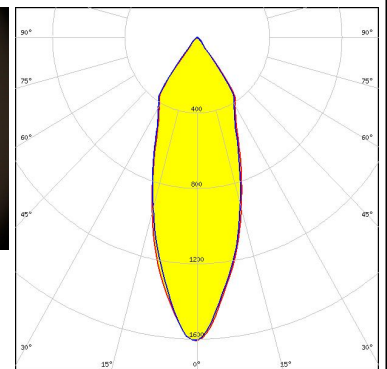
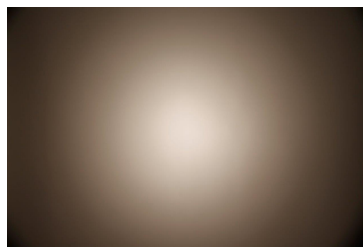
LED COB L-Type (LES 11)  
FWHM / FWTM 34.0° / 75.0°  
Efficiency 82 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 438 Typ L1



Light distribution files



LED COB L-Type (LES 11)  
FWHM / FWTM 35.0° / 75.0°  
Efficiency 85 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Molex: 180580-0005

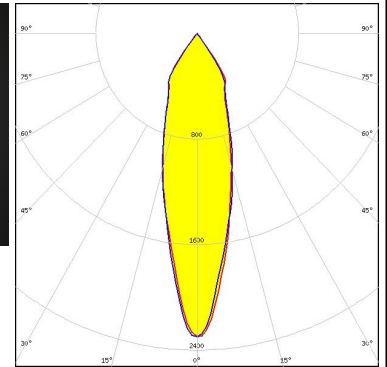
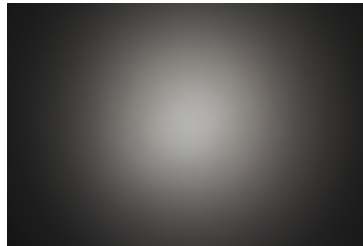


Light distribution files

### OPTICAL RESULTS (MEASURED):



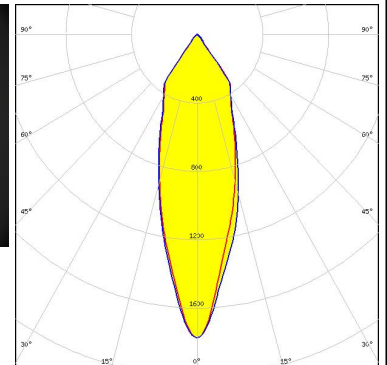
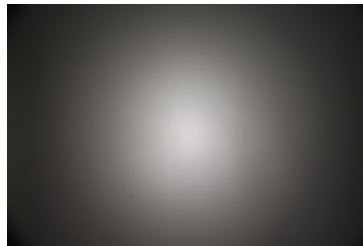
**LED** COB L-Type (LES 11)  
**FWHM / FWTM** 28.0° / 72.0°  
**Efficiency** 87 %  
**Peak intensity** 2.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



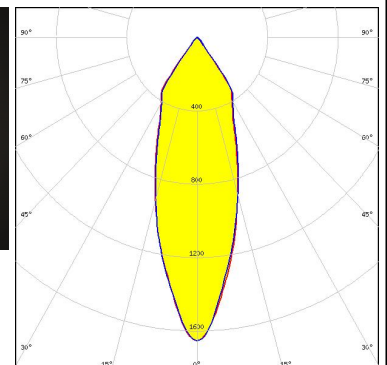
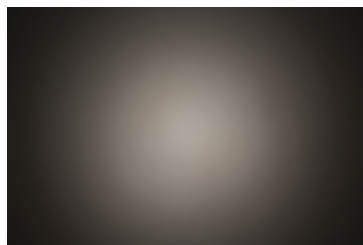
**LED** COB L-Type (LES 9)  
**FWHM / FWTM** 31.0° / 74.0°  
**Efficiency** 84 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



Light distribution files



**LED** NVCWJ024Z-V1MT: COB J-Type Tunable White  
**FWHM / FWTM** 33.0° / 75.0°  
**Efficiency** 82 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 498 Typ L2

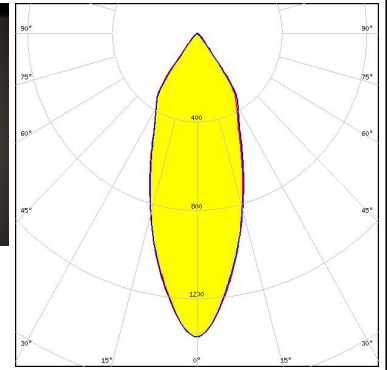


Light distribution files

#### OPTICAL RESULTS (MEASURED):



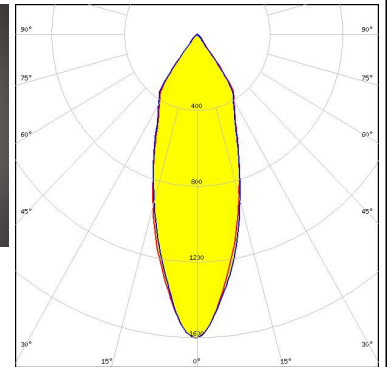
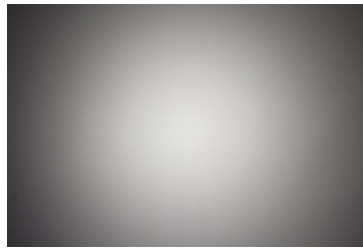
**LED** NVCWJ024Z-V1MT: COB J-Type Tunable White  
**FWHM / FWTM** 37.0° / 76.0°  
**Efficiency** 77 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 498 Typ L2



Light distribution files



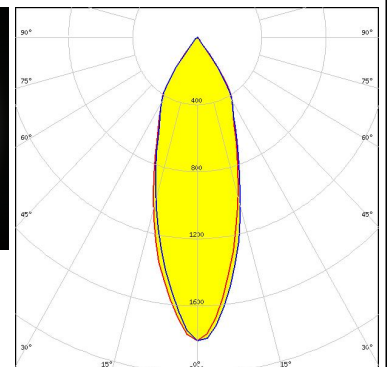
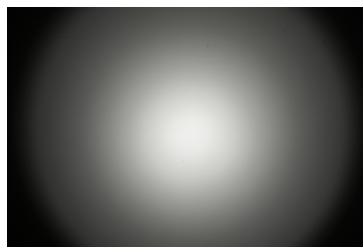
**LED** Soleriq S13  
**FWHM / FWTM** 35.0° / 75.0°  
**Efficiency** 82 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



Light distribution files



**LED** Soleriq S13  
**FWHM / FWTM** 33.0° / 74.0°  
**Efficiency** 85 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1

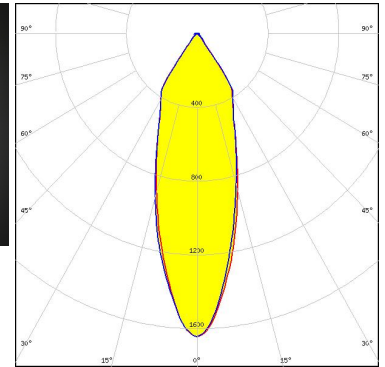
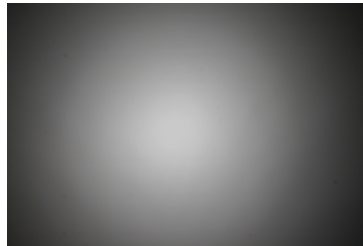


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

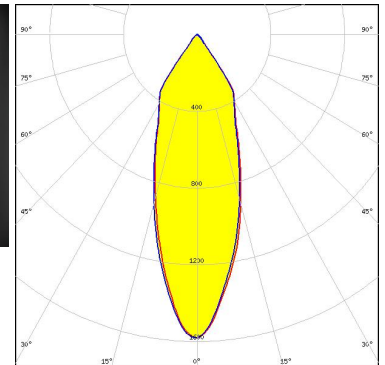
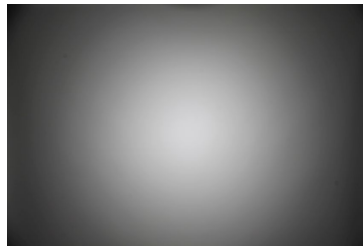
LED Soleriq S13 19x19  
FWHM / FWTM 32.0° / 74.0°  
Efficiency 81 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2103CT + 50-2100AN



Light distribution files

**OSRAM**  
Opto Semiconductors

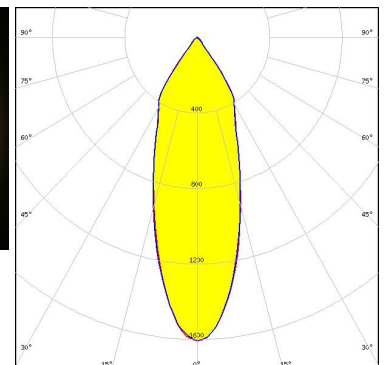
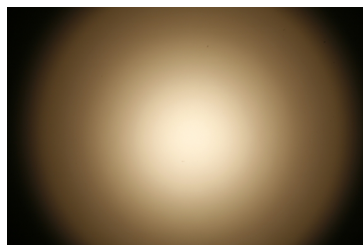
LED Soleriq S13 19x19  
FWHM / FWTM 34.0° / 74.0°  
Efficiency 81 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM / FWTM 35.0° / 75.0°  
Efficiency 84 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1

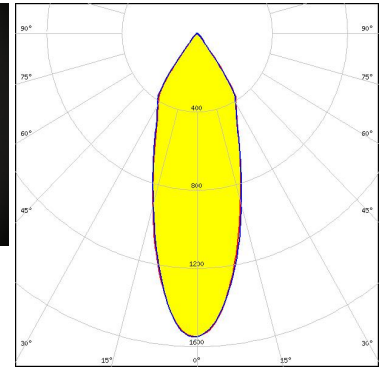
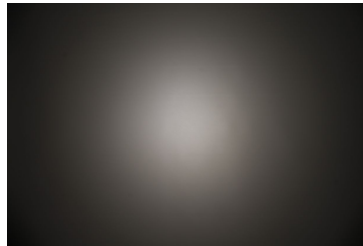


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

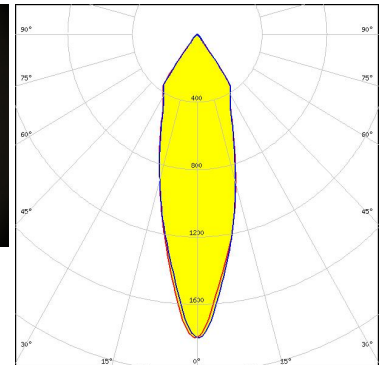
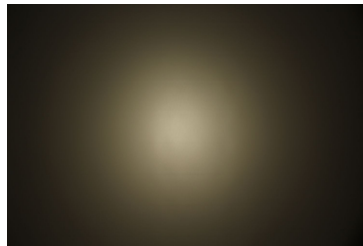
LED Soleriq S19  
FWHM / FWTM 35.0° / 75.0°  
Efficiency 82 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 462 Typ L3



Light distribution files

**PHILIPS**

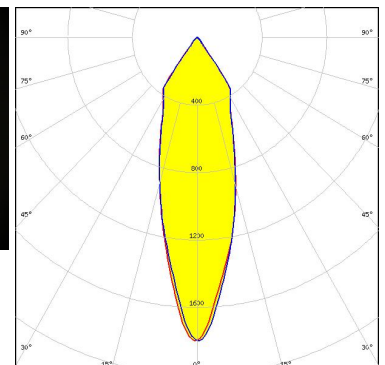
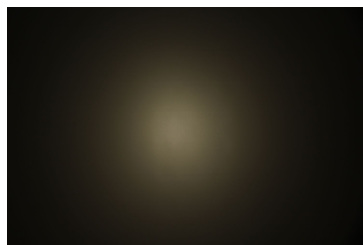
LED Fortimo SLM L09 + SLM holder  
FWHM / FWTM 30.0° / 74.0°  
Efficiency 83 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

**PHILIPS**

LED Fortimo SLM L09 + SLM holder  
FWHM / FWTM 30.0° / 74.0°  
Efficiency 83 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

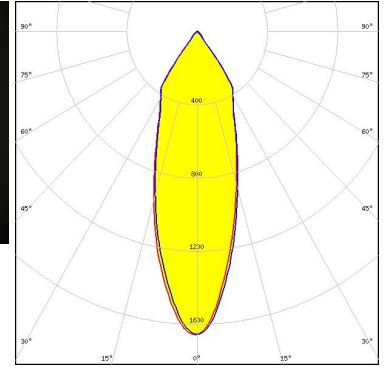
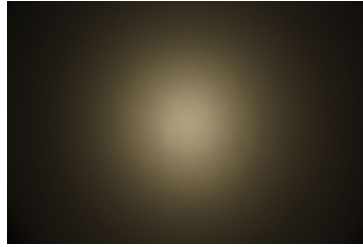


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

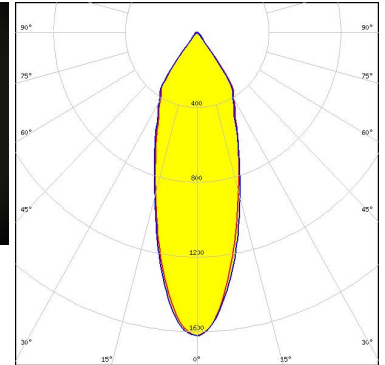
LED Fortimo SLM L13 + SLM holder  
FWHM / FWTM 33.0° / 74.0°  
Efficiency 82 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

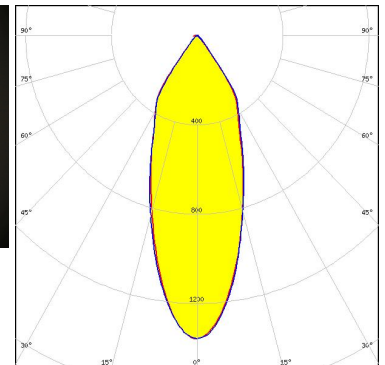
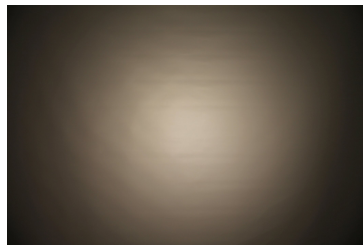
LED Fortimo SLM L13 CoB  
FWHM / FWTM 33.0° / 75.0°  
Efficiency 83 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

LED Fortimo SLM L13 CoB  
FWHM / FWTM 37.0° / 76.0°  
Efficiency 77 %  
Peak intensity 1.4 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



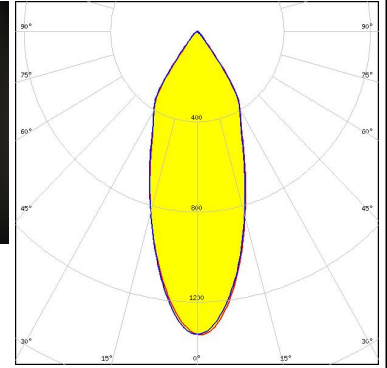
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### PHILIPS

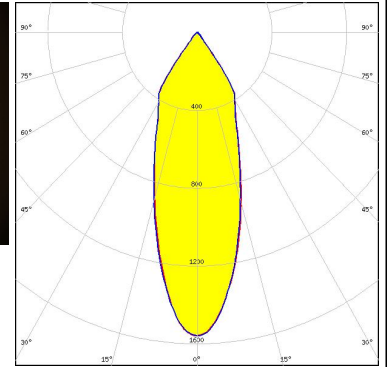
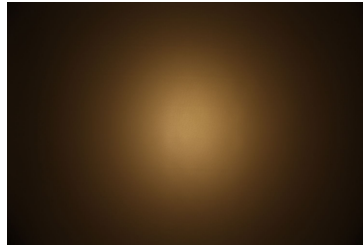
LED Fortimo SLM L15 + SLM holder  
 FWHM / FWTM 38.0° / 76.0°  
 Efficiency 76 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

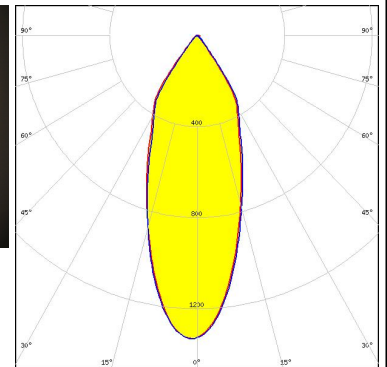
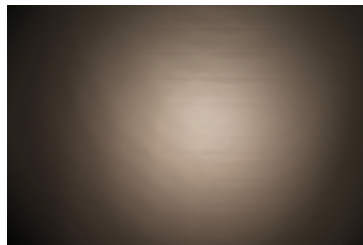
LED Fortimo SLM L15 + SLM holder  
 FWHM / FWTM 34.0° / 75.0°  
 Efficiency 81 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM / FWTM 40.0° / 76.0°  
 Efficiency 77 %  
 Peak intensity 1.3 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

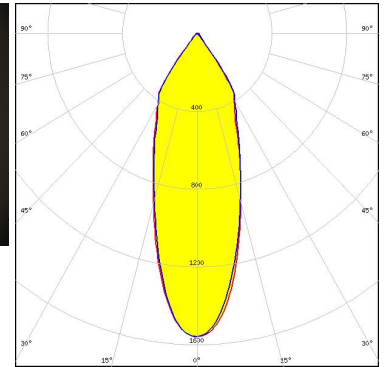
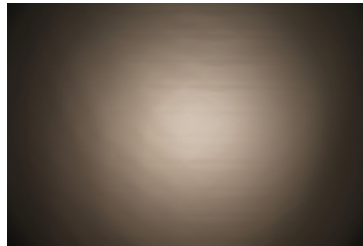


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

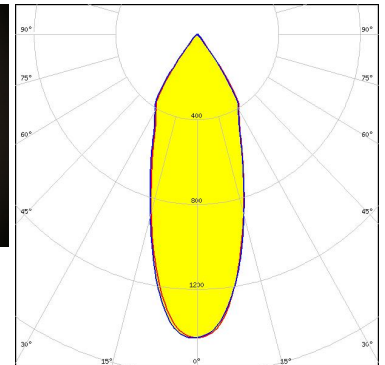
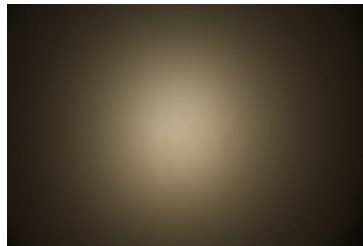
LED Fortimo SLM L15 CoB  
 FWHM / FWTM 35.0° / 75.0°  
 Efficiency 82 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### PHILIPS

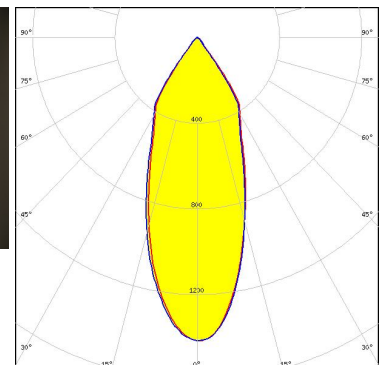
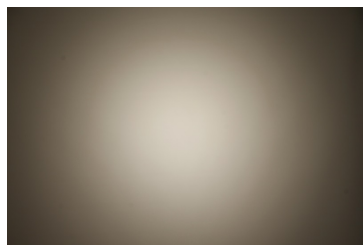
LED Fortimo SLM L19 + SLM holder  
 FWHM / FWTM 37.0° / 76.0°  
 Efficiency 80 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### SAMSUNG

LED LC026B / 033B / 040B  
 FWHM / FWTM 39.0° / 76.0°  
 Efficiency 82 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 450 Typ L2



Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

LED LC026B / 033B / 040B

FWHM / FWTM 36.0° / 75.0°

Efficiency 84 %

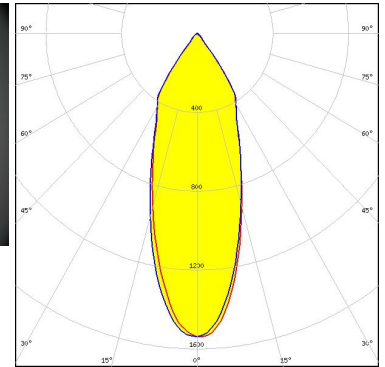
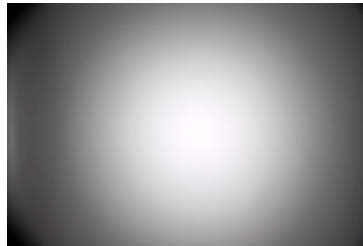
Peak intensity 1.5 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

TE Connectivity: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

#### SAMSUNG

LED LC035T (Tunable white)

FWHM / FWTM 42.0° / 78.0°

Efficiency 81 %

Peak intensity 1.3 cd/lm

LEDs/each optic 1

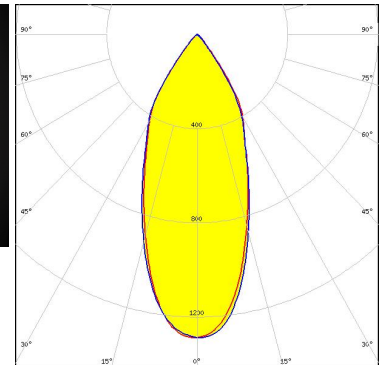
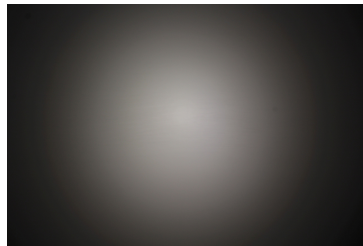
Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29

F13671\_ANGE-RZ-LENS

Bender Wirth: 502 Typ L3



Light distribution files

#### SAMSUNG

LED LC035T (Tunable white)

FWHM / FWTM 40.0° / 77.0°

Efficiency 85 %

Peak intensity 1.4 cd/lm

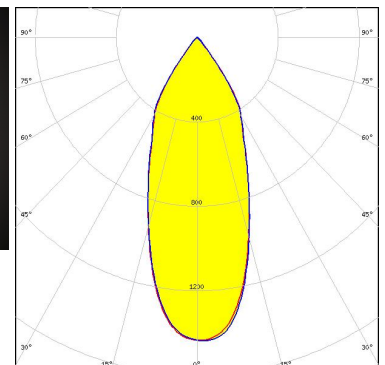
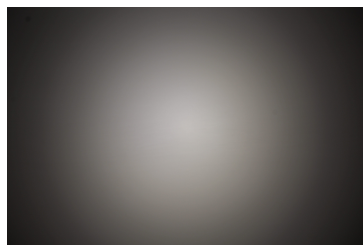
LEDs/each optic 1

Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29

Bender Wirth: 502 Typ L3



Light distribution files

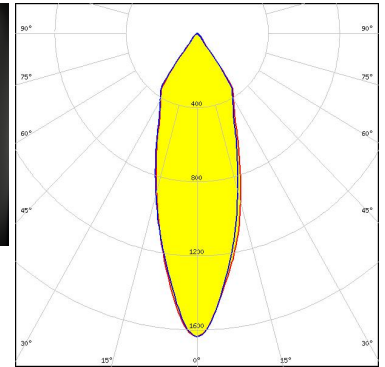
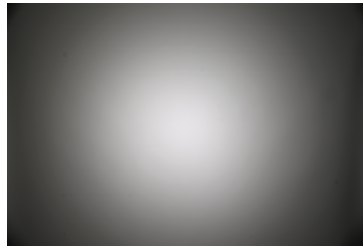
#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

LED LC040C  
 FWHM / FWTM 33.0° / 74.0°  
 Efficiency 82 %  
 Peak intensity 1.6 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

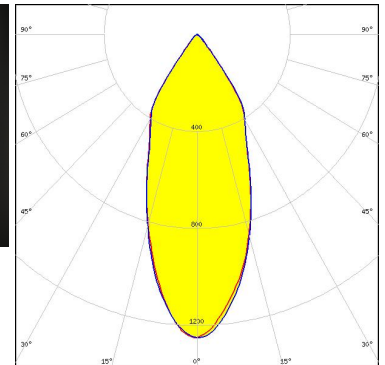
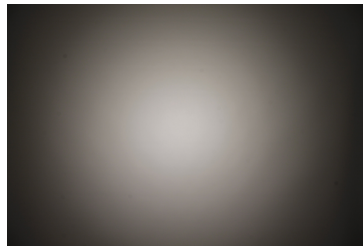


SEOUL SEMICONDUCTOR

LED AC Zhaga COB  
 FWHM / FWTM 41.0° / 77.0°  
 Efficiency 79 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS  
 Optosource: SEHSMJD-A



Light distribution files

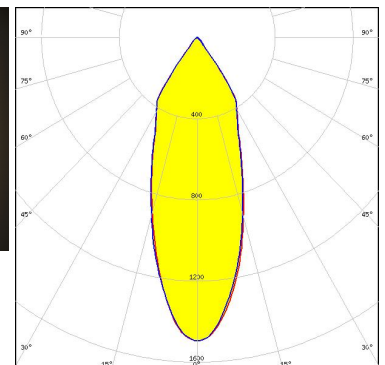


SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5  
 FWHM / FWTM 37.0° / 75.0°  
 Efficiency 82 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

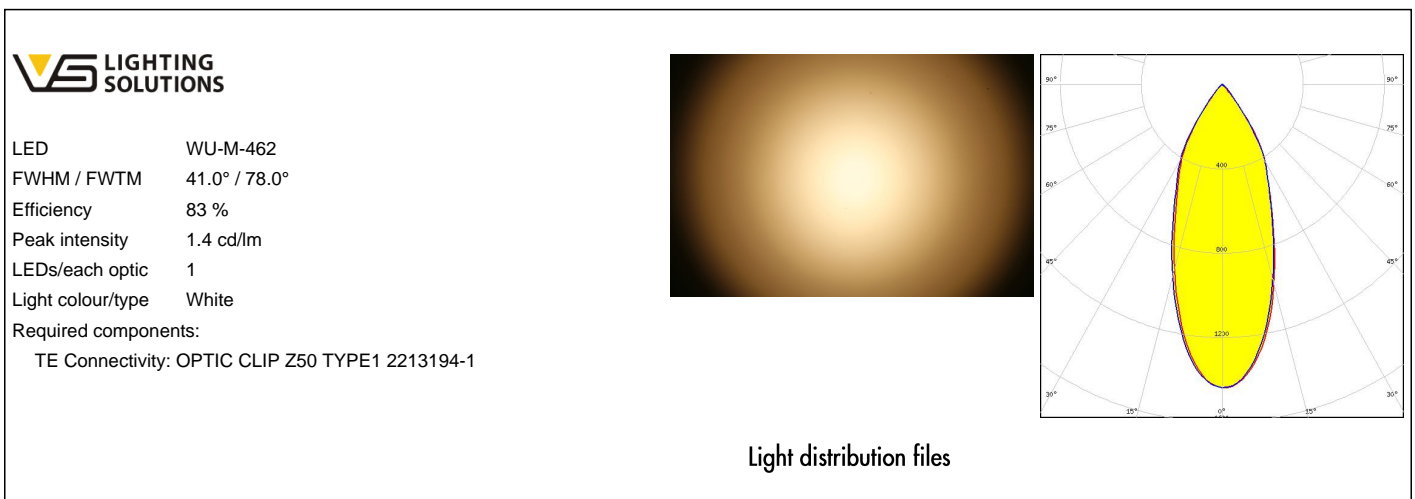
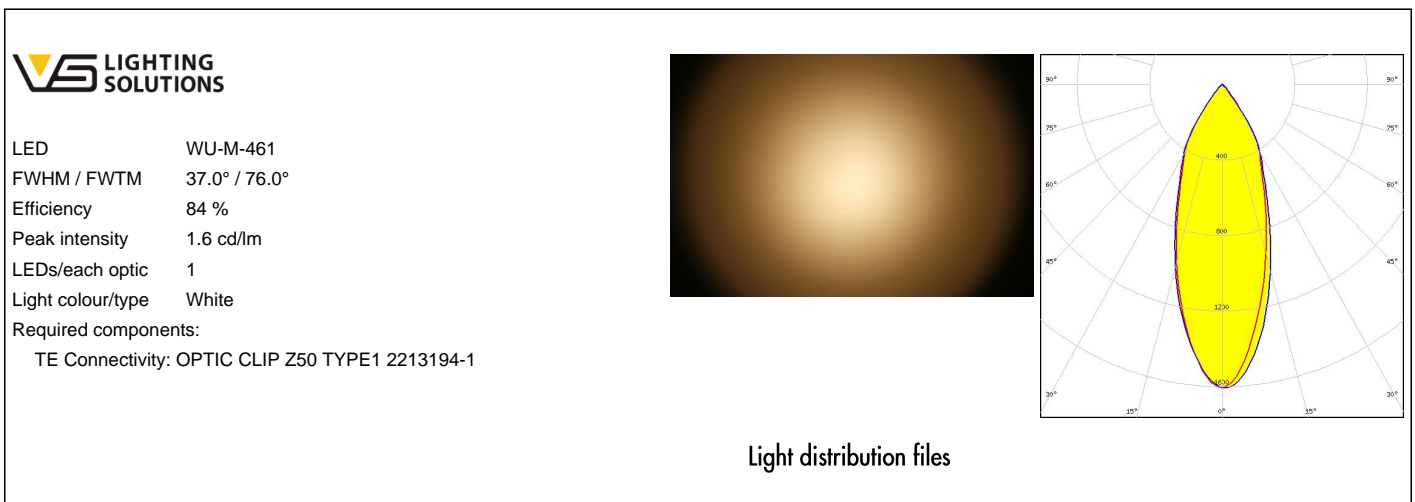
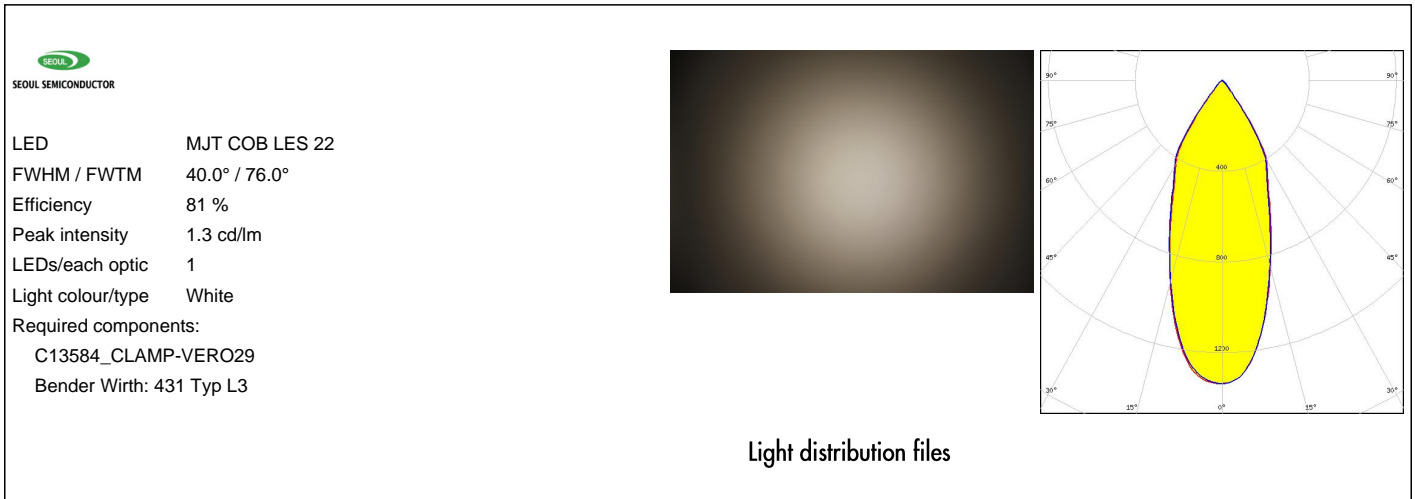
Required components:

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



Light distribution files

### OPTICAL RESULTS (MEASURED):





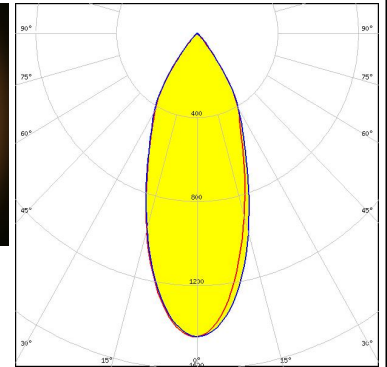
### OPTICAL RESULTS (MEASURED):



LED WU-M-464  
 FWHM / FWTM 41.0° / 78.0°  
 Efficiency 83 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



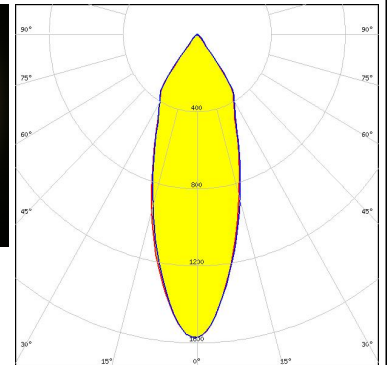
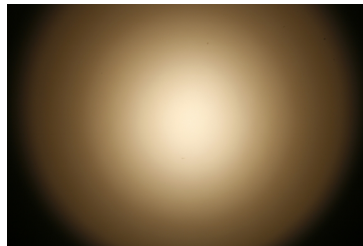
Light distribution files



LED WU-M-484  
 FWHM / FWTM 35.0° / 75.0°  
 Efficiency 83 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



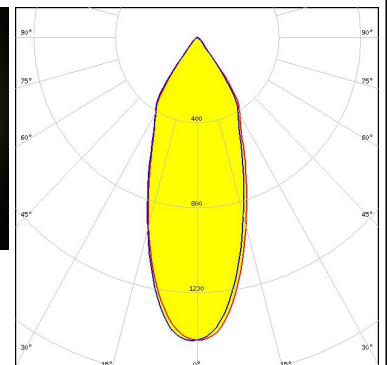
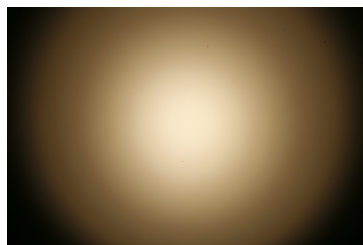
Light distribution files



LED WU-M-485  
 FWHM / FWTM 39.0° / 77.0°  
 Efficiency 83 %  
 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



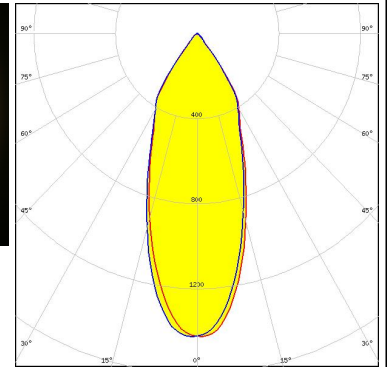
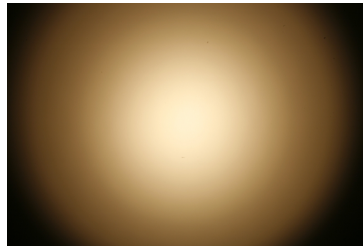
### OPTICAL RESULTS (MEASURED):



LED WU-M-486  
FWHM / FWTM 39.0° / 76.0°  
Efficiency 83 %  
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 (SIMULATED):

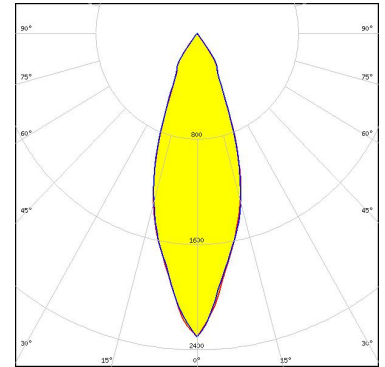
bridgelux.

LED V10 Gen7  
 FWHM / FWTM 34.0° / 69.0°  
 Efficiency 89 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18

Bender Wirth: 486 Typ L1



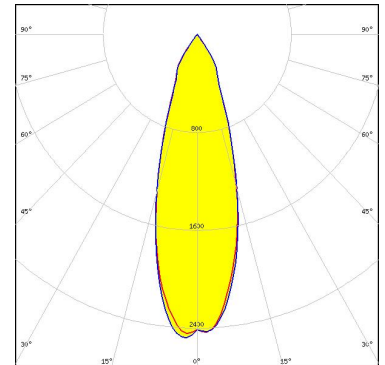
Light distribution files

bridgelux.

LED V13 Gen7  
 FWHM / FWTM 32.0° / 66.0°  
 Efficiency 89 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2103CT + 50-2100AN



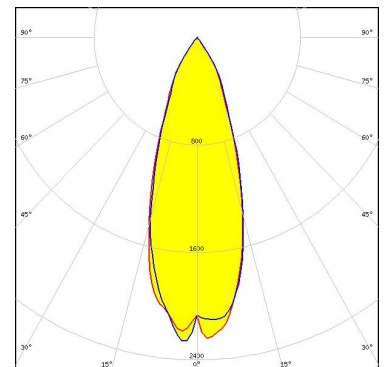
Light distribution files

bridgelux.

LED V22 Gen7  
 FWHM / FWTM 34.0° / 68.0°  
 Efficiency 93 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

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



Light distribution files

### OPTICAL RESULTS (SIMULATED):

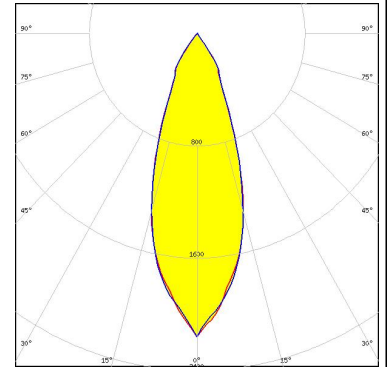


LED CXA/B 1830  
FWHM / FWTM 35.0° / 69.0°  
Efficiency 87 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1

Light distribution files



LED CxM-14 (19x19)  
FWHM / FWTM 36.0° / 75.0°  
Efficiency 82 %  
Peak intensity 1.5 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 33.0° / 74.0°  
Efficiency 83 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13658\_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1

Light distribution files

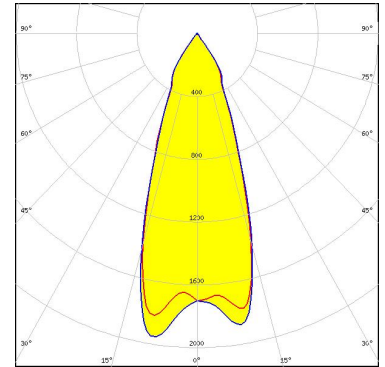
### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED Soleriq S15  
FWHM / FWTM 36.0° / 69.5°  
Efficiency 89 %  
Peak intensity 2 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



**SEUL**  
SEOUL SEMICONDUCTOR

LED ZC12/18  
FWHM / FWTM 36.0° / 75.0°  
Efficiency 82 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18

Bender Wirth: 433 Typ L1

**SEUL**  
SEOUL SEMICONDUCTOR

LED ZC4/6  
FWHM / FWTM 33.0° / 74.0°  
Efficiency 83 %  
Peak intensity 1.7 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:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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