

## MIRELLA-50-W-PF

~40° wide beam

### TECHNICAL SPECIFICATIONS:

|                |           |
|----------------|-----------|
| Dimensions     | Ø 49.9 mm |
| Height         | 24 mm     |
| Fastening      | socket    |
| ROHS compliant | yes ⓘ     |

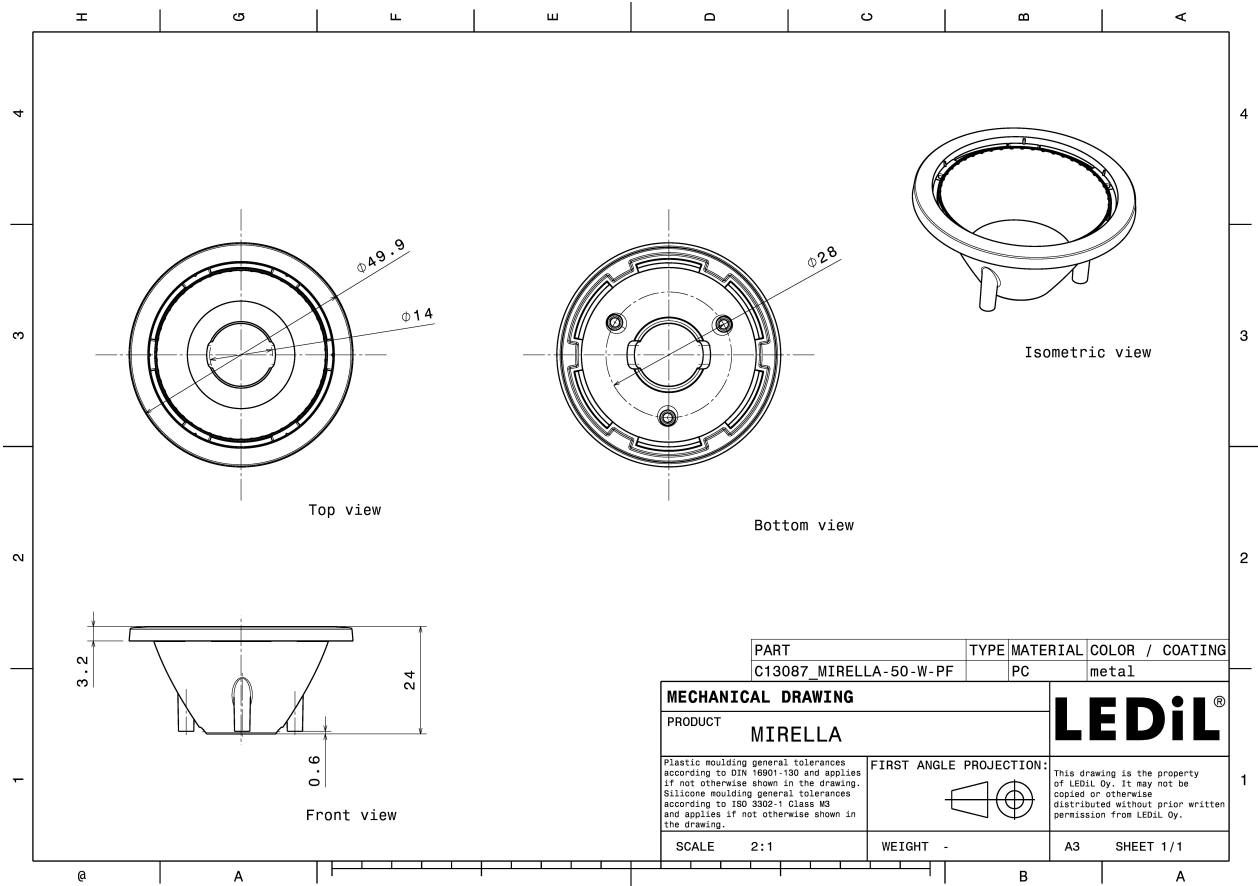
### MATERIAL SPECIFICATIONS:

| Component       | Type      | Material | Colour | Finish | Coating |
|-----------------|-----------|----------|--------|--------|---------|
| MIRELLA-50-W-PF | Reflector | PC       | metal  |        | lacquer |

### ORDERING INFORMATION:


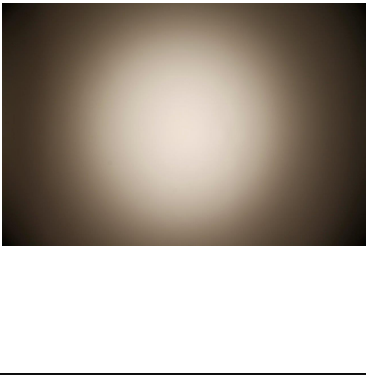
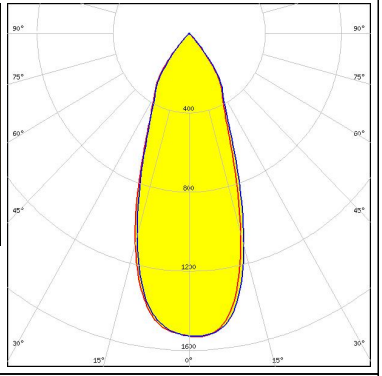


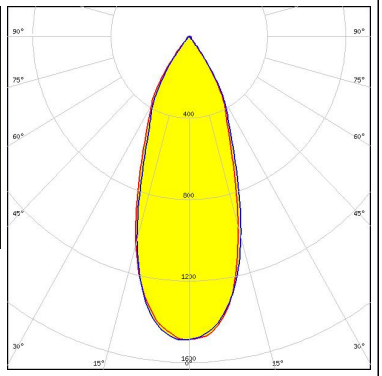


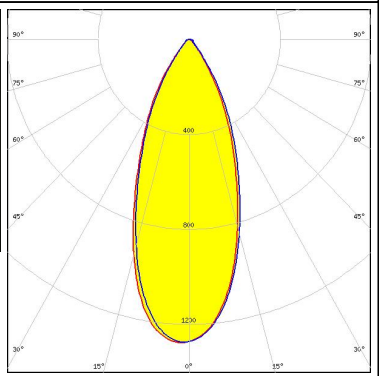

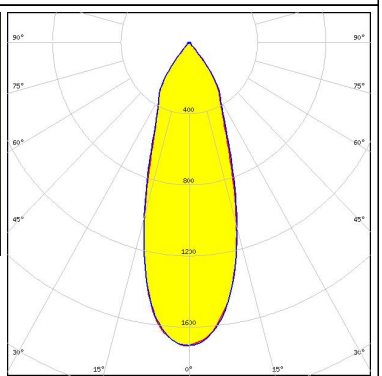
| Component  | Qty in box | MOQ | MPQ | Box weight (kg) |
|--|------------|-----|-----|-----------------|
| C13087_MIRELLA-50-W-PF<br>» Box size: 480 x 280 x 300 mm | 336        | 112 | 28  | 2.8             |





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

#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p></p> <p>LED V10 Gen6<br/>           FWHM / FWTM 39.0° / 79.0°<br/>           Efficiency 86 %<br/>           Peak intensity 1.5 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C14115_PF-SOCKET-CXA15-18</p>                                     |    |    |
| <p></p> <p>LED V10 Gen7<br/>           FWHM / FWTM 39.0° / 73.0°<br/>           Efficiency 79 %<br/>           Peak intensity 1.5 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13709_PF-SOCKET-VERO13-18<br/>           C13333_MIRELLA-CL</p>   |   |   |
| <p></p> <p>LED V10 Gen7<br/>           FWHM / FWTM 40.0° / 75.0°<br/>           Efficiency 77 %<br/>           Peak intensity 1.3 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13709_PF-SOCKET-VERO13-18<br/>           C12479_MIRELLA-DL</p> |  |  |
| <p></p> <p>LED V10 Gen7<br/>           FWHM / FWTM 35.0° / 76.0°<br/>           Efficiency 84 %<br/>           Peak intensity 1.7 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13709_PF-SOCKET-VERO13-18</p>                                  |  |  |

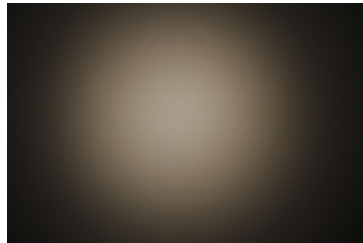
#### PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED V6 Gen6  
 FWHM / FWTM 31.0° / 72.0°  
 Efficiency 74 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 460 Typ L1

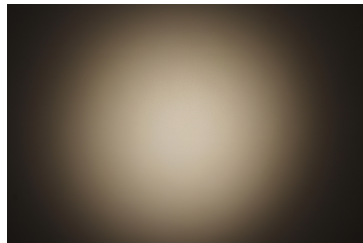


bridgelux.

LED V6 Gen6  
 FWHM / FWTM 27.0° / 76.0°  
 Efficiency 82 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 460 Typ L1

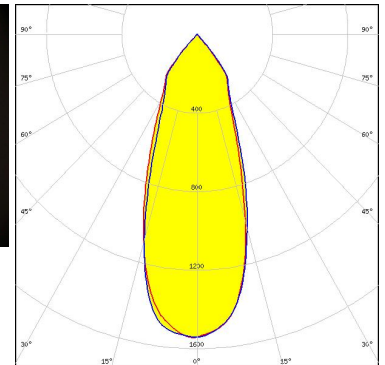
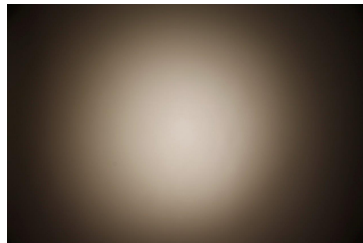


bridgelux.

LED V6 Gen6  
 FWHM / FWTM 39.0° / 81.0°  
 Efficiency 87 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13761\_PF-SOCKET-CXA15

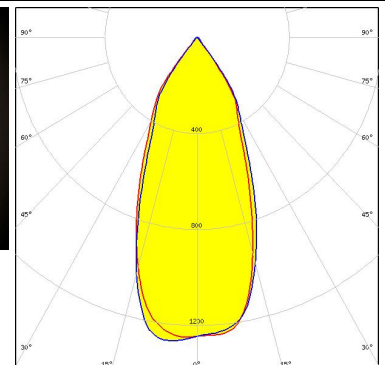
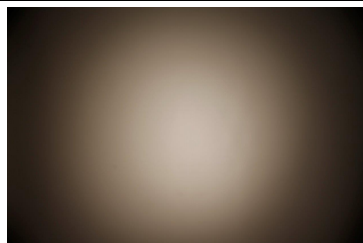


bridgelux.


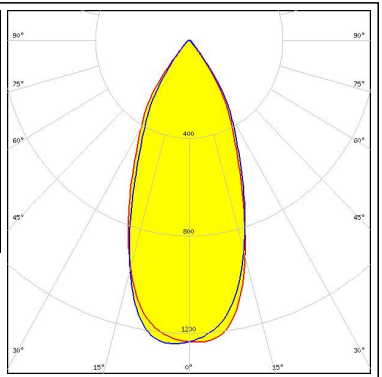

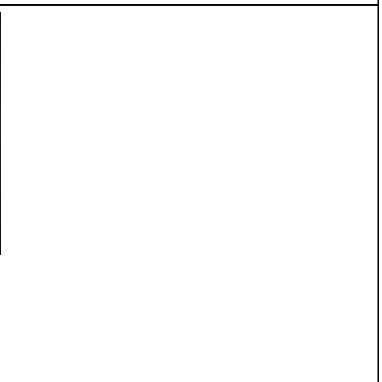
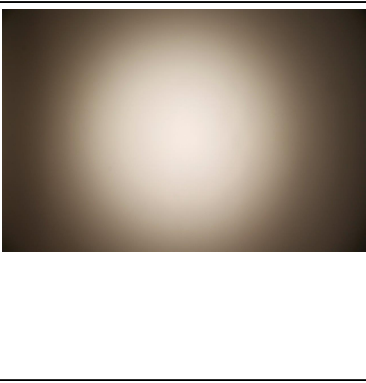
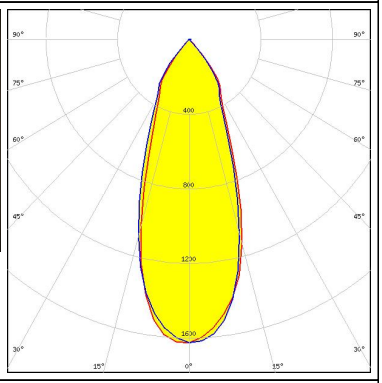

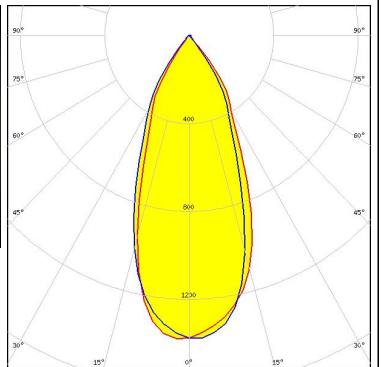
LED V6 Gen6  
 FWHM / FWTM 44.0° / 77.0°  
 Efficiency 81 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL



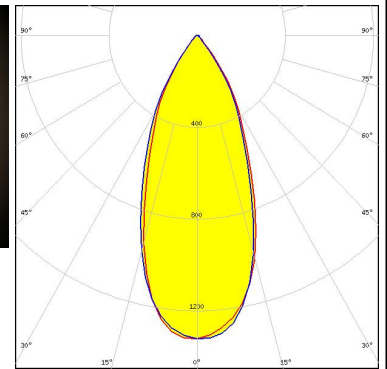
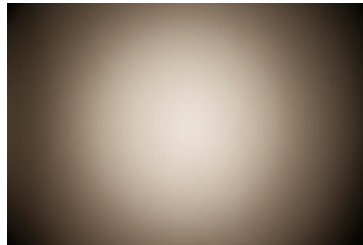
#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p>bridgelux.</p> <p>LED V6 Gen6</p> <p>FWHM / FWTM 44.0° / 78.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13761_PF-SOCKET-CXA15</p> <p>C12479_MIRELLA-DL</p>                                     |    |    |
| <p>bridgelux.</p> <p>LED V8 Gen6</p> <p>FWHM / FWTM 36.0° / 74.0°</p> <p>Efficiency 73 %</p> <p>Peak intensity 1.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13709_PF-SOCKET-VERO13-18</p> <p>C12479_MIRELLA-DL</p> <p>Bender Wirth: 460 Typ L1</p> |   |   |
| <p>bridgelux.</p> <p>LED V8 Gen6</p> <p>FWHM / FWTM 38.0° / 79.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13761_PF-SOCKET-CXA15</p>  |  |  |
| <p>bridgelux.</p> <p>LED V8 Gen6</p> <p>FWHM / FWTM 42.0° / 76.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13761_PF-SOCKET-CXA15</p> <p>C13333_MIRELLA-CL</p>                                     |  |  |

#### PHOTOMETRIC DATA (MEASURED):

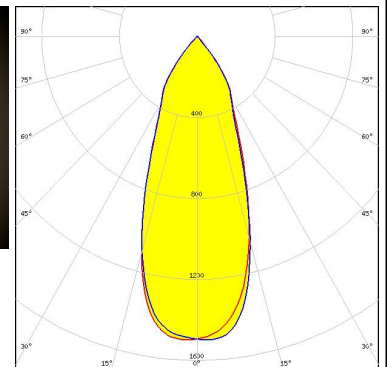
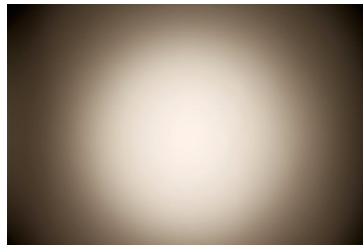
bridgelux.

LED V8 Gen6  
 FWHM / FWTM 43.0° / 76.0°  
 Efficiency 82 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C12479\_MIRELLA-DL



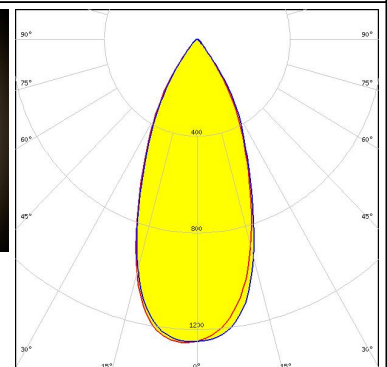
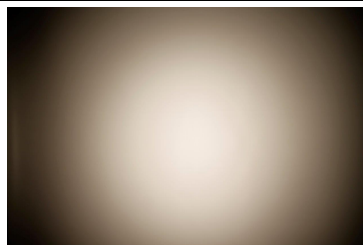
bridgelux.

LED VERO10  
 FWHM / FWTM 44.0° / 76.0°  
 Efficiency 80 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13708\_PF-SOCKET-VERO10  
 C13333\_MIRELLA-CL



bridgelux.


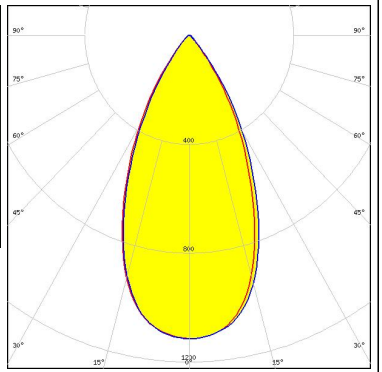

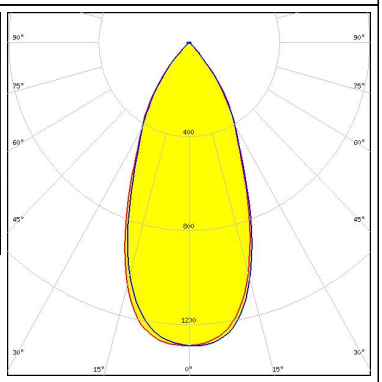

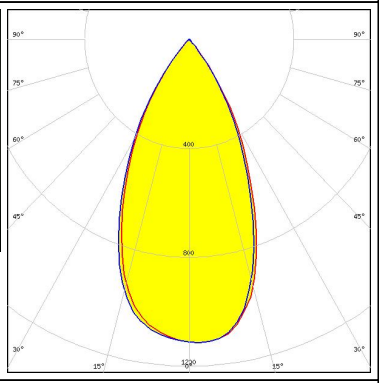

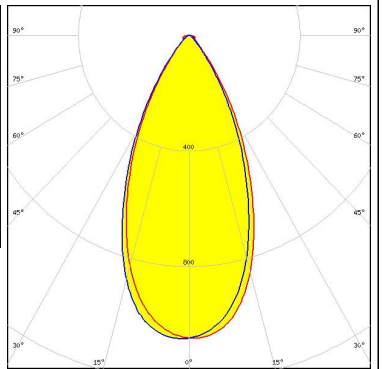
LED VERO10  
 FWHM / FWTM 40.0° / 79.0°  
 Efficiency 85 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13708\_PF-SOCKET-VERO10



bridgelux.

LED VERO10  
 FWHM / FWTM 44.0° / 76.0°  
 Efficiency 80 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13708\_PF-SOCKET-VERO10  
 C12479\_MIRELLA-DL

#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p>bridgelux.</p> <p>LED VERO13<br/>           FWHM / FWTM 50.0° / 79.0°<br/>           Efficiency 82 %<br/>           Peak intensity 1.1 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13709_PF-SOCKET-VERO13-18<br/>           C12479_MIRELLA-DL</p>           |    |    |
| <p>bridgelux.</p> <p>LED VERO13<br/>           FWHM / FWTM 46.0° / 82.0°<br/>           Efficiency 90 %<br/>           Peak intensity 1.3 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13709_PF-SOCKET-VERO13-18</p>  |   |   |
| <p>bridgelux.</p> <p>LED VERO13<br/>           FWHM / FWTM 51.0° / 79.0°<br/>           Efficiency 77 %<br/>           Peak intensity 1.1 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13709_PF-SOCKET-VERO13-18<br/>           C13333_MIRELLA-CL</p>           |  |  |
| <p>bridgelux.</p> <p>LED Xenio Point 13mm<br/>           FWHM / FWTM 48.0° / 80.0°<br/>           Efficiency 78 %<br/>           Peak intensity 1.1 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13709_PF-SOCKET-VERO13-18<br/>           C12479_MIRELLA-DL</p> |  |  |

#### PHOTOMETRIC DATA (MEASURED):

**bridgelux.**

LED Xenio Point 13mm  
 FWHM / FWTM 45.0° / 81.0°  
 Efficiency 85 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18




**bridgelux.**

LED Xenio Point 13mm  
 FWHM / FWTM 49.0° / 78.0°  
 Efficiency 81 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL




### CITIZEN

LED CLL01x  
 FWHM / FWTM 42.0° / 76.0°  
 Efficiency 86 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



### CITIZEN

LED CLL01x  
 FWHM / FWTM 36.0° / 80.0°  
 Efficiency 90 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET





#### PHOTOMETRIC DATA (MEASURED):

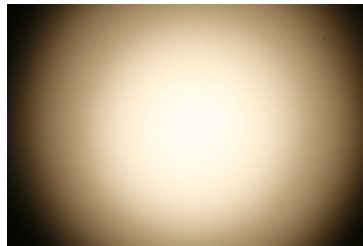
#### CITIZEN

LED CLL01x  
 FWHM / FWTM 44.0° / 76.0°  
 Efficiency 86 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



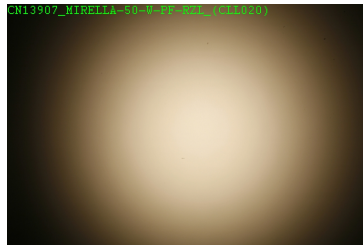
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 46.0° / 78.0°  
 Efficiency 86 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



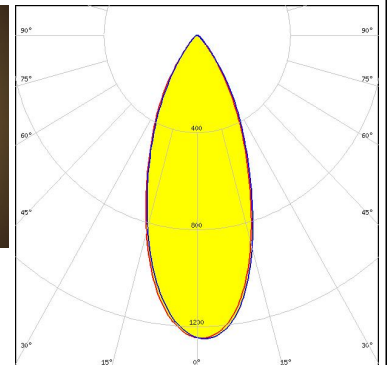
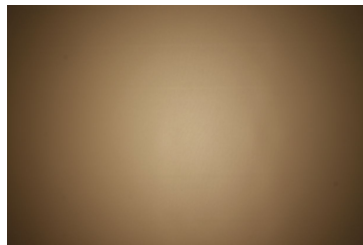
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 46.0° / 80.0°  
 Efficiency %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



#### CITIZEN

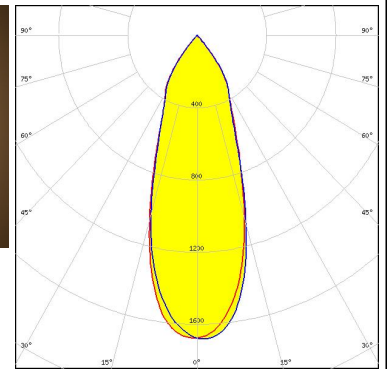
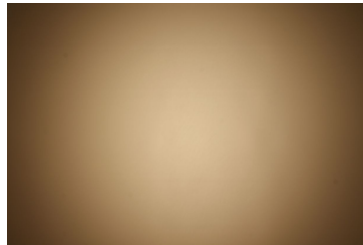
LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 41.0° / 76.0°  
 Efficiency 76 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 434 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

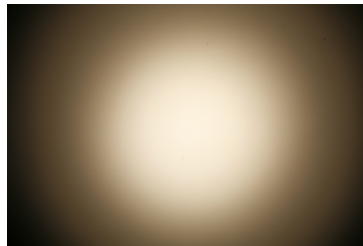
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 36.0° / 77.0°  
 Efficiency 84 %  
 Peak intensity 1.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



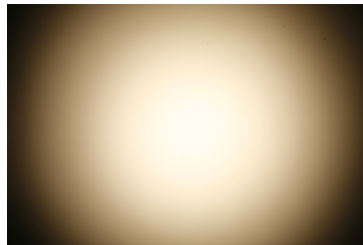
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 41.0° / 80.0°  
 Efficiency 90 %  
 Peak intensity 1.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



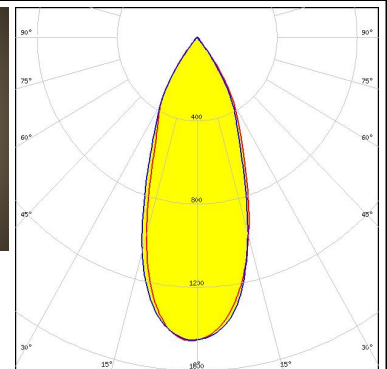
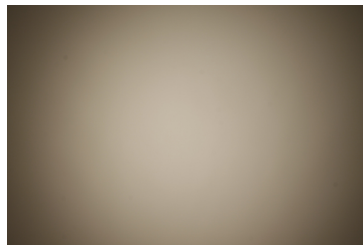
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 46.0° / 77.0°  
 Efficiency 86 %  
 Peak intensity 1.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



#### CITIZEN

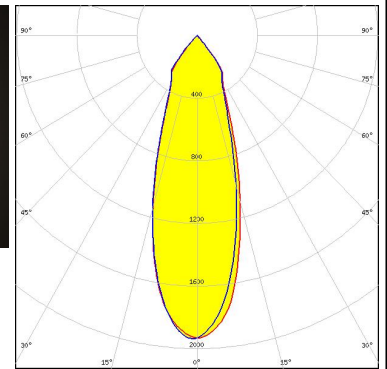
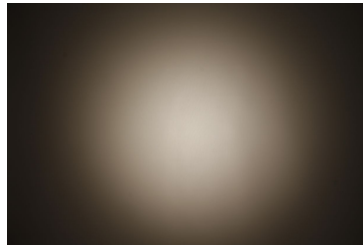
LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 39.0° / 73.0°  
 Efficiency 78 %  
 Peak intensity 1.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 434 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

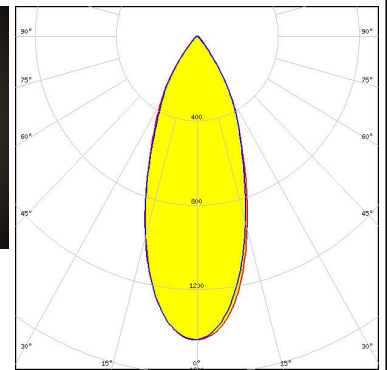
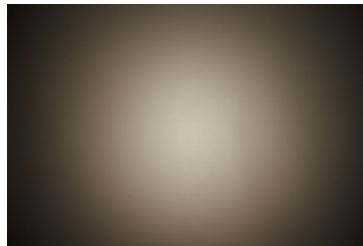
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 33.0° / 78.0°  
 Efficiency 88 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



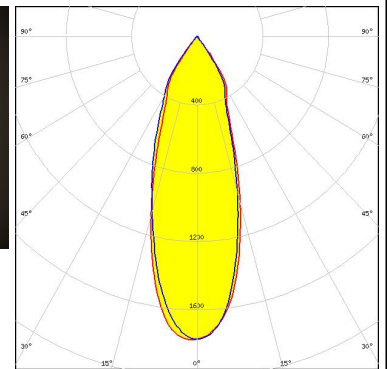
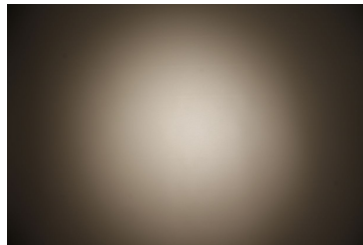
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 39.0° / 75.0°  
 Efficiency 82 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



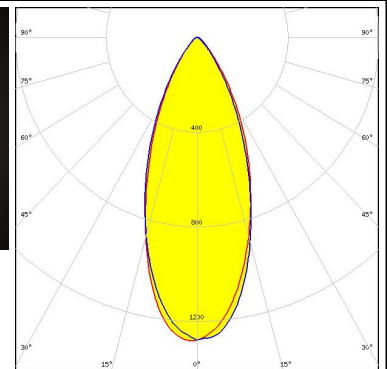
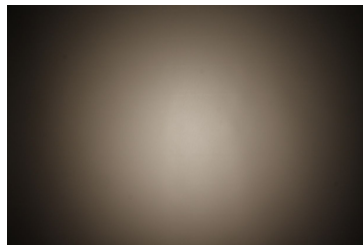
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 34.0° / 72.0°  
 Efficiency 81 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



#### CITIZEN

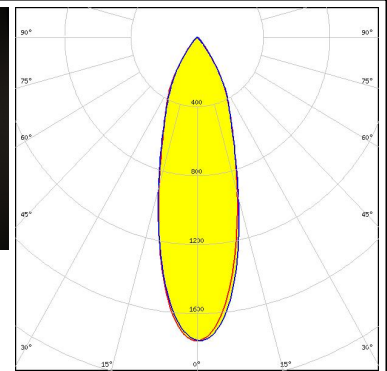
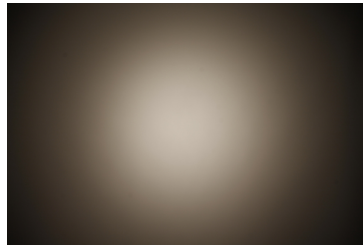
LED CLU700/701/702  
 FWHM / FWTM 42.0° / 78.0°  
 Efficiency 81 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



#### PHOTOMETRIC DATA (MEASURED):

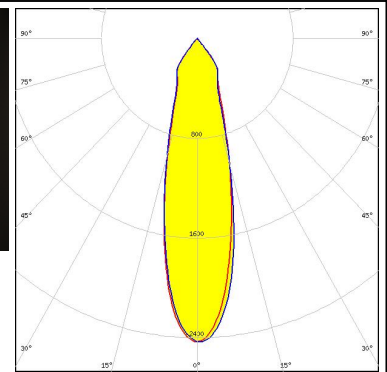
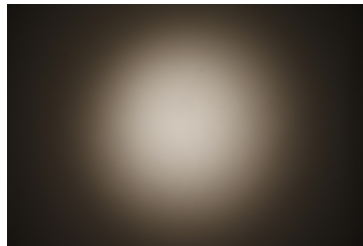
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 31.0° / 70.0°  
 Efficiency 77 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 434 Typ L1



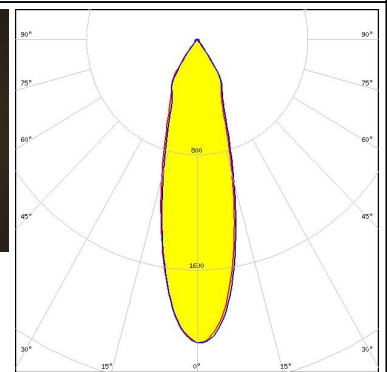
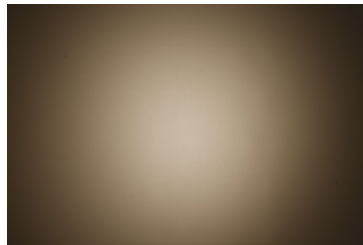
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 26.0° / 73.0°  
 Efficiency 83 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



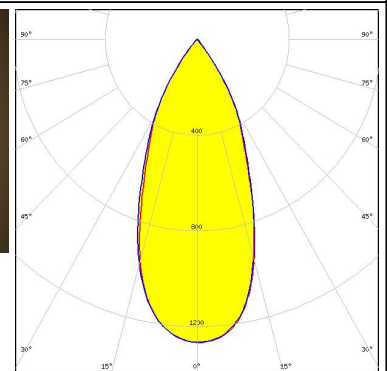
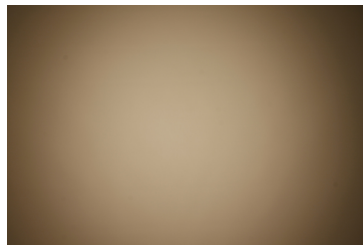
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 29.0° / 69.0°  
 Efficiency 80 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 434 Typ L1



#### CITIZEN

LED CLU720/721  
 FWHM / FWTM 43.0° / 74.0°  
 Efficiency 76 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 433 Typ L1



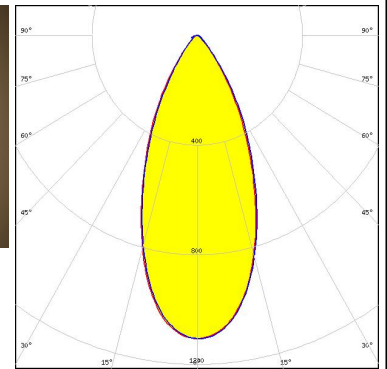
#### PHOTOMETRIC DATA (MEASURED):

#### CITIZEN

LED CLU720/721  
 FWHM / FWTM 44.0° / 78.0°  
 Efficiency 74 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

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

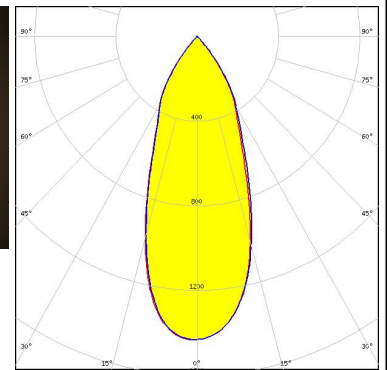
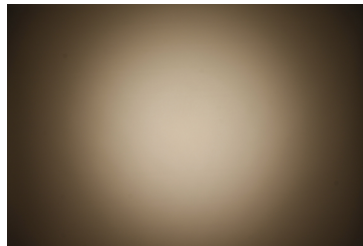


#### CITIZEN

LED CLU720/721  
 FWHM / FWTM 40.0° / 78.0°  
 Efficiency 81 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

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

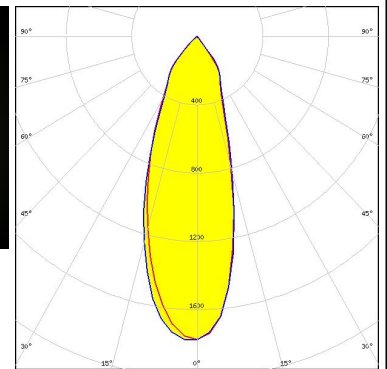
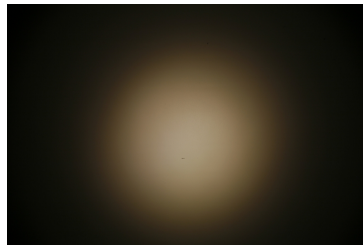


#### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 37.0° / 80.0°  
 Efficiency 86 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13761\_PF-SOCKET-CXA15

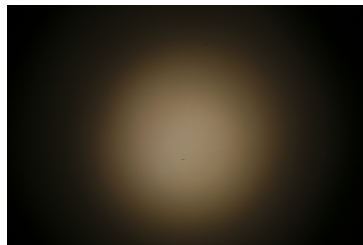


#### CREE LED


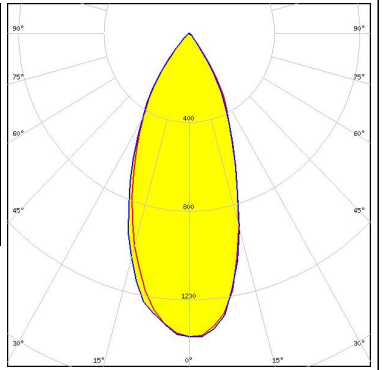

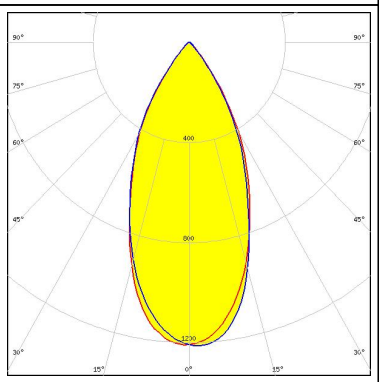

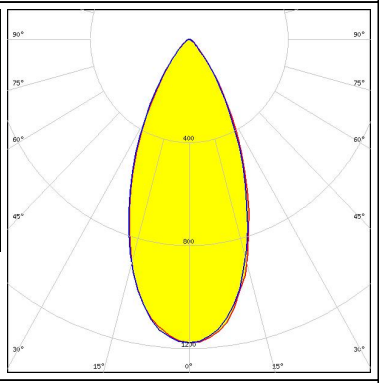
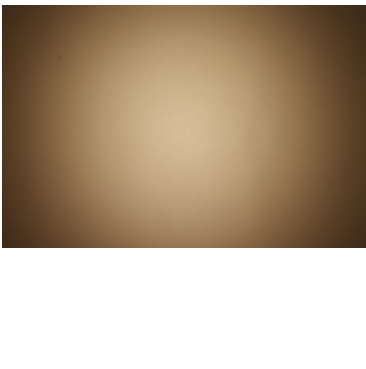
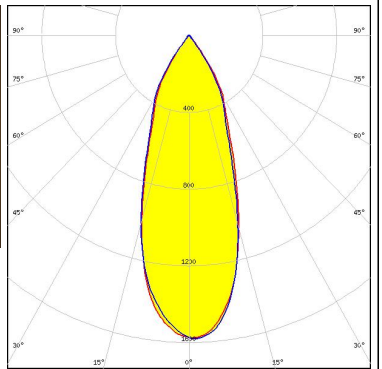
LED CXA/B 13xx  
 FWHM / FWTM 42.0° / 76.0°  
 Efficiency 81 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL



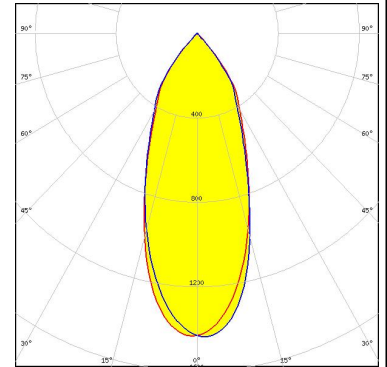
#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>CREE LED</b></p> <p>LED CXA/B 13xx<br/>           FWHM / FWTM 43.0° / 76.0°<br/>           Efficiency 81 %<br/>           Peak intensity 1.4 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13761_PF-SOCKET-CXA15<br/>           C12479_MIRELLA-DL</p>   |    |    |
| <p><b>CREE LED</b></p> <p>LED CXA/B 15xx<br/>           FWHM / FWTM 47.0° / 79.0°<br/>           Efficiency 85 %<br/>           Peak intensity 1.2 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13761_PF-SOCKET-CXA15<br/>           C12479_MIRELLA-DL</p>   |   |   |
| <p><b>CREE LED</b></p> <p>LED CXA/B 15xx<br/>           FWHM / FWTM 47.0° / 81.0°<br/>           Efficiency 81 %<br/>           Peak intensity 1.2 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13761_PF-SOCKET-CXA15<br/>           C13723_MIRELLA-RZL</p>  |  |  |
| <p><b>CREE LED</b></p> <p>LED CXA/B 15xx<br/>           FWHM / FWTM 37.0° / 72.0°<br/>           Efficiency 79 %<br/>           Peak intensity 1.6 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13709_PF-SOCKET-VERO13-18<br/>           C13333_MIRELLA-CL<br/>           Bender Wirth: 441 Typ L1</p> |  |  |

#### PHOTOMETRIC DATA (MEASURED):

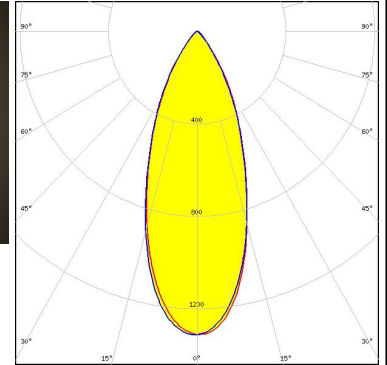
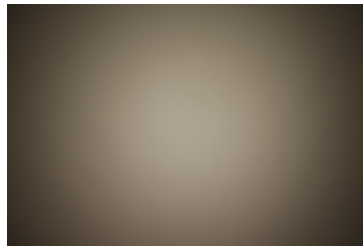
##### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 41.0° / 82.0°  
 Efficiency 90 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



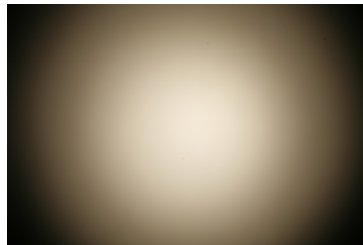
##### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 39.0° / 75.0°  
 Efficiency 75 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 441 Typ L1



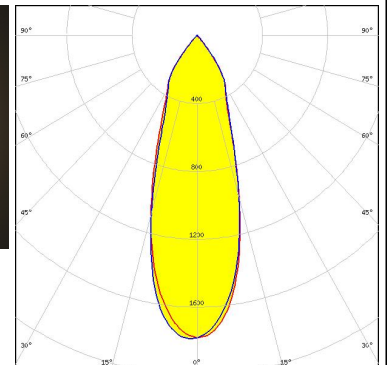
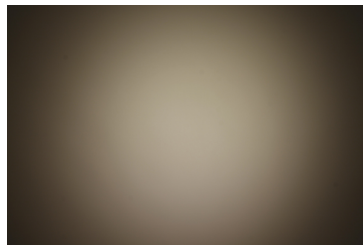
##### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 46.0° / 79.0°  
 Efficiency 85 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL



##### CREE LED

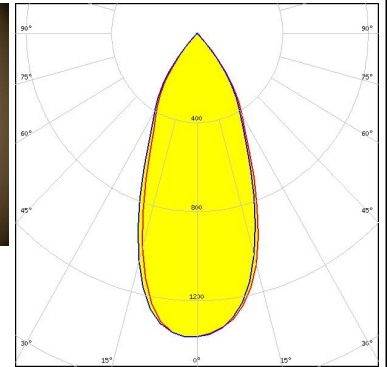
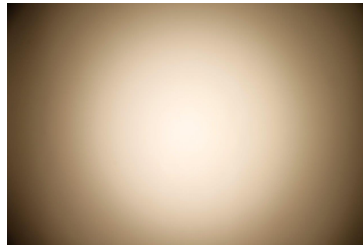
LED CXA/B 15xx  
 FWHM / FWTM 34.0° / 75.0°  
 Efficiency 82 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 441 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

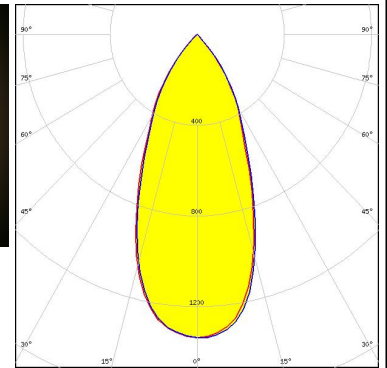
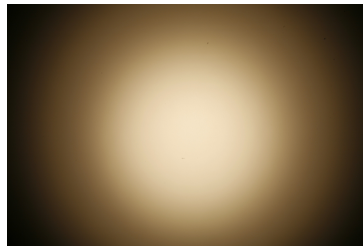
##### CREE LED

LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 43.0° / 81.0°  
 Efficiency 87 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2101CR + 50-2100MR



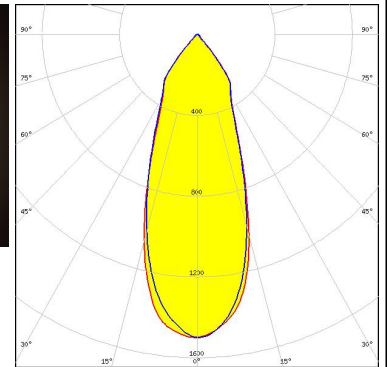
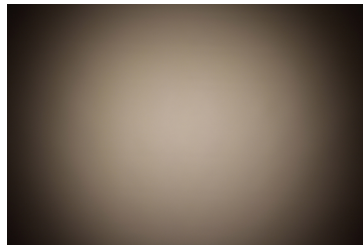
##### CREE LED

LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 45.0° / 81.0°  
 Efficiency 84 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14115\_PF-SOCKET-CXA15-18



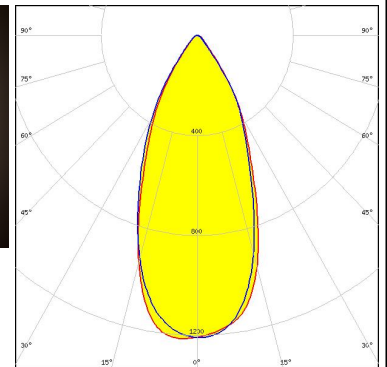
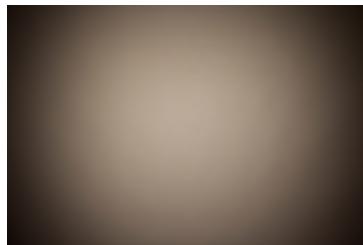
##### CREE LED

LED MHD-E/G  
 FWHM / FWTM 38.0° / 82.0°  
 Efficiency 89 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET




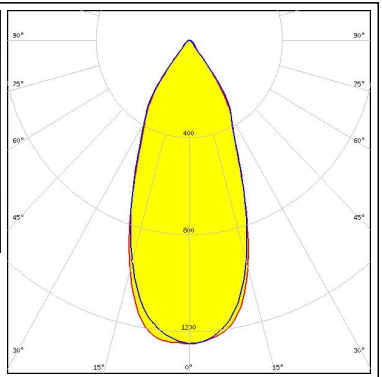

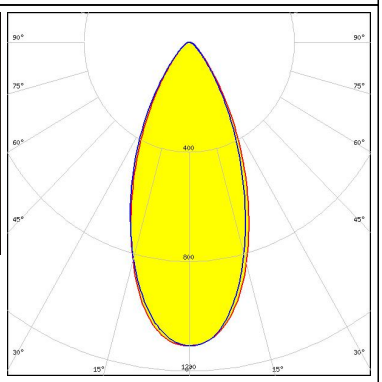

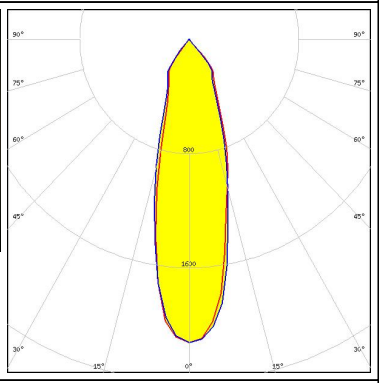

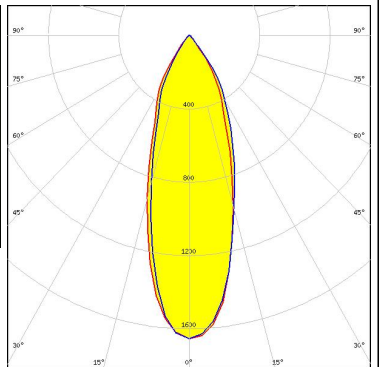
##### CREE LED

LED MHD-E/G  
 FWHM / FWTM 45.0° / 78.0°  
 Efficiency 84 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL





#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>CREE</b> LED</p> <p>LED MHD-E/G<br/>           FWHM / FWTM 44.0° / 77.0°<br/>           Efficiency 84 %<br/>           Peak intensity 1.3 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET<br/>           C13333_MIRELLA-CL</p>  |    |    |
| <p><b>CREE</b> LED</p> <p>LED MHD-E/G<br/>           FWHM / FWTM 45.0° / 83.0°<br/>           Efficiency 82 %<br/>           Peak intensity 1.1 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET<br/>           C13723_MIRELLA-RZL</p> |   |   |
| <p><b>CREE</b> LED</p> <p>LED MK-R<br/>           FWHM / FWTM 30.0° / 77.0°<br/>           Efficiency 85 %<br/>           Peak intensity 2.1 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET</p>                                      |  |  |
| <p><b>CREE</b> LED</p> <p>LED MK-R<br/>           FWHM / FWTM 34.0° / 73.0°<br/>           Efficiency 80 %<br/>           Peak intensity 1.7 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET<br/>           C12479_MIRELLA-DL</p>     |  |  |

#### PHOTOMETRIC DATA (MEASURED):

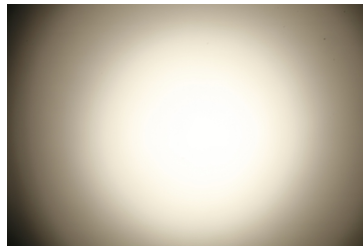
##### CREE LED

LED MT-G  
FWHM / FWTM 52.0° / 84.0°  
Efficiency 86 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13083\_PF-SOCKET  
C12479\_MIRELLA-DL



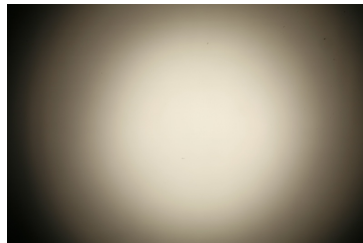
##### CREE LED

LED MT-G  
FWHM / FWTM 48.0° / 87.0°  
Efficiency 90 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13083\_PF-SOCKET



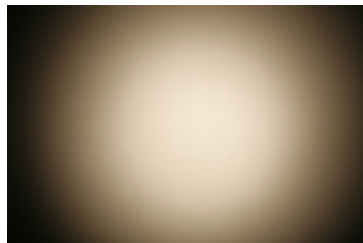
##### CREE LED

LED MT-G  
FWHM / FWTM 52.0° / 83.0°  
Efficiency 86 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13083\_PF-SOCKET  
C13333\_MIRELLA-CL



##### CREE LED

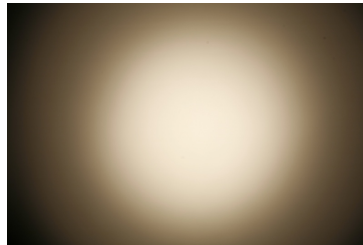
LED MT-G2  
FWHM / FWTM 51.0° / 82.0°  
Efficiency 87 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13083\_PF-SOCKET  
C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

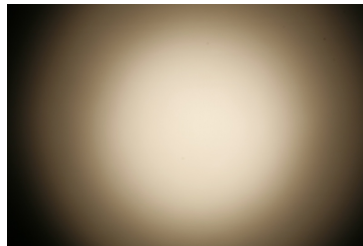
##### CREE LED

LED MT-G2  
 FWHM / FWTM 46.0° / 86.0°  
 Efficiency 91 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



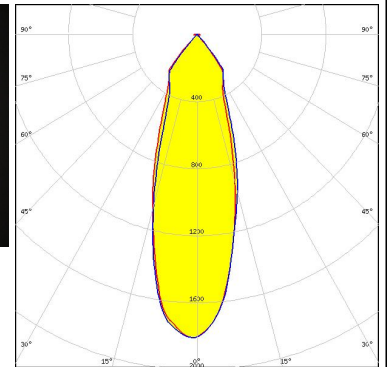
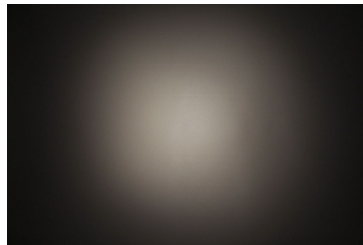
##### CREE LED

LED MT-G2  
 FWHM / FWTM 50.0° / 81.0°  
 Efficiency 87 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



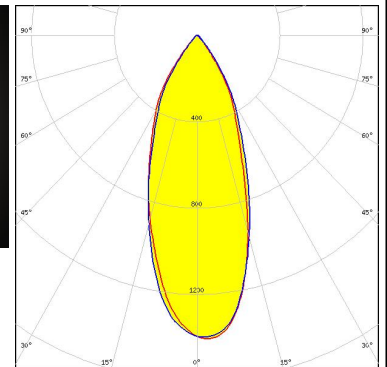
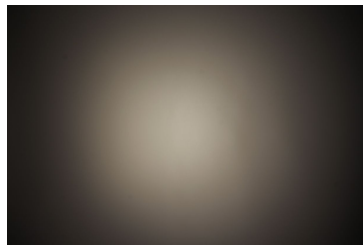
##### CREE LED

LED XHP50  
 FWHM / FWTM 33.0° / 80.0°  
 Efficiency 87 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET


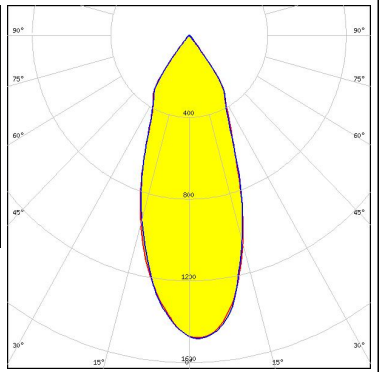

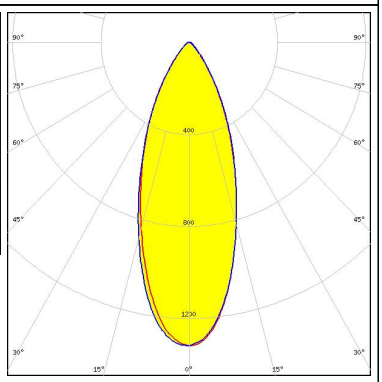
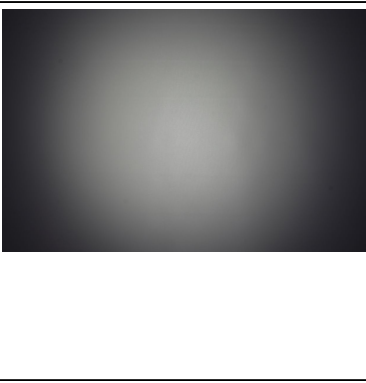
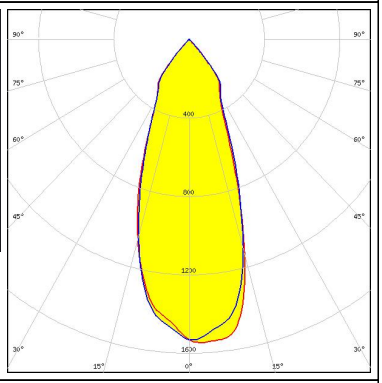

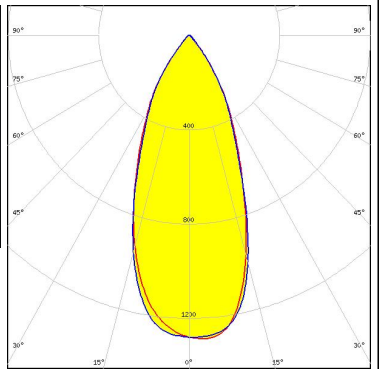


##### CREE LED



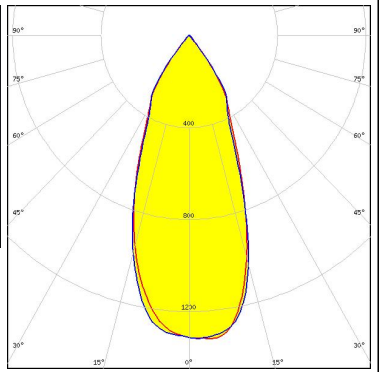

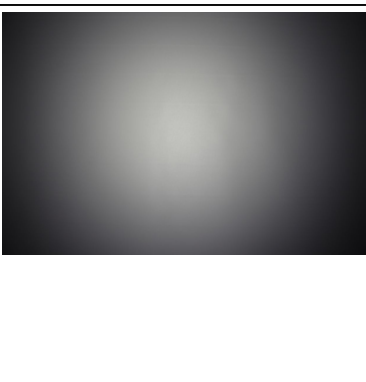
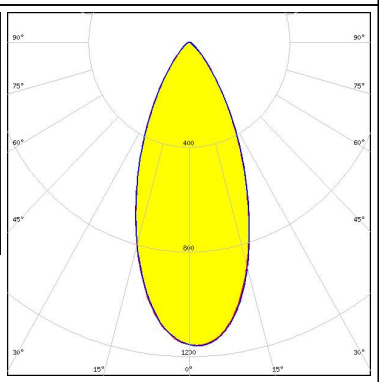


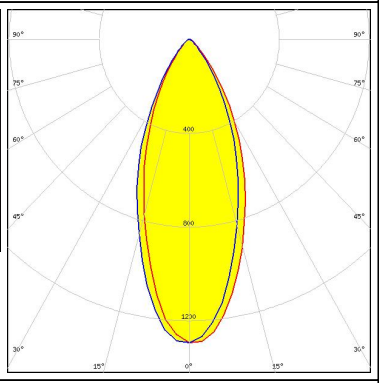

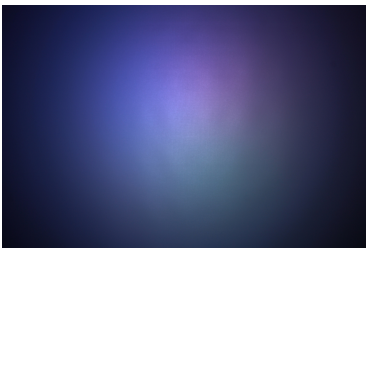

LED XHP50  
 FWHM / FWTM 39.0° / 76.0°  
 Efficiency 82 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL




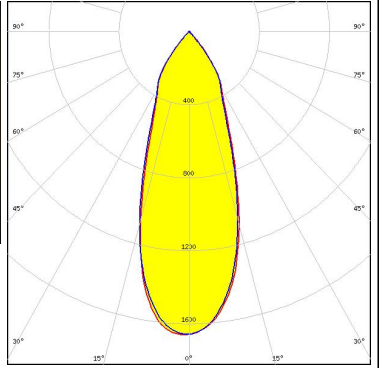
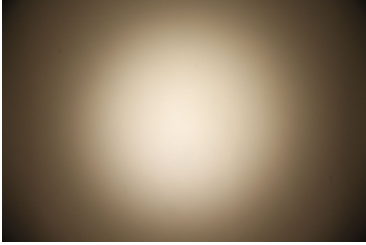
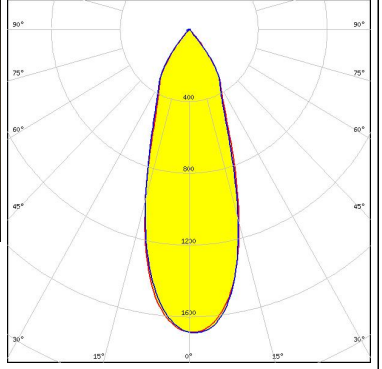
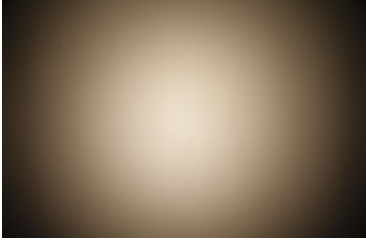
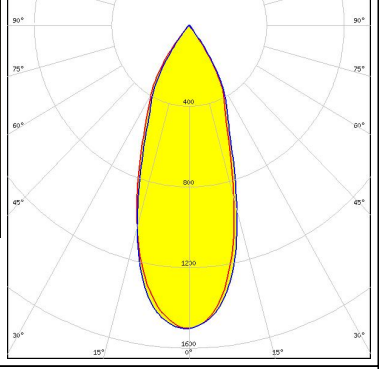
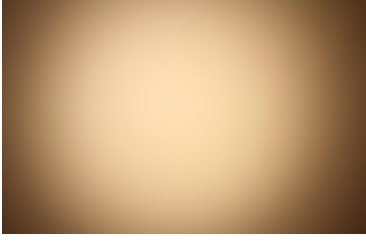
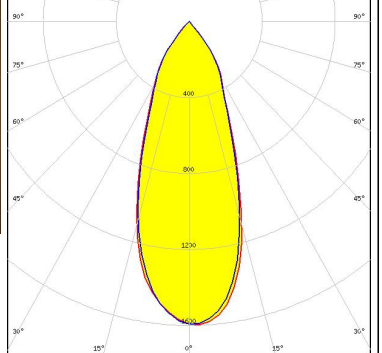
#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p><b>CREE</b> LED</p> <p>LED XHP50<br/>           FWHM / FWTM 39.0° / 76.0°<br/>           Efficiency 81 %<br/>           Peak intensity 1.5 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET<br/>           C13333_MIRELLA-CL</p>  |    |    |
| <p><b>CREE</b> LED</p> <p>LED XHP50<br/>           FWHM / FWTM 38.0° / 77.0°<br/>           Efficiency 80 %<br/>           Peak intensity 1.3 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET<br/>           C13723_MIRELLA-RZL</p> |   |   |
| <p><b>CREE</b> LED</p> <p>LED XHP70<br/>           FWHM / FWTM 39.0° / 82.0°<br/>           Efficiency 86 %<br/>           Peak intensity 1.5 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET</p>                                   |  |  |
| <p><b>CREE</b> LED</p> <p>LED XHP70<br/>           FWHM / FWTM 43.0° / 77.0°<br/>           Efficiency 81 %<br/>           Peak intensity 1.3 cd/m<br/>           LEDs/each optic 1<br/>           Light colour White</p> <p>Required components:<br/>           C13083_PF-SOCKET<br/>           C12479_MIRELLA-DL</p>  |  |  |

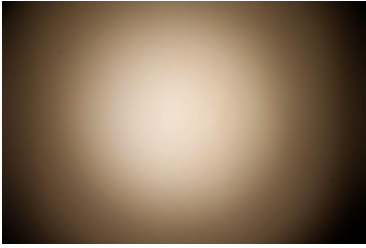
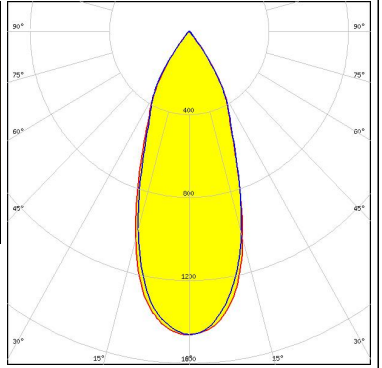
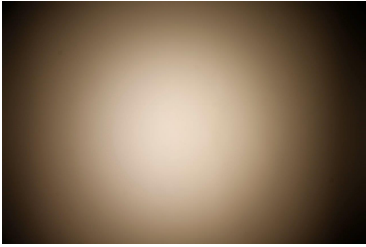
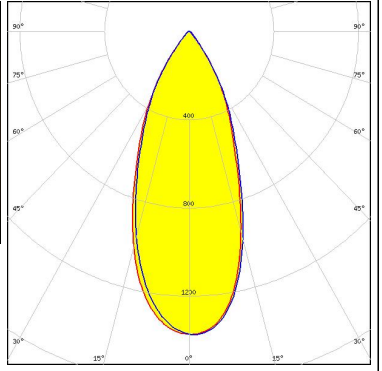
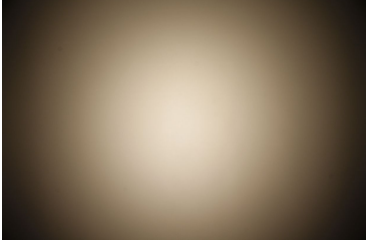
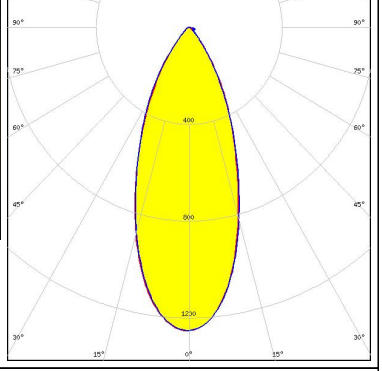
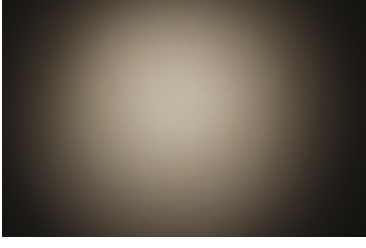

#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>CREE</b>  <b>LED</b></p> <p>LED XHP70<br/>           FWHM / FWTM 42.0° / 77.0°<br/>           Efficiency 81 %<br/>           Peak intensity 1.3 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13083_PF-SOCKET<br/>           C13333_MIRELLA-CL</p>       |    |    |
| <p><b>CREE</b>  <b>LED</b></p> <p>LED XHP70<br/>           FWHM / FWTM 44.0° / 80.0°<br/>           Efficiency 79 %<br/>           Peak intensity 1.2 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13083_PF-SOCKET<br/>           C13723_MIRELLA-RZL</p>      |   |   |
| <p><b>CREE</b>  <b>LED</b></p> <p>LED XM-L RGB<br/>           FWHM / FWTM 41.0° / 80.0°<br/>           Efficiency 80 %<br/>           Peak intensity 1.3 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13083_PF-SOCKET<br/>           C13723_MIRELLA-RZL</p> |  |  |
| <p><b>CREE</b>  <b>LED</b></p> <p>LED XQ-E HI<br/>           FWHM / FWTM 42.0° / 82.0°<br/>           Efficiency 87 %<br/>           Peak intensity 1.4 cd/lm<br/>           LEDs/each optic 4<br/>           Light colour RGBW<br/>           Required components:<br/>           C13083_PF-SOCKET<br/>           C13723_MIRELLA-RZL</p>   |  |  |

#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 37.0° / 78.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>IDEAL: 50-2100NC +50-2100MR</p>   |    |    |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 35.0° / 76.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>Bender Wirth: 438 Typ L1</p>                       |   |   |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 37.0° / 72.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>C13333_MIRELLA-CL<br/>Bender Wirth: 438 Typ L1</p> |  |  |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 39.0° / 79.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C14037_PF-NSX-SOCKET</p>  |  |  |

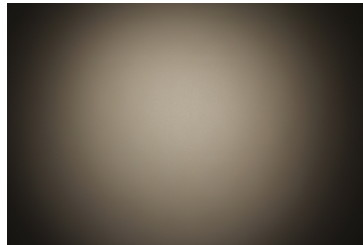
#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 39.0° / 74.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13333_MIRELLA-CL<br/>IDEAL: 50-2100NC +50-2100MR</p>                             |    |    |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 41.0° / 75.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C12479_MIRELLA-DL<br/>IDEAL: 50-2100NC +50-2100MR</p>                             |   |   |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 40.0° / 75.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>C12479_MIRELLA-DL<br/>Bender Wirth: 438 Typ L1</p> |  |  |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 35.0° / 82.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13761_PF-SOCKET-CXA15</p>  |  |  |

#### PHOTOMETRIC DATA (MEASURED):

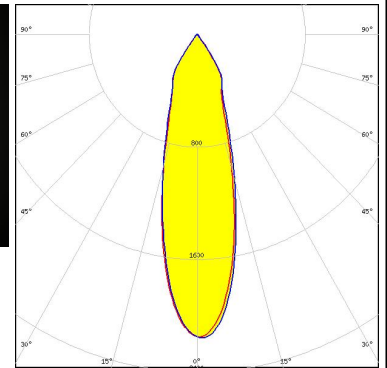
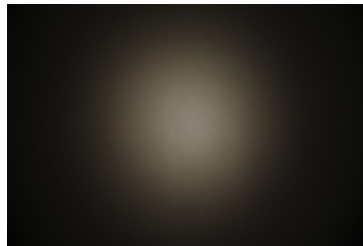
#### LUMILEDS

LED LUXEON CoB 1202s  
 FWHM / FWTM 41.0° / 78.0°  
 Efficiency 82 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL



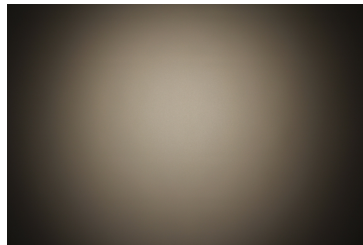
#### LUMILEDS

LED LUXEON CoB 1202s  
 FWHM / FWTM 28.0° / 69.0°  
 Efficiency 81 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 452 Typ L1



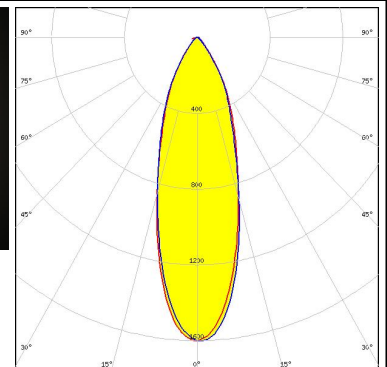
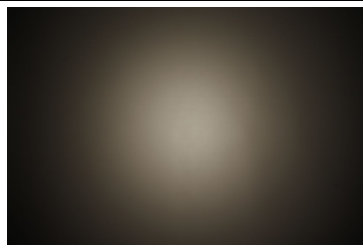
#### LUMILEDS

LED LUXEON CoB 1202s  
 FWHM / FWTM 40.0° / 78.0°  
 Efficiency 82 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C12479\_MIRELLA-DL




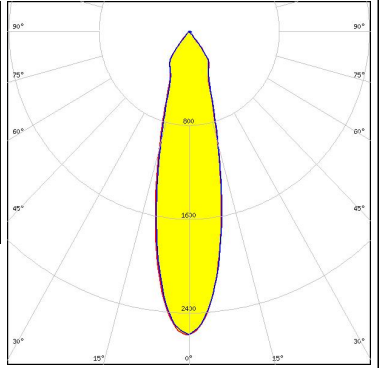
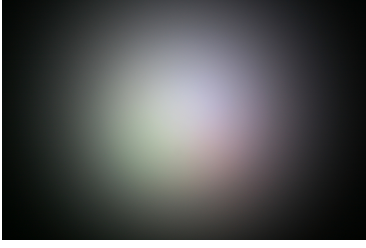
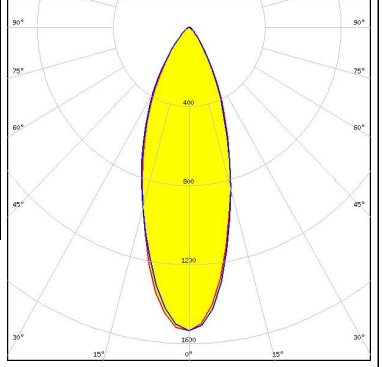

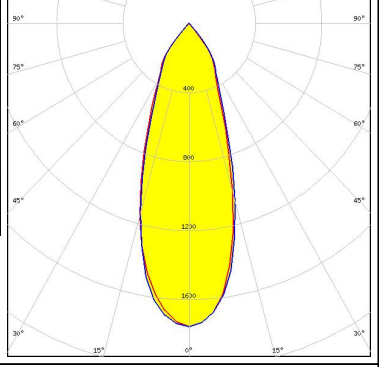

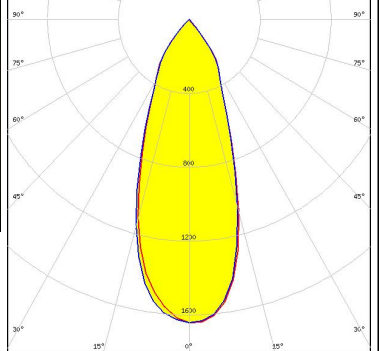
#### LUMILEDS

LED LUXEON CoB 1202s  
 FWHM / FWTM 32.0° / 71.0°  
 Efficiency 77 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 452 Typ L1

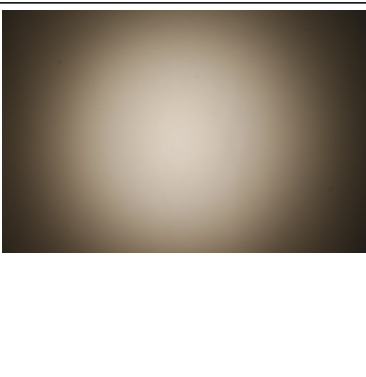
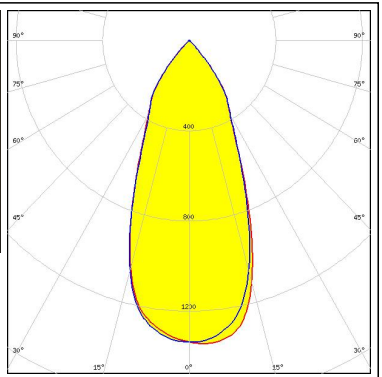
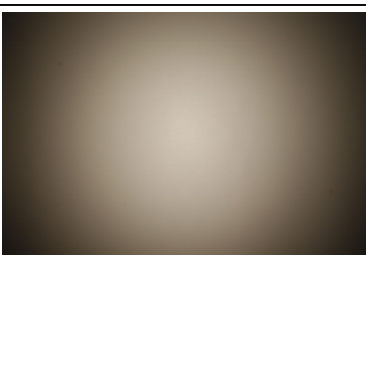
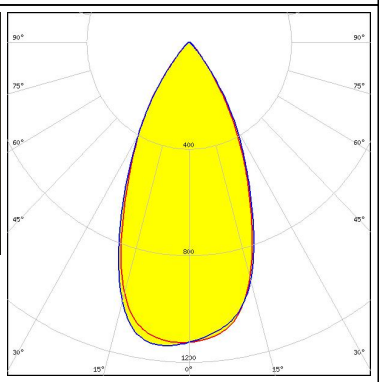
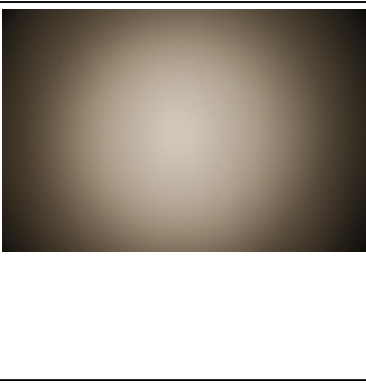
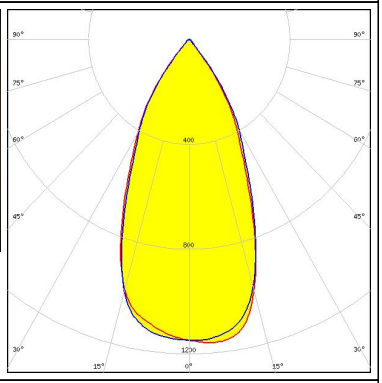
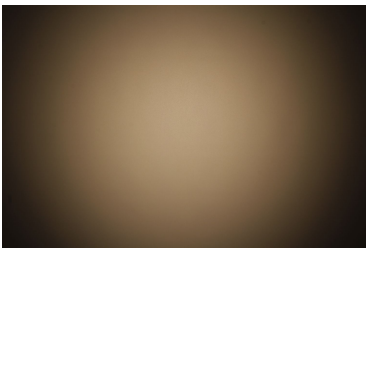
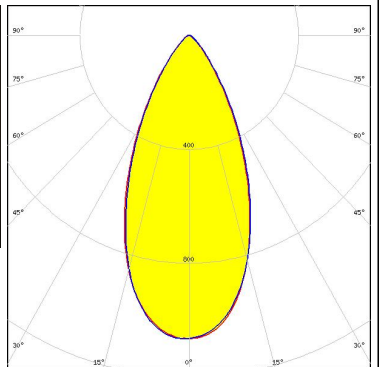




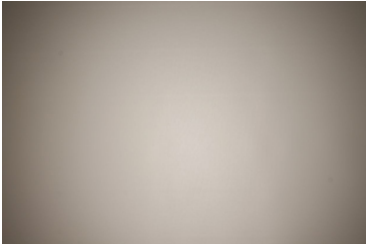
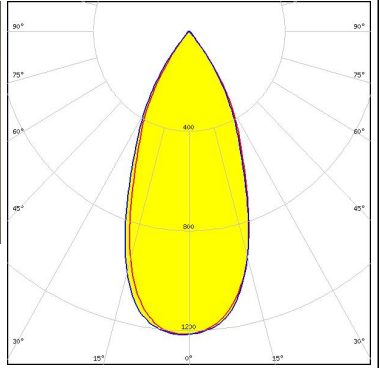
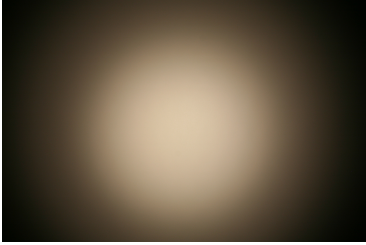
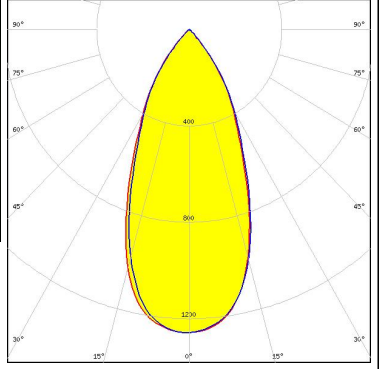
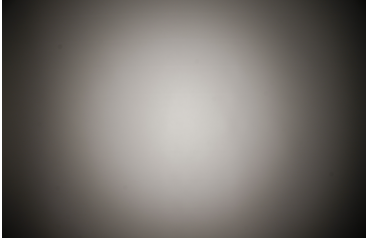
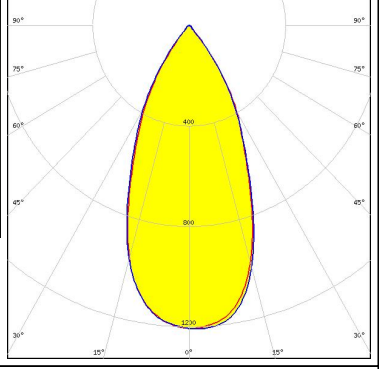
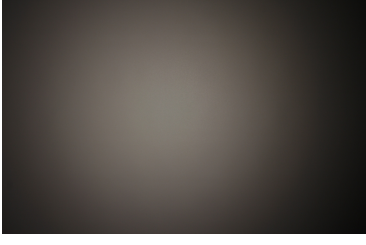
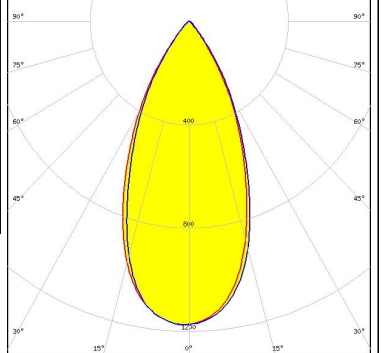
#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 25.0° / 72.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>Bender Wirth: 452 Typ L1</p> |    |    |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON Z</p> <p>FWHM / FWTM 36.0° / 75.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 1.5 cd/m</p> <p>LEDs/each optic 4</p> <p>Light colour RGBW</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C13723_MIRELLA-RZL</p>                          |   |   |
| <p><b>LUMINUS</b></p> <p>LED CxM-6 (12x13)</p> <p>FWHM / FWTM 36.0° / 79.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET</p>  |  |  |
| <p><b>LUMINUS</b></p> <p>LED CXM-7 (13x13)</p> <p>FWHM / FWTM 38.0° / 79.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET</p>  |  |  |

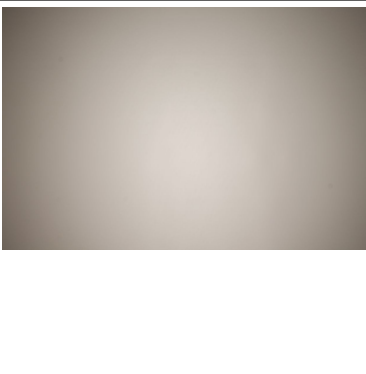
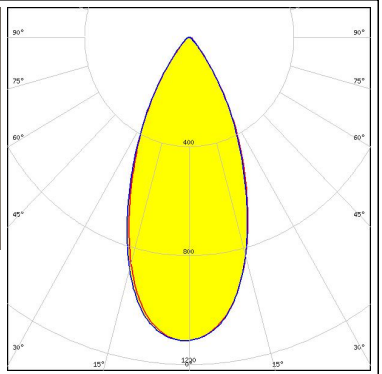

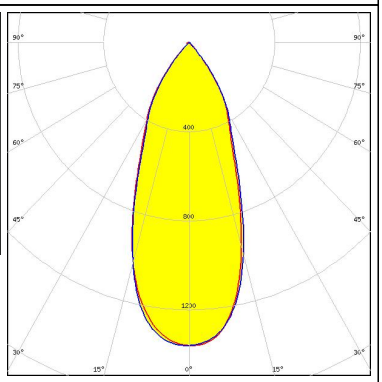

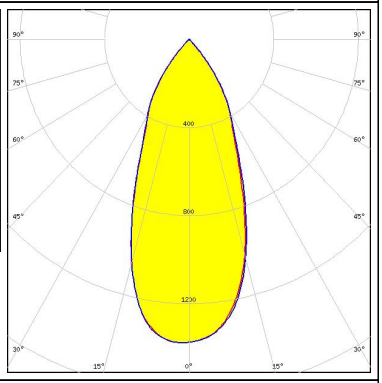
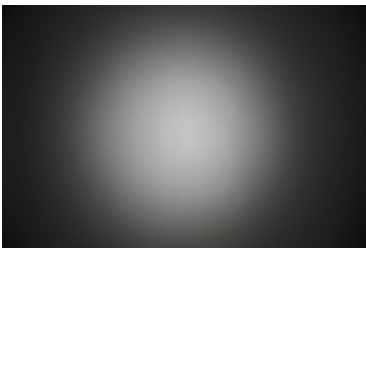
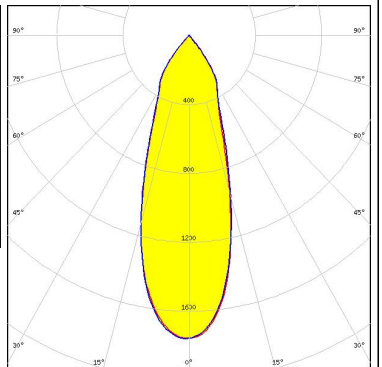
#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)<br/>           FWHM / FWTM 44.0° / 82.0°<br/>           Efficiency 88 %<br/>           Peak intensity 1.3 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13083_PF-SOCKET</p>                                   |    |    |
| <p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)<br/>           FWHM / FWTM 49.0° / 79.0°<br/>           Efficiency 83 %<br/>           Peak intensity 1.1 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13083_PF-SOCKET<br/>           C12479_MIRELLA-DL</p>  |   |   |
| <p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)<br/>           FWHM / FWTM 48.0° / 78.0°<br/>           Efficiency 83 %<br/>           Peak intensity 1.2 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13083_PF-SOCKET<br/>           C13333_MIRELLA-CL</p>  |  |  |
| <p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)<br/>           FWHM / FWTM 48.0° / 83.0°<br/>           Efficiency 80 %<br/>           Peak intensity 1.1 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:<br/>           C13083_PF-SOCKET<br/>           C13723_MIRELLA-RZL</p> |  |  |

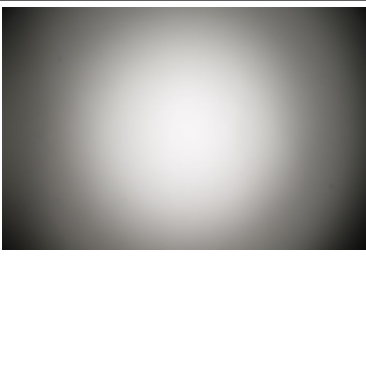
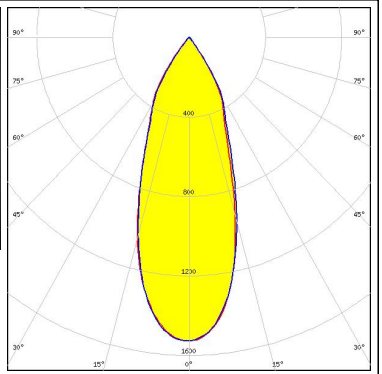

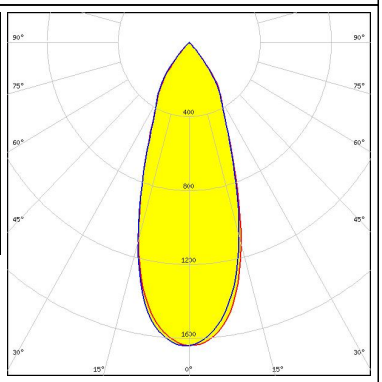

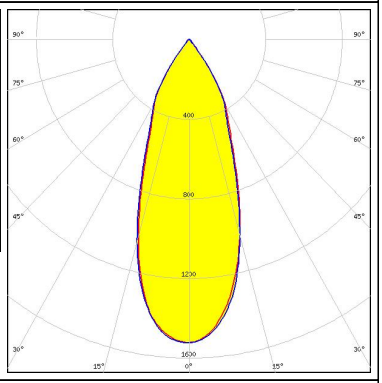

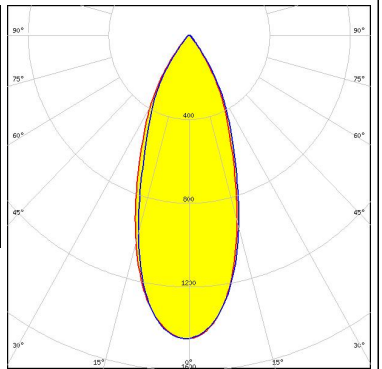
#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 45.0° / 75.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13709_PF-SOCKET-VERO13-18</p> <p>C13333_MIRELLA-CL</p> <p>Bender Wirth: 438 Typ L1</p> |    |    |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 46.0° / 82.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C14037_PF-NSX-SOCKET</p>  |   |   |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 47.0° / 77.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13333_MIRELLA-CL</p> <p>IDEAL: 50-2100NC +50-2100MR</p>                                |  |  |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 46.0° / 77.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12479_MIRELLA-DL</p> <p>IDEAL: 50-2100NC +50-2100MR</p>                                |  |  |

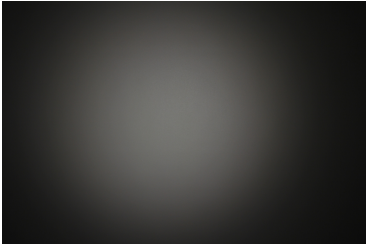
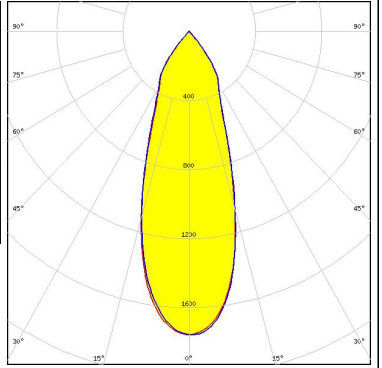
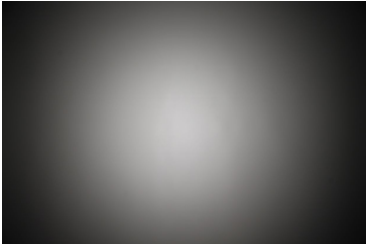
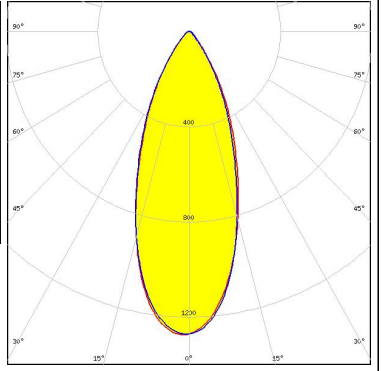
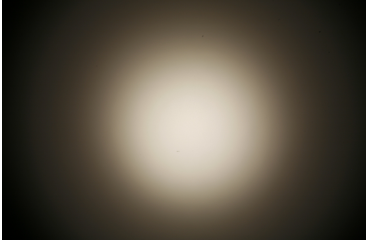
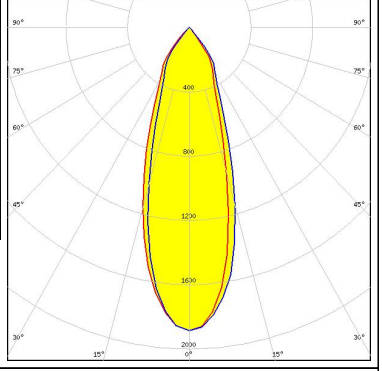
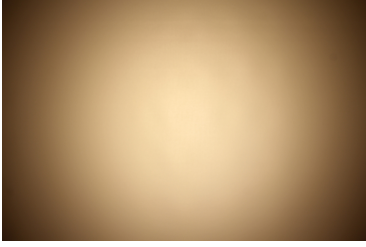
#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 46.0° / 78.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 1.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>C12479_MIRELLA-DL<br/>Bender Wirth: 438 Typ L1</p> |    |    |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 41.0° / 79.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>Bender Wirth: 438 Typ L1</p>                       |   |   |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 43.0° / 80.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>IDEAL: 50-2100NC +50-2100MR</p>   |  |  |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 34.0° / 76.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>Bender Wirth: 438 Typ L1</p>                        |  |  |


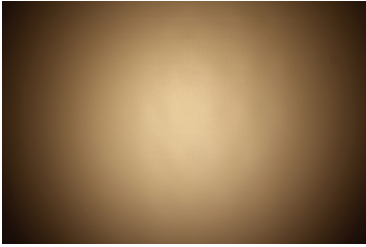


#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 37.0° / 73.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13709_PF-SOCKET-VERO13-18</p> <p>C13333_MIRELLA-CL</p> <p>Bender Wirth: 438 Typ L1</p> |    |    |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 38.0° / 78.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C14037_PF-NSX-SOCKET</p>  |   |   |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 38.0° / 73.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13333_MIRELLA-CL</p> <p>IDEAL: 50-2100NC +50-2100MR</p>                                |  |  |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 39.0° / 73.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12479_MIRELLA-DL</p> <p>IDEAL: 50-2100NC +50-2100MR</p>                                |  |  |

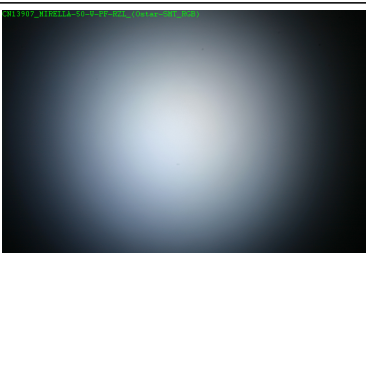
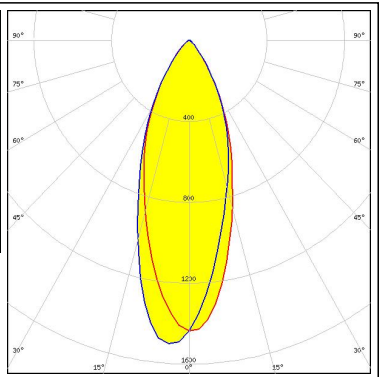

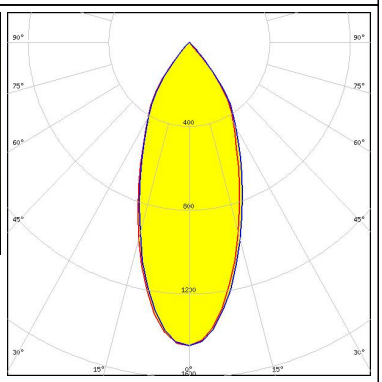

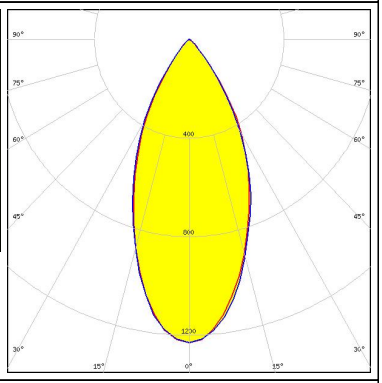

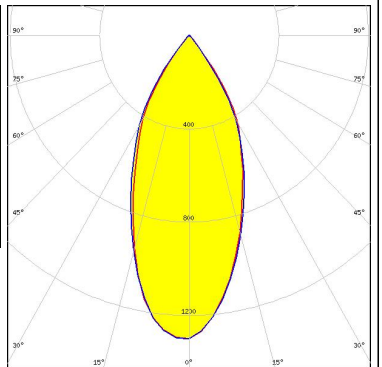
#### PHOTOMETRIC DATA (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 35.0° / 77.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>IDEAL: 50-2100NC +50-2100MR</p>   |    |    |
| <p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 40.0° / 75.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13709_PF-SOCKET-VERO13-18<br/>C12479_MIRELLA-DL<br/>Bender Wirth: 438 Typ L1</p> |   |   |
| <p><b>NICHIA</b></p> <p>LED NSCxL036A</p> <p>FWHM / FWTM 34.0° / 76.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C14037_PF-NSX-SOCKET</p>   |  |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 45.0° / 81.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C12479_MIRELLA-DL</p>                          |  |   |

#### PHOTOMETRIC DATA (MEASURED):

|   |  |
|---|--|
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED Duris S10<br/>FWHM / FWTM 43.0°<br/>Efficiency %<br/>LEDs/each optic 1<br/>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C13333_MIRELLA-CL</p>   |    |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED Duris S10<br/>FWHM / FWTM 45.0° / 82.0°<br/>Efficiency 80 %<br/>Peak intensity 1.3 cd/lm<br/>LEDs/each optic 1<br/>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C13723_MIRELLA-RZL</p>          |   |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED Duris S10<br/>FWHM / FWTM 38.0° / 82.0°<br/>Efficiency 87 %<br/>Peak intensity 1.7 cd/lm<br/>LEDs/each optic 1<br/>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET</p>                                 |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED OSTAR Stage (S2WP)<br/>FWHM / FWTM 36.0° / 78.0°<br/>Efficiency 83 %<br/>Peak intensity 1.6 cd/lm<br/>LEDs/each optic 1<br/>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C13723_MIRELLA-RZL</p> |  |

#### PHOTOMETRIC DATA (MEASURED):

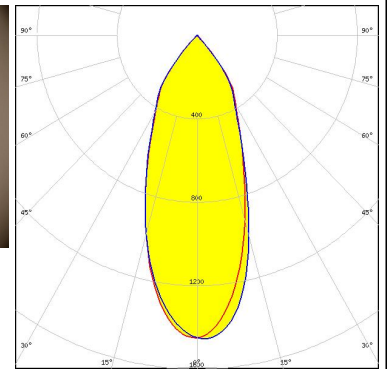
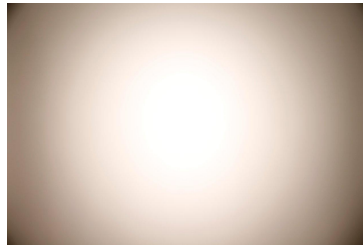
|   |  |   |
|---|--|---|
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED Ostar-SMT RGB</p> <p>FWHM / FWTM 37.0° / 77.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C13723_MIRELLA-RZL</p> |    |    |
| <p><b>SEOUL</b><br/>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 42.0° / 82.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET</p>                                |   |   |
| <p><b>SEOUL</b><br/>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 48.0° / 80.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C12479_MIRELLA-DL</p>          |  |  |
| <p><b>SEOUL</b><br/>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 46.0° / 78.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:<br/>C13083_PF-SOCKET<br/>C13333_MIRELLA-CL</p>          |  |  |



#### PHOTOMETRIC DATA (MEASURED):

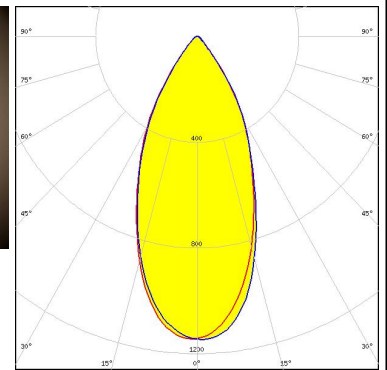
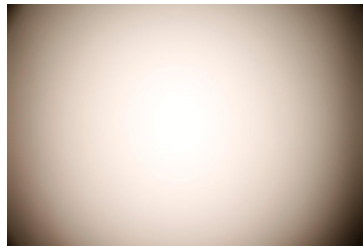
### SHARP

LED Mini Zenigata (GW6BM)  
 FWHM / FWTM 38.0° / 81.0°  
 Efficiency 88 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



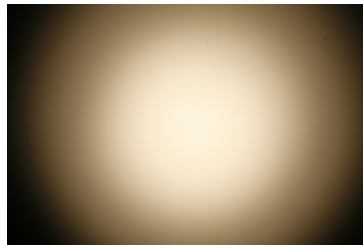
### SHARP

LED Mini Zenigata (GW6BM)  
 FWHM / FWTM 45.0° / 80.0°  
 Efficiency 81 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



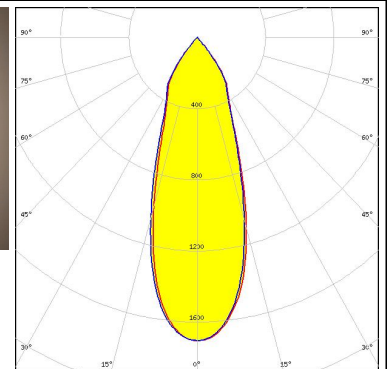
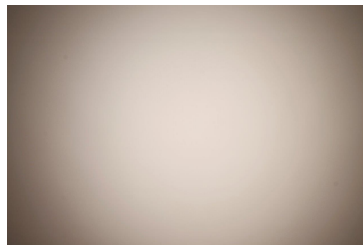
### SHARP

LED Mini Zenigata (GW6BM)  
 FWHM / FWTM 46.0° / 78.0°  
 Efficiency 81 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



### XICATO

LED XTM - 9mm LES  
 FWHM / FWTM 35.0° / 76.0°  
 Efficiency 83 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14636\_XTM-PF-ADAPTER



#### PHOTOMETRIC DATA (SIMULATED):

##### LUMILEDS

LED LUXEON CoB Compact  
FWHM / FWTM 40.0° / 78.0°  
Efficiency 82 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13761\_PF-SOCKET-CXA15  
C12479\_MIRELLA-DL

##### LUMILEDS

LED LUXEON CoB Compact  
FWHM / FWTM 35.0° / 82.0°  
Efficiency 88 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13761\_PF-SOCKET-CXA15

##### LUMILEDS

LED LUXEON CoB Compact  
FWHM / FWTM 37.0° / 72.0°  
Efficiency 77 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 452 Typ L1

##### LUMILEDS

LED LUXEON CoB Compact  
FWHM / FWTM 25.0° / 72.0°  
Efficiency 85 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 452 Typ L1

#### PHOTOMETRIC DATA (SIMULATED):

#### LUMILEDS

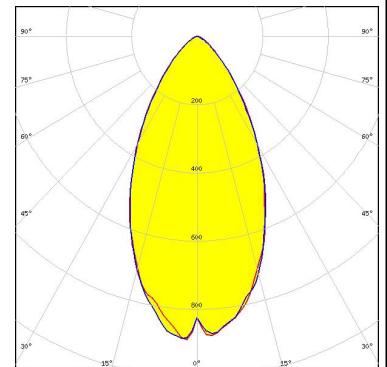
LED LUXEON CoB Compact  
 FWHM / FWTM 32.0° / 71.0°  
 Efficiency 77 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 452 Typ L1

#### LUMILEDS

LED LUXEON CoB Compact  
 FWHM / FWTM 41.0° / 78.0°  
 Efficiency 82 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL

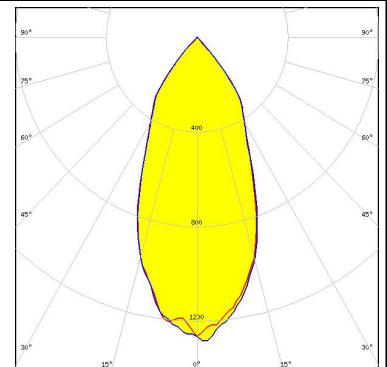
#### LUMILEDS

LED LUXEON K4  
 FWHM / FWTM 54.0° / 98.0°  
 Efficiency 83 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C12479\_MIRELLA-DL



#### LUMILEDS

LED LUXEON K4  
 FWHM / FWTM 46.0° / 84.0°  
 Efficiency 88 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



#### PHOTOMETRIC DATA (SIMULATED):



LED CxM-14 (19x19)  
FWHM / FWTM 49.0° / 72.0°  
Efficiency 75 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 433 Typ L1



LED CxM-14 (19x19)  
FWHM / FWTM 51.0° / 81.0°  
Efficiency 70 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL  
Bender Wirth: 433 Typ L1



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 39.0° / 73.0°  
Efficiency 78 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 434 Typ L1



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 36.0° / 77.0°  
Efficiency 84 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 434 Typ L1

#### PHOTOMETRIC DATA (SIMULATED):



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 41.0° / 76.0°  
Efficiency 76 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL  
Bender Wirth: 434 Typ L1



LED COB S-Type (LES 7)  
FWHM / FWTM 32.0° / 71.0°  
Efficiency 77 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL  
Bender Wirth: 452 Typ L1



LED COB S-Type (LES 7)  
FWHM / FWTM 28.0° / 69.0°  
Efficiency 81 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 452 Typ L1



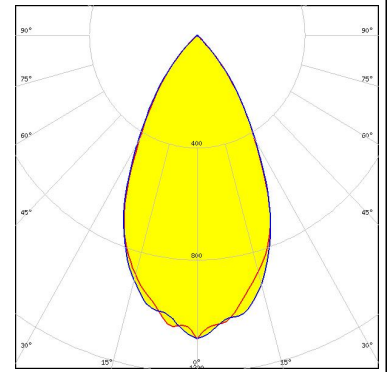
LED COB S-Type (LES 7)  
FWHM / FWTM 25.0° / 72.0°  
Efficiency 85 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 452 Typ L1

#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

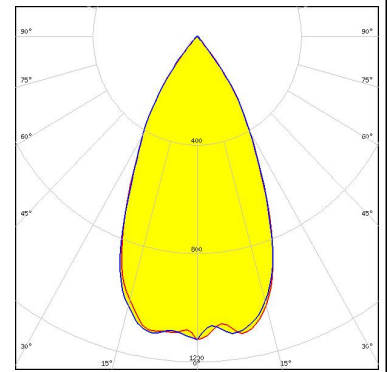
LED Soleriq S15  
 FWHM / FWTM 56.0° / 86.0°  
 Efficiency 86 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 433 Typ L1



#### OSRAM

Opto Semiconductors

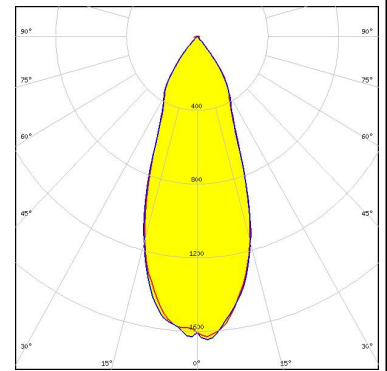
LED Soleriq S9  
 FWHM / FWTM 52.0° / 79.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



#### OSRAM

Opto Semiconductors

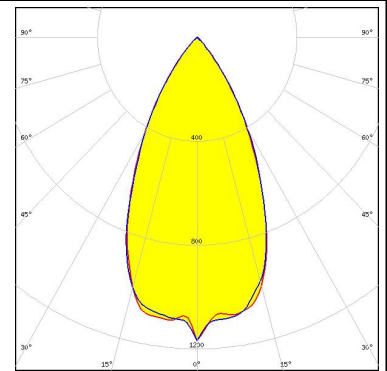
LED Soleriq S9  
 FWHM / FWTM 38.0° / 77.0°  
 Efficiency 88 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18



#### OSRAM

Opto Semiconductors

LED Soleriq S9  
 FWHM / FWTM 51.0° / 80.0°  
 Efficiency 85 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL

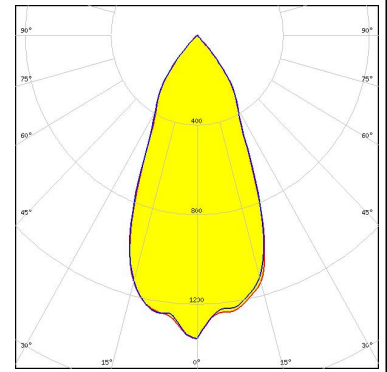


#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

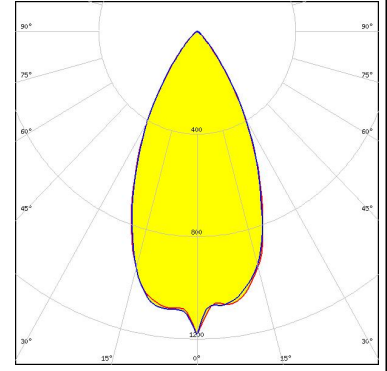
LED Soleriq S9  
 FWHM / FWTM 46.0° / 82.0°  
 Efficiency 91 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



#### OSRAM

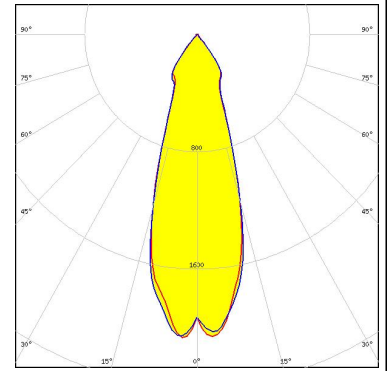
Opto Semiconductors

LED Soleriq S9  
 FWHM / FWTM 50.0° / 80.0°  
 Efficiency 85 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



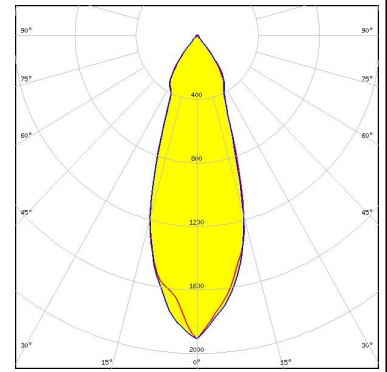
#### SAMSUNG

LED LC010C  
 FWHM / FWTM 32.0° / 74.0°  
 Efficiency 87 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 479 Typ L1



#### SAMSUNG

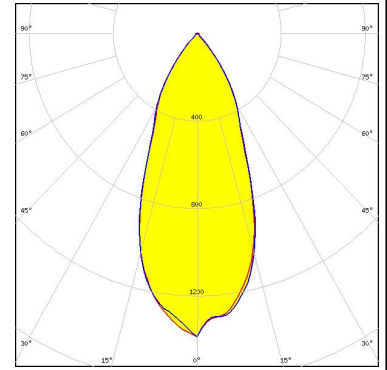
LED LC020C  
 FWHM / FWTM 35.0° / 75.0°  
 Efficiency 86 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 479 Typ L1



#### PHOTOMETRIC DATA (SIMULATED):

### SAMSUNG

LED LC040C  
 FWHM / FWTM 42.0° / 79.0°  
 Efficiency 84 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 480 Typ L1



SEOUL SEMICONDUCTOR

LED ZC4/6  
 FWHM / FWTM 39.0° / 73.0°  
 Efficiency 78 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 434 Typ L1



SEOUL SEMICONDUCTOR

LED ZC4/6  
 FWHM / FWTM 36.0° / 77.0°  
 Efficiency 84 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



SEOUL SEMICONDUCTOR

LED ZC4/6  
 FWHM / FWTM 41.0° / 76.0°  
 Efficiency 76 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 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:

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