

## MIRELLA-50-S-PF

~15° spot beam

### TECHNICAL SPECIFICATIONS:

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

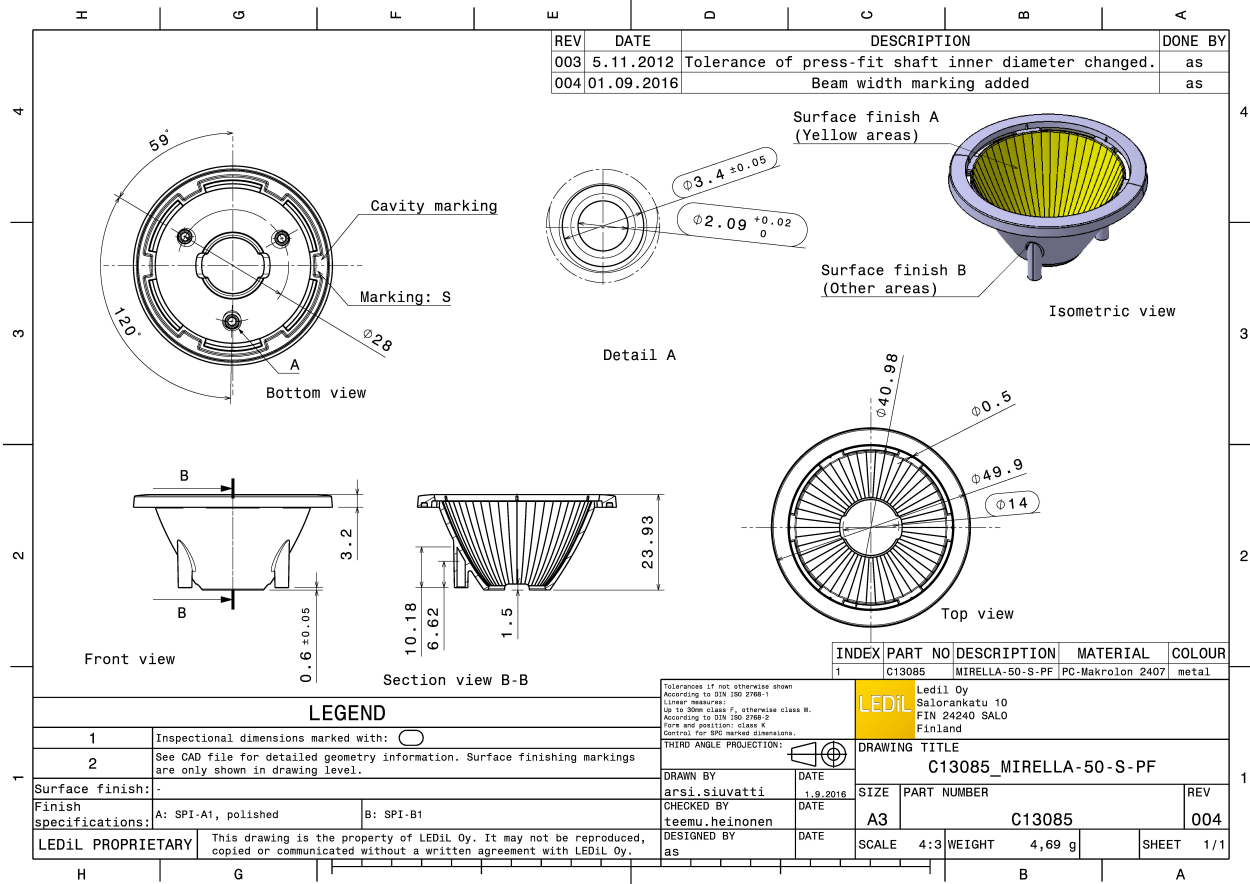
### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:


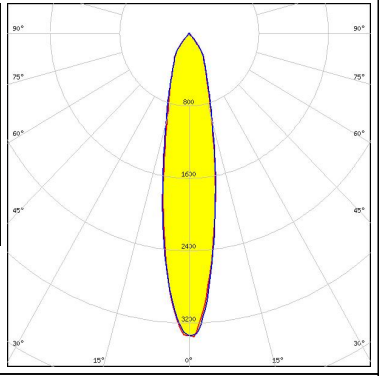

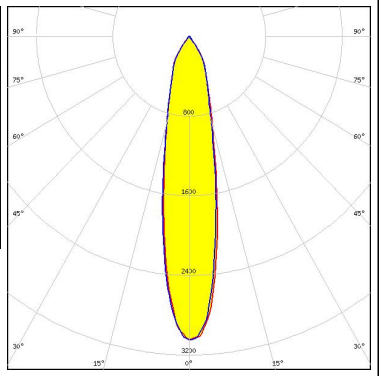

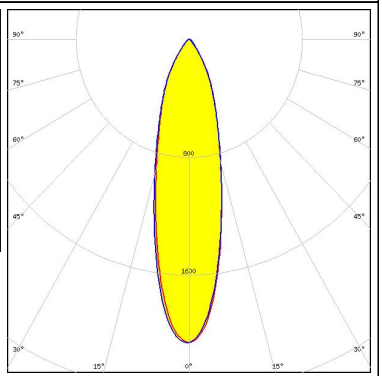
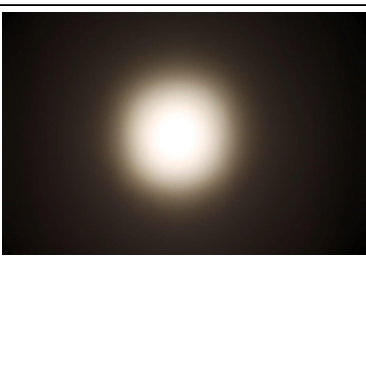
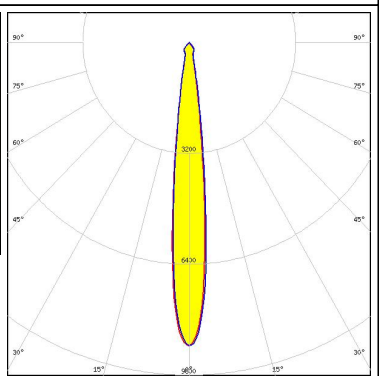
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13085_MIRELLA-50-S-PF » Box size: 480 x 280 x 300 mm	336	112	28	3.0




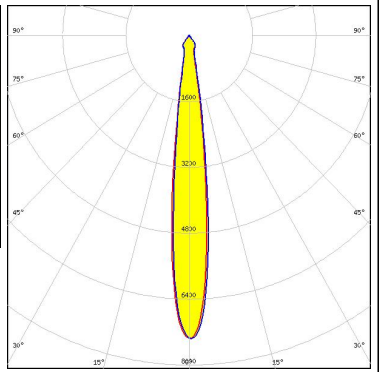

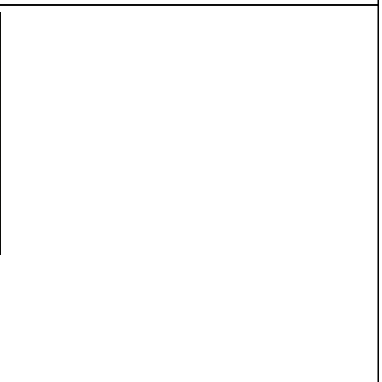

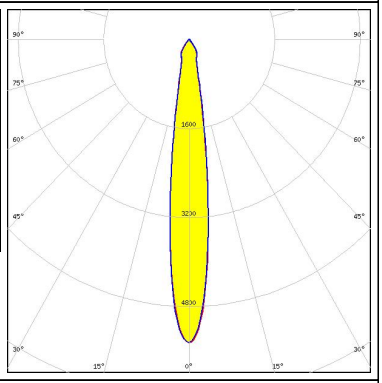

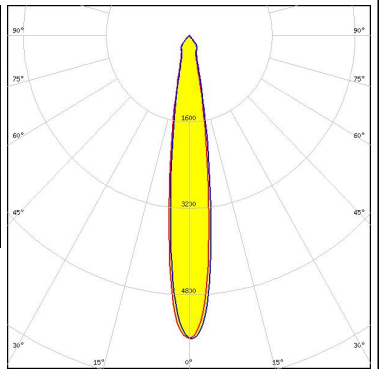


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):


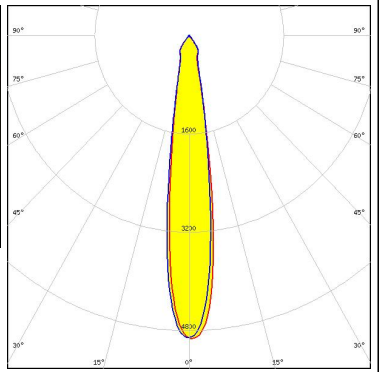

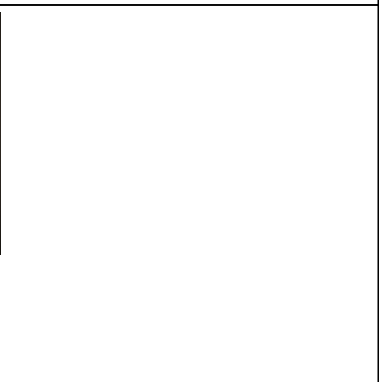

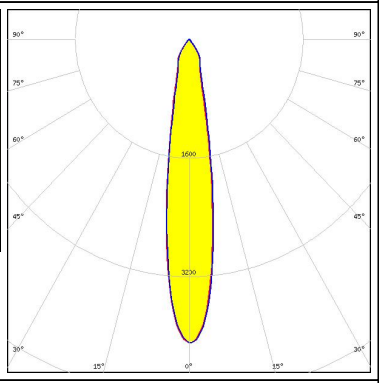

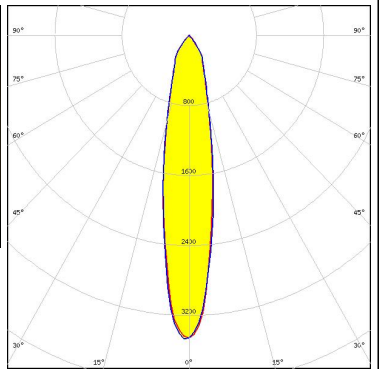
<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM / FWTM 21.0° / 61.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 486 Typ L1</p>		
<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM / FWTM 21.0° / 61.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 3.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL</p>		
<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM / FWTM 26.0° / 66.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL</p>		
<p>bridgelux.</p> <p>LED V6 Gen6</p> <p>FWHM / FWTM 12.0° / 25.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 8.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V6 Gen6</p> <p>FWHM / FWTM 13.0° / 26.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 7.4 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>		
<p>bridgelux.</p> <p>LED V6 Gen6</p> <p>FWHM / FWTM 18.0° / 52.0°</p> <p>Efficiency 73 %</p> <p>Peak intensity 4.3 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 V6 Gen6</p> <p>FWHM / FWTM 15.0° / 33.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 5.5 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 15.0° / 34.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 5.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13761_PF-SOCKET-CXA15</p>		



#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V8 Gen6</p> <p>FWHM / FWTM 16.0° / 36.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.9 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>		
<p>bridgelux.</p> <p>LED V8 Gen6</p> <p>FWHM / FWTM 20.0° / 62.0°</p> <p>Efficiency 71 %</p> <p>Peak intensity 3.4 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 18.0° / 44.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 4.1 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 VERO10</p> <p>FWHM / FWTM 20.0° / 57.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13708_PF-SOCKET-VERO10</p>		

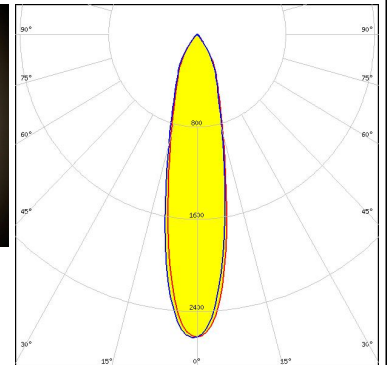
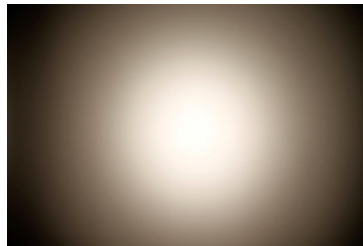
#### PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED VERO10  
 FWHM / FWTM 23.0° / 63.0°  
 Efficiency 83 %  
 Peak intensity 2.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13708\_PF-SOCKET-VERO10  
 C13333\_MIRELLA-CL

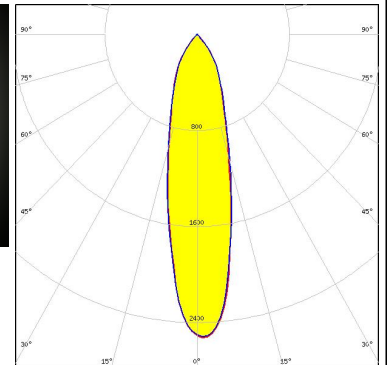
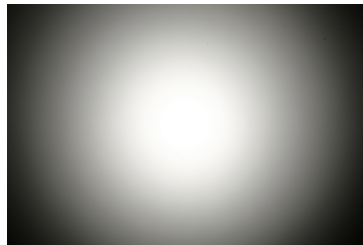
bridgelux.

LED VERO10  
 FWHM / FWTM 23.0° / 63.0°  
 Efficiency 83 %  
 Peak intensity 2.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13708\_PF-SOCKET-VERO10  
 C12479\_MIRELLA-DL



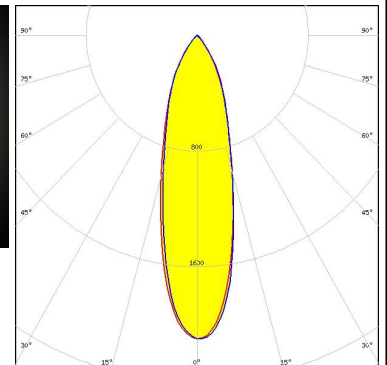
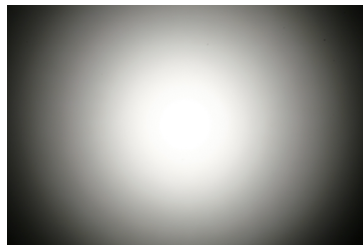
bridgelux.

LED VERO13  
 FWHM / FWTM 25.0° / 69.0°  
 Efficiency 89 %  
 Peak intensity 2.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18


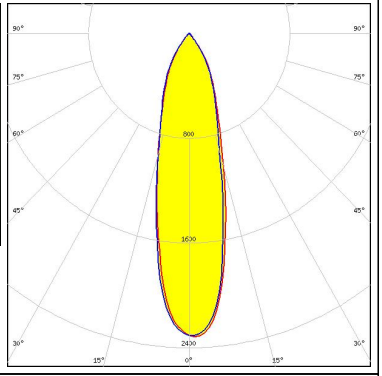

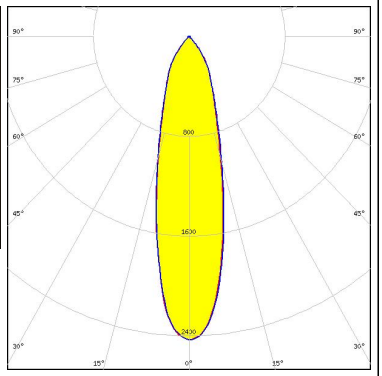

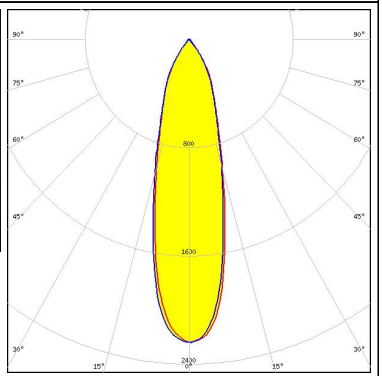

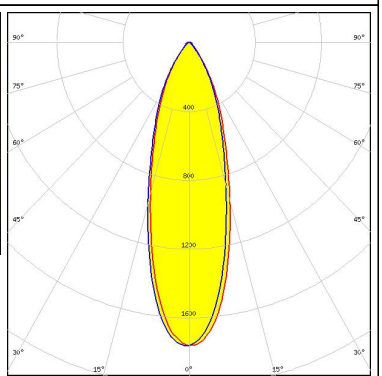


bridgelux.

LED VERO13  
 FWHM / FWTM 28.0° / 68.0°  
 Efficiency 84 %  
 Peak intensity 2.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL



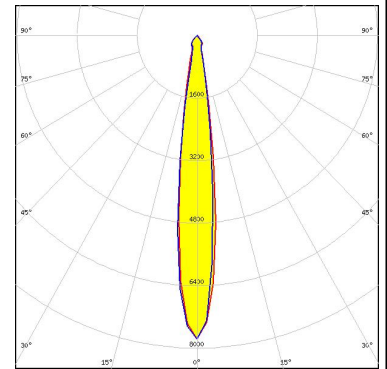
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO13            FWHM / FWTM 26.0° / 67.0°            Efficiency 83 %            Peak intensity 2.3 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13709_PF-SOCKET-VERO13-18            C13333_MIRELLA-CL</p>		
<p>bridgelux.</p> <p>LED Xenio Point 13mm            FWHM / FWTM 26.0° / 69.0°            Efficiency 87 %            Peak intensity 2.4 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13709_PF-SOCKET-VERO13-18</p>		
<p>bridgelux.</p> <p>LED Xenio Point 13mm            FWHM / FWTM 27.0° / 67.0°            Efficiency 83 %            Peak intensity 2.2 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13709_PF-SOCKET-VERO13-18            C13333_MIRELLA-CL</p>		
<p>bridgelux.</p> <p>LED Xenio Point 13mm            FWHM / FWTM 31.0° / 70.0°            Efficiency 81 %            Peak intensity 1.8 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13709_PF-SOCKET-VERO13-18            C12479_MIRELLA-DL</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### CITIZEN

LED CLL01x  
 FWHM / FWTM 14.0° / 27.0°  
 Efficiency 88 %  
 Peak intensity 7.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



#### CITIZEN

LED CLL01x  
 FWHM / FWTM 15.0° / 32.0°  
 Efficiency 84 %  
 Peak intensity 5.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



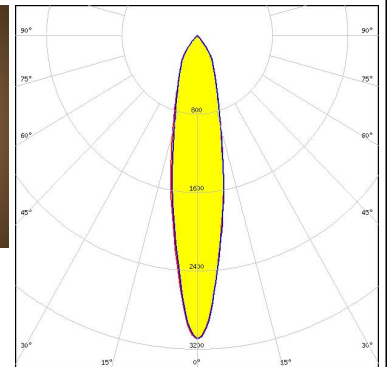
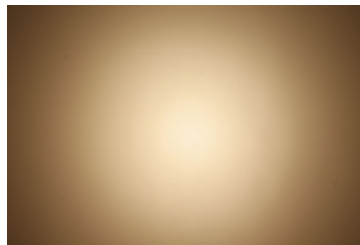
#### CITIZEN

LED CLL01x  
 FWHM / FWTM 13.0° / 27.0°  
 Efficiency 84 %  
 Peak intensity 7.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



#### CITIZEN

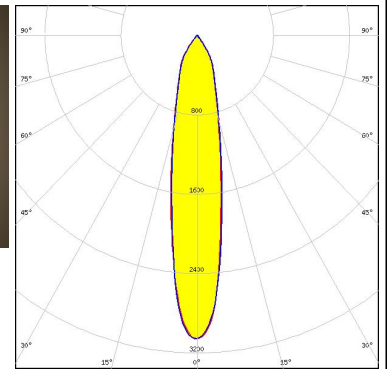
LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 21.0° / 63.0°  
 Efficiency 84 %  
 Peak intensity 3.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

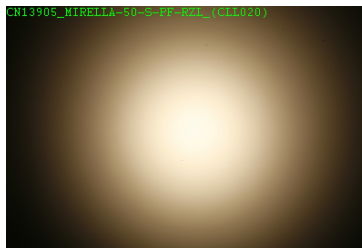
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 20.0° / 61.0°  
 Efficiency 80 %  
 Peak intensity 3.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 434 Typ L1



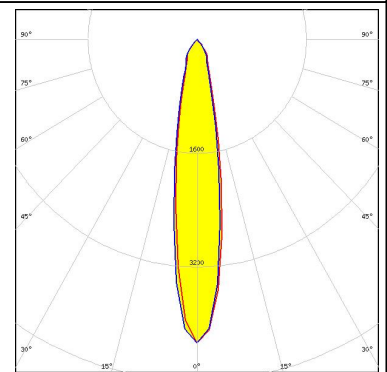
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 25.0° / 64.0°  
 Efficiency %  
 Peak intensity 1.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 19.0° / 46.0°  
 Efficiency 87 %  
 Peak intensity 4.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 20.0° / 54.0°  
 Efficiency 83 %  
 Peak intensity 4.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL





#### PHOTOMETRIC DATA (MEASURED):

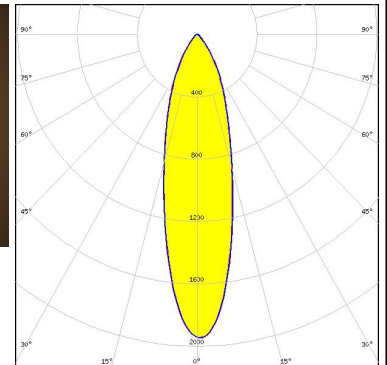
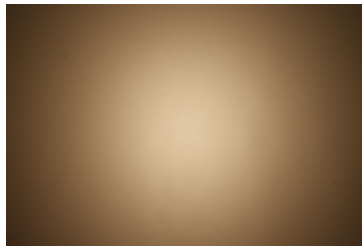
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 18.0° / 43.0°  
 Efficiency 83 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



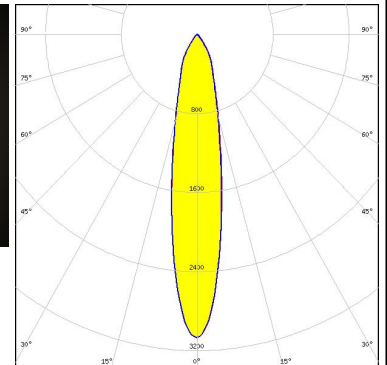
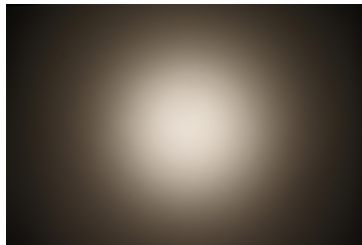
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 27.0° / 67.0°  
 Efficiency 77 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 434 Typ L1



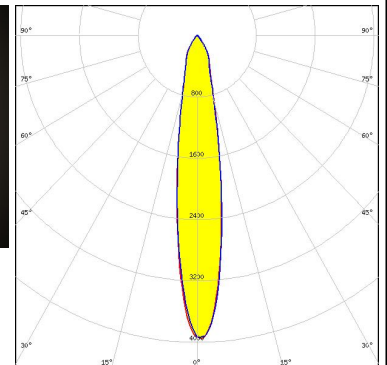
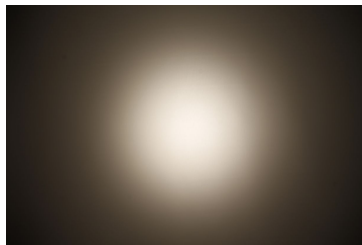
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 20.0° / 58.0°  
 Efficiency 79 %  
 Peak intensity 3.1 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

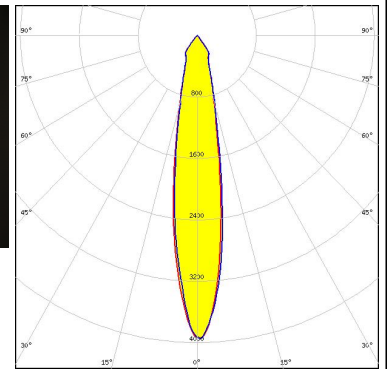
LED CLU700/701/702  
 FWHM / FWTM 17.0° / 47.0°  
 Efficiency 82 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

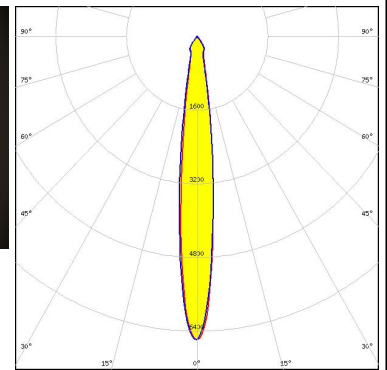
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 19.0° / 47.0°  
 Efficiency 84 %  
 Peak intensity 4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



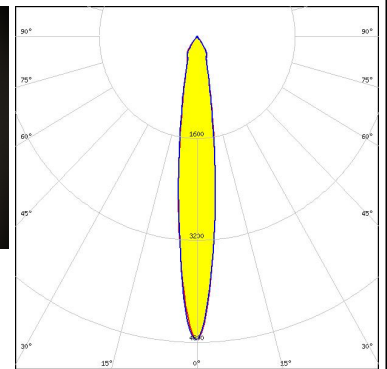
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 13.0° / 30.0°  
 Efficiency 83 %  
 Peak intensity 6.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



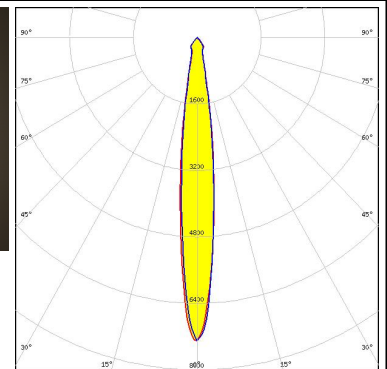
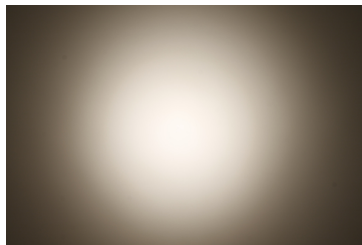
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 14.0° / 40.0°  
 Efficiency 79 %  
 Peak intensity 4.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 434 Typ L1



#### CITIZEN

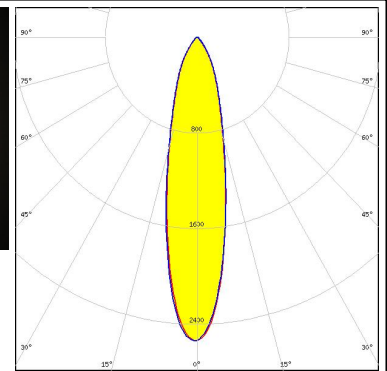
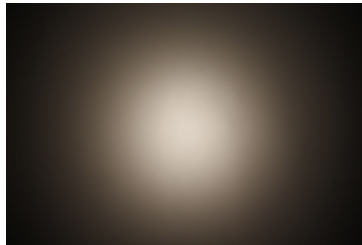
LED CLU700/701/702  
 FWHM / FWTM 13.0° / 29.0°  
 Efficiency 89 %  
 Peak intensity 7.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



#### PHOTOMETRIC DATA (MEASURED):

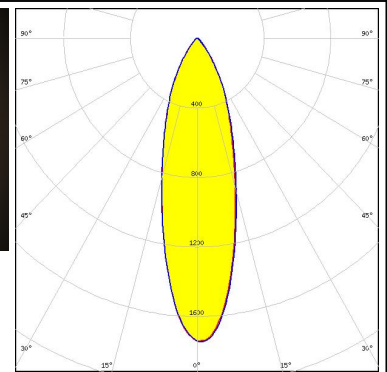
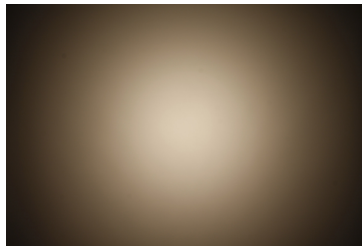
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 23.0° / 61.0°  
 Efficiency 82 %  
 Peak intensity 2.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



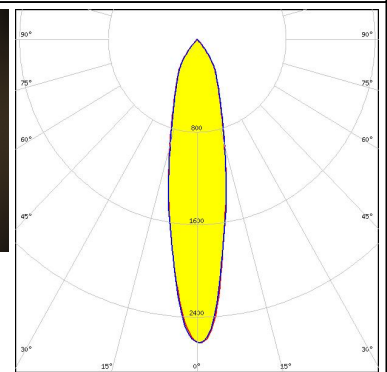
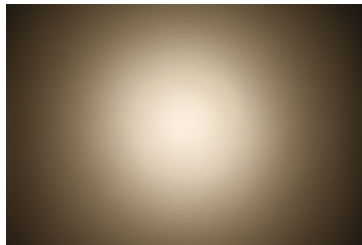
#### CITIZEN

LED CLU720/721  
 FWHM / FWTM 29.0° / 69.0°  
 Efficiency 75 %  
 Peak intensity 1.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 433 Typ L1



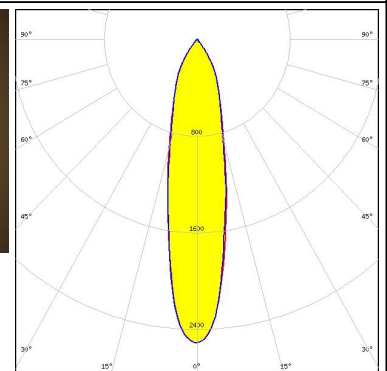
#### CITIZEN

LED CLU720/721  
 FWHM / FWTM 23.0° / 67.0°  
 Efficiency 82 %  
 Peak intensity 2.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 433 Typ L1



#### CITIZEN

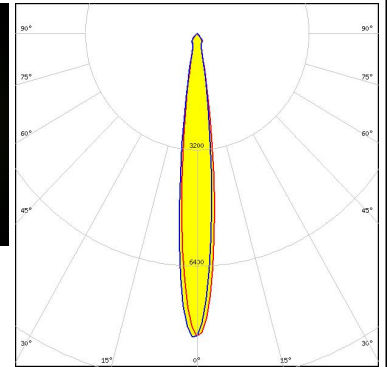
LED CLU720/721  
 FWHM / FWTM 23.0° / 64.0°  
 Efficiency 77 %  
 Peak intensity 2.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 433 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

##### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 12.0° / 25.0°  
 Efficiency 87 %  
 Peak intensity 9.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



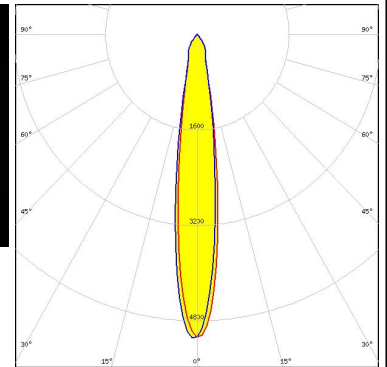
##### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 12.0° / 25.0°  
 Efficiency 82 %  
 Peak intensity 8.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL



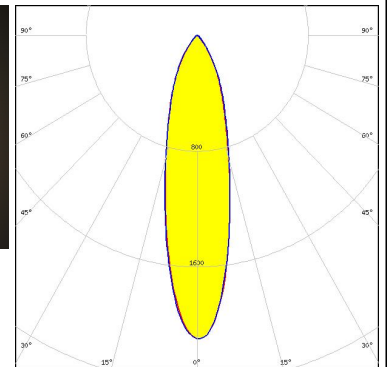
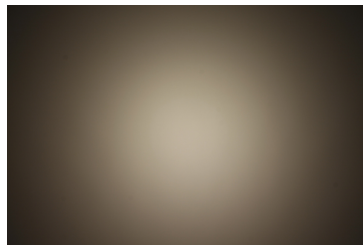
##### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 15.0° / 36.0°  
 Efficiency 81 %  
 Peak intensity 5.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C12479\_MIRELLA-DL



##### CREE LED

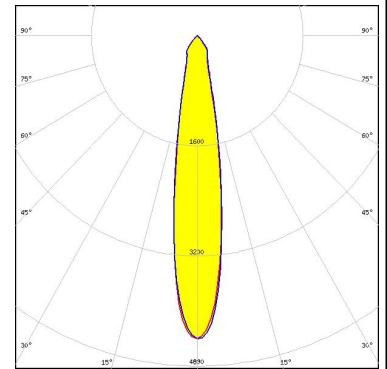
LED CXA/B 15xx  
 FWHM / FWTM 26.0° / 66.0°  
 Efficiency 77 %  
 Peak intensity 2.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 441 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

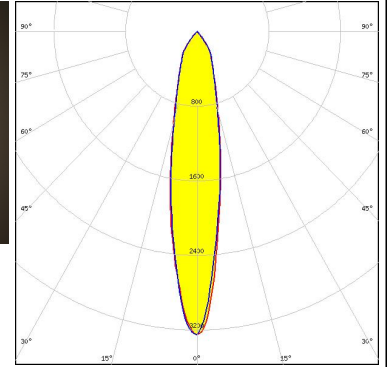
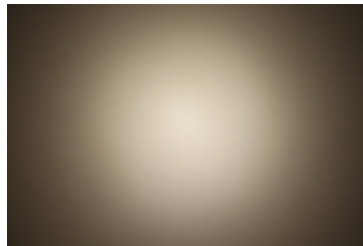
##### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 18.0° / 43.0°  
 Efficiency 91 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



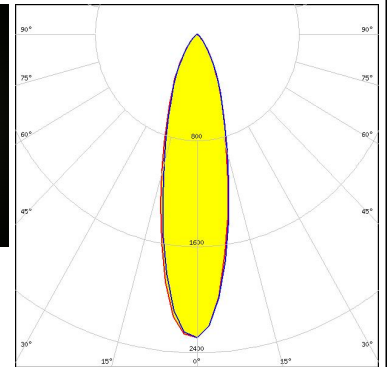
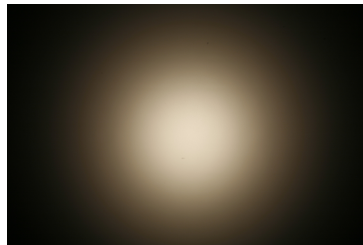
##### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 20.0° / 60.0°  
 Efficiency 84 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 441 Typ L1



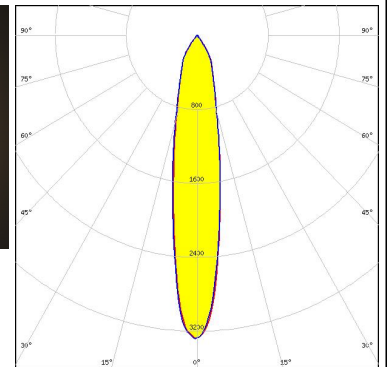
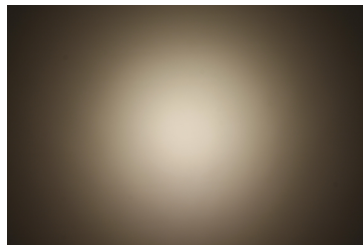
##### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 27.0° / 65.0°  
 Efficiency 82 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C13723\_MIRELLA-RZL



##### CREE LED

LED CXA/B 15xx  
 FWHM / FWTM 19.0° / 59.0°  
 Efficiency 79 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 441 Typ L1





#### PHOTOMETRIC DATA (MEASURED):



LED CXA/B 15xx  
 FWHM / FWTM 19.0° / 47.0°  
 Efficiency 84 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

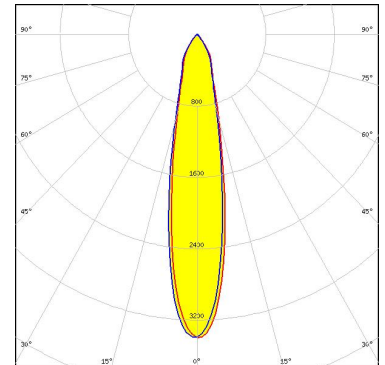
C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL



LED CXA/B 15xx  
 FWHM / FWTM 21.0° / 56.0°  
 Efficiency 87 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

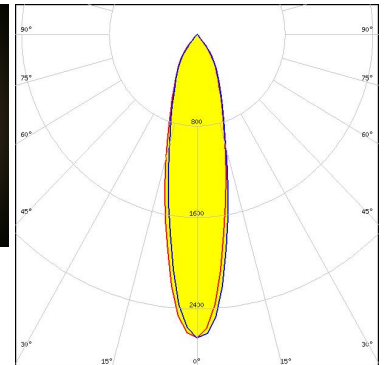
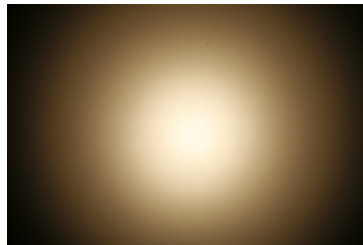
C13761\_PF-SOCKET-CXA15  
 C12479\_MIRELLA-DL



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 25.0° / 68.0°  
 Efficiency 85 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

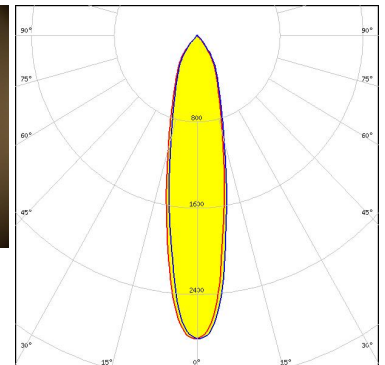
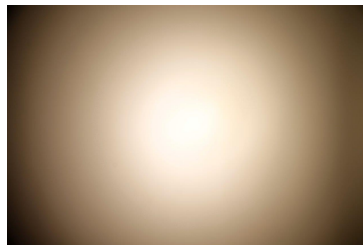
C14115\_PF-SOCKET-CXA15-18




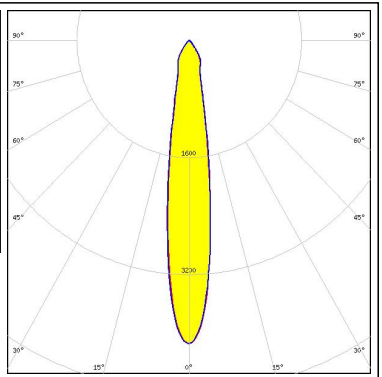

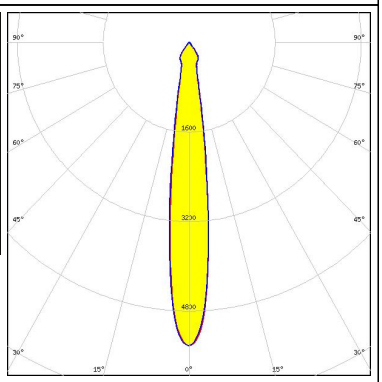

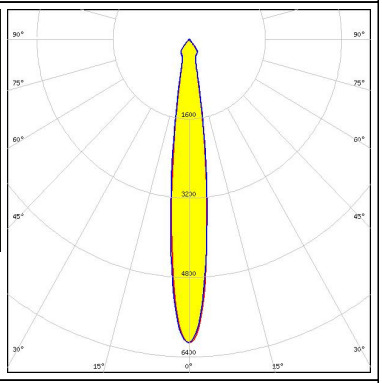

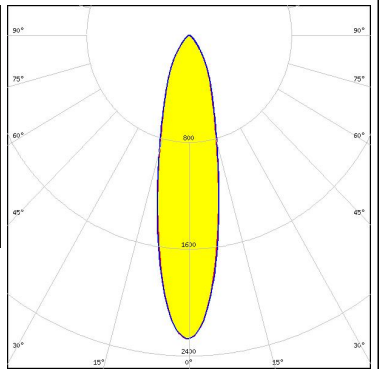
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 23.0° / 67.0°  
 Efficiency 89 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

IDEAL: 50-2101CR + 50-2100MR



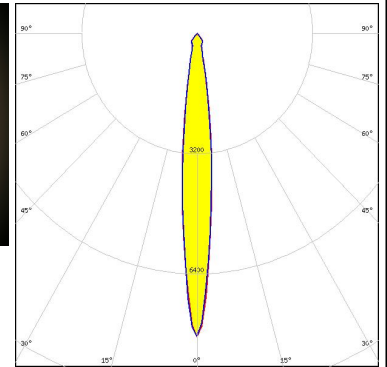
#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE LED</b></p> <p>LED MHD-E/G            FWHM / FWTM 17.0° / 44.0°            Efficiency 87 %            Peak intensity 4.1 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET            C12479_MIRELLA-DL</p>		
<p><b>CREE LED</b></p> <p>LED MHD-E/G            FWHM / FWTM 15.0° / 32.0°            Efficiency 87 %            Peak intensity 5.4 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET            C13333_MIRELLA-CL</p>		
<p><b>CREE LED</b></p> <p>LED MHD-E/G            FWHM / FWTM 14.0° / 31.0°            Efficiency 93 %            Peak intensity 6.1 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET</p>		
<p><b>CREE LED</b></p> <p>LED MHD-E/G            FWHM / FWTM 24.0° / 65.0°            Efficiency 84 %            Peak intensity 2.3 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET            C13723_MIRELLA-RZL</p>		

#### PHOTOMETRIC DATA (MEASURED):

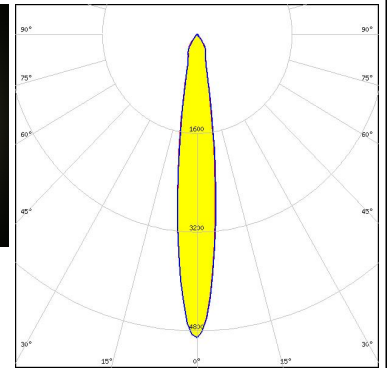
##### CREE LED

LED MK-R  
 FWHM / FWTM 12.0° / 27.0°  
 Efficiency 87 %  
 Peak intensity 8.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



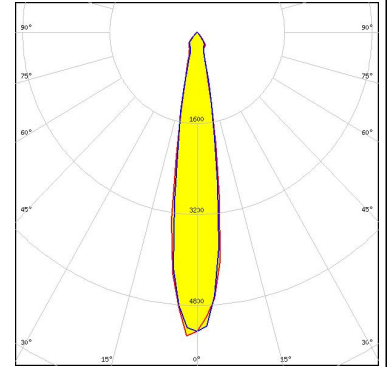
##### CREE LED

LED MK-R  
 FWHM / FWTM 15.0° / 37.0°  
 Efficiency 82 %  
 Peak intensity 4.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



##### CREE LED

LED MT-G  
 FWHM / FWTM 17.0° / 34.0°  
 Efficiency 90 %  
 Peak intensity 5.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



##### CREE LED

LED MT-G  
 FWHM / FWTM 19.0° / 46.0°  
 Efficiency 85 %  
 Peak intensity 4.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

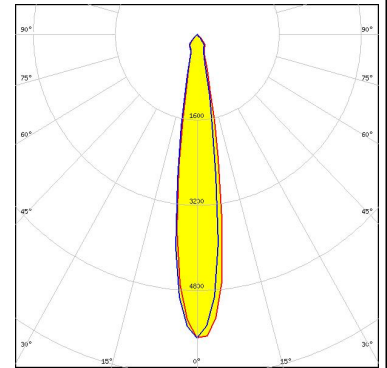
##### CREE LED

LED MT-G  
 FWHM / FWTM 18.0° / 34.0°  
 Efficiency 86 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL



##### CREE LED

LED MT-G2  
 FWHM / FWTM 18.0° / 35.0°  
 Efficiency 88 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



##### CREE LED

LED MT-G2  
 FWHM / FWTM 18.0° / 43.0°  
 Efficiency 85 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



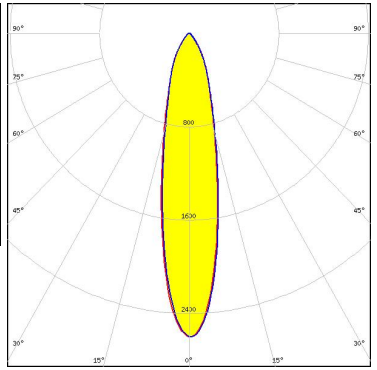


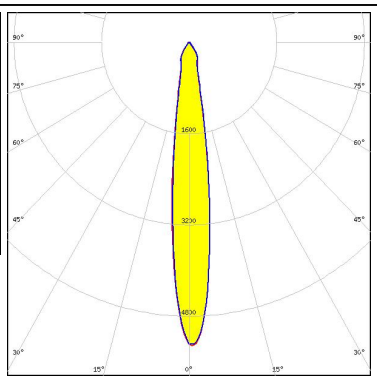


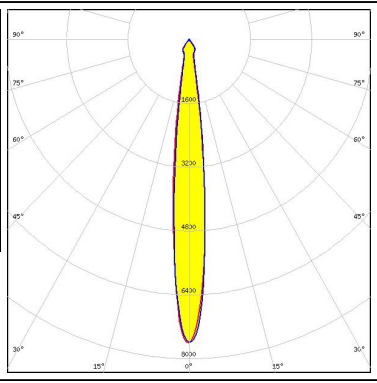


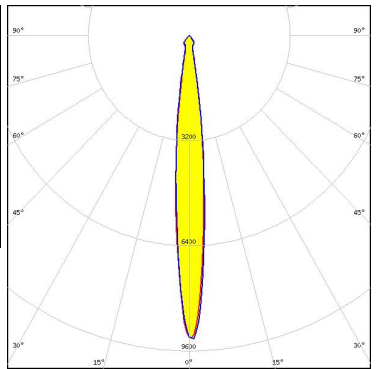


##### CREE LED

LED MT-G2  
 FWHM / FWTM 16.0° / 33.0°  
 Efficiency 84 %  
 Peak intensity 5.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL


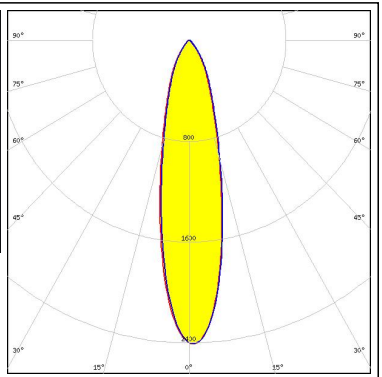

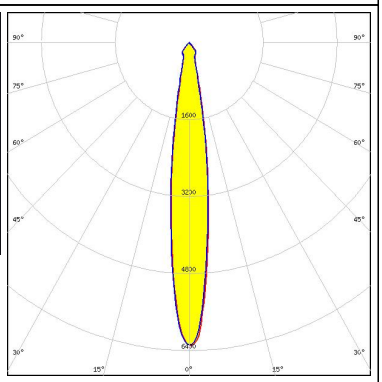

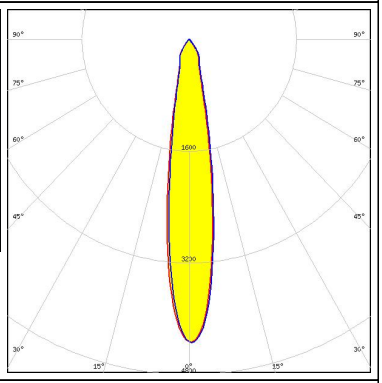

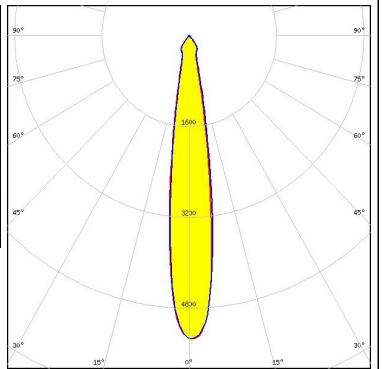


#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b>  <b>LED</b></p> <p>LED XHP50            FWHM / FWTM 22.0° / 60.0°            Efficiency 81 %            Peak intensity 2.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            C13083_PF-SOCKET            C13723_MIRELLA-RZL</p>		
<p><b>CREE</b>  <b>LED</b></p> <p>LED XHP50            FWHM / FWTM 15.0° / 34.0°            Efficiency 85 %            Peak intensity 5.3 cd/m            LEDs/each optic 1            Light colour White            Required components:            C13083_PF-SOCKET            C12479_MIRELLA-DL</p>		
<p><b>CREE</b>  <b>LED</b></p> <p>LED XHP50            FWHM / FWTM 12.0° / 25.0°            Efficiency 84 %            Peak intensity 7.6 cd/m            LEDs/each optic 1            Light colour White            Required components:            C13083_PF-SOCKET            C13333_MIRELLA-CL</p>		
<p><b>CREE</b>  <b>LED</b></p> <p>LED XHP50            FWHM / FWTM 11.0° / 23.0°            Efficiency 89 %            Peak intensity 9.2 cd/m            LEDs/each optic 1            Light colour White            Required components:            C13083_PF-SOCKET</p>		



#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> LED</p> <p>LED XHP70            FWHM / FWTM 24.0° / 62.0°            Efficiency 81 %            Peak intensity 2.4 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET            C13723_MIRELLA-RZL</p>		
<p><b>CREE</b> LED</p> <p>LED XHP70            FWHM / FWTM 15.0° / 31.0°            Efficiency 89 %            Peak intensity 0.6 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET</p>		
<p><b>CREE</b> LED</p> <p>LED XHP70            FWHM / FWTM 17.0° / 40.0°            Efficiency 84 %            Peak intensity 4.3 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET            C12479_MIRELLA-DL</p>		
<p><b>CREE</b> LED</p> <p>LED XHP70            FWHM / FWTM 16.0° / 32.0°            Efficiency 83 %            Peak intensity 5.3 cd/m            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13083_PF-SOCKET            C13333_MIRELLA-CL</p>		

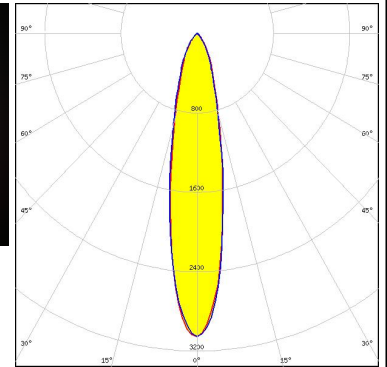
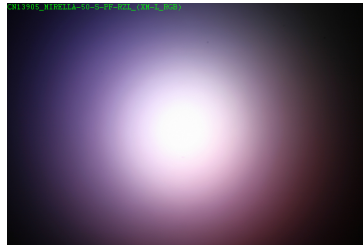
#### PHOTOMETRIC DATA (MEASURED):

##### CREE LED

LED XM-L RGB  
 FWHM / FWTM 22.0° / 55.0°  
 Efficiency 80 %  
 Peak intensity 3.1 cd/m  
 LEDs/each optic 1  
 Light colour White

Required components:

C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL

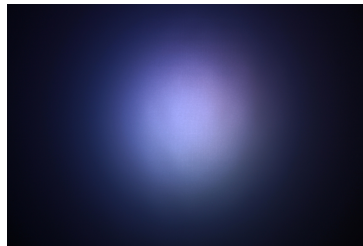


##### CREE LED

LED XQ-E HI  
 FWHM / FWTM 21.0° / 58.0°  
 Efficiency 86 %  
 Peak intensity 3.1 cd/m  
 LEDs/each optic 4  
 Light colour RGBW

Required components:

C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL

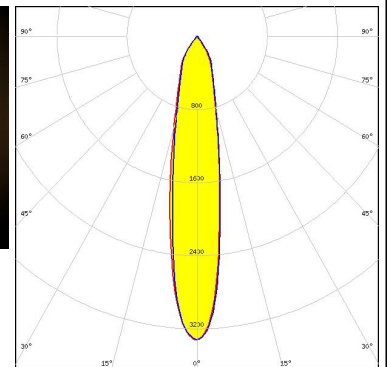
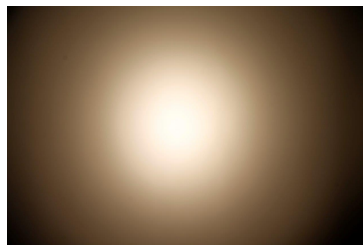


##### LUMILEDS

LED LUXEON CoB 1202/1203  
 FWHM / FWTM 19.0° / 59.0°  
 Efficiency 82 %  
 Peak intensity 3.3 cd/m  
 LEDs/each optic 1  
 Light colour White

Required components:

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

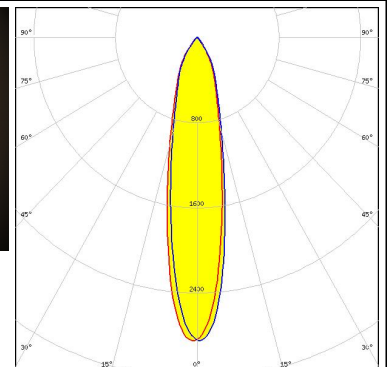
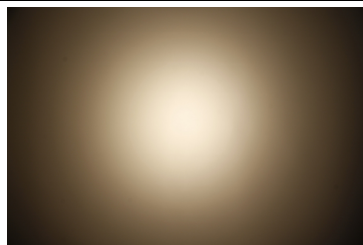


##### LUMILEDS

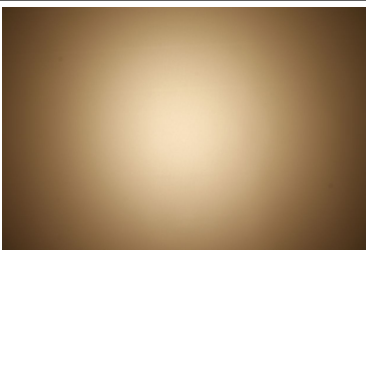
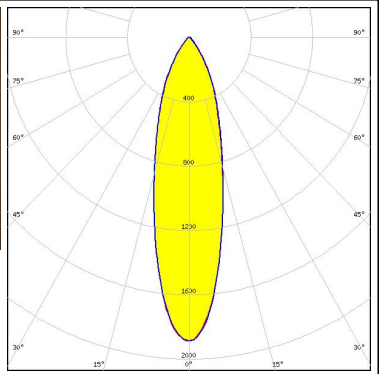
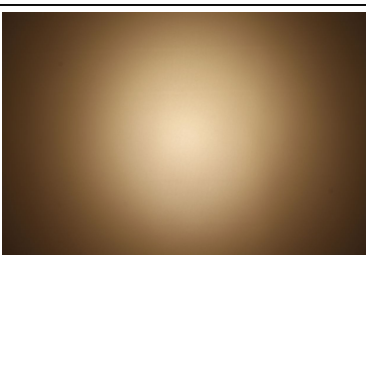
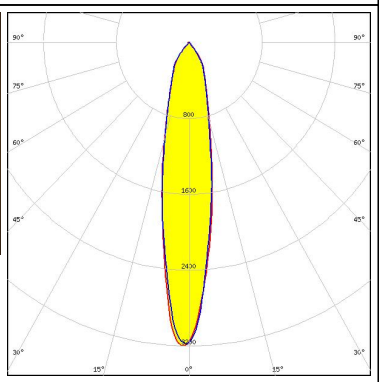
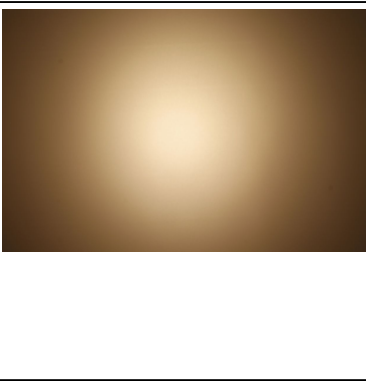
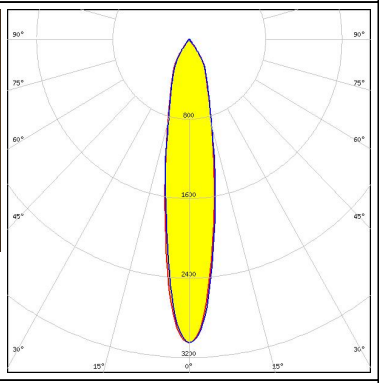
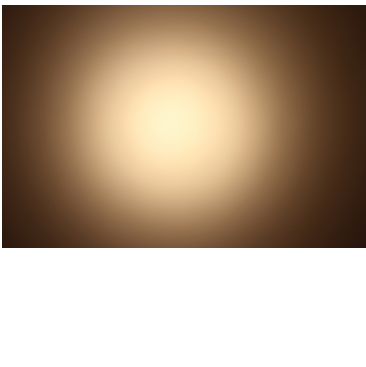
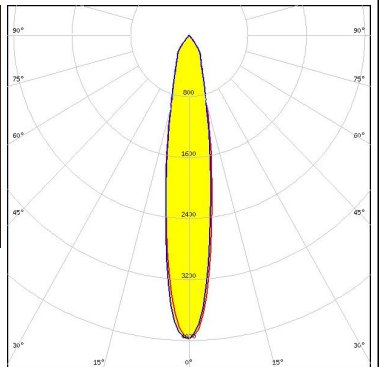
LED LUXEON CoB 1202/1203  
 FWHM / FWTM 22.0° / 61.0°  
 Efficiency 83 %  
 Peak intensity 2.9 cd/m  
 LEDs/each optic 1  
 Light colour White

Required components:


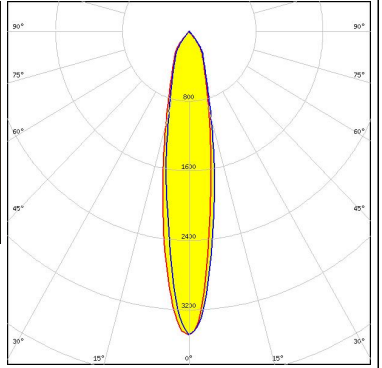

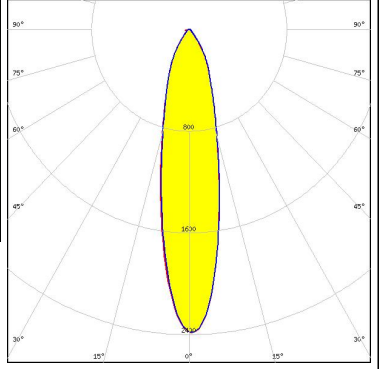


C12479\_MIRELLA-DL  
 IDEAL: 50-2100NC +50-2100MR



#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 27.0° / 67.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 1.9 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: 438 Typ L1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 20.0° / 61.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.2 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>Bender Wirth: 438 Typ L1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 20.0° / 61.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 3.1 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>C13333_MIRELLA-CL</p> <p>Bender Wirth: 438 Typ L1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 19.0° / 50.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C14037_PF-NSX-SOCKET</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 19.0° / 58.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: IDEAL: 50-2100NC +50-2100MR</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 23.0° / 63.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 452 Typ L1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 13.0° / 28.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 7.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C13333_MIRELLA-CL</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 15.0° / 36.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 5.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C12479_MIRELLA-DL</p>		

#### PHOTOMETRIC DATA (MEASURED):

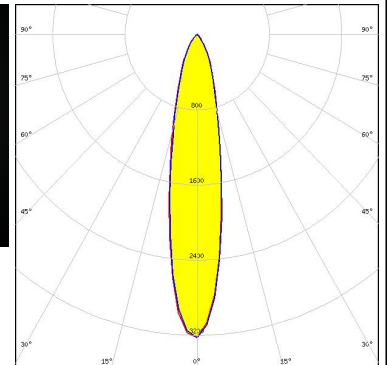
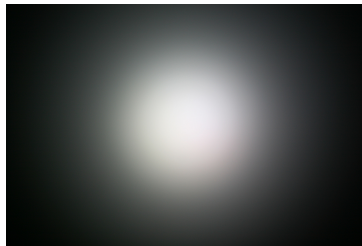
#### LUMILEDS

LED LUXEON CoB 1202s  
 FWHM / FWTM 13.0° / 30.0°  
 Efficiency 89 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



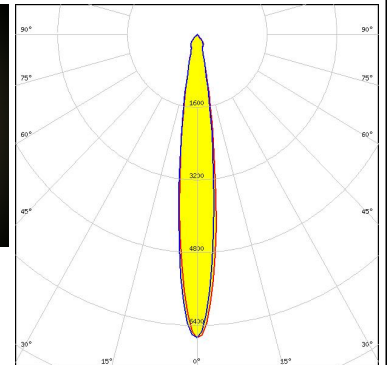
#### LUMILEDS

LED LUXEON Z  
 FWHM / FWTM 21.0° / 54.0°  
 Efficiency 78 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 4  
 Light colour RGBW  
 Required components:  
 C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



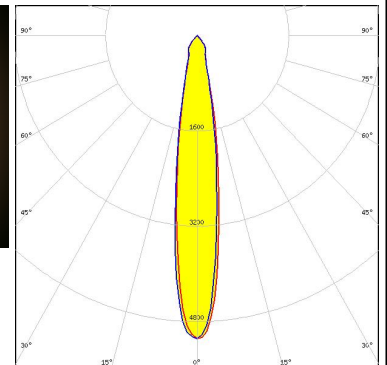
#### LUMINUS

LED CxM-6 (12x13)  
 FWHM / FWTM 14.0° / 32.0°  
 Efficiency 86 %  
 Peak intensity 6.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



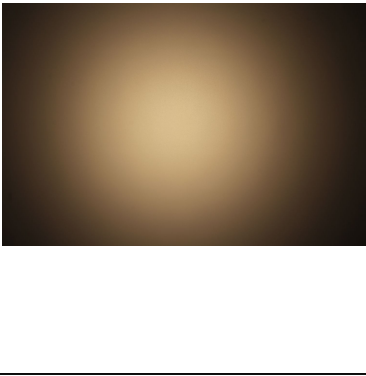
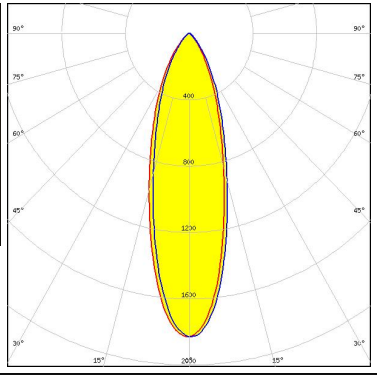

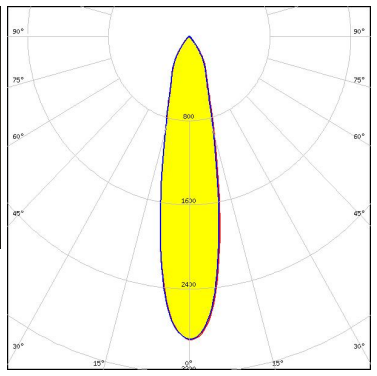

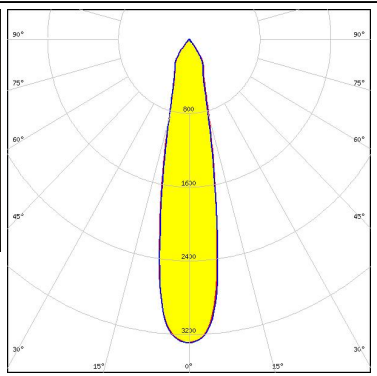

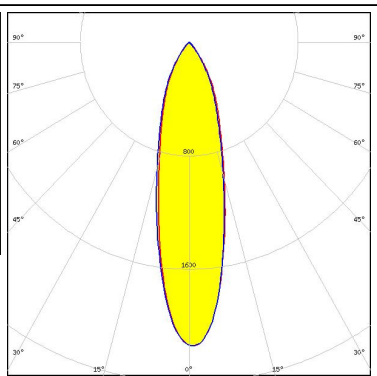
#### LUMINUS

LED CXM-7 (13x13)  
 FWHM / FWTM 17.0° / 38.0°  
 Efficiency 87 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET

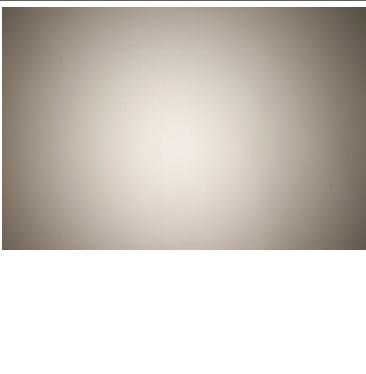
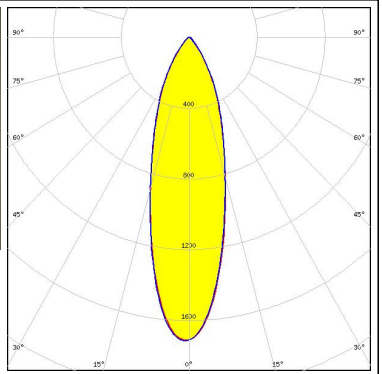

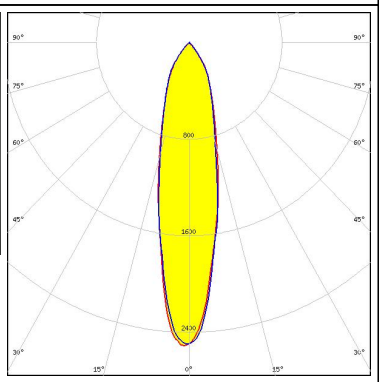
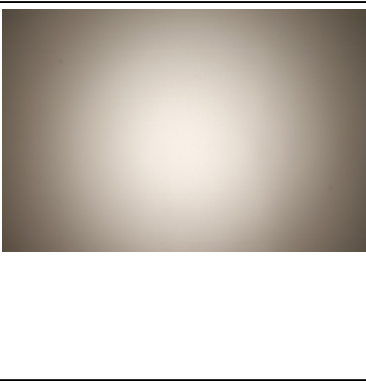
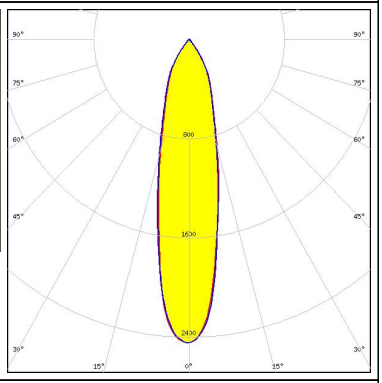

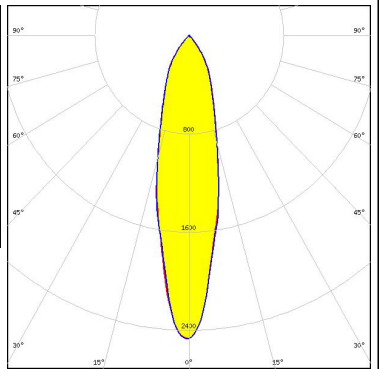





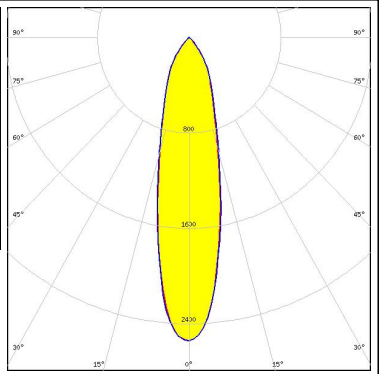

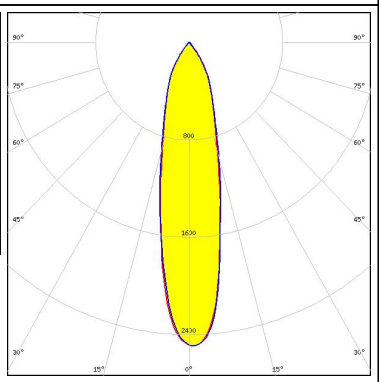

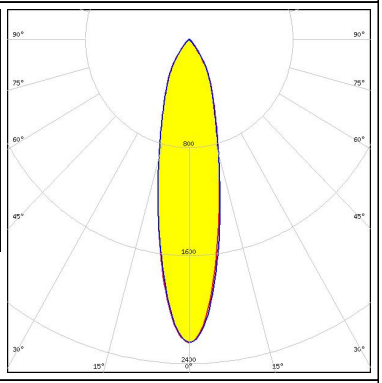

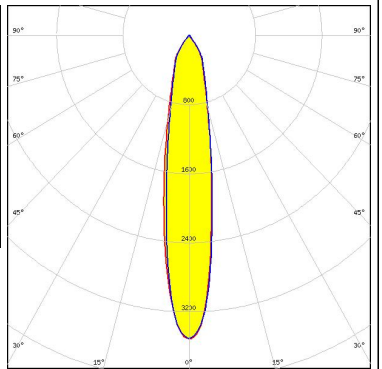
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)            FWHM / FWTM 30.0° / 70.0°            Efficiency 81 %            Peak intensity 1.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13083_PF-SOCKET            C13723_MIRELLA-RZL</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)            FWHM / FWTM 23.0° / 61.0°            Efficiency 86 %            Peak intensity 2.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13083_PF-SOCKET            C12479_MIRELLA-DL</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-9 (13.5x13.5)            FWHM / FWTM 21.0° / 58.0°            Efficiency 85 %            Peak intensity 3.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13083_PF-SOCKET            C13333_MIRELLA-CL</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)            FWHM / FWTM 26.0° / 67.0°            Efficiency 80 %            Peak intensity 2.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL            IDEAL: 50-2100NC +50-2100MR</p>		


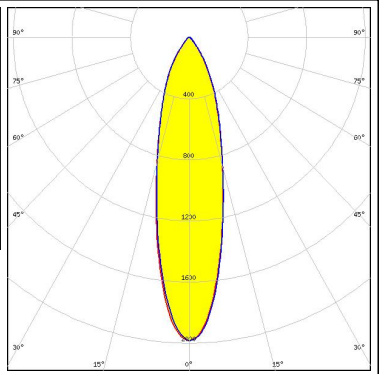

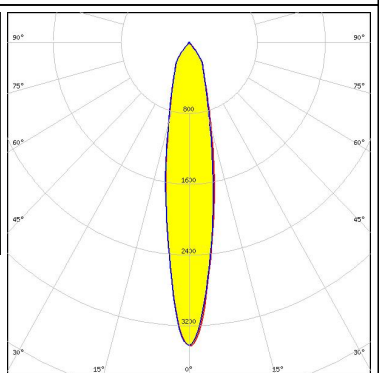

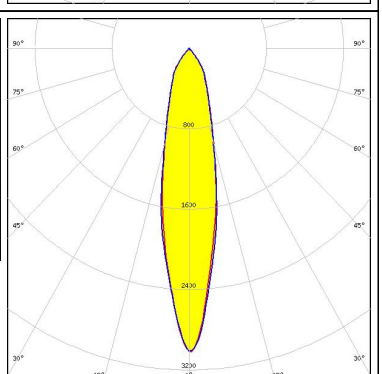
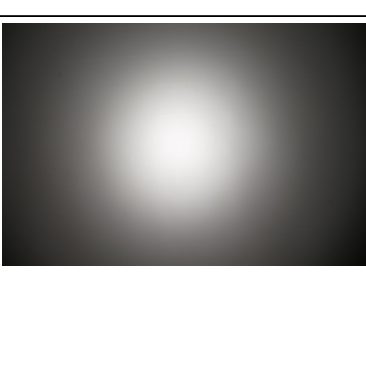
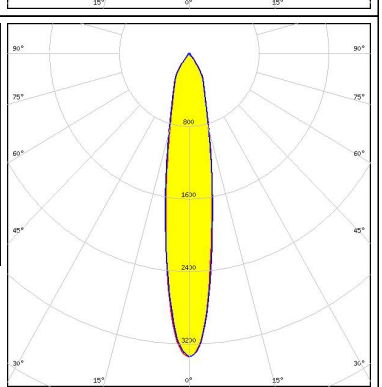
#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 30.0° / 70.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 1.7 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: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 24.0° / 68.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2.5 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>Bender Wirth: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 24.0° / 65.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 2.4 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>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 25.0° / 68.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</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 25.0° / 68.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 24.0° / 65.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 24.0° / 66.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 2.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL IDEAL: 50-2100NC +50-2100MR</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 18.0° / 56.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL 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 27.0° / 67.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 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>C12479_MIRELLA-DL</p> <p>Bender Wirth: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 19.0° / 57.0°</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>C13709_PF-SOCKET-VERO13-18</p> <p>Bender Wirth: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 22.0° / 64.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>IDEAL: 50-2100NC +50-2100MR</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 18.0° / 58.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 3.3 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>		

#### PHOTOMETRIC DATA (MEASURED):

**NICHIA**

LED	COB L-Type (LES 9)
FWHM / FWTM	19.0° / 52.0°
Efficiency	88 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C14037_PF-NSX-SOCKET




**NICHIA**

LED	NSCxL036A
FWHM / FWTM	16.0° / 38.0°
Efficiency	86 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C14037_PF-NSX-SOCKET

**OSRAM**  
Opto Semiconductors

LED	Duris S10
FWHM / FWTM	13.0° / 30.0°
Efficiency	81 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C13083_PF-SOCKET
	C13333_MIRELLA-CL




**OSRAM**  
Opto Semiconductors

LED	Duris S10
FWHM / FWTM	13.0° / 31.0°
Efficiency	87 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C13083_PF-SOCKET






#### PHOTOMETRIC DATA (MEASURED):

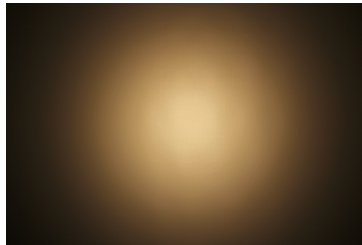
##### OSRAM

Opto Semiconductors

LED Duris S10  
 FWHM / FWTM 22.0° / 61.0°  
 Efficiency 82 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



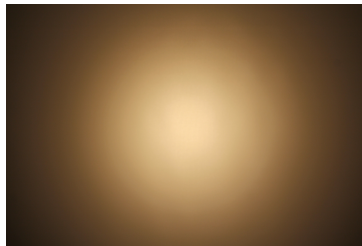
##### OSRAM

Opto Semiconductors

LED Duris S10  
 FWHM / FWTM 18.0° / 54.0°  
 Efficiency 80 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



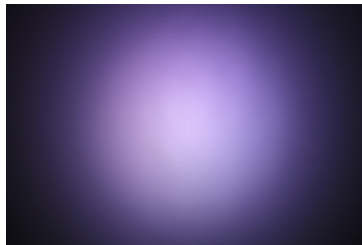
##### OSRAM

Opto Semiconductors

LED OSTAR Stage (S2WP)  
 FWHM / FWTM 21.0° / 58.0°  
 Efficiency 83 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



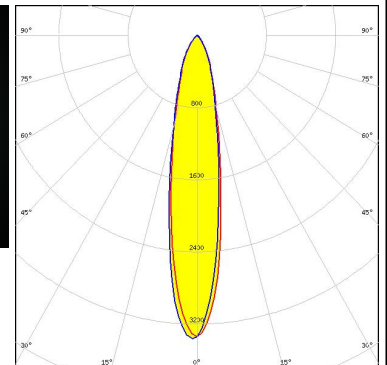
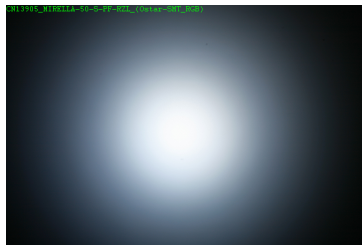
##### OSRAM

Opto Semiconductors


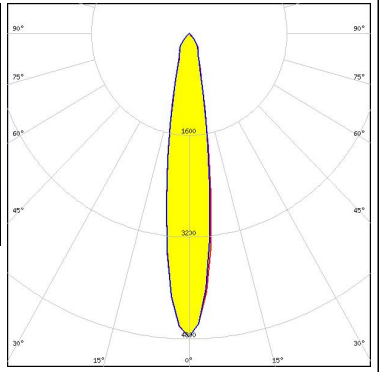
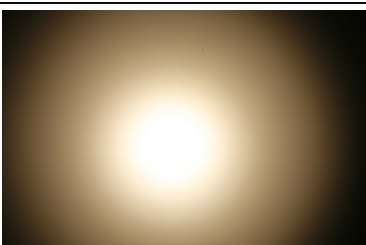
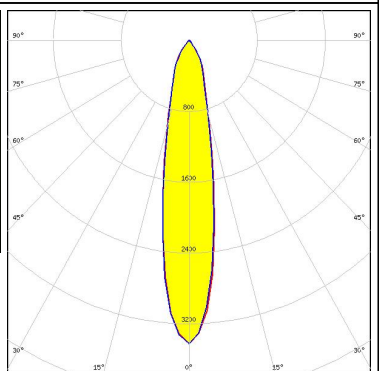
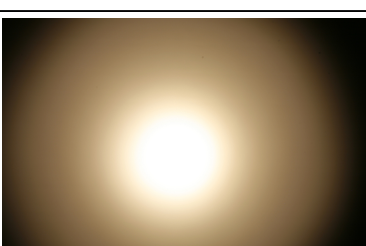
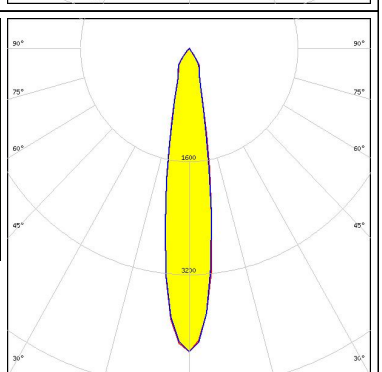
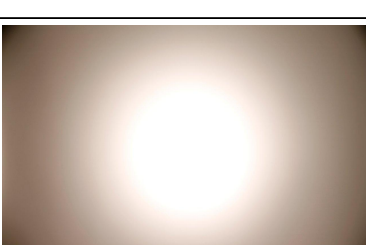
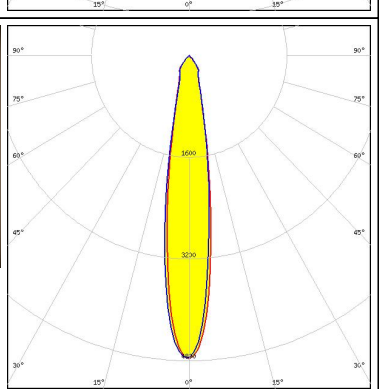
LED Ostar-SMT RGB  
 FWHM / FWTM 20.0° / 55.0°  
 Efficiency 82 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13083\_PF-SOCKET  
 C13723\_MIRELLA-RZL



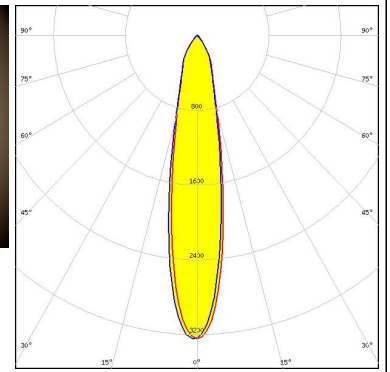
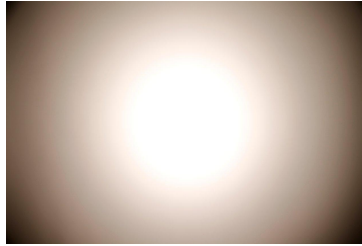
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED ZC4/6</p> <p>FWHM / FWTM 18.0° / 42.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 4.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED ZC4/6</p> <p>FWHM / FWTM 21.0° / 56.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED ZC4/6</p> <p>FWHM / FWTM 19.0° / 44.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 4.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		
<p><b>SHARP</b></p> <p>LED Mini Zenigata (GW6BM)</p> <p>FWHM / FWTM 17.0° / 41.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET</p>		

#### PHOTOMETRIC DATA (MEASURED):

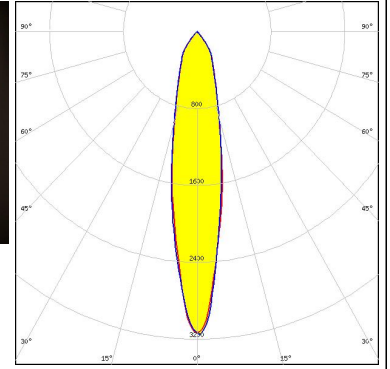
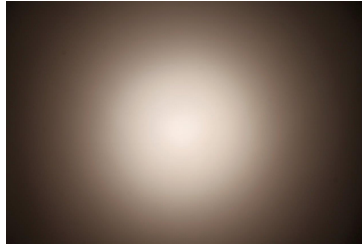
### SHARP

LED Mini Zenigata (GW6BM)  
FWHM / FWTM 20.0° / 56.0°  
Efficiency 84 %  
Peak intensity 3.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13083\_PF-SOCKET  
C12479\_MIRELLA-DL


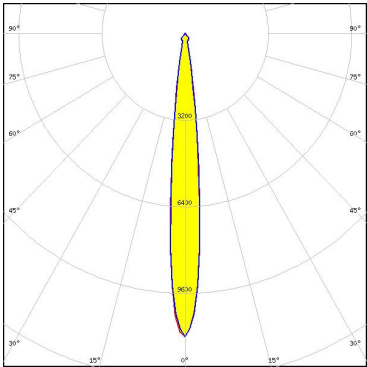





### XICATO

LED XTM - 9mm LES  
FWHM / FWTM 20.0° / 61.0°  
Efficiency 82 %  
Peak intensity 3.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14636\_XTM-PF-ADAPTER



#### PHOTOMETRIC DATA (SIMULATED):

		
LED	XHP50.2	
FWHM / FWTM	11.0° / 22.0°	
Efficiency	90 %	
Peak intensity	11.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		
LED	LUXEON CoB Compact	
FWHM / FWTM	15.0° / 36.0°	
Efficiency	84 %	
Peak intensity	4.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13761_PF-SOCKET-CXA15		
C12479_MIRELLA-DL		
		
LED	LUXEON CoB Compact	
FWHM / FWTM	23.0° / 63.0°	
Efficiency	79 %	
Peak intensity	2.4 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	LUXEON CoB Compact	
FWHM / FWTM	13.0° / 30.0°	
Efficiency	89 %	
Peak intensity	7.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13761_PF-SOCKET-CXA15		

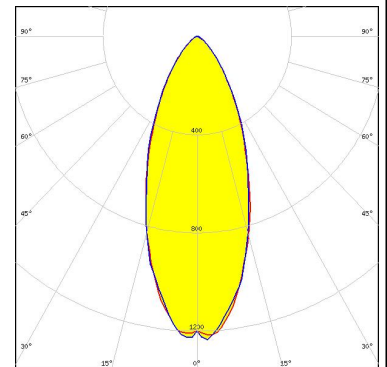
#### PHOTOMETRIC DATA (SIMULATED):

#### LUMILEDS

LED LUXEON CoB Compact  
 FWHM / FWTM 13.0° / 28.0°  
 Efficiency 84 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C13333\_MIRELLA-CL

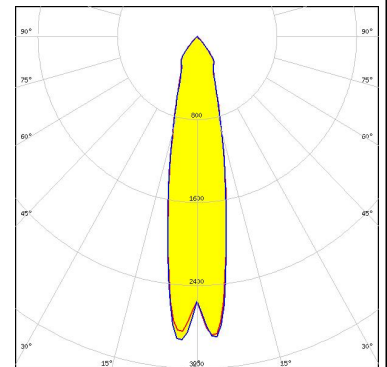
#### LUMILEDS

LED LUXEON K4  
 FWHM / FWTM 42.0° / 87.0°  
 Efficiency 84 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15  
 C12479\_MIRELLA-DL



#### LUMILEDS

LED LUXEON K4  
 FWHM / FWTM 24.0° / 72.0°  
 Efficiency 88 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13761\_PF-SOCKET-CXA15



#### LUMINUS

LED CxM-14 (19x19)  
 FWHM / FWTM 33.0° / 72.0°  
 Efficiency 69 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C12479\_MIRELLA-DL  
 Bender Wirth: 433 Typ L1



#### PHOTOMETRIC DATA (SIMULATED):



LED CxM-14 (19x19)  
FWHM / FWTM 31.0° / 70.0°  
Efficiency 72 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 433 Typ L1



LED CxM-14 (19x19)  
FWHM / FWTM 29.0° / 72.0°  
Efficiency 76 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 20.0° / 61.0°  
Efficiency 80 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 434 Typ L1



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 21.0° / 63.0°  
Efficiency 84 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 434 Typ L1

#### PHOTOMETRIC DATA (SIMULATED):

#### LUMINUS

LED CxM-9 (13.5x13.5)  
FWHM / FWTM 27.0° / 67.0°  
Efficiency 77 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL  
Bender Wirth: 434 Typ L1

#### NICHIA

LED COB S-Type (LES 7)  
FWHM / FWTM 23.0° / 63.0°  
Efficiency 79 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C12479\_MIRELLA-DL  
Bender Wirth: 452 Typ L1

#### NICHIA

LED COB S-Type (LES 7)  
FWHM / FWTM 15.0° / 41.0°  
Efficiency 83 %  
Peak intensity 4.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
C13333\_MIRELLA-CL  
Bender Wirth: 452 Typ L1

#### NICHIA

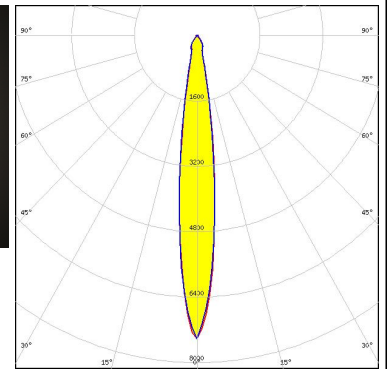
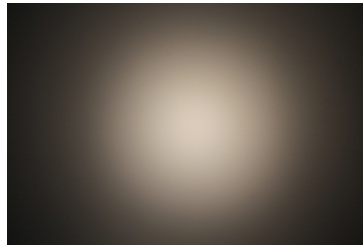
LED COB S-Type (LES 7)  
FWHM / FWTM 19.0° / 49.0°  
Efficiency 87 %  
Peak intensity 3.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13709\_PF-SOCKET-VERO13-18  
Bender Wirth: 452 Typ L1

#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

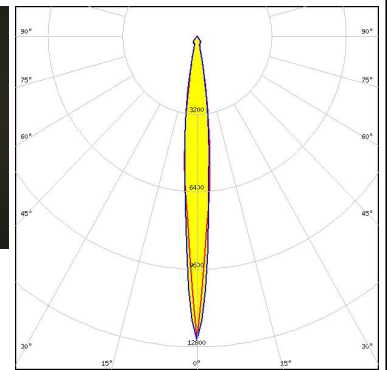
LED Duris S8  
 FWHM / FWTM 14.0° / 29.0°  
 Efficiency 90 %  
 Peak intensity 7.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



##### OSRAM

Opto Semiconductors

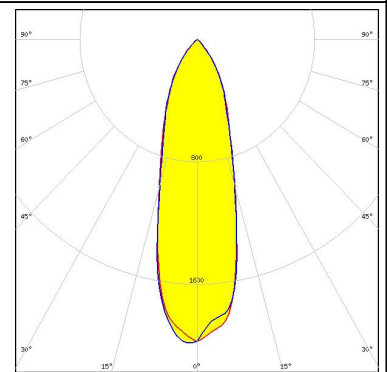
LED Duris S8  
 FWHM / FWTM 9.5° / 24.0°  
 Efficiency 94 %  
 Peak intensity 12.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



##### OSRAM

Opto Semiconductors

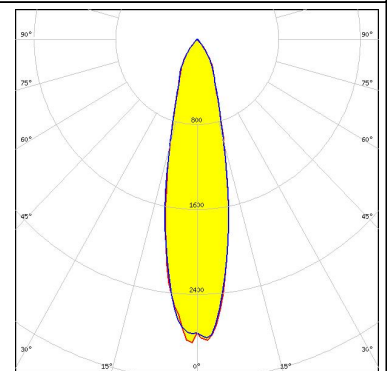
LED Soleriq S15  
 FWHM / FWTM 28.0° / 74.0°  
 Efficiency 85 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 433 Typ L1



##### OSRAM

Opto Semiconductors

LED Soleriq S9  
 FWHM / FWTM 24.0° / 61.0°  
 Efficiency 87 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C13333\_MIRELLA-CL

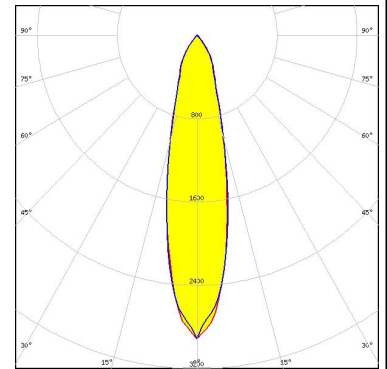


#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

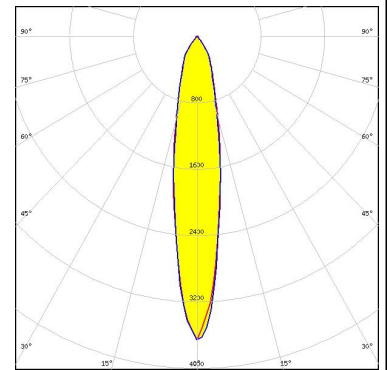
LED Soleriq S9  
 FWHM / FWTM 24.0° / 61.0°  
 Efficiency 86 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET  
 C12479\_MIRELLA-DL



#### OSRAM

Opto Semiconductors

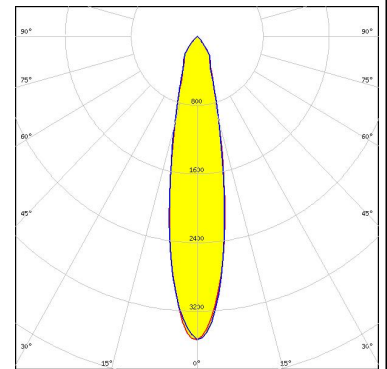
LED Soleriq S9  
 FWHM / FWTM 19.0° / 56.0°  
 Efficiency 87 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



#### OSRAM

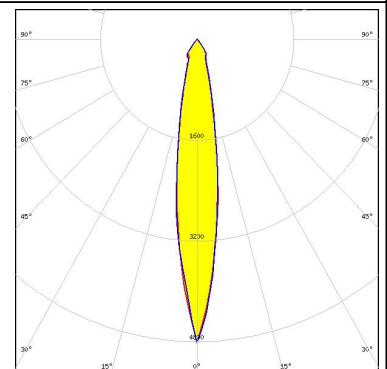
Opto Semiconductors

LED Soleriq S9  
 FWHM / FWTM 21.0° / 54.0°  
 Efficiency 91 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13083\_PF-SOCKET



#### SAMSUNG

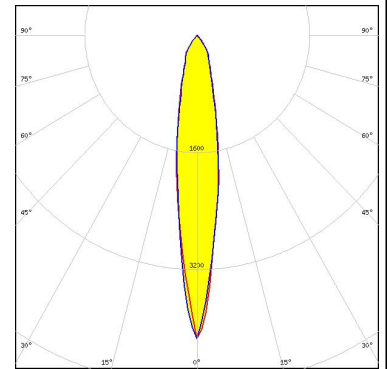
LED LC010C  
 FWHM / FWTM 16.0° / 41.0°  
 Efficiency 87 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 479 Typ L1



#### PHOTOMETRIC DATA (SIMULATED):

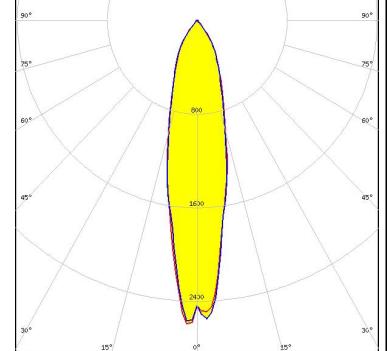
### SAMSUNG

LED LC020C  
 FWHM / FWTM 16.0° / 49.0°  
 Efficiency 86 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 479 Typ L1



### SAMSUNG

LED LC040C  
 FWHM / FWTM 23.0° / 66.0°  
 Efficiency 84 %  
 Peak intensity 2.6 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 20.0° / 61.0°  
 Efficiency 80 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 C13333\_MIRELLA-CL  
 Bender Wirth: 434 Typ L1



SEOUL SEMICONDUCTOR

LED ZC4/6  
 FWHM / FWTM 21.0° / 63.0°  
 Efficiency 84 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13709\_PF-SOCKET-VERO13-18  
 Bender Wirth: 434 Typ L1



## PHOTOMETRIC DATA (SIMULATED):

	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	27.0° / 67.0°
Efficiency	77 %
Peak intensity	2 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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[C11996\\_LENA-LENS](#) [C12083\\_BROOKE-SCR-M](#) [C12095\\_MINNIE-M](#) [C12097\\_MINNIE-WWW](#) [C12154\\_LENA-M](#) [C12469\\_LISA2-R-](#)  
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