

## ANGELA-S

~10° spot beam

### TECHNICAL SPECIFICATIONS:

|                |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|
| Dimensions     | Ø 119.5 mm                                                                            |
| Height         | 74.3 mm                                                                               |
| Fastening      | socket                                                                                |
| ROHS compliant | yes  |

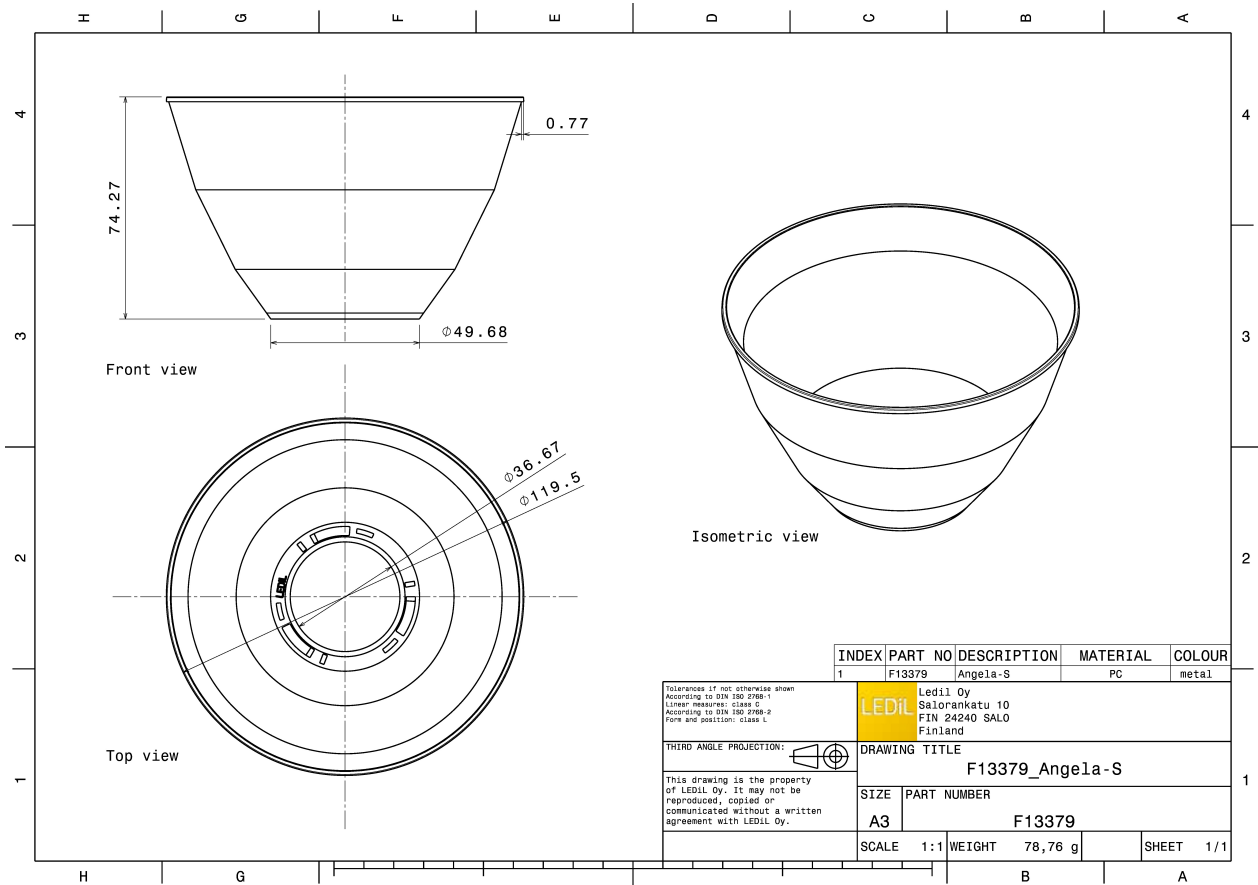
### MATERIAL SPECIFICATIONS:

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



### ORDERING INFORMATION:

| Component                                         | Qty in box | MOQ | MPQ | Box weight (kg) |
|---------------------------------------------------|------------|-----|-----|-----------------|
| F13379_ANGELA-S<br>» Box size: 398 x 298 x 265 mm | 200        | 100 | 50  | 9.3             |

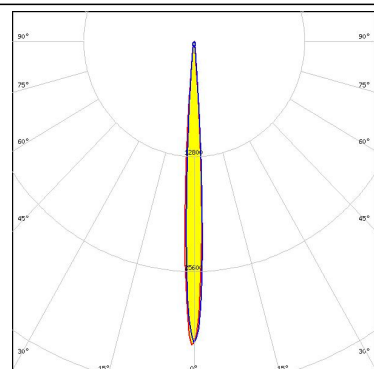
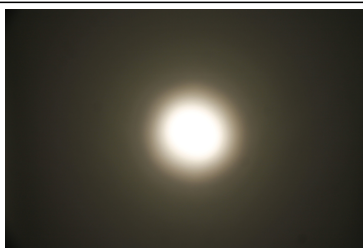




### PHOTOMETRIC DATA (MEASURED):

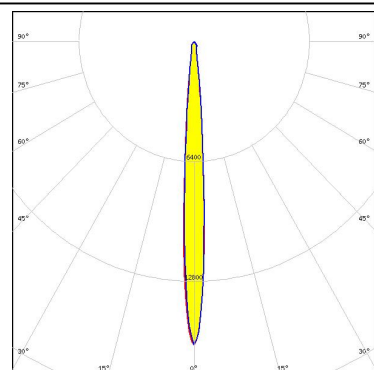
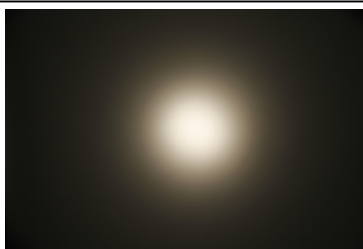
bridgelux

LED V10 Gen7  
FWHM 6.0°  
Efficiency 89 %  
Peak intensity 33.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 434 Typ L1



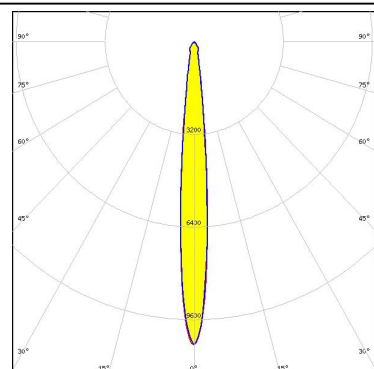
bridgelux

LED V10 Gen7  
FWHM 8.0°  
Efficiency 84 %  
Peak intensity 16.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 434 Typ L1



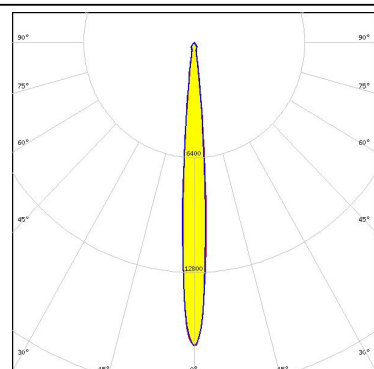
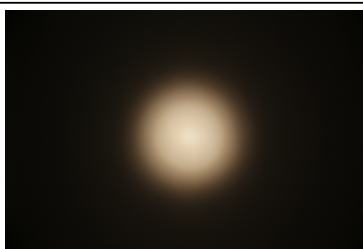
bridgelux

LED V13 Gen7  
FWHM 10.0°  
Efficiency 86 %  
Peak intensity 10.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



bridgelux

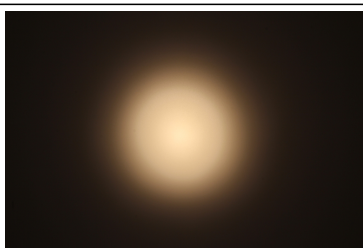
LED V13 Gen7  
FWHM 9.0°  
Efficiency 90 %  
Peak intensity 17 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



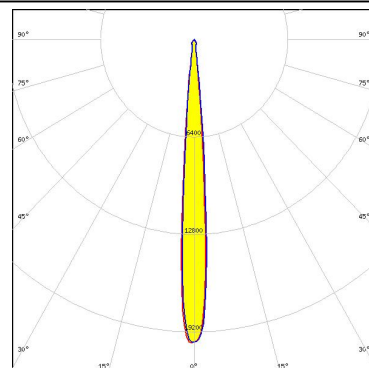
#### PHOTOMETRIC DATA (MEASURED):



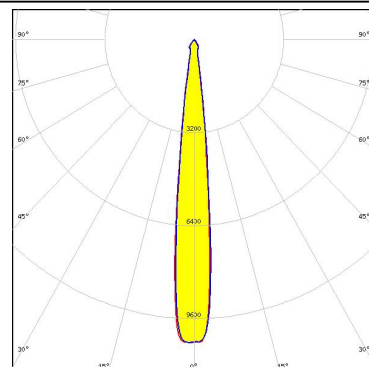
LED V15 Gen6  
FWHM 10.0°  
Efficiency 92 %  
Peak intensity 15.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 456 Typ L2



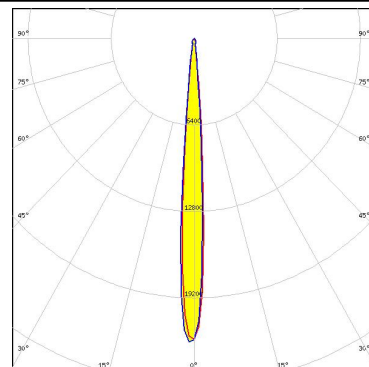
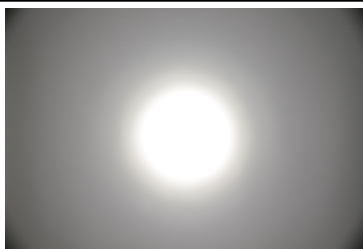
LED Vero SE 13  
FWHM 9.0°  
Efficiency 92 %  
Peak intensity 19.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16402\_CLAMP-VEROSE-13-18



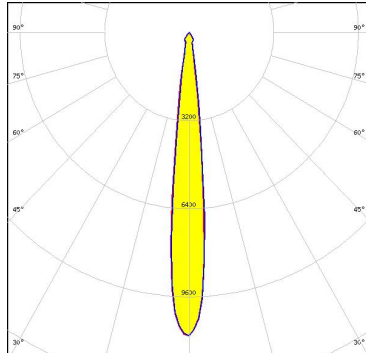
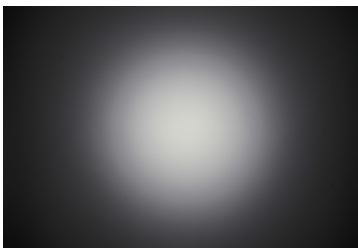
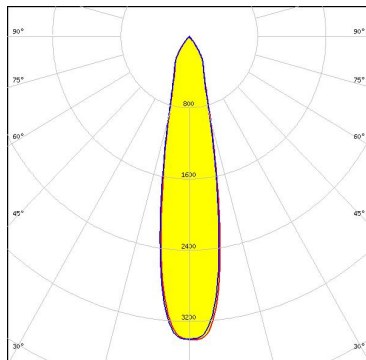
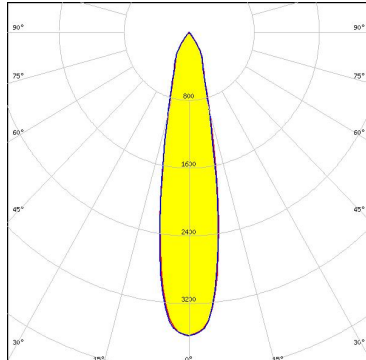
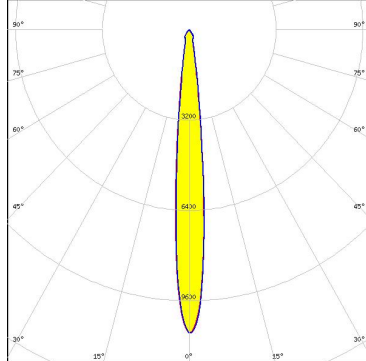
LED Vero SE 18  
FWHM 12.0°  
Efficiency 91 %  
Peak intensity 10.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16402\_CLAMP-VEROSE-13-18



LED VERO13  
FWHM 8.0°  
Efficiency 94 %  
Peak intensity 22.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18



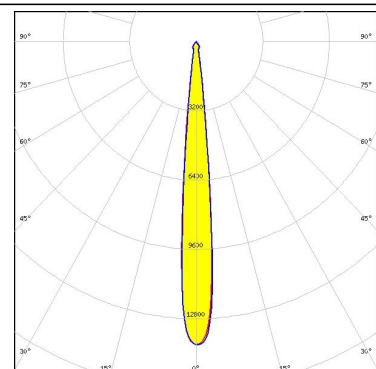
#### PHOTOMETRIC DATA (MEASURED):

|                                                                                                                                                                                                                                                                                                         |                                                                                      |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 12.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 11 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13658_CLAMP-VERO13-18</p>                                                                                |    |    |
| <p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 22.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13584_CLAMP-VERO29</p> <p>F13671_ANGE-RZ-LENS</p>                                                       |   |   |
| <p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 22.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13584_CLAMP-VERO29</p> <p>F13671_ANGE-RZ-LENS</p>                                                       |  |  |
| <p>bridgelux.</p> <p>LED Vesta TW 15mm DP</p> <p>FWHM 11.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 10.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components:</p> <p>C13658_CLAMP-VERO13-18</p> <p>F13671_ANGE-RZ-LENS</p> <p>Bender Wirth: 482 Typ L2</p> |  |  |

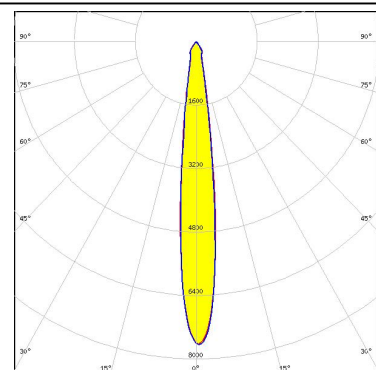
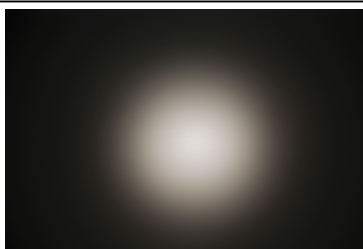
### PHOTOMETRIC DATA (MEASURED):



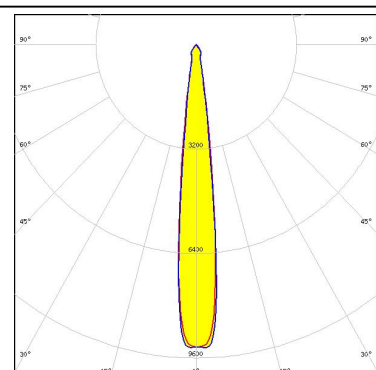
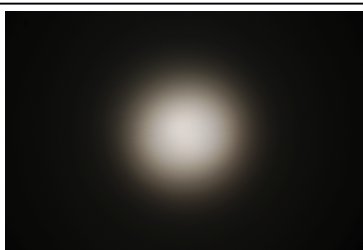
LED Vesta TW 15mm DP  
FWHM 11.0°  
Efficiency 92 %  
Peak intensity 14 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 482 Typ L2



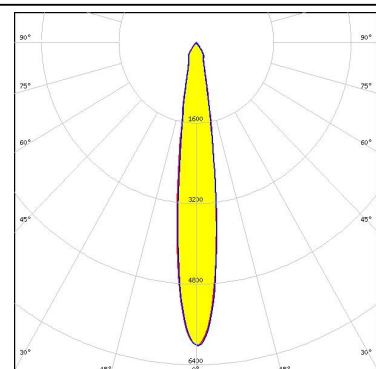
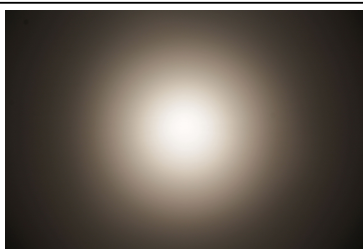
LED Vesta TW 18mm (31W) DP  
FWHM 13.0°  
Efficiency 87 %  
Peak intensity 7.7 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 483 Typ L3



LED Vesta TW 18mm (31W) DP  
FWHM 13.0°  
Efficiency 92 %  
Peak intensity 9.3 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 483 Typ L3



LED Vesta TW 22mm DP  
FWHM 15.0°  
Efficiency 87 %  
Peak intensity 6 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 494 Typ L3

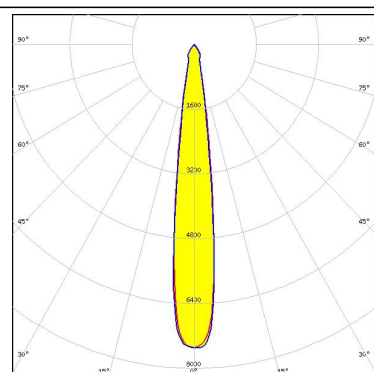




### PHOTOMETRIC DATA (MEASURED):

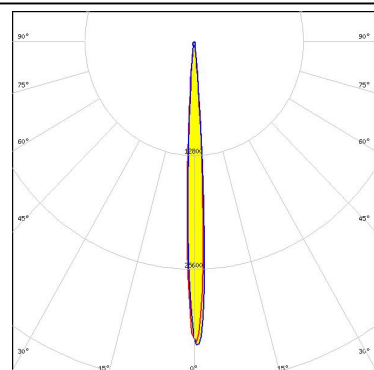


LED Vesta TW 22mm DP  
FWHM 14.0°  
Efficiency 92 %  
Peak intensity 7.5 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 494 Typ L3



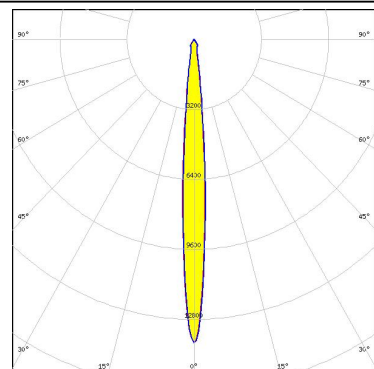
### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 6.0°  
Efficiency 90 %  
Peak intensity 34.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 434 Typ L1



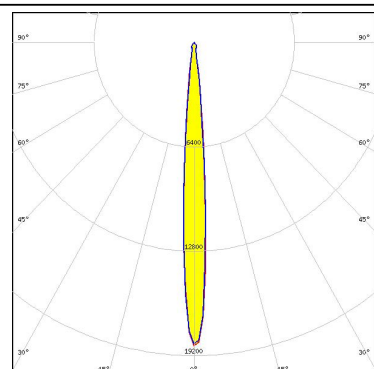
### CITIZEN

LED CLL03x/CLU03x  
FWHM 9.0°  
Efficiency 88 %  
Peak intensity 14 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2103CT + 50-2100AN



### CITIZEN

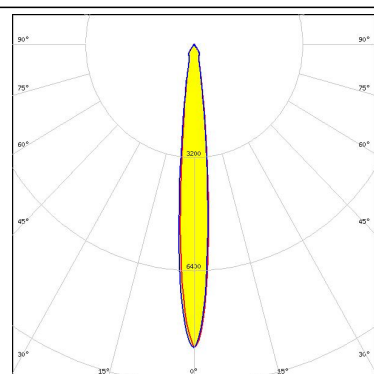
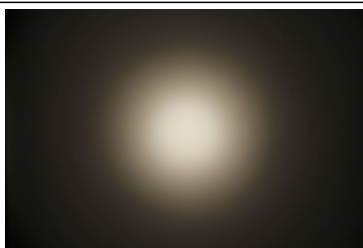
LED CLL03x/CLU03x  
FWHM 9.0°  
Efficiency 94 %  
Peak intensity 18.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



### PHOTOMETRIC DATA (MEASURED):

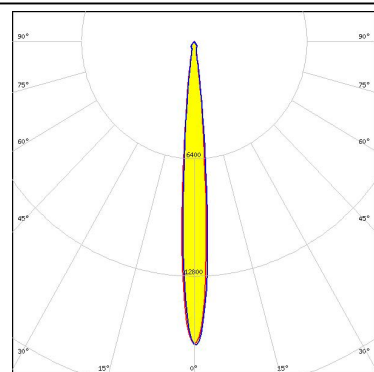
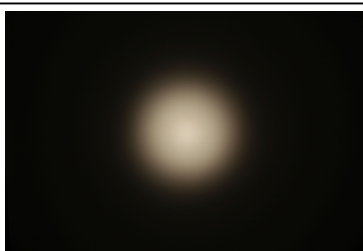
#### CITIZEN

LED CLL03x/CLU03x  
FWHM 11.0°  
Efficiency 84 %  
Peak intensity 8.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
IDEAL: 50-2103CT + 50-2100AN



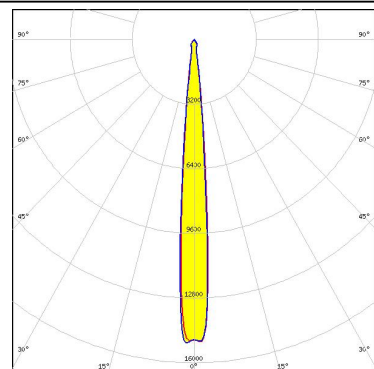
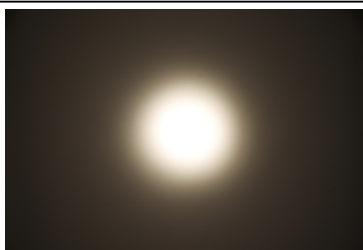
#### CITIZEN

LED CLL03x/CLU03x  
FWHM 9.0°  
Efficiency 93 %  
Peak intensity 16.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16791\_CLAMP-Z45-A  
TE: 2325807-3



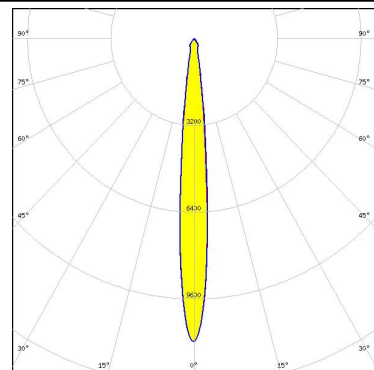
#### CITIZEN

LED CLL03x/CLU03x  
FWHM 10.0°  
Efficiency 88 %  
Peak intensity 15 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 433 Typ L1



#### CITIZEN

LED CLL03x/CLU03x  
FWHM 10.0°  
Efficiency 89 %  
Peak intensity 11.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16791\_CLAMP-Z45-A  
F13671\_ANGE-RZ-LENS  
TE: 2325807-3



### PHOTOMETRIC DATA (MEASURED):

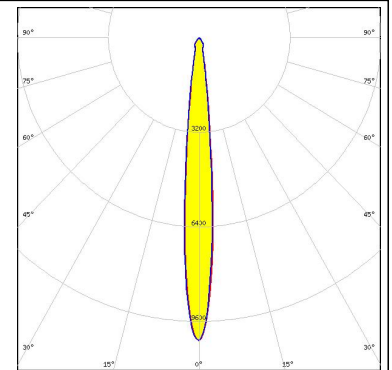
#### CITIZEN

LED CLL03x/CLU03x  
FWHM 11.0°  
Efficiency 85 %  
Peak intensity 10 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

F13671\_ANGE-RZ-LENS

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



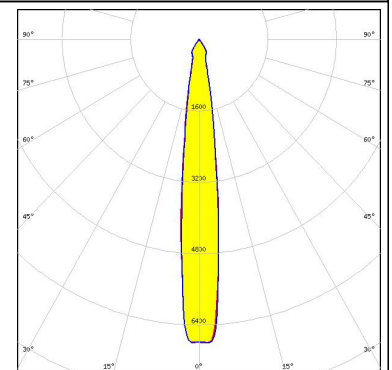
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 14.0°  
Efficiency 89 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

C13584\_CLAMP-VERO29

Bender Wirth: 431 Typ L3



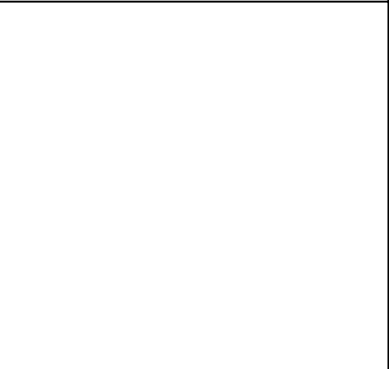
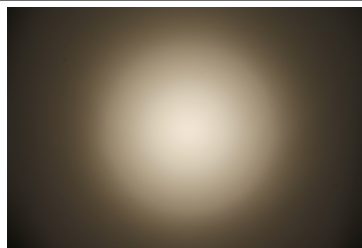
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 16.0°  
Efficiency 85 %  
Peak intensity 5.2 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

F13671\_ANGE-RZ-LENS

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



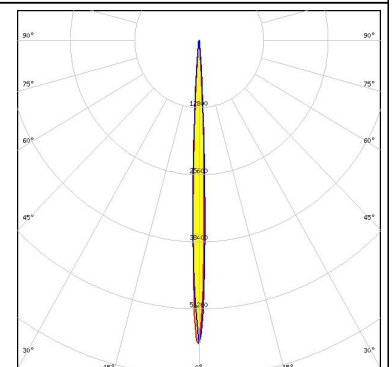
#### CITIZEN

LED CLU700/701/702  
FWHM 5.0°  
Efficiency 88 %  
Peak intensity 57.8 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

C13658\_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1



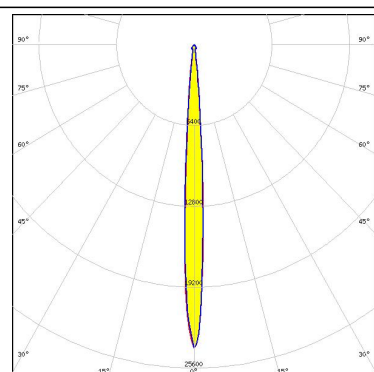
### PHOTOMETRIC DATA (MEASURED):

#### CITIZEN

LED CLU720/721  
FWHM 7.0°  
Efficiency 94 %  
Peak intensity 24 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

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



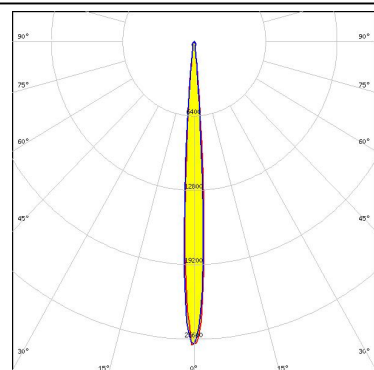
#### CITIZEN

LED CLU720/721  
FWHM 7.0°  
Efficiency 88 %  
Peak intensity 26.1 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

C13658\_CLAMP-VERO13-18

Bender Wirth: 433 Typ L1



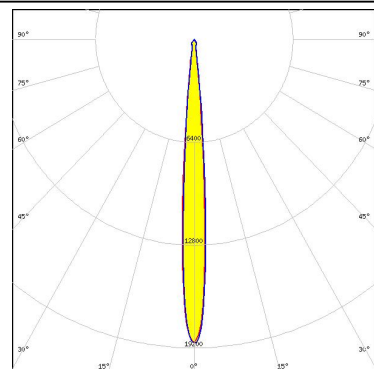
#### CITIZEN

LED CLU730/731  
FWHM 8.5°  
Efficiency 91 %  
Peak intensity 18.9 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

C13584\_CLAMP-VERO29

Bender Wirth: 471 Typ L3

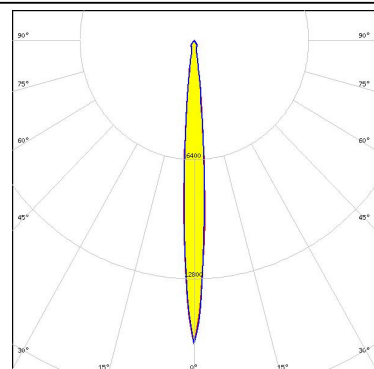


#### CITIZEN

LED CLU730/731  
FWHM 8.0°  
Efficiency 88 %  
Peak intensity 16.3 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:

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

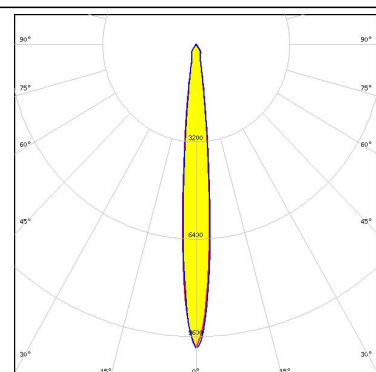
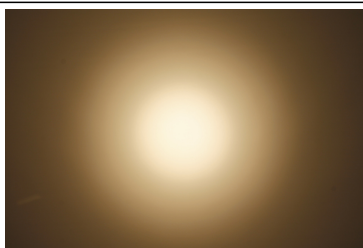




#### PHOTOMETRIC DATA (MEASURED):

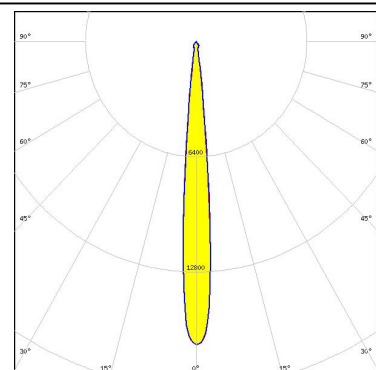
#### CITIZEN

LED CLU730/731  
 FWHM 10.0°  
 Efficiency 85 %  
 Peak intensity 10 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



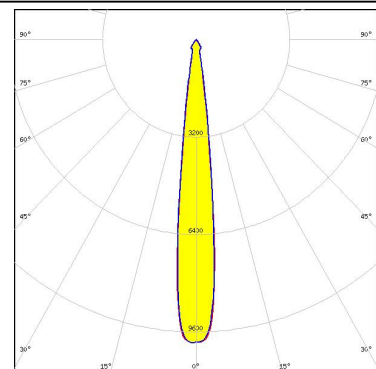
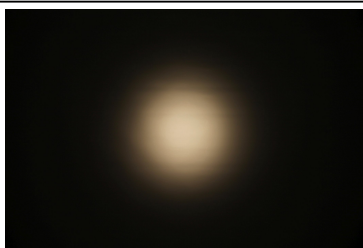
#### CREE

LED CMA1840  
 FWHM 9.7°  
 Efficiency 93 %  
 Peak intensity 16.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14123\_CLAMP-CXA15-18



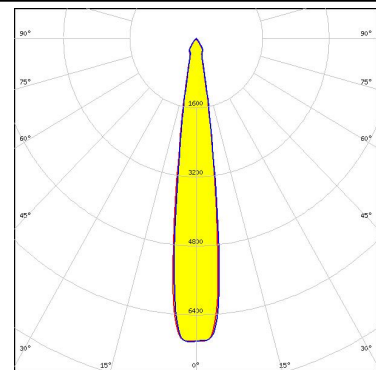
#### CREE

LED CMA2550  
 FWHM 13.0°  
 Efficiency 92 %  
 Peak intensity 10 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



#### CREE

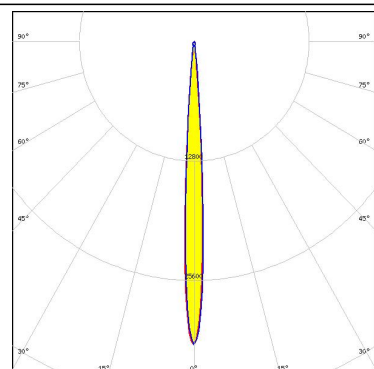
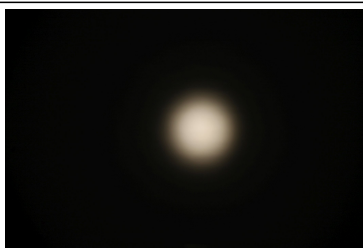
LED CMA3090  
 FWHM 15.0°  
 Efficiency 92 %  
 Peak intensity 7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



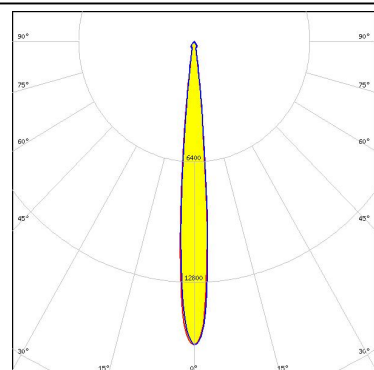
#### PHOTOMETRIC DATA (MEASURED):



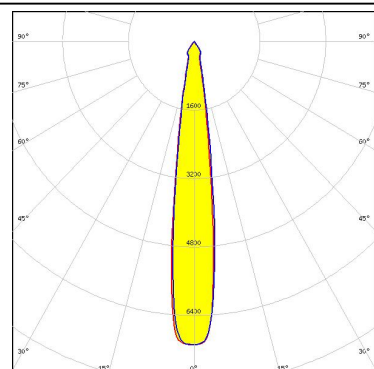
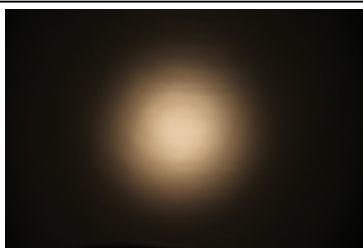
LED CMT14xx  
FWHM 7.0°  
Efficiency 93 %  
Peak intensity 33 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 434 Typ L1



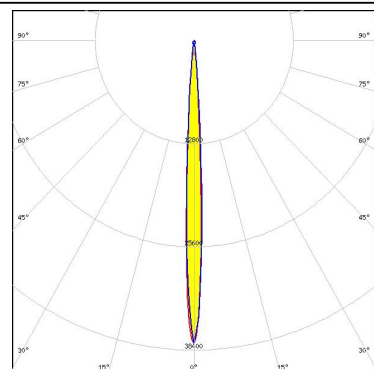
LED CMT19xx  
FWHM 10.0°  
Efficiency 92 %  
Peak intensity 16.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 477 Typ L1



LED CMT28xx  
FWHM 15.0°  
Efficiency 91 %  
Peak intensity 7.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 471 Typ L3



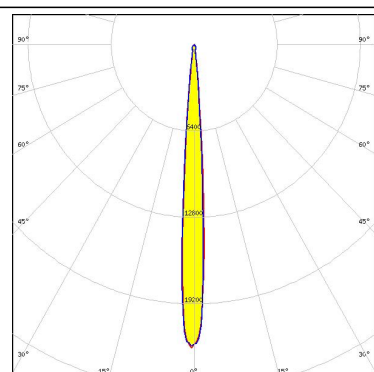
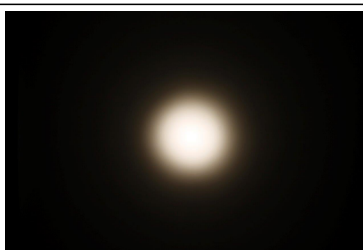
LED CXA/B 15xx  
FWHM 5.8°  
Efficiency 92 %  
Peak intensity 37.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 441 Typ L1



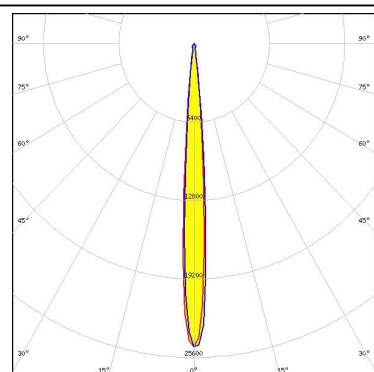
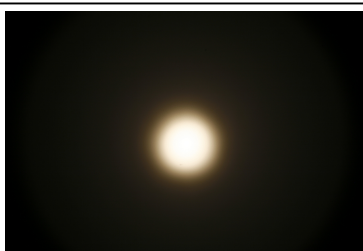
### PHOTOMETRIC DATA (MEASURED):



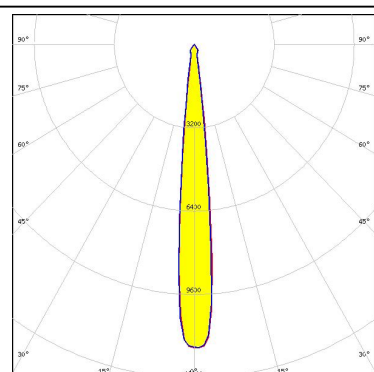
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM 8.0°  
Efficiency 89 %  
Peak intensity 22.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 437 Typ L1



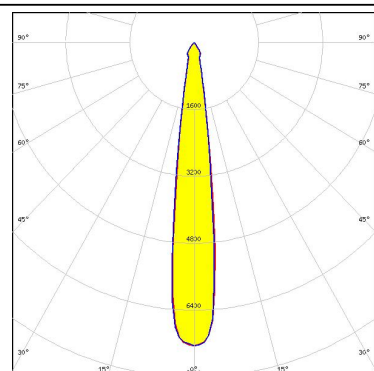
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM 9.0°  
Efficiency 91 %  
Peak intensity 24.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14123\_CLAMP-CXA15-18



LED CXA/B 25xx  
FWHM 11.0°  
Efficiency 92 %  
Peak intensity 11.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14036\_CLAMP\_CXA25-30



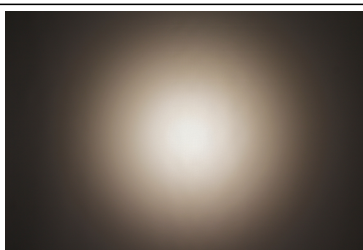
LED CXA/B 30xx  
FWHM 14.0°  
Efficiency 92 %  
Peak intensity 7.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14036\_CLAMP\_CXA25-30



### PHOTOMETRIC DATA (MEASURED):

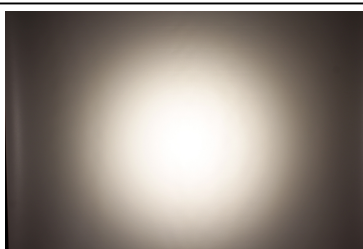
#### EVERLIGHT

LED CHI3030 19W  
FWHM 14.0°  
Efficiency 85 %  
Peak intensity 6.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3



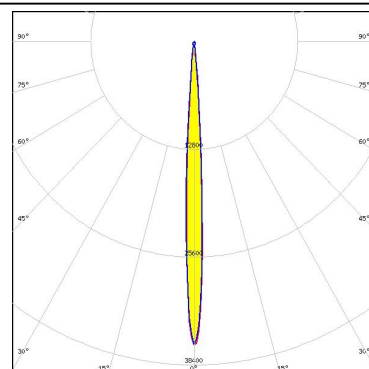
#### EVERLIGHT

LED CHI3030 29W  
FWHM 18.0°  
Efficiency 85 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3



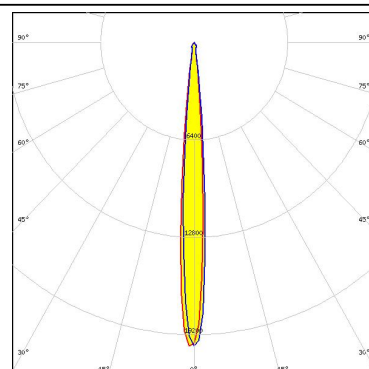
#### LUMILEDS

LED LUXEON CoB 1202/1203  
FWHM 6.0°  
Efficiency 91 %  
Peak intensity 36 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 438 Typ L1



#### LUMILEDS

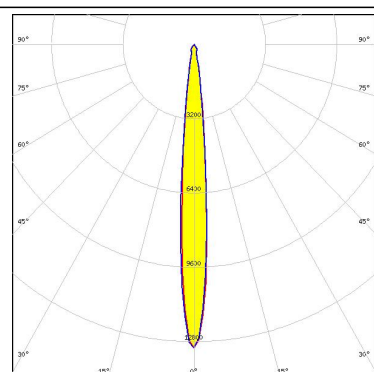
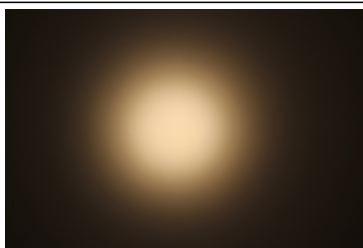
LED LUXEON CoB 1204/1205  
FWHM 8.0°  
Efficiency 94 %  
Peak intensity 19.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



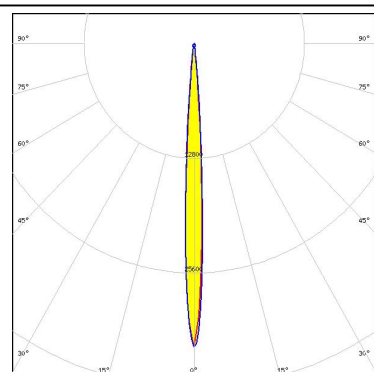
### PHOTOMETRIC DATA (MEASURED):



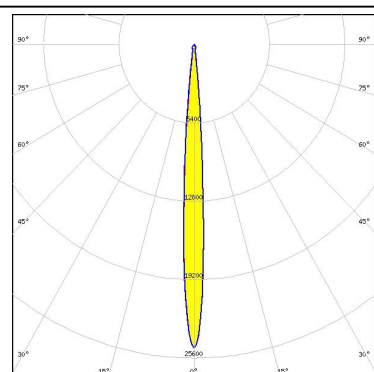
LED LUXEON CoB 1204/1205  
FWHM 10.0°  
Efficiency 85 %  
Peak intensity 13.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



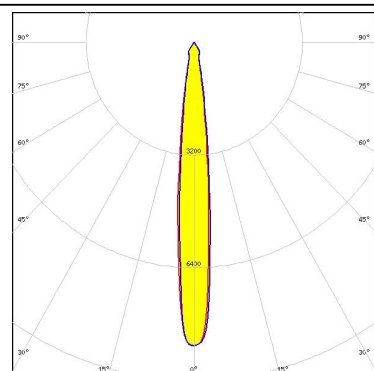
LED LUXEON CoB 1204HD  
FWHM 6.4°  
Efficiency 93 %  
Peak intensity 34 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1205HD  
FWHM 7.5°  
Efficiency 93 %  
Peak intensity 24.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208  
FWHM 12.0°  
Efficiency 88 %  
Peak intensity 8.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2204-CT + 50-2100AN

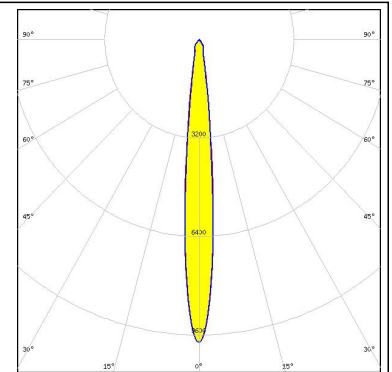




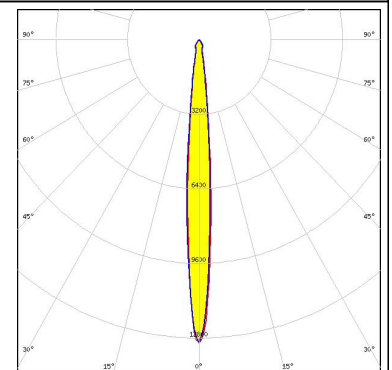
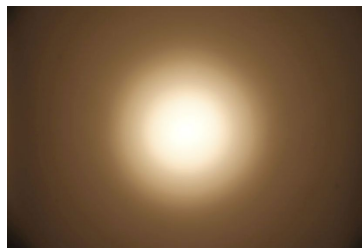
### PHOTOMETRIC DATA (MEASURED):



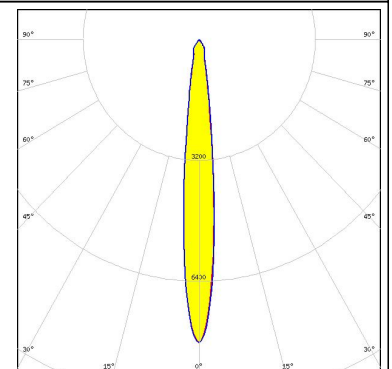
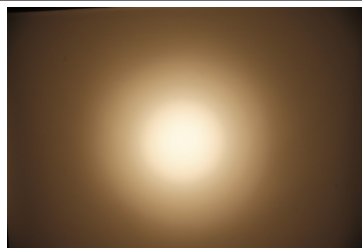
LED LUXEON CoB 1208  
FWHM 11.0°  
Efficiency 85 %  
Peak intensity 9.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



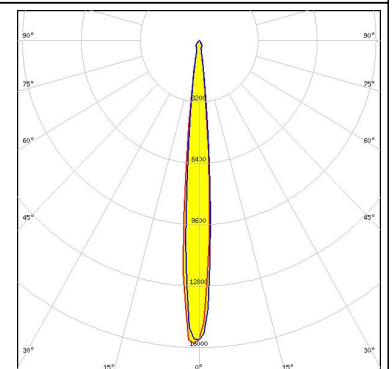
LED LUXEON CoB 1208  
FWHM 9.0°  
Efficiency 89 %  
Peak intensity 13 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2100SH + 50-2100AN



LED LUXEON CoB 1208  
FWHM 12.0°  
Efficiency 84 %  
Peak intensity 8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
IDEAL: 50-2100SH + 50-2100AN



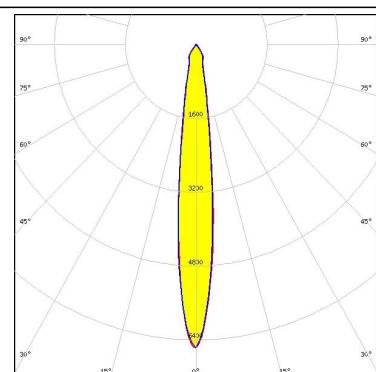
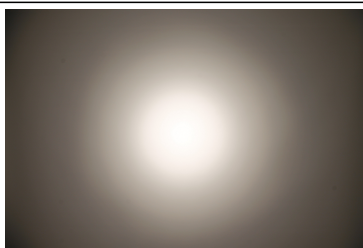
LED LUXEON CoB 1208  
FWHM 10.0°  
Efficiency 94 %  
Peak intensity 15.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



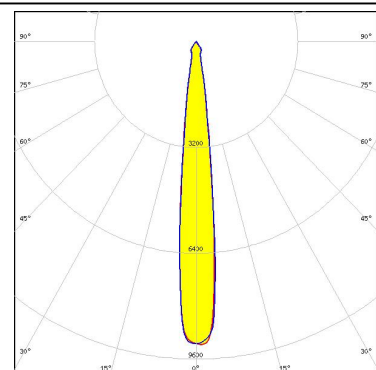
#### PHOTOMETRIC DATA (MEASURED):



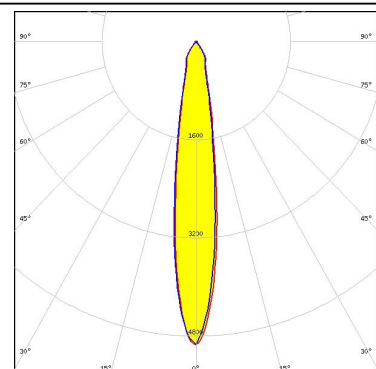
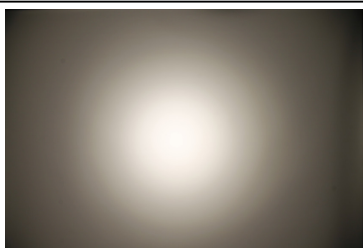
LED LUXEON CoB 1211  
 FWHM 13.0°  
 Efficiency 84 %  
 Peak intensity 6.6 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



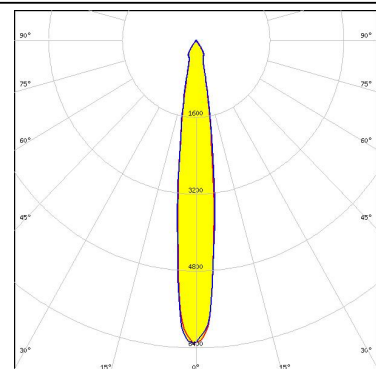
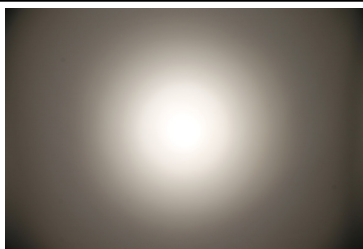
LED LUXEON CoB 1211  
 FWHM 13.0°  
 Efficiency 90 %  
 Peak intensity 9.2 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



LED LUXEON CoB 1216/1812  
 FWHM 16.0°  
 Efficiency 84 %  
 Peak intensity 4.9 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



LED LUXEON CoB 1216/1812  
 FWHM 14.0°  
 Efficiency 88 %  
 Peak intensity 6.3 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



#### PHOTOMETRIC DATA (MEASURED):



LED LUXEON K12

FWHM 9.0°

Efficiency 90 %

Peak intensity 13 cd/Im

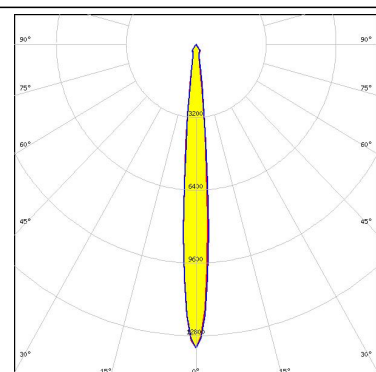
LEDs/each optic 1

Light colour White

Required components:

F13671\_ANGE-RZ-LENS

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



LED LUXEON K16

FWHM 10.0°

Efficiency 90 %

Peak intensity 11 cd/Im

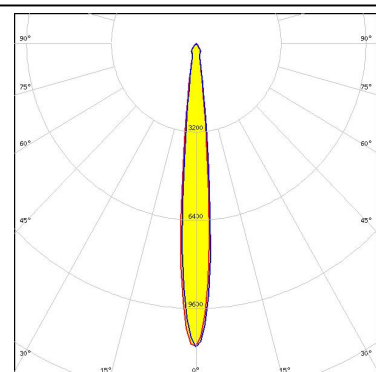
LEDs/each optic 1

Light colour White

Required components:

F13671\_ANGE-RZ-LENS

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



LED LUXEON S2000

FWHM 9.0°

Efficiency 87 %

Peak intensity 16 cd/Im

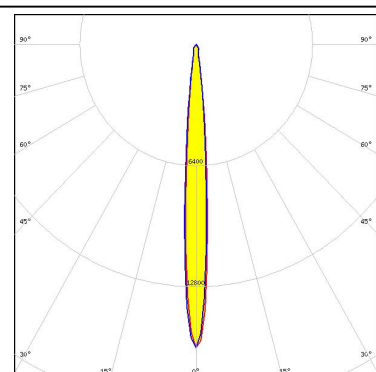
LEDs/each optic 1

Light colour White

Required components:

C13395\_CLAMP-S2000

F13671\_ANGE-RZ-LENS



LED LUXEON S3000

FWHM 10.0°

Efficiency 87 %

Peak intensity 13.8 cd/Im

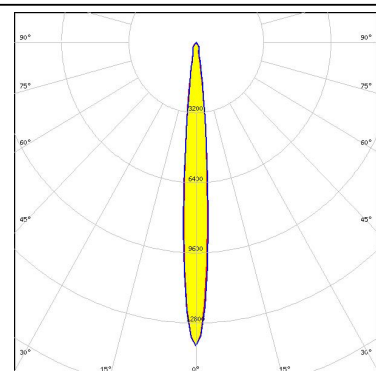
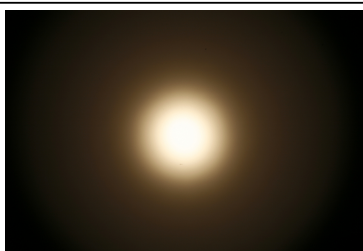
LEDs/each optic 1

Light colour White

Required components:

C13397\_CLAMP-S3000

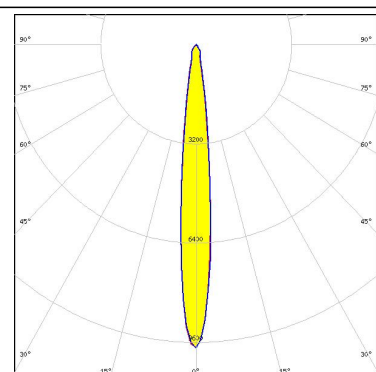
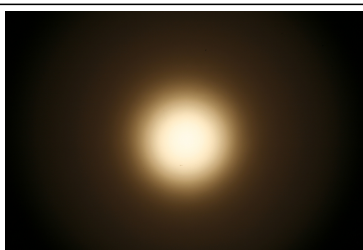
F13671\_ANGE-RZ-LENS



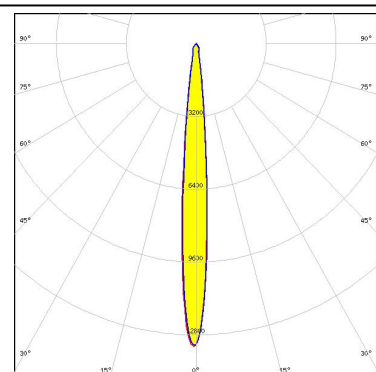
#### PHOTOMETRIC DATA (MEASURED):



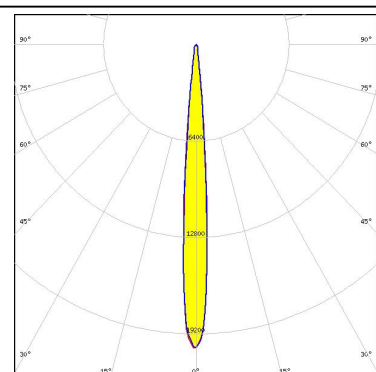
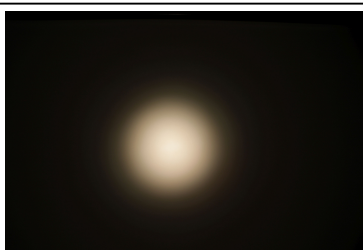
LED LUXEON S5000  
 FWHM 12.0°  
 Efficiency 86 %  
 Peak intensity 9.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13399\_CLAMP-S5000  
 F13671\_ANGE-RZ-LENS



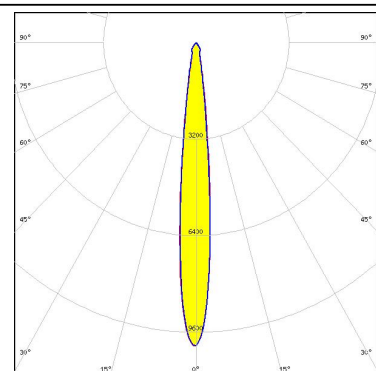
LED CDM-14 (Dim-To-Warm)  
 FWHM 9.5°  
 Efficiency 87 %  
 Peak intensity 13.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



LED CDM-14 (Dim-To-Warm)  
 FWHM 8.6°  
 Efficiency 92 %  
 Peak intensity 20.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)  
 FWHM 11.0°  
 Efficiency 88 %  
 Peak intensity 10 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2

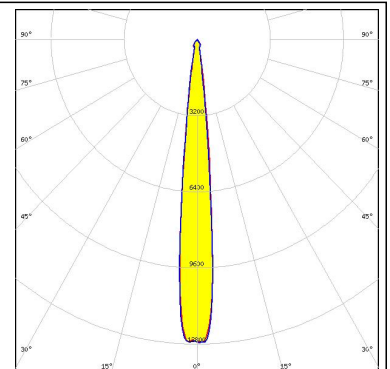




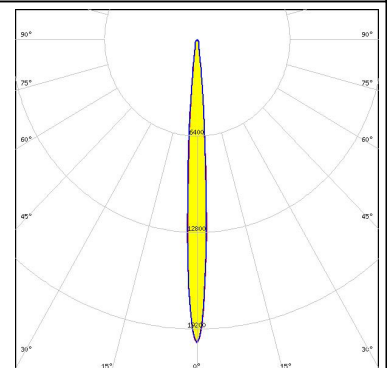
### PHOTOMETRIC DATA (MEASURED):



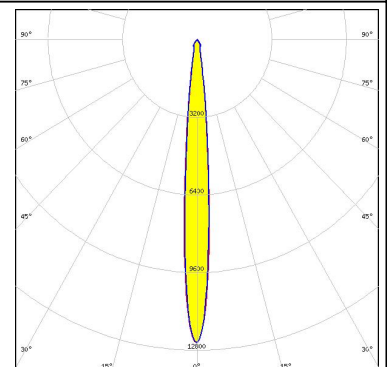
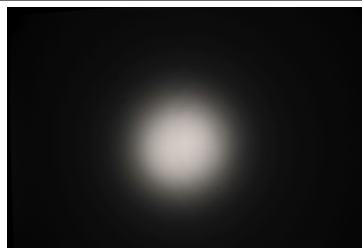
LED CDM-18 (Dim-To-Warm)  
FWHM 11.0°  
Efficiency 92 %  
Peak intensity 12.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 491 Typ L2



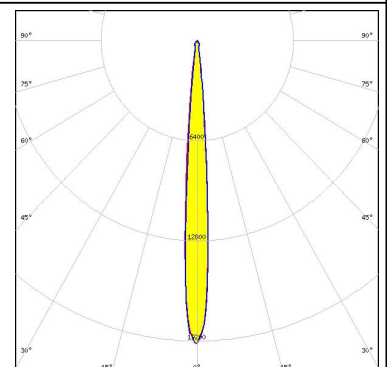
LED CDM-9 (Dim-To-Warm)  
FWHM 7.2°  
Efficiency 85 %  
Peak intensity 20.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 490 Typ L1



LED CTM-14 (Tunable White)  
FWHM 9.0°  
Efficiency 85 %  
Peak intensity 12.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 442 Typ L3



LED CTM-14 (Tunable White)  
FWHM 8.0°  
Efficiency 90 %  
Peak intensity 19.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 442 Typ L3

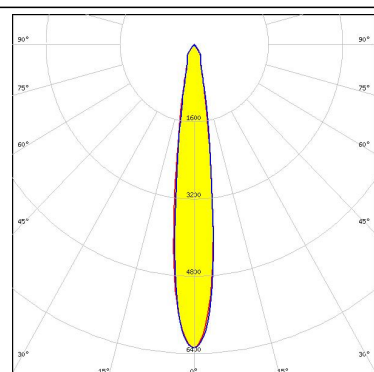
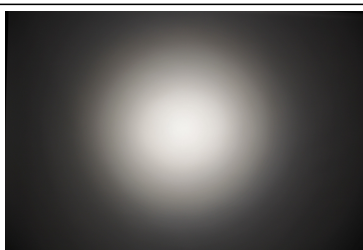




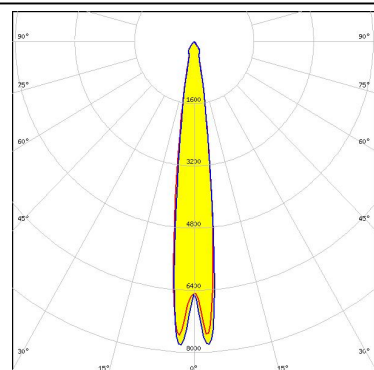
### PHOTOMETRIC DATA (MEASURED):



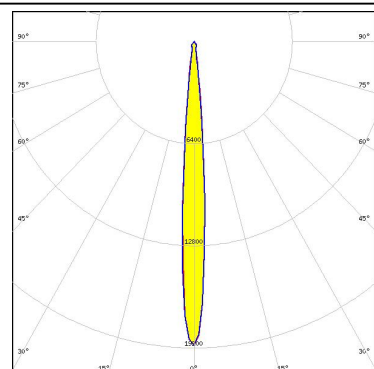
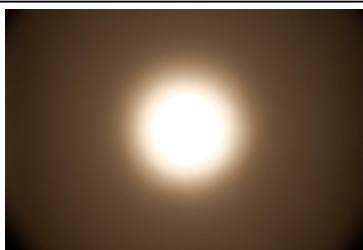
LED CTM-22 (Tunable White)  
FWHM 15.0°  
Efficiency 85 %  
Peak intensity 6.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 494 Typ L3



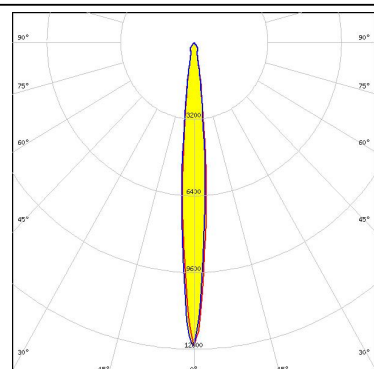
LED CTM-22 (Tunable White)  
FWHM 14.0°  
Efficiency 90 %  
Peak intensity 7.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 494 Typ L3



LED CxM-14 (19x19)  
FWHM 9.0°  
Efficiency 94 %  
Peak intensity 19 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



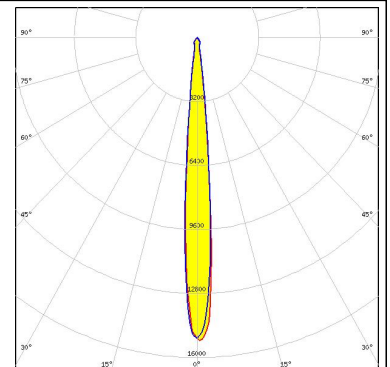
LED COB J-Type  
FWHM 9.0°  
Efficiency 91 %  
Peak intensity 12.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2103NC + 50-2100AN



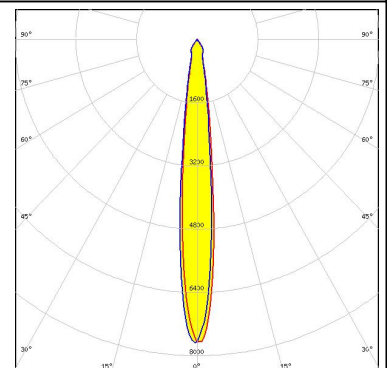
#### PHOTOMETRIC DATA (MEASURED):



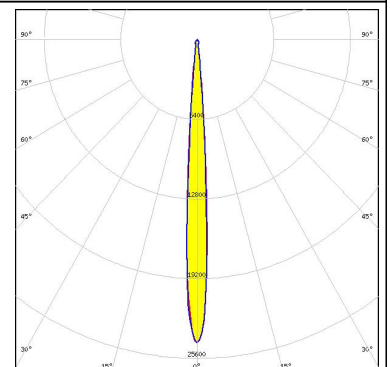
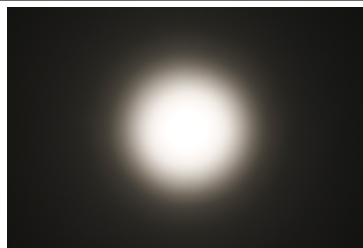
LED COB J-Type  
FWHM 9.0°  
Efficiency 89 %  
Peak intensity 15.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 463 Typ L2



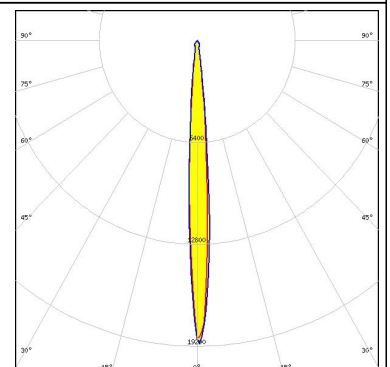
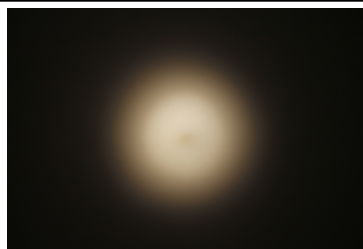
LED COB J-Type  
FWHM 12.0°  
Efficiency 86 %  
Peak intensity 7.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
IDEAL: 50-2103NC + 50-2100AN



LED COB L-Type (LES 11)  
FWHM 7.0°  
Efficiency 89 %  
Peak intensity 24.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 438 Typ L1



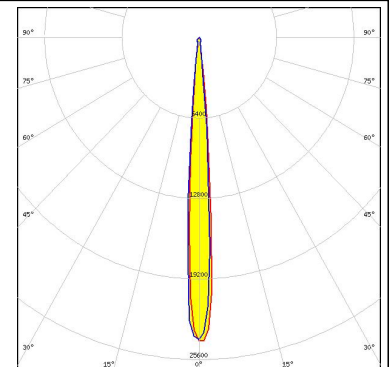
LED COB L-Type (LES 11)  
FWHM 8.0°  
Efficiency 88 %  
Peak intensity 19 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2100NC + 50-2100AN



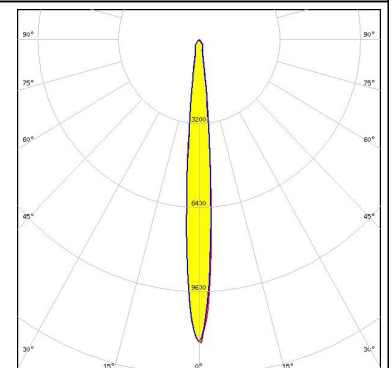
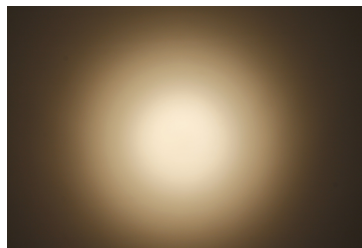
#### PHOTOMETRIC DATA (MEASURED):



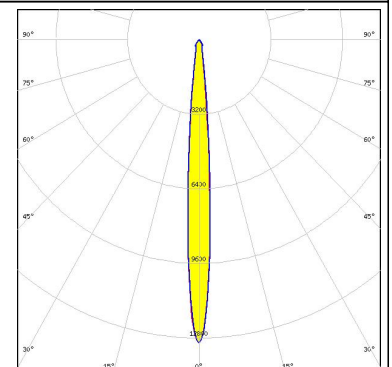
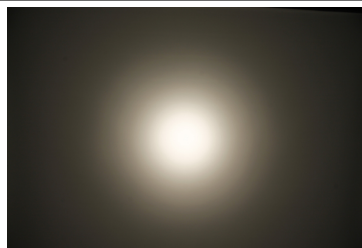
LED COB L-Type (LES 11)  
 FWHM 8.0°  
 Efficiency 94 %  
 Peak intensity 24 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Molex: 180580-0005



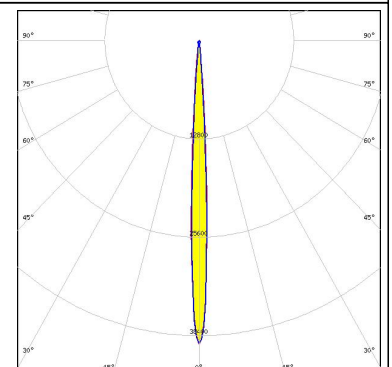
LED COB L-Type (LES 11)  
 FWHM 9.0°  
 Efficiency 84 %  
 Peak intensity 12 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2100NC + 50-2100AN



LED COB L-Type (LES 11)  
 FWHM 9.0°  
 Efficiency 84 %  
 Peak intensity 13 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



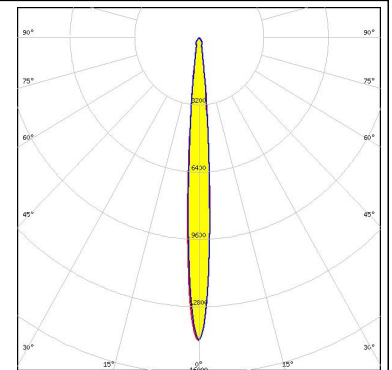
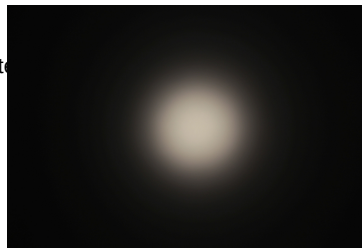
LED COB L-Type (LES 9)  
 FWHM 6.0°  
 Efficiency 93 %  
 Peak intensity 39 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



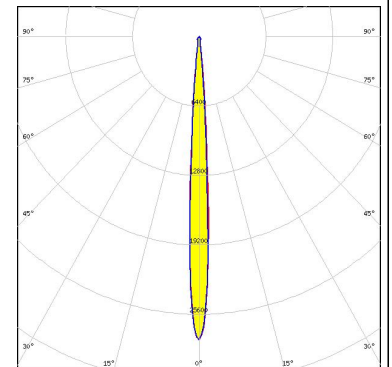
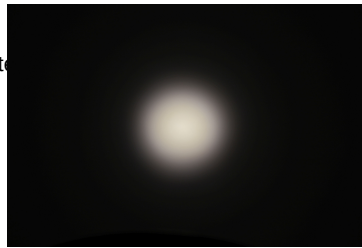
#### PHOTOMETRIC DATA (MEASURED):



LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
 FWHM 9.0°  
 Efficiency 86 %  
 Peak intensity 14.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 498 Typ L2

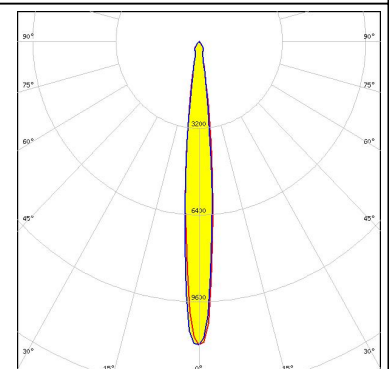
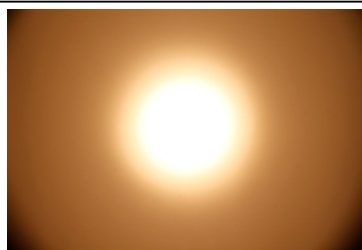


LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
 FWHM 7.0°  
 Efficiency 91 %  
 Peak intensity 28 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 498 Typ L2



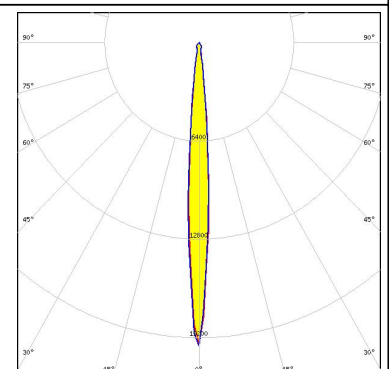
#### OSRAM

LED PrevaLED Core AC (LEP-2000)  
 FWHM 11.0°  
 Efficiency 92 %  
 Peak intensity 11.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

LED PrevaLED Core AC (LEP-800)  
 FWHM 8.0°  
 Efficiency 94 %  
 Peak intensity 19.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1

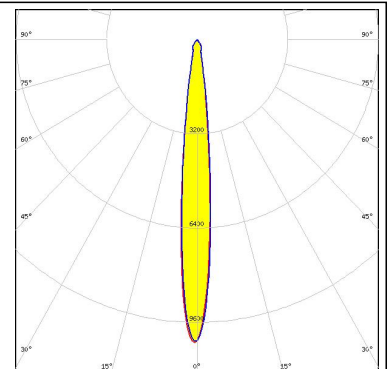




### PHOTOMETRIC DATA (MEASURED):

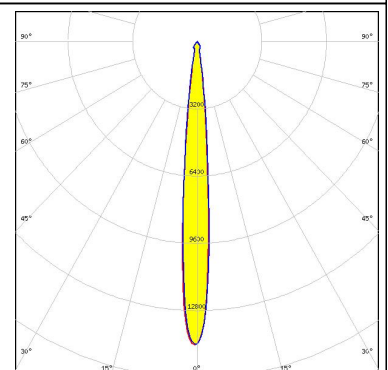
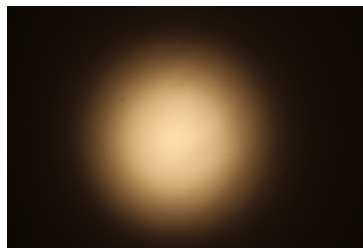
#### OSRAM

LED PrevaLED Core G7 L15 H1  
FWHM 11.0°  
Efficiency 89 %  
Peak intensity 10.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16685\_CLAMP-PRV-A  
F13671\_ANGE-RZ-LENS



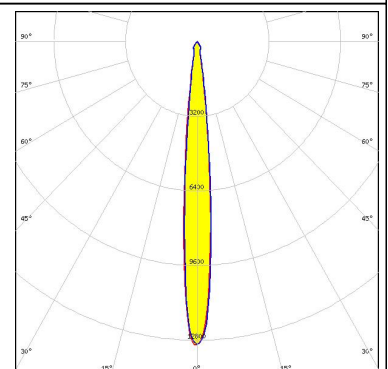
#### OSRAM

LED PrevaLED Core G7 L15 H1  
FWHM 10.0°  
Efficiency 93 %  
Peak intensity 14.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16685\_CLAMP-PRV-A



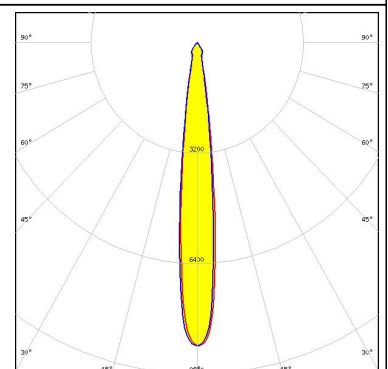
#### OSRAM

LED PrevaLED Core Z3 LES19  
FWHM 10.0°  
Efficiency 93 %  
Peak intensity 13 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

LED PrevaLED Core Z3 LES23  
FWHM 13.0°  
Efficiency 93 %  
Peak intensity 8.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1

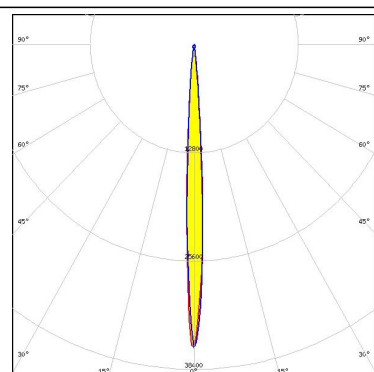




#### PHOTOMETRIC DATA (MEASURED):

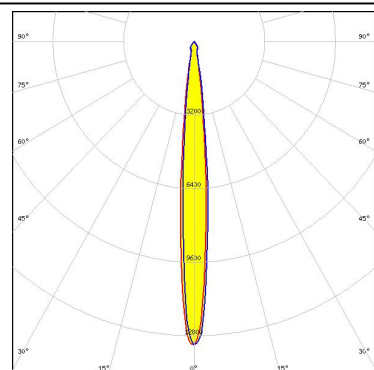
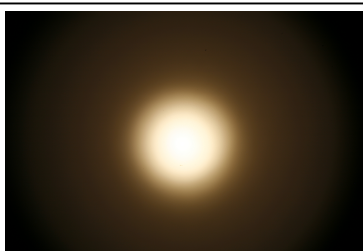
#### OSRAM

LED PrevaLED Core Z3 LES9  
 FWHM 6.0°  
 Efficiency 94 %  
 Peak intensity 36 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



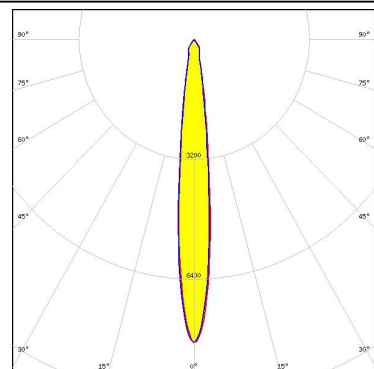
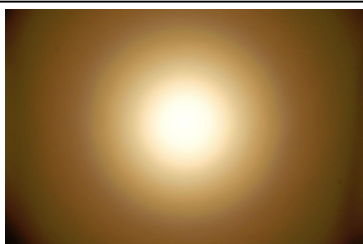
#### OSRAM

LED PrevaLED Core Z4 LES19  
 FWHM 10.0°  
 Efficiency 93 %  
 Peak intensity 13.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

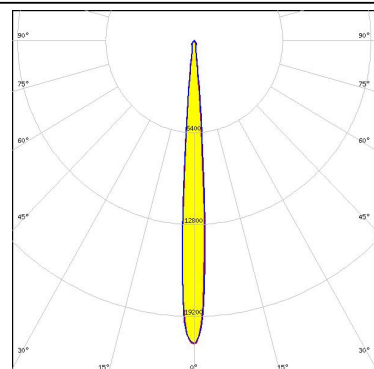
LED PrevaLED Core Z4 LES19  
 FWHM 12.0°  
 Efficiency 85 %  
 Peak intensity 8.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

Opto Semiconductors

LED Soleriq S13  
 FWHM 8.0°  
 Efficiency 89 %  
 Peak intensity 21 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



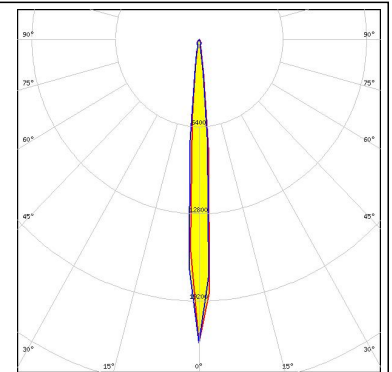
#### PHOTOMETRIC DATA (MEASURED):

##### OSRAM

Opto Semiconductors

LED Soleriq S13  
FWHM 8.0°  
Efficiency 94 %  
Peak intensity 22 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

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

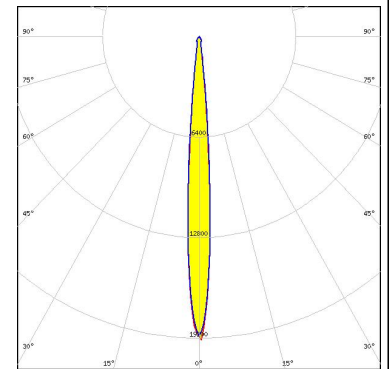


##### OSRAM

Opto Semiconductors

LED Soleriq S13 19x19  
FWHM 8.0°  
Efficiency 90 %  
Peak intensity 19 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

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



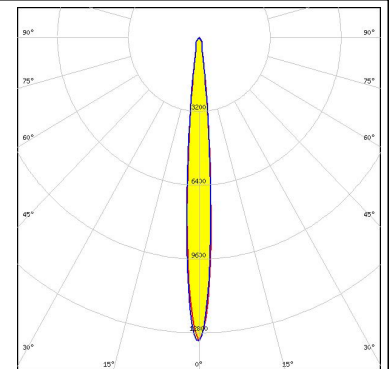
##### OSRAM

Opto Semiconductors

LED Soleriq S13 19x19  
FWHM 9.0°  
Efficiency 85 %  
Peak intensity 13 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

F13671\_ANGE-RZ-LENS

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



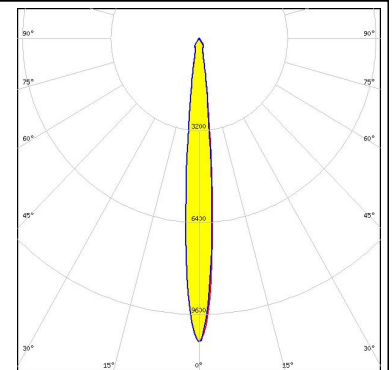
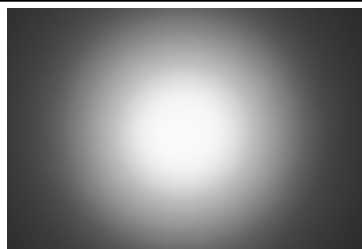
##### OSRAM

Opto Semiconductors

LED Soleriq S13 19x19  
FWHM 10.0°  
Efficiency 84 %  
Peak intensity 11 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

F13671\_ANGE-RZ-LENS

IDEAL: 50-2103CT + 50-2100AN

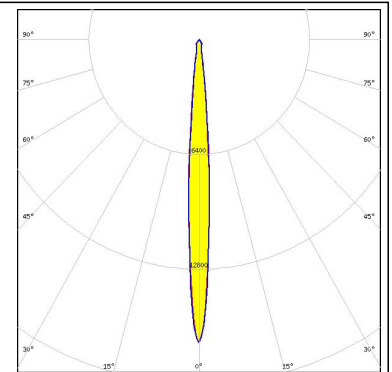


#### PHOTOMETRIC DATA (MEASURED):

##### OSRAM

Opto Semiconductors

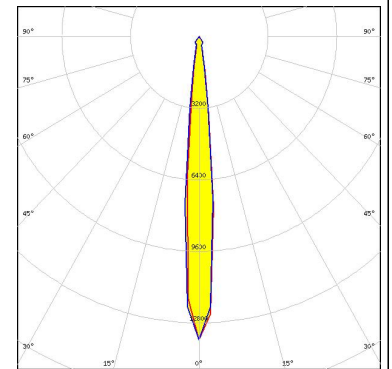
LED Soleriq S13 19x19  
 FWHM 8.0°  
 Efficiency 88 %  
 Peak intensity 16.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



##### OSRAM

Opto Semiconductors

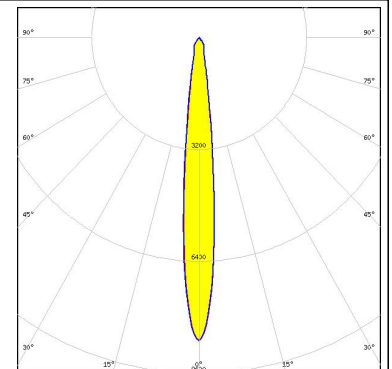
LED Soleriq S19  
 FWHM 10.0°  
 Efficiency 94 %  
 Peak intensity 13.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



##### OSRAM

Opto Semiconductors

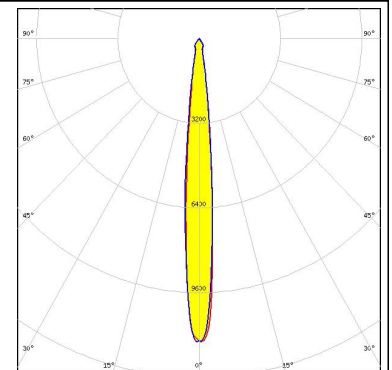
LED Soleriq S19  
 FWHM 12.0°  
 Efficiency 85 %  
 Peak intensity 8.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



##### OSRAM

Opto Semiconductors

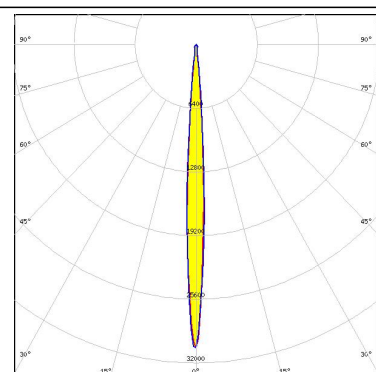
LED Soleriq S19  
 FWHM 11.0°  
 Efficiency 90 %  
 Peak intensity 11.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 462 Typ L3



### PHOTOMETRIC DATA (MEASURED):

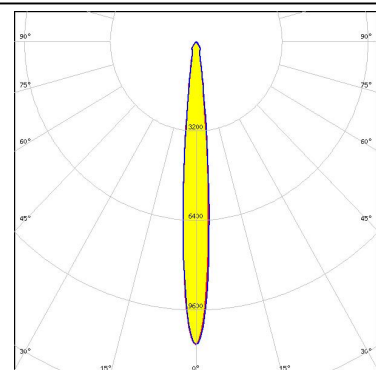
#### PHILIPS

LED Fortimo SLM L09 + SLM holder  
FWHM 7.0°  
Efficiency 91 %  
Peak intensity 30.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



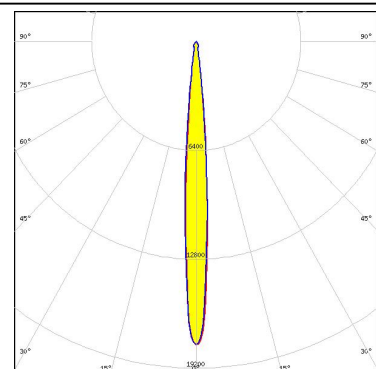
#### PHILIPS

LED Fortimo SLM L13 + SLM holder  
FWHM 10.0°  
Efficiency 84 %  
Peak intensity 11 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



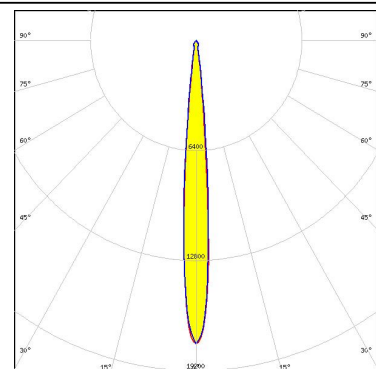
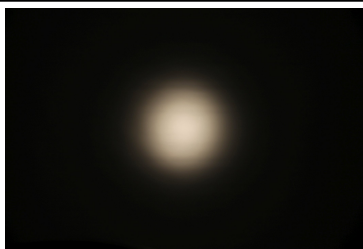
#### PHILIPS

LED Fortimo SLM L13 + SLM holder  
FWHM 8.5°  
Efficiency 91 %  
Peak intensity 17.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHILIPS

LED Fortimo SLM L13 CoB  
FWHM 9.0°  
Efficiency 92 %  
Peak intensity 17.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

#### PHILIPS

LED Fortimo SLM L13 CoB

FWHM 10.0°

Efficiency 86 %

Peak intensity 11.5 cd/lm

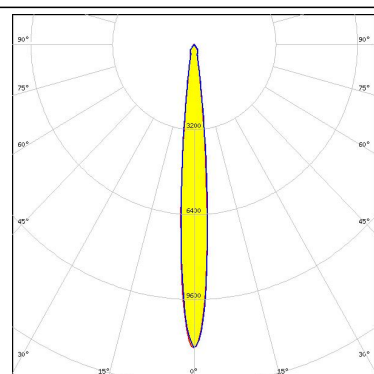
LEDs/each optic 1

Light colour White

Required components:

F13671\_ANGE-RZ-LENS

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



#### PHILIPS

LED Fortimo SLM L15 + SLM holder

FWHM 11.0°

Efficiency 84 %

Peak intensity 9.2 cd/lm

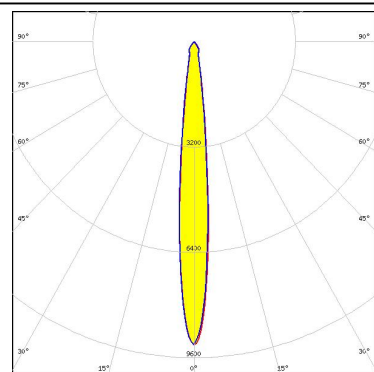
LEDs/each optic 1

Light colour White

Required components:

F13671\_ANGE-RZ-LENS

TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHILIPS

LED Fortimo SLM L15 + SLM holder

FWHM 10.0°

Efficiency 89 %

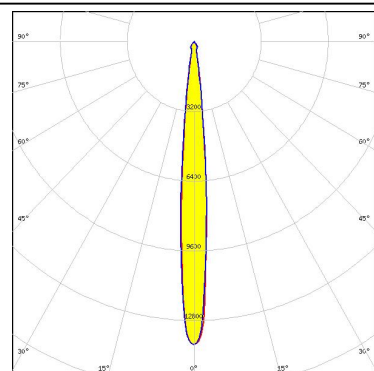
Peak intensity 13.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHILIPS

LED Fortimo SLM L15 CoB

FWHM 10.0°

Efficiency 92 %

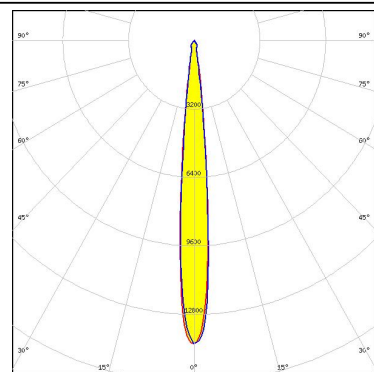
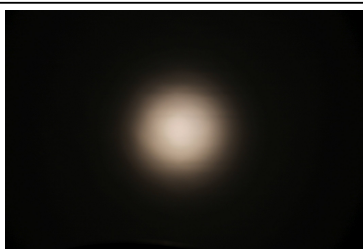
Peak intensity 14.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

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





#### PHOTOMETRIC DATA (MEASURED):

#### PHILIPS

LED Fortimo SLM L15 CoB

FWHM 11.0°

Efficiency 86 %

Peak intensity 9.7 cd/lm

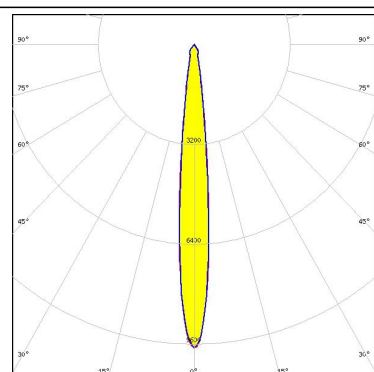
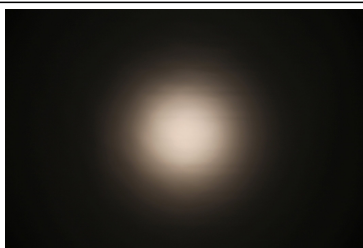
LEDs/each optic 1

Light colour White

Required components:

F13671\_ANGE-RZ-LENS

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



#### PHILIPS

LED Fortimo SLM L19 + SLM holder

FWHM 13.0°

Efficiency 84 %

Peak intensity 6.8 cd/lm

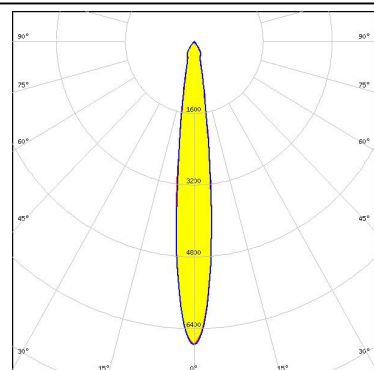
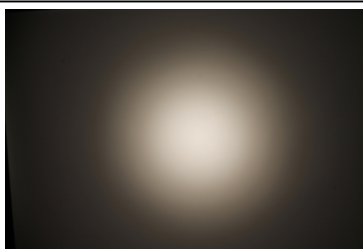
LEDs/each optic 1

Light colour White

Required components:

F13671\_ANGE-RZ-LENS

TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHILIPS

LED Fortimo SLM L19 + SLM holder

FWHM 13.0°

Efficiency 88 %

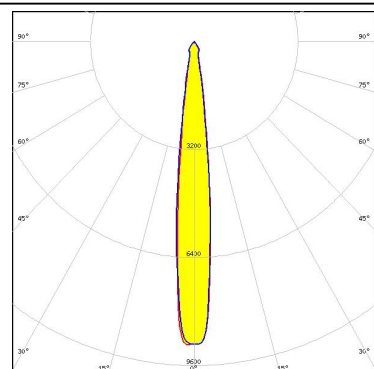
Peak intensity 9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### SAMSUNG

LED LC026B / 033B / 040B

FWHM 11.0°

Efficiency 93 %

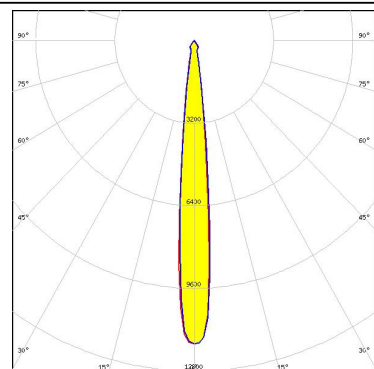
Peak intensity 11.8 cd/lm

LEDs/each optic 1

Light colour White

Required components:

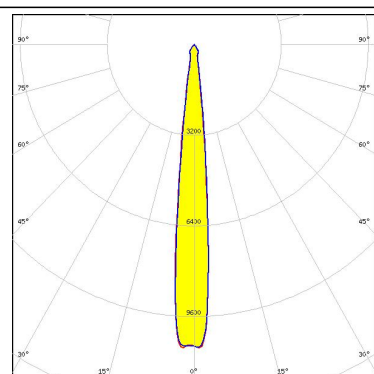
TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



### PHOTOMETRIC DATA (MEASURED):

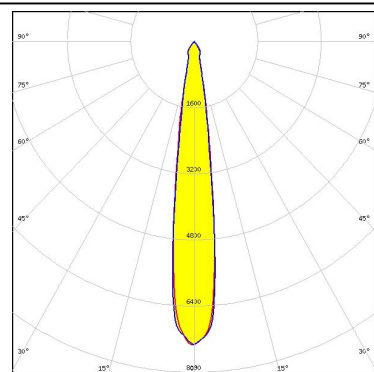
#### SAMSUNG

LED LC026B / 033B / 040B  
FWHM 11.0°  
Efficiency 8 %  
Peak intensity 10.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 450 Typ L2



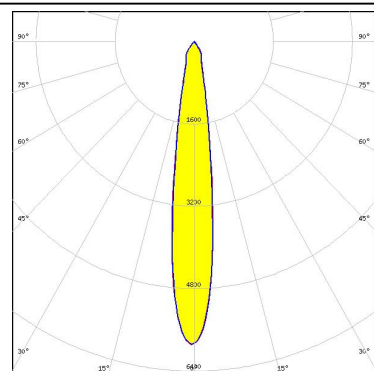
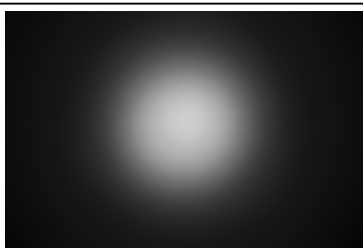
#### SAMSUNG

LED LC035T (Tunable white)  
FWHM 15.0°  
Efficiency 92 %  
Peak intensity 7.3 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 502 Typ L3



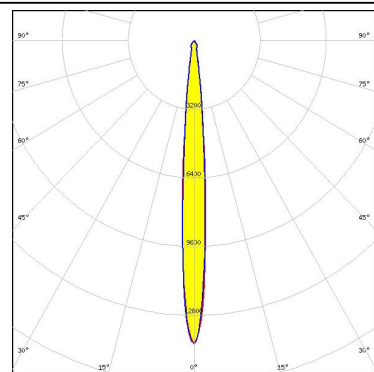
#### SAMSUNG

LED LC035T (Tunable white)  
FWHM 15.0°  
Efficiency 87 %  
Peak intensity 5.9 cd/lm  
LEDs/each optic 1  
Light colour Tunable White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 502 Typ L3



#### SAMSUNG

LED LC040C  
FWHM 9.0°  
Efficiency 85 %  
Peak intensity 14 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

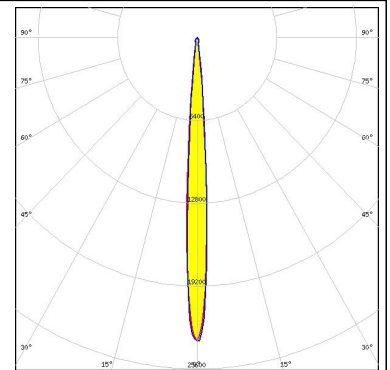
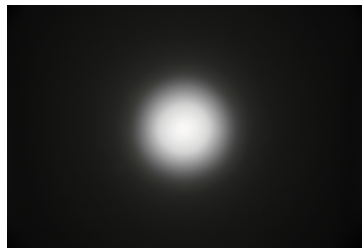


### PHOTOMETRIC DATA (MEASURED):

#### SAMSUNG

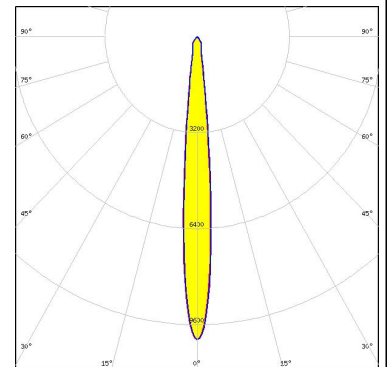
LED LC040C  
FWHM 7.0°  
Efficiency 89 %  
Peak intensity 23 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

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



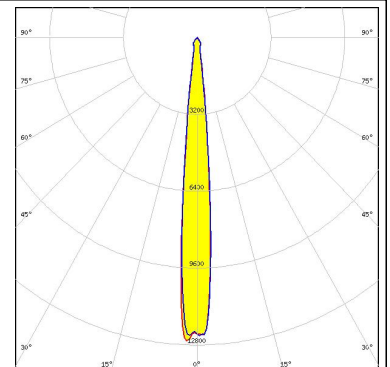
#### SEOUL SEMICONDUCTOR

LED AC Zhaga COB  
FWHM 10.0°  
Efficiency 84 %  
Peak intensity 10.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
Optosource: SEHSMJD-A



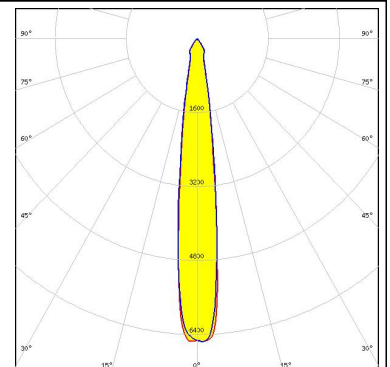
#### SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5  
FWHM 10.0°  
Efficiency 88 %  
Peak intensity 12.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### SEOUL SEMICONDUCTOR

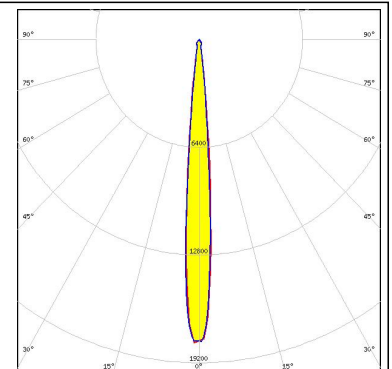
LED MJT COB LES 22  
FWHM 14.0°  
Efficiency 88 %  
Peak intensity 6.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 431 Typ L3



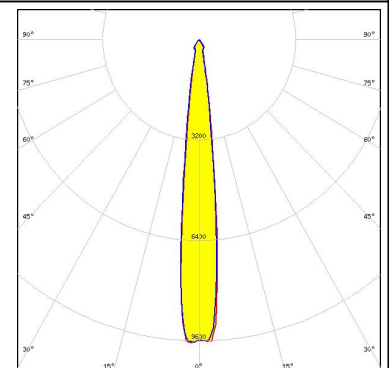
#### PHOTOMETRIC DATA (MEASURED):



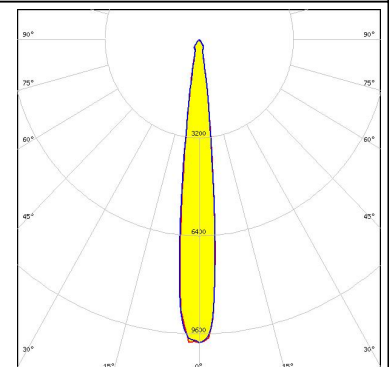
LED WU-M-461  
FWHM 9.0°  
Efficiency 93 %  
Peak intensity 18 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



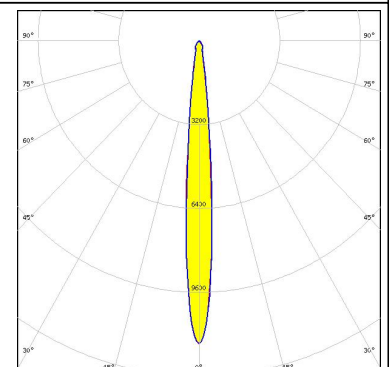
LED WU-M-462  
FWHM 13.0°  
Efficiency 92 %  
Peak intensity 9.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-464  
FWHM 12.0°  
Efficiency 92 %  
Peak intensity 9.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



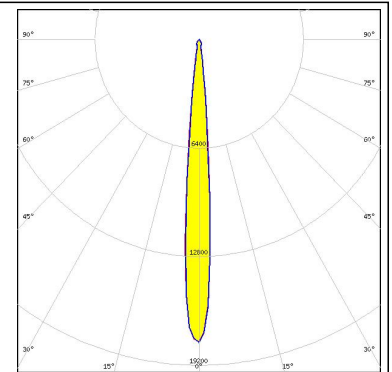
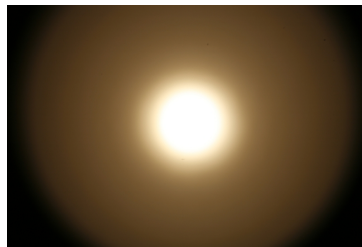
LED WU-M-484  
FWHM 10.0°  
Efficiency 84 %  
Peak intensity 12 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



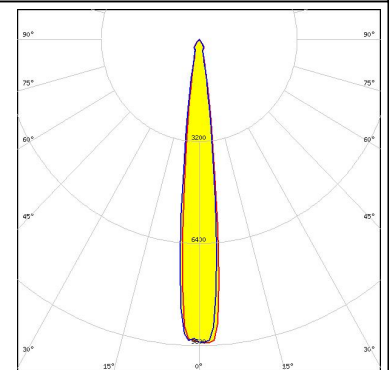
### PHOTOMETRIC DATA (MEASURED):



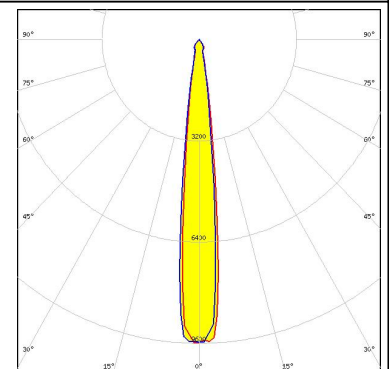
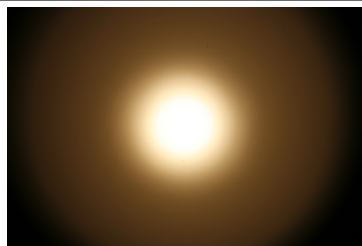
LED WU-M-484  
FWHM 9.0°  
Efficiency 93 %  
Peak intensity 17.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-485  
FWHM 13.0°  
Efficiency 93 %  
Peak intensity 9.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-486  
FWHM 13.0°  
Efficiency 93 %  
Peak intensity 9.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1

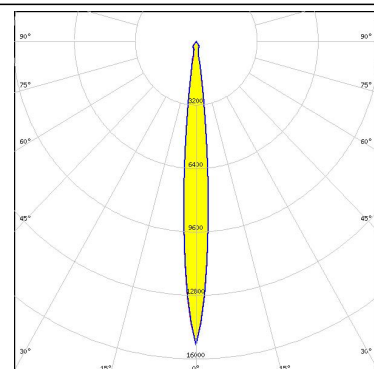




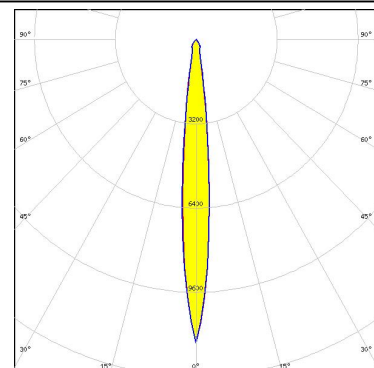
#### PHOTOMETRIC DATA (SIMULATED):



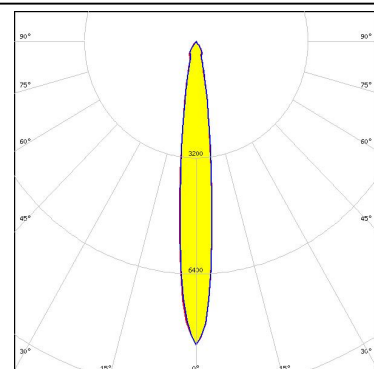
LED V10 Gen7  
 FWHM 10.0°  
 Efficiency 91 %  
 Peak intensity 15.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



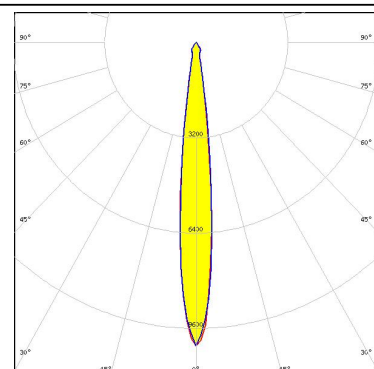
LED V13 Gen7  
 FWHM 11.0°  
 Efficiency 90 %  
 Peak intensity 11.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7  
 FWHM 12.0°  
 Efficiency 93 %  
 Peak intensity 8.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



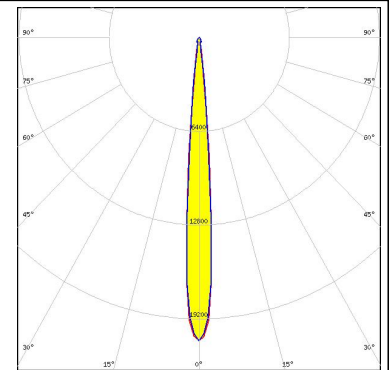
LED CXA/B 1830  
 FWHM 12.0°  
 Efficiency 88 %  
 Peak intensity 10.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



### PHOTOMETRIC DATA (SIMULATED):



LED LUXEON CoB 1204/1205  
FWHM 10.0°  
Efficiency 92 %  
Peak intensity 20.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



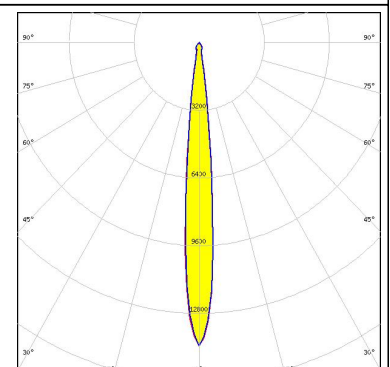
LED CxM-14 (19x19)  
FWHM 10.0°  
Efficiency 88 %  
Peak intensity 15 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 486 Typ L1



LED CxM-9 (13.5x13.5)  
FWHM 6.0°  
Efficiency 90 %  
Peak intensity 34.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 434 Typ L1



LED Soleriq S15  
FWHM 10.0°  
Efficiency 90 %  
Peak intensity 14.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



## PHOTOMETRIC DATA (SIMULATED):

|                                                                                                          |          |
|----------------------------------------------------------------------------------------------------------|----------|
| <br>SEOUL SEMICONDUCTOR |          |
| LED                                                                                                      | ZC12/18  |
| FWHM                                                                                                     | 10.0°    |
| Efficiency                                                                                               | 88 %     |
| Peak intensity                                                                                           | 15 cd/lm |
| LEDs/each optic                                                                                          | 1        |
| Light colour                                                                                             | White    |
| Required components:                                                                                     |          |
| C13658_CLAMP-VERO13-18                                                                                   |          |
| Bender Wirth: 433 Typ L1                                                                                 |          |

|                                                                                                          |            |
|----------------------------------------------------------------------------------------------------------|------------|
| <br>SEOUL SEMICONDUCTOR |            |
| LED                                                                                                      | ZC4/6      |
| FWHM                                                                                                     | 6.0°       |
| Efficiency                                                                                               | 90 %       |
| Peak intensity                                                                                           | 34.1 cd/lm |
| LEDs/each optic                                                                                          | 1          |
| Light colour                                                                                             | 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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#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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