

## ANGELA-S

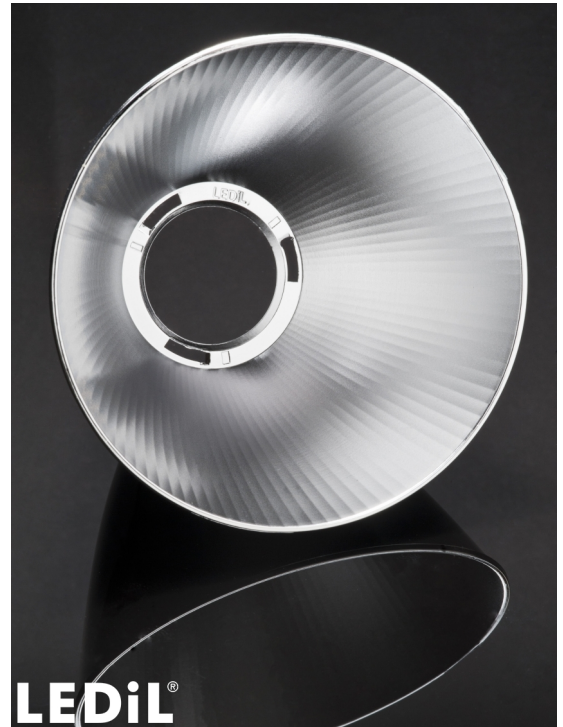
~10° spot beam

### TECHNICAL SPECIFICATIONS:

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

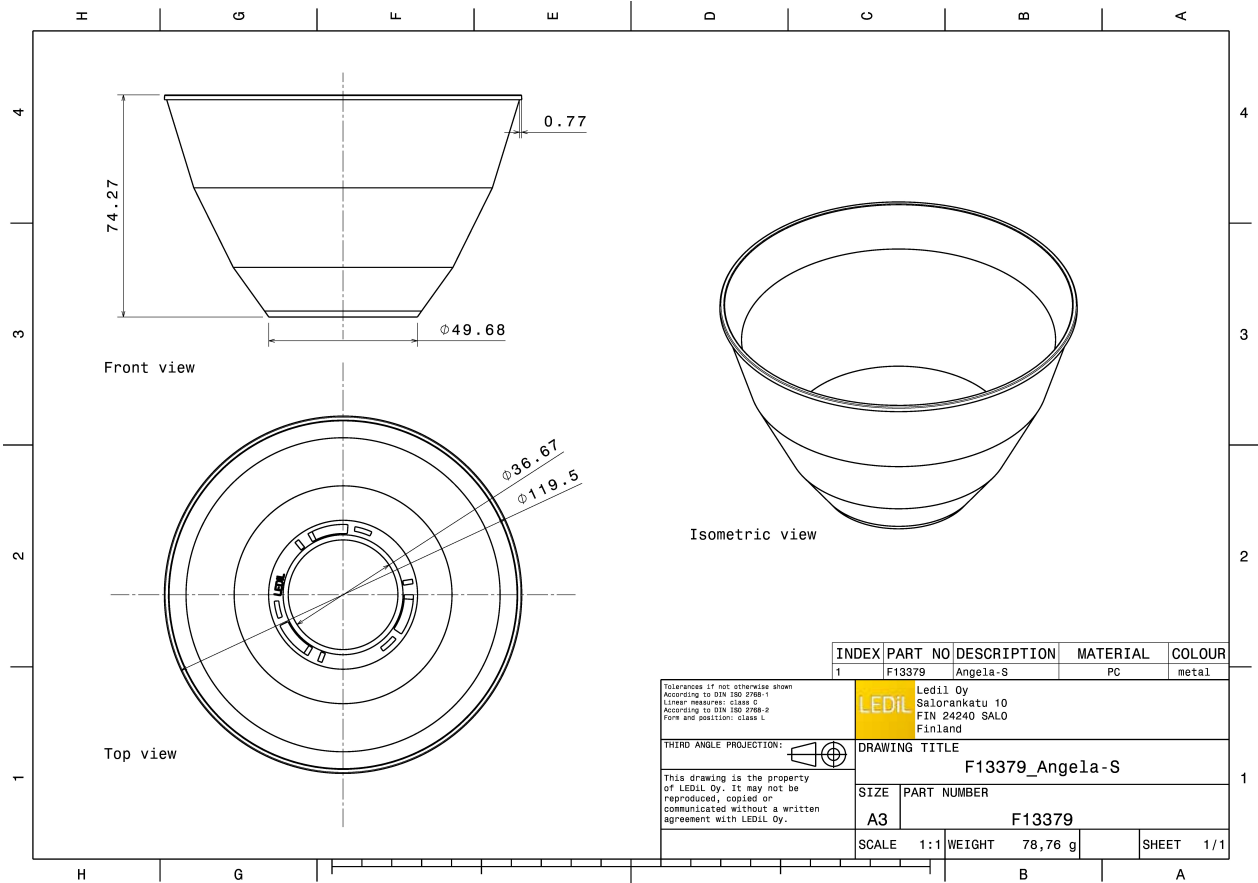
### MATERIAL SPECIFICATIONS:

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


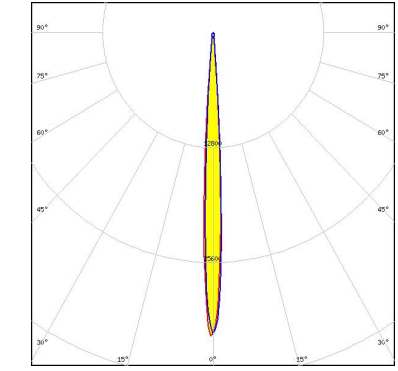

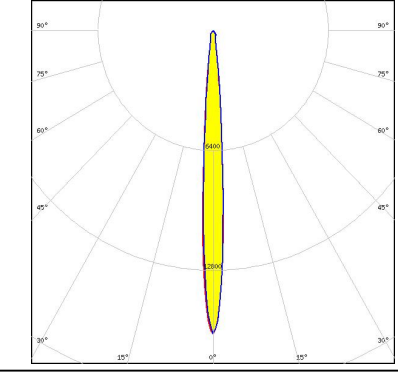

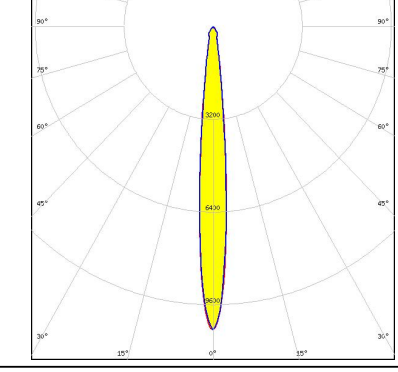

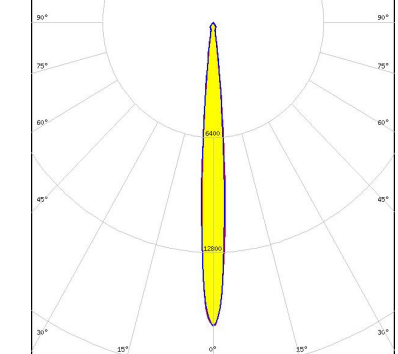


### ORDERING INFORMATION:



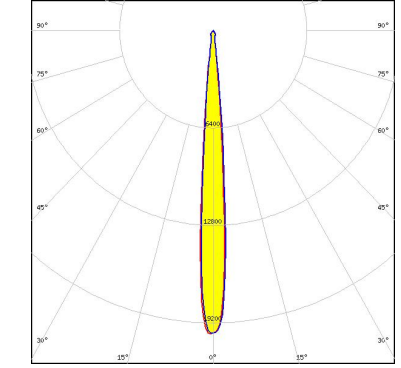

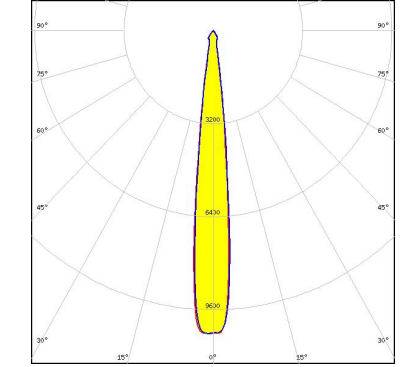

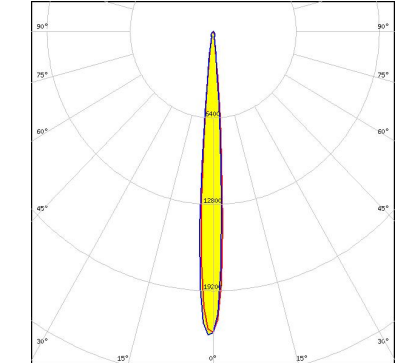
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13379_ANGELA-S » Box size: 398 x 298 x 265 mm	200	100	50	9.3




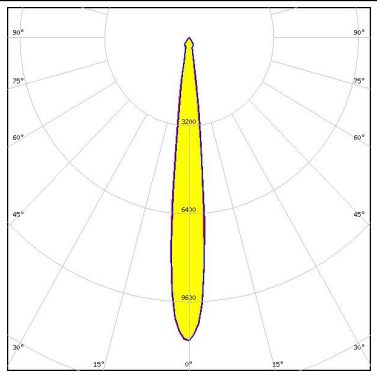

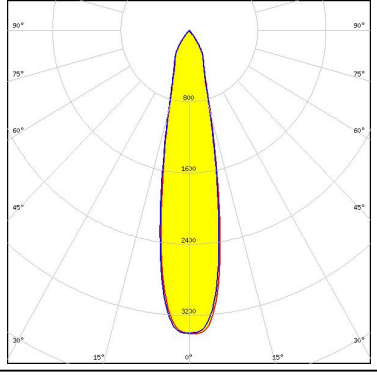
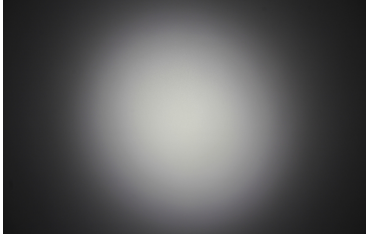
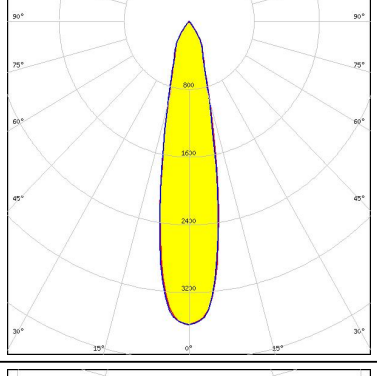

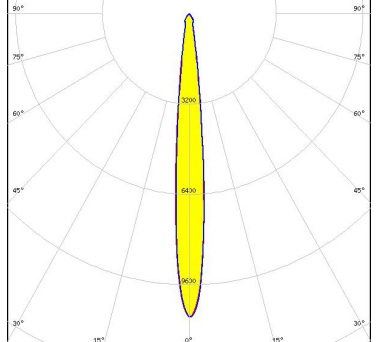
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen7            FWHM 6.0°            Efficiency 89 %            Peak intensity 33.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 434 Typ L1</p>		
<p>bridgelux.</p> <p>LED V10 Gen7            FWHM 8.0°            Efficiency 84 %            Peak intensity 16.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13658_CLAMP-VERO13-18            F13671_ANGE-RZ-LENS            Bender Wirth: 434 Typ L1</p>		
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 10.0°            Efficiency 86 %            Peak intensity 10.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 9.0°            Efficiency 90 %            Peak intensity 17 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		


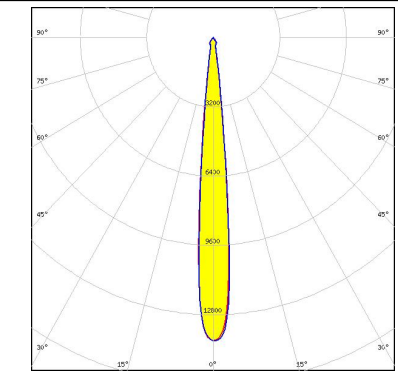

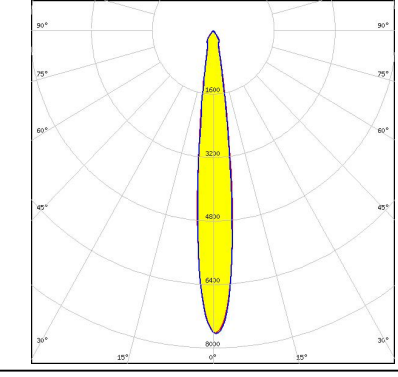

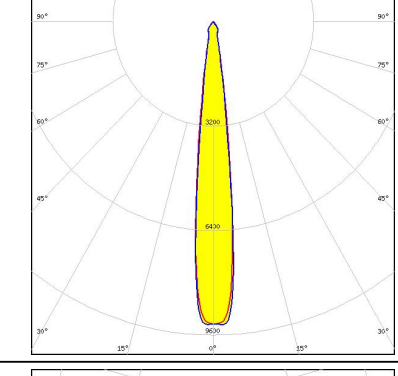

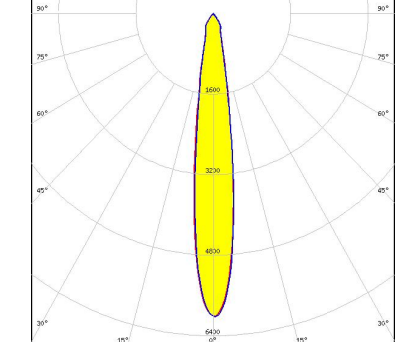
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V15 Gen6</p> <p>FWHM 10.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 15.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 456 Typ L2</p>		
<p>bridgelux.</p> <p>LED Vero SE 13</p> <p>FWHM 9.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 19.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED Vero SE 18</p> <p>FWHM 12.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 10.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 8.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 22.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13658_CLAMP-VERO13-18</p>		


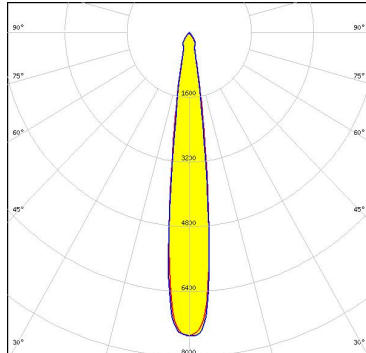

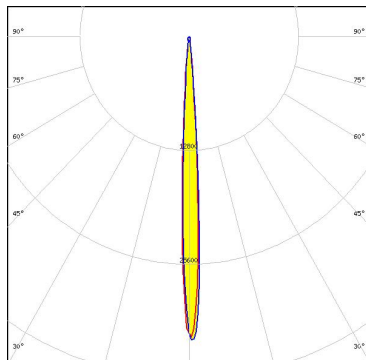

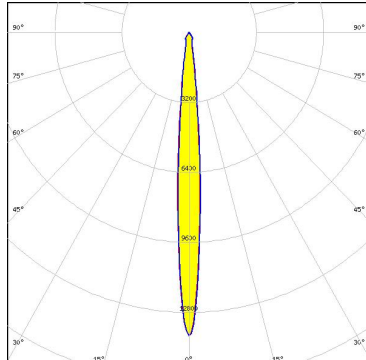

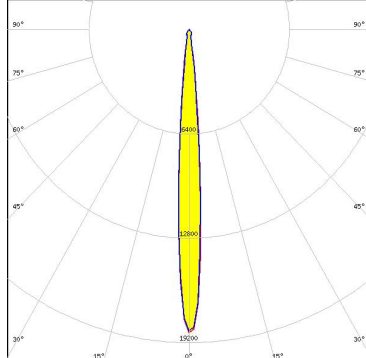
#### PHOTOMETRIC DATA (MEASURED):

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

#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED Vesta TW 15mm DP</p> <p>FWHM 11.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 14 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 482 Typ L2</p>		
<p>bridgelux.</p> <p>LED Vesta TW 18mm (31W) DP</p> <p>FWHM 13.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 7.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS Bender Wirth: 483 Typ L3</p>		
<p>bridgelux.</p> <p>LED Vesta TW 18mm (31W) DP</p> <p>FWHM 13.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 9.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C13584_CLAMP-VERO29 Bender Wirth: 483 Typ L3</p>		
<p>bridgelux.</p> <p>LED Vesta TW 22mm DP</p> <p>FWHM 15.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS Bender Wirth: 494 Typ L3</p>		

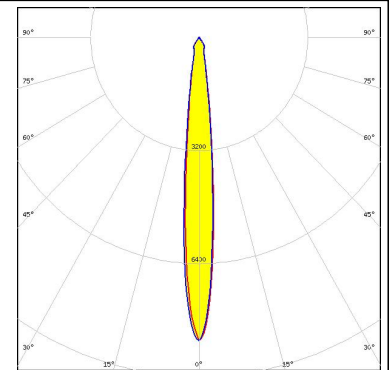
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux</p> <p>LED Vesta TW 22mm DP</p> <p>FWHM 14.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 7.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C13584_CLAMP-VERO29 Bender Wirth: 494 Typ L3</p>		
<p><b>CITIZEN</b></p> <p>LED CLL02x/CLU02x (LES10)</p> <p>FWHM 6.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 34.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x</p> <p>FWHM 9.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 14 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: IDEAL: 50-2103CT + 50-2100AN</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x</p> <p>FWHM 9.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 18.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

#### PHOTOMETRIC DATA (MEASURED):

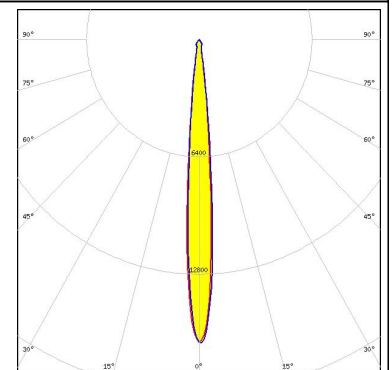
#### CITIZEN

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



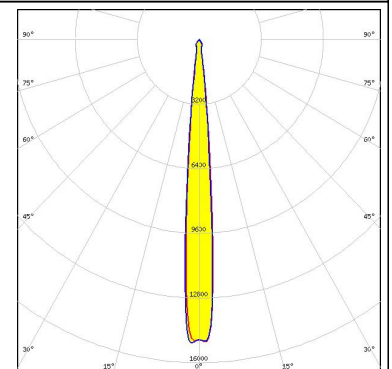
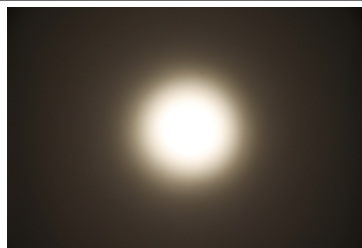
#### CITIZEN

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



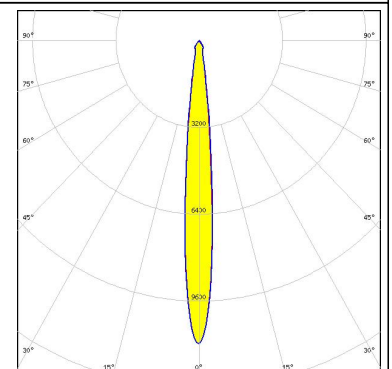
#### CITIZEN

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



#### CITIZEN

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

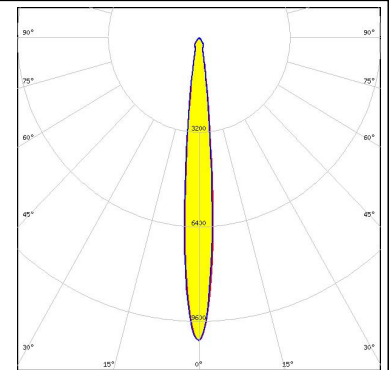




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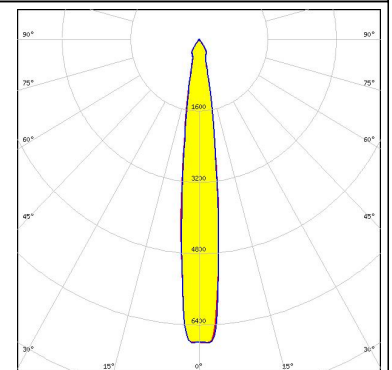
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 11.0°  
 Efficiency 85 %  
 Peak intensity 10 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



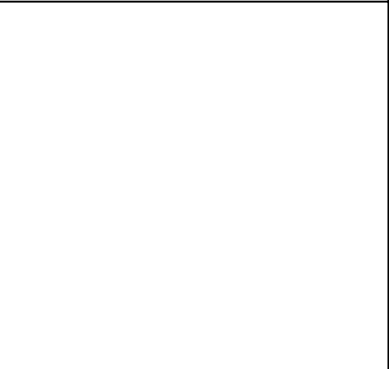
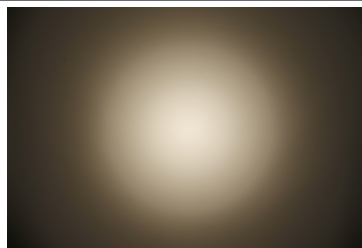
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 14.0°  
 Efficiency 89 %  
 Peak intensity 6.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



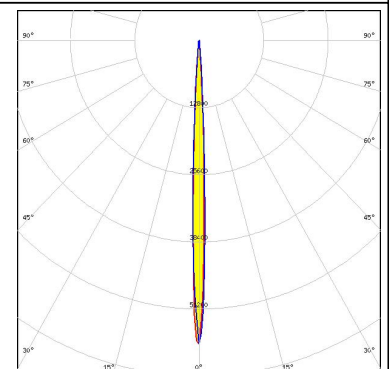
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 16.0°  
 Efficiency 85 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



#### CITIZEN

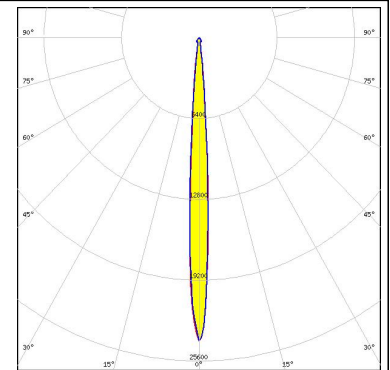
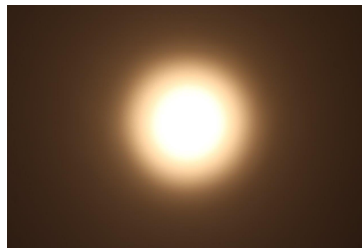
LED CLU700/701/702  
 FWHM 5.0°  
 Efficiency 88 %  
 Peak intensity 57.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

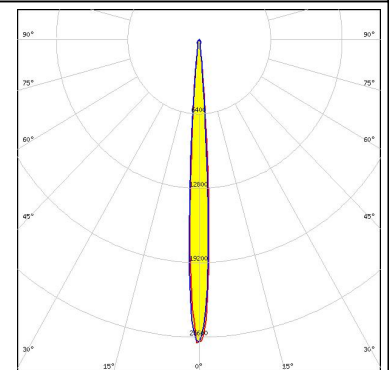
#### CITIZEN

LED CLU720/721  
 FWHM 7.0°  
 Efficiency 94 %  
 Peak intensity 24 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



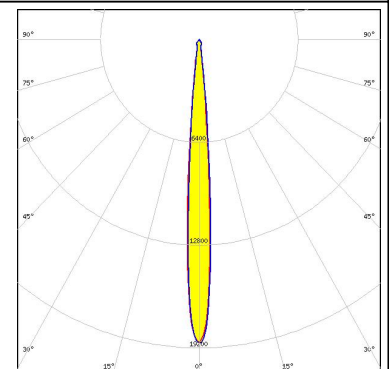
#### CITIZEN

LED CLU720/721  
 FWHM 7.0°  
 Efficiency 88 %  
 Peak intensity 26.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 433 Typ L1



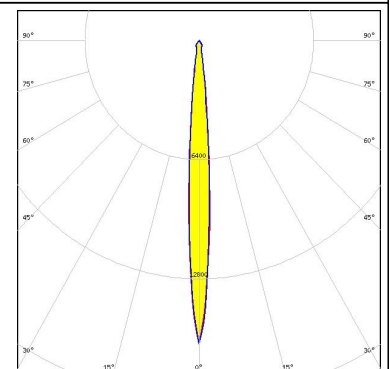
#### CITIZEN

LED CLU730/731  
 FWHM 8.5°  
 Efficiency 91 %  
 Peak intensity 18.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 471 Typ L3



#### CITIZEN

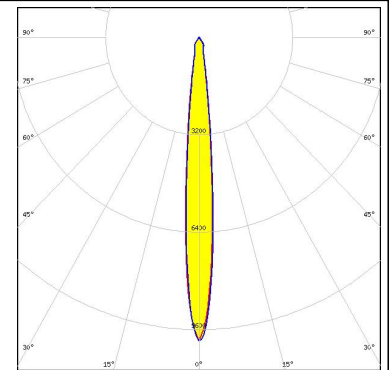
LED CLU730/731  
 FWHM 8.0°  
 Efficiency 88 %  
 Peak intensity 16.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



#### PHOTOMETRIC DATA (MEASURED):

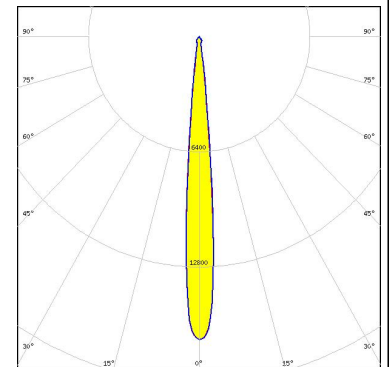
#### CITIZEN

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



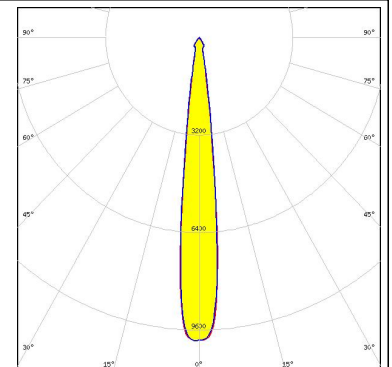
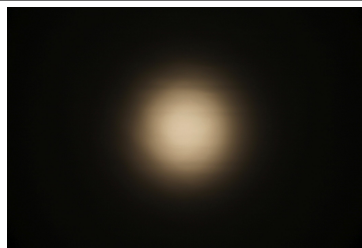
#### CREE

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



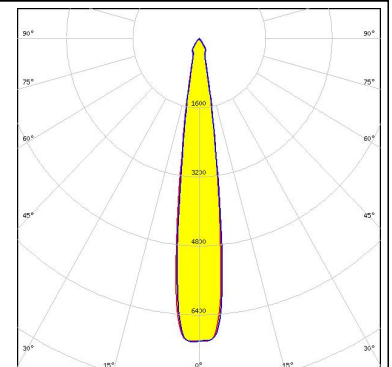
#### CREE

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



#### CREE

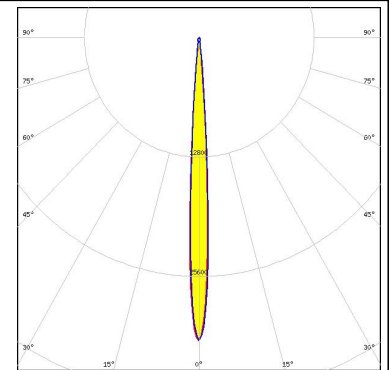
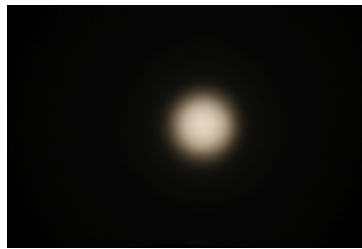
LED CMA3090  
 FWHM 15.0°  
 Efficiency 92 %  
 Peak intensity 7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



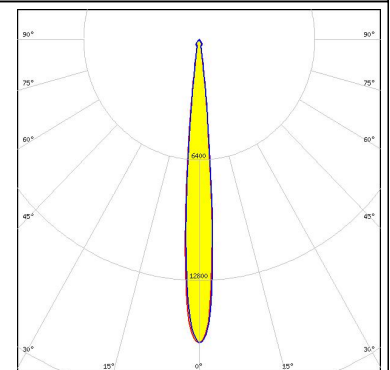
#### PHOTOMETRIC DATA (MEASURED):



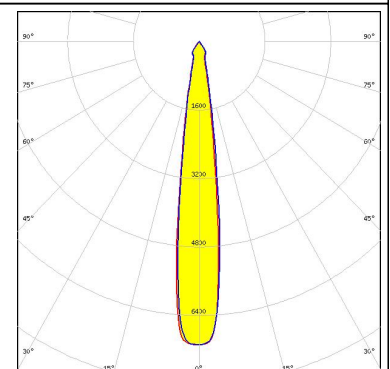
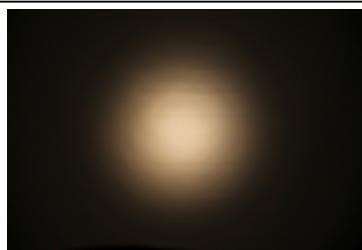
LED CMT14xx  
 FWHM 7.0°  
 Efficiency 93 %  
 Peak intensity 33 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



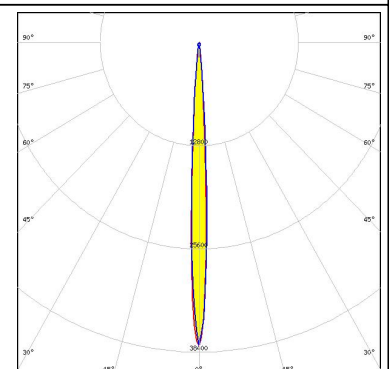
LED CMT19xx  
 FWHM 10.0°  
 Efficiency 92 %  
 Peak intensity 16.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 477 Typ L1



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



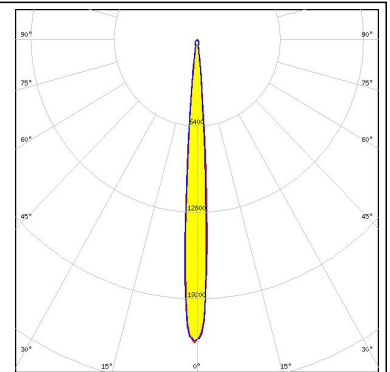
LED CXA/B 15xx  
 FWHM 5.8°  
 Efficiency 92 %  
 Peak intensity 37.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 441 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

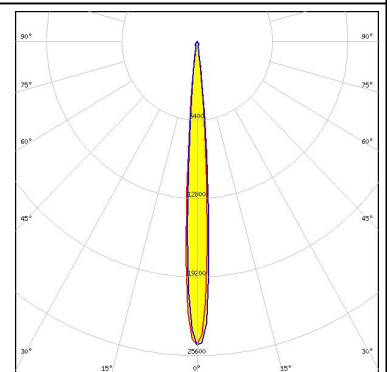
**CREE** 

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



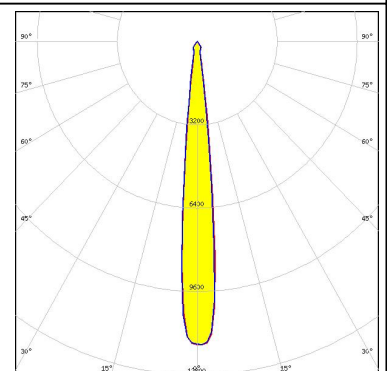
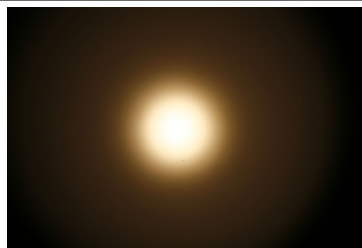
**CREE** 

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



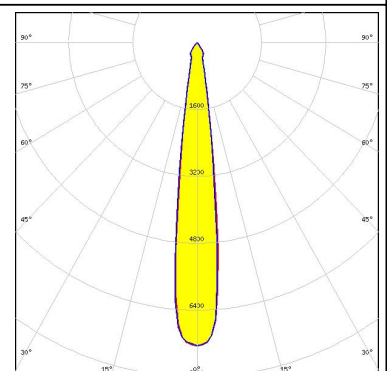
**CREE** 

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



**CREE** 

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



#### PHOTOMETRIC DATA (MEASURED):

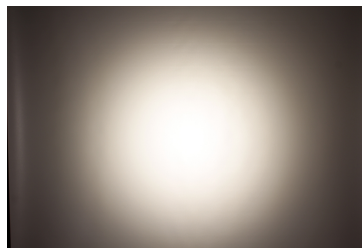
#### EVERLIGHT

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



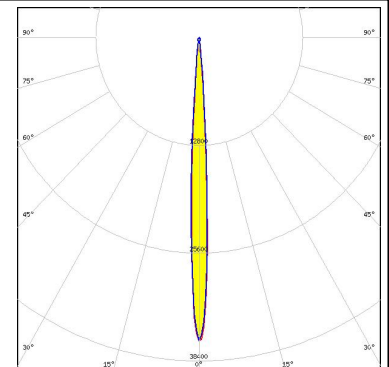
#### EVERLIGHT

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



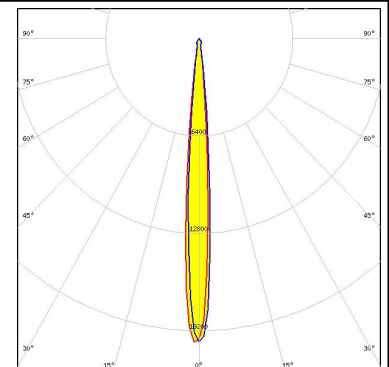
#### LUMILEDS

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



#### LUMILEDS

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

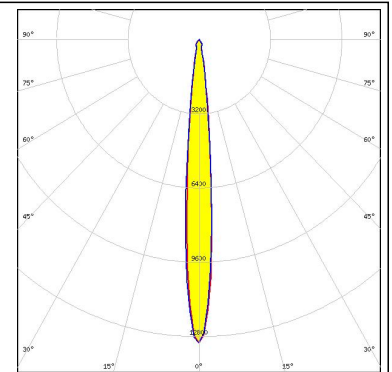


#### PHOTOMETRIC DATA (MEASURED):

#### LUMILEDS

LED LUXEON CoB 1204/1205  
 FWHM 10.0°  
 Efficiency 85 %  
 Peak intensity 13.1 cd/lm  
 LEDs/each optic 1  
 Light colour White

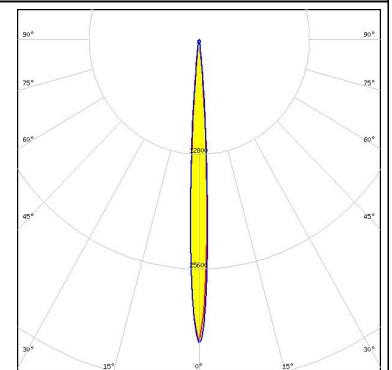
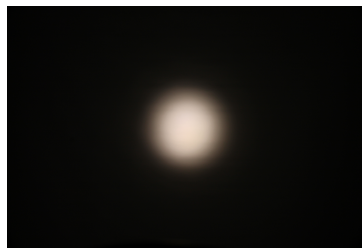
Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### LUMILEDS

LED LUXEON CoB 1204HD  
 FWHM 6.4°  
 Efficiency 93 %  
 Peak intensity 34 cd/lm  
 LEDs/each optic 1  
 Light colour White

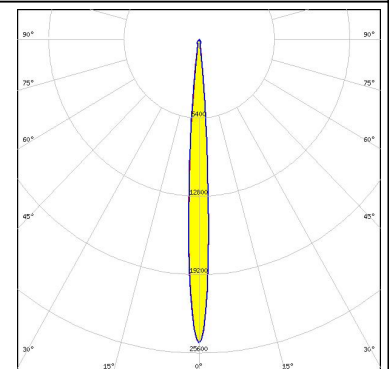
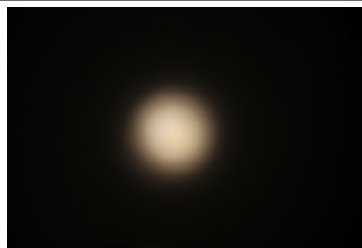
Required components:  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### LUMILEDS

LED LUXEON CoB 1205HD  
 FWHM 7.5°  
 Efficiency 93 %  
 Peak intensity 24.8 cd/lm  
 LEDs/each optic 1  
 Light colour White

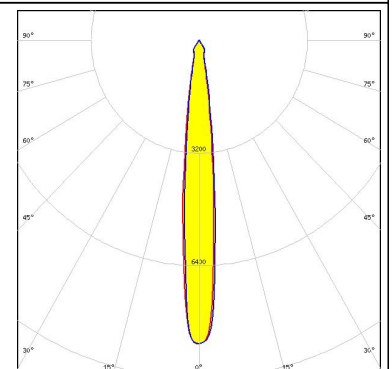
Required components:  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1




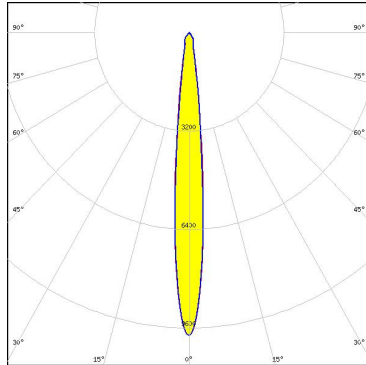
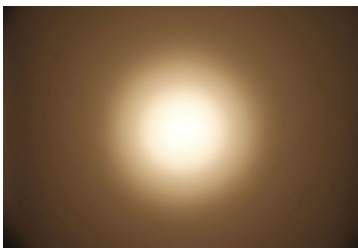
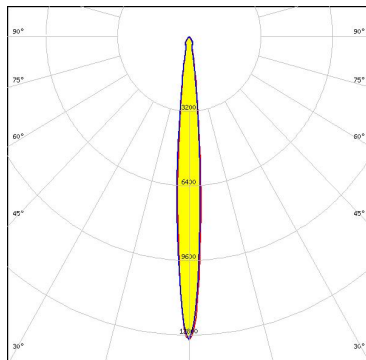

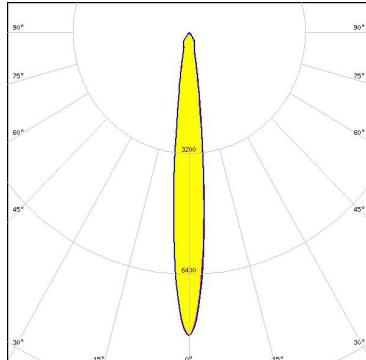

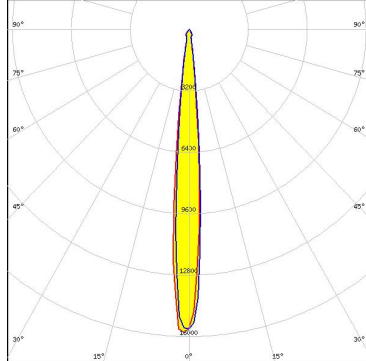
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM 12.0°  
 Efficiency 88 %  
 Peak intensity 8.6 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



#### PHOTOMETRIC DATA (MEASURED):

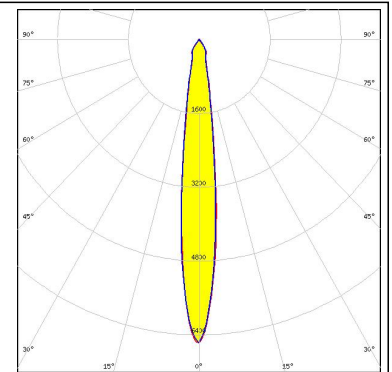
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 11.0°            Efficiency 85 %            Peak intensity 9.9 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            F13671_ANGE-RZ-LENS            TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 9.0°            Efficiency 89 %            Peak intensity 13 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            IDEAL: 50-2100SH + 50-2100AN</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 12.0°            Efficiency 84 %            Peak intensity 8 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            F13671_ANGE-RZ-LENS            IDEAL: 50-2100SH + 50-2100AN</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 10.0°            Efficiency 94 %            Peak intensity 15.9 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		



#### PHOTOMETRIC DATA (MEASURED):

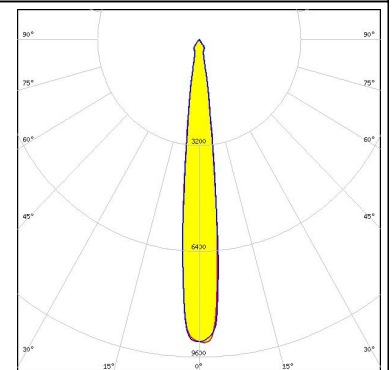
#### LUMILEDS

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



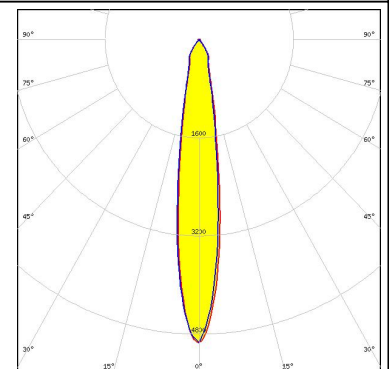
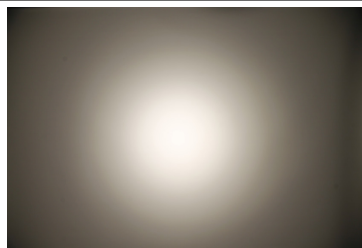
#### LUMILEDS

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



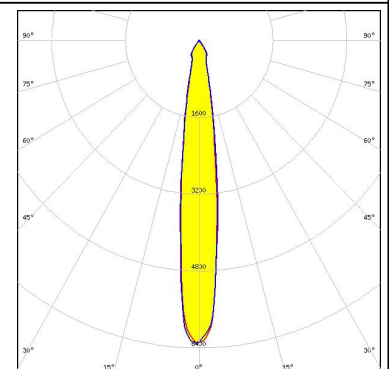
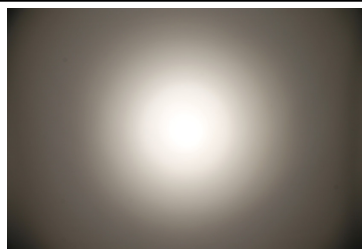
#### LUMILEDS

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



#### LUMILEDS

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



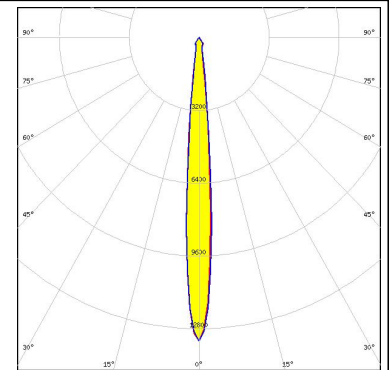
#### PHOTOMETRIC DATA (MEASURED):

#### LUMILEDS

LED LUXEON K12  
 FWHM 9.0°  
 Efficiency 90 %  
 Peak intensity 13 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

F13671\_ANGE-RZ-LENS  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1

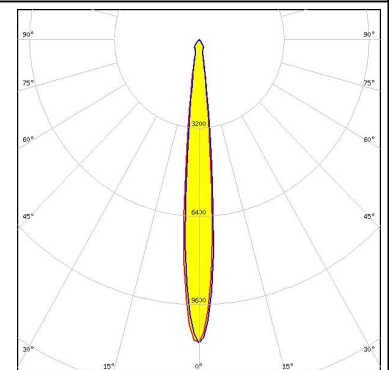


#### LUMILEDS

LED LUXEON K16  
 FWHM 10.0°  
 Efficiency 90 %  
 Peak intensity 11 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

F13671\_ANGE-RZ-LENS  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1

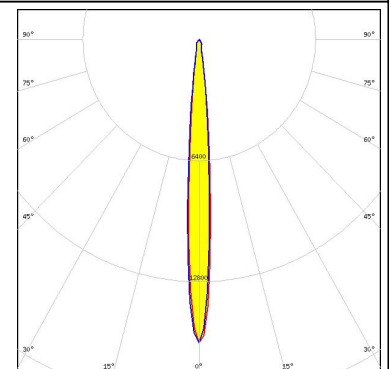


#### LUMILEDS

LED LUXEON S2000  
 FWHM 9.0°  
 Efficiency 87 %  
 Peak intensity 16 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13395\_CLAMP-S2000  
 F13671\_ANGE-RZ-LENS

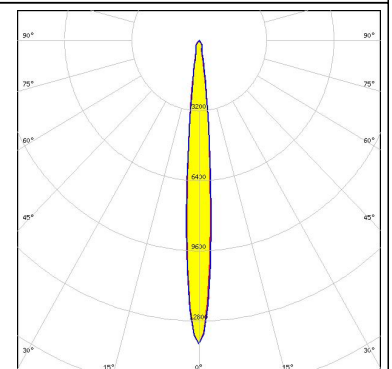


#### LUMILEDS

LED LUXEON S3000  
 FWHM 10.0°  
 Efficiency 87 %  
 Peak intensity 13.8 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

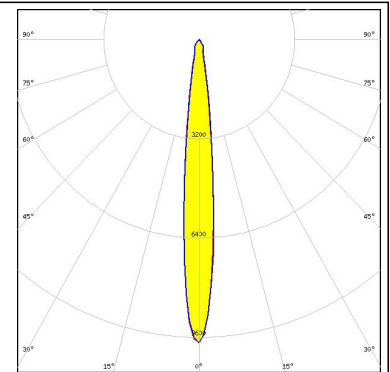
C13397\_CLAMP-S3000  
 F13671\_ANGE-RZ-LENS



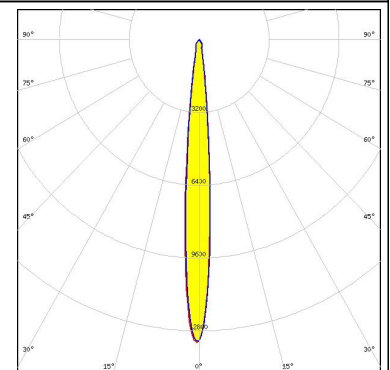
#### PHOTOMETRIC DATA (MEASURED):



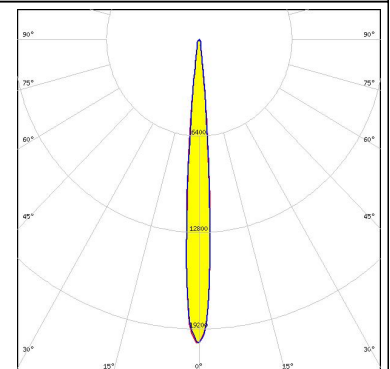
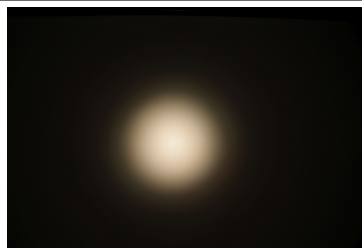
LED LUXEON S5000  
 FWHM 12.0°  
 Efficiency 86 %  
 Peak intensity 9.8 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13399\_CLAMP-S5000  
 F13671\_ANGE-RZ-LENS



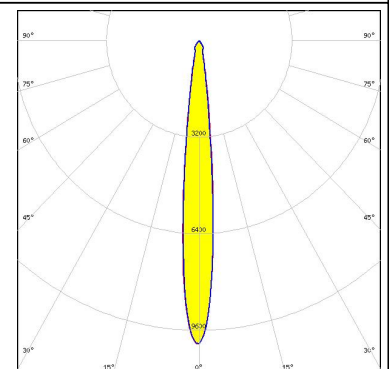
LED CDM-14 (Dim-To-Warm)  
 FWHM 9.5°  
 Efficiency 87 %  
 Peak intensity 13.4 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2




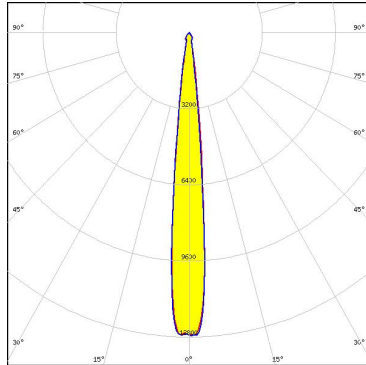

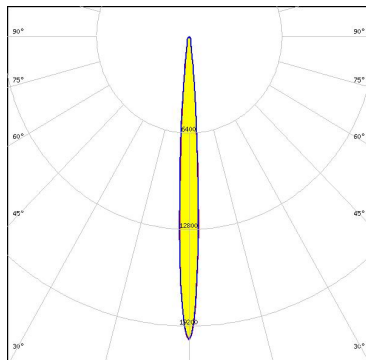
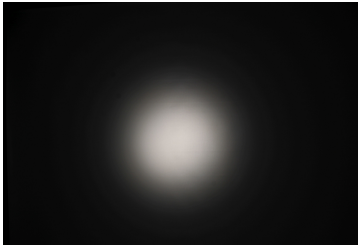
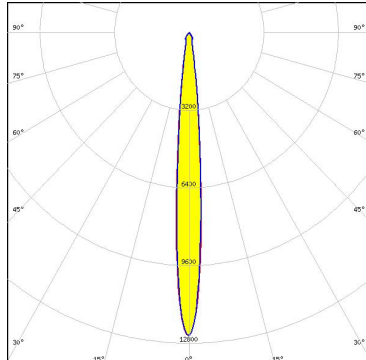

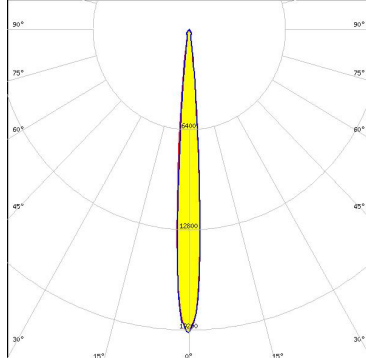
LED CDM-14 (Dim-To-Warm)  
 FWHM 8.6°  
 Efficiency 92 %  
 Peak intensity 20.3 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



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



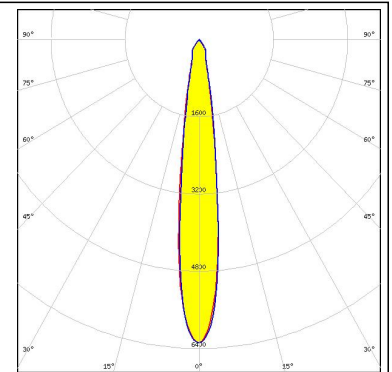
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CDM-18 (Dim-To-Warm)            FWHM 11.0°            Efficiency 92 %            Peak intensity 12.8 cd/Im            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 491 Typ L2</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-9 (Dim-To-Warm)            FWHM 7.2°            Efficiency 85 %            Peak intensity 20.1 cd/Im            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13658_CLAMP-VERO13-18            F13671_ANGE-RZ-LENS            Bender Wirth: 490 Typ L1</p>		
<p><b>LUMINUS</b></p> <p>LED CTM-14 (Tunable White)            FWHM 9.0°            Efficiency 85 %            Peak intensity 12.5 cd/Im            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13584_CLAMP-VERO29            F13671_ANGE-RZ-LENS            Bender Wirth: 442 Typ L3</p>		
<p><b>LUMINUS</b></p> <p>LED CTM-14 (Tunable White)            FWHM 8.0°            Efficiency 90 %            Peak intensity 19.6 cd/Im            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13584_CLAMP-VERO29            Bender Wirth: 442 Typ L3</p>		

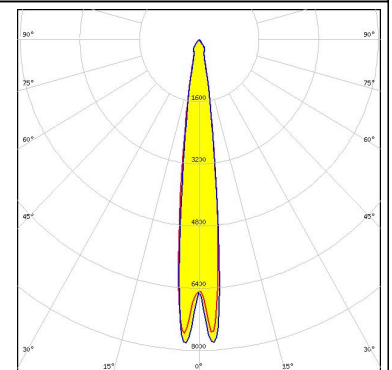
#### PHOTOMETRIC DATA (MEASURED):



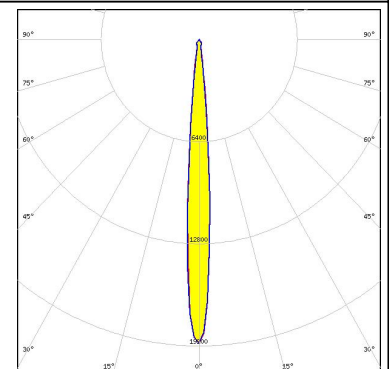
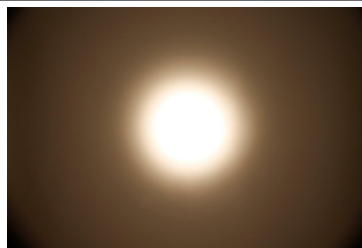
LED CTM-22 (Tunable White)  
 FWHM 15.0°  
 Efficiency 85 %  
 Peak intensity 6.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 494 Typ L3



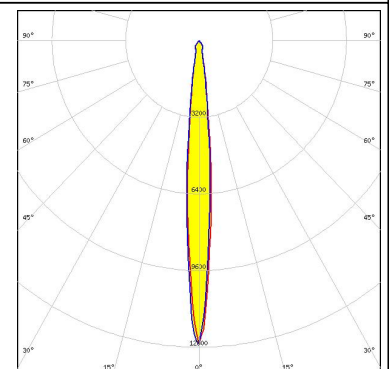
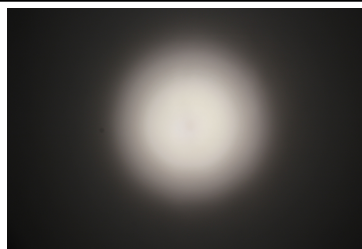
LED CTM-22 (Tunable White)  
 FWHM 14.0°  
 Efficiency 90 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



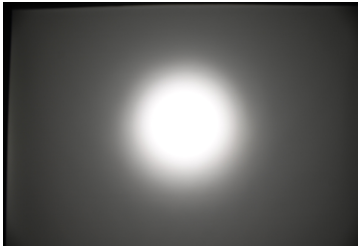
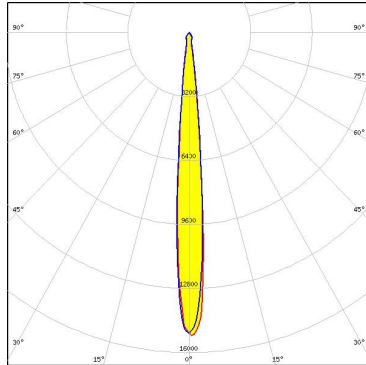

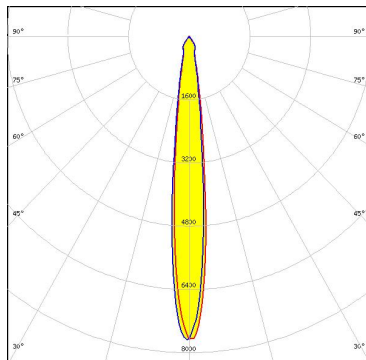

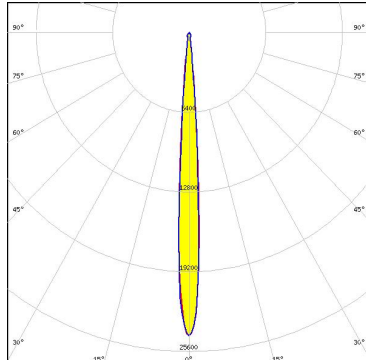

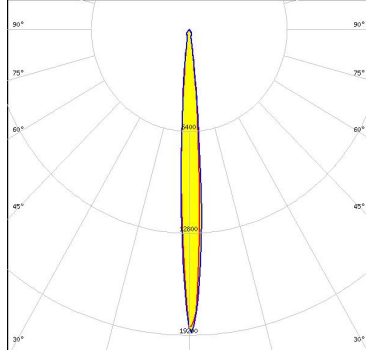
LED CxM-14 (19x19)  
 FWHM 9.0°  
 Efficiency 94 %  
 Peak intensity 19 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



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



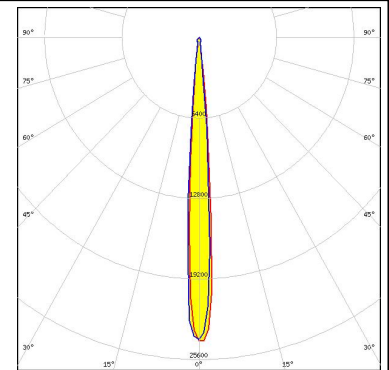
#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED COB J-Type            FWHM 9.0°            Efficiency 89 %            Peak intensity 15.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 463 Typ L2</p>		
<p><b>NICHIA</b></p> <p>LED COB J-Type            FWHM 12.0°            Efficiency 86 %            Peak intensity 7.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            IDEAL: 50-2103NC + 50-2100AN</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)            FWHM 7.0°            Efficiency 89 %            Peak intensity 24.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)            FWHM 8.0°            Efficiency 88 %            Peak intensity 19 cd/lm            LEDs/each optic 1            Light colour White            Required components:            IDEAL: 50-2100NC + 50-2100AN</p>		

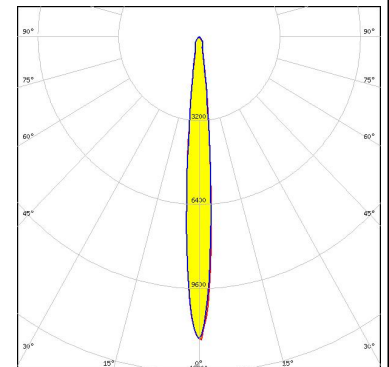
#### PHOTOMETRIC DATA (MEASURED):



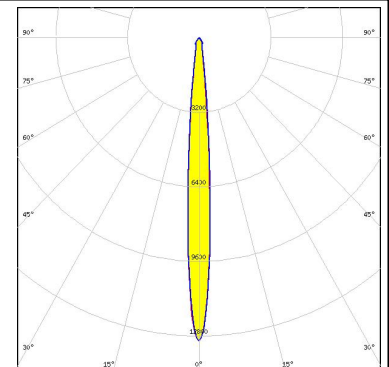
LED COB L-Type (LES 11)  
 FWHM 8.0°  
 Efficiency 94 %  
 Peak intensity 24 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Molex: 180580-0005



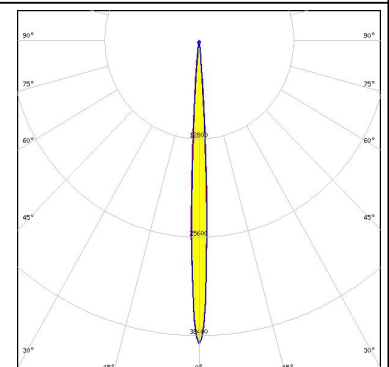
LED COB L-Type (LES 11)  
 FWHM 9.0°  
 Efficiency 84 %  
 Peak intensity 12 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2100NC + 50-2100AN



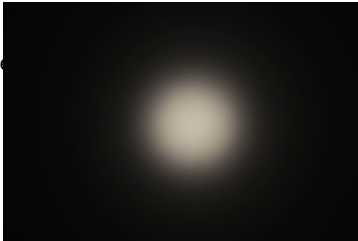
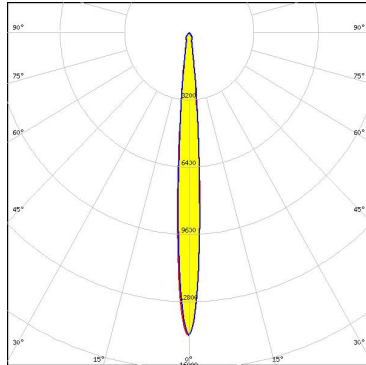

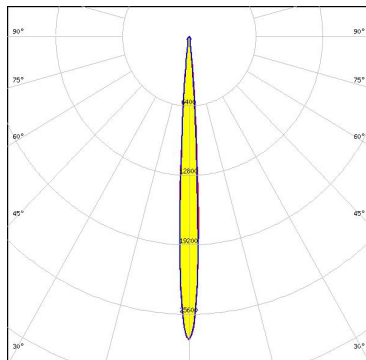

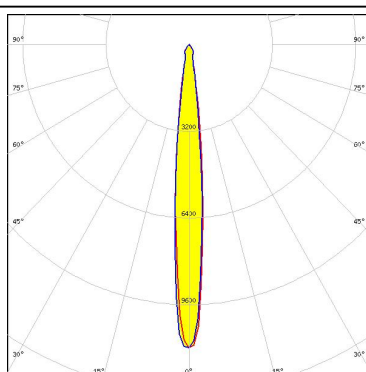

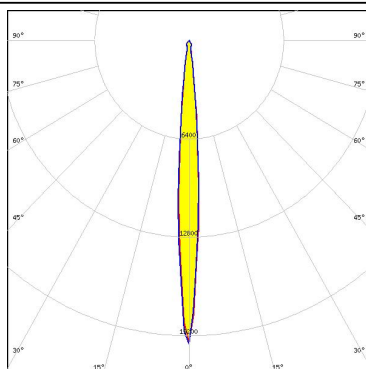
LED COB L-Type (LES 11)  
 FWHM 9.0°  
 Efficiency 84 %  
 Peak intensity 13 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



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



#### PHOTOMETRIC DATA (MEASURED):

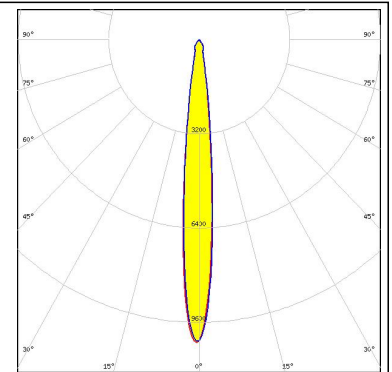
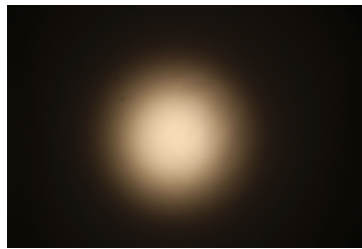
<p><b>NICHIA</b></p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM 9.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 14.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:            C13658_CLAMP-VERO13-18            F13671_ANGE-RZ-LENS            Bender Wirth: 498 Typ L2</p>		
<p><b>NICHIA</b></p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM 7.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 28 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 498 Typ L2</p>		
<p><b>OSRAM</b></p> <p>LED PrevaLED Core AC (LEP-2000)</p> <p>FWHM 11.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 11.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>OSRAM</b></p> <p>LED PrevaLED Core AC (LEP-800)</p> <p>FWHM 8.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 19.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		



#### PHOTOMETRIC DATA (MEASURED):

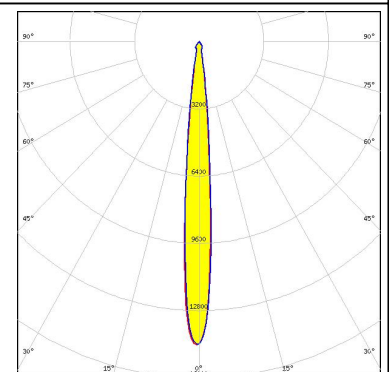
#### OSRAM

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



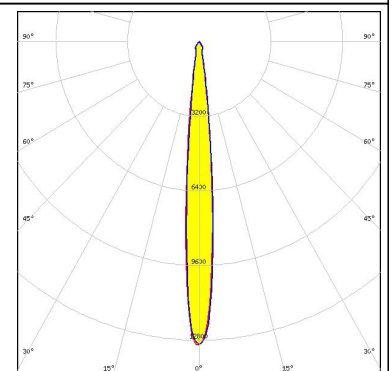
#### OSRAM

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



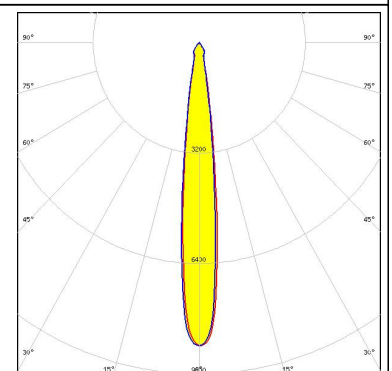
#### OSRAM

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



#### OSRAM

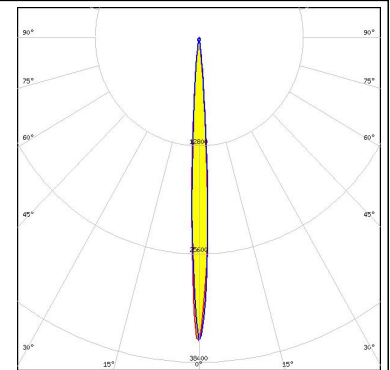
LED PrevaLED Core Z3 LES23  
 FWHM 13.0°  
 Efficiency 93 %  
 Peak intensity 8.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

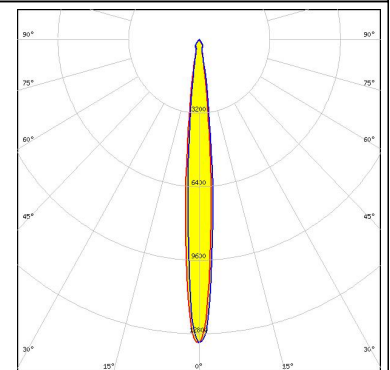
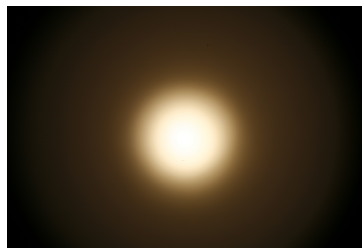
#### OSRAM

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



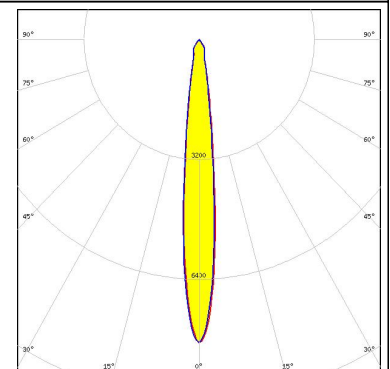
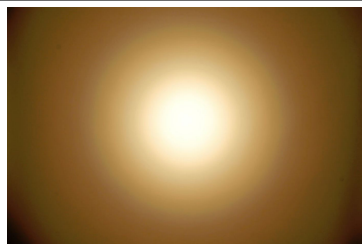
#### OSRAM

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



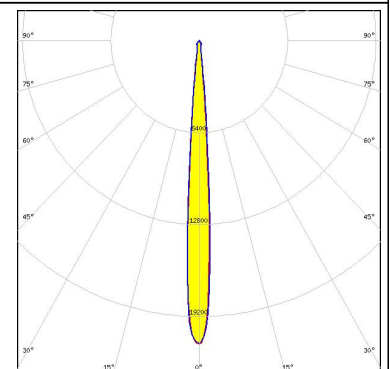
#### OSRAM

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



#### OSRAM

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



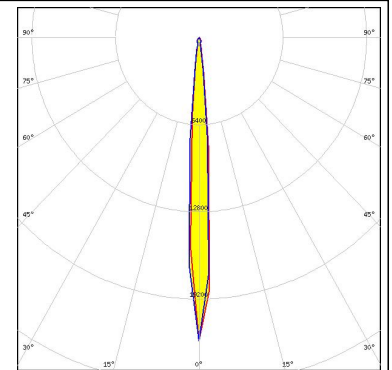
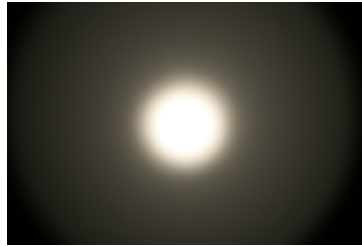
#### PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

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

Required components:

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

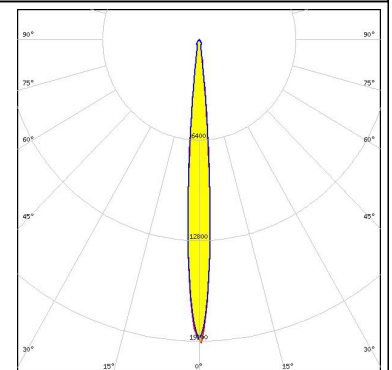


**OSRAM**  
Opto Semiconductors

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

Required components:

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



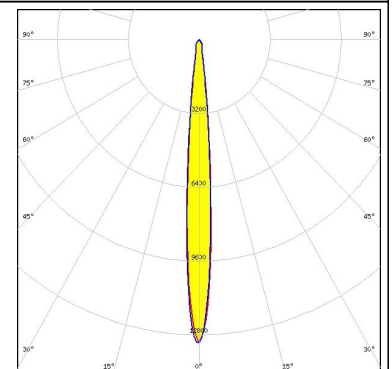
**OSRAM**  
Opto Semiconductors

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

Required components:

F13671\_ANGE-RZ-LENS

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



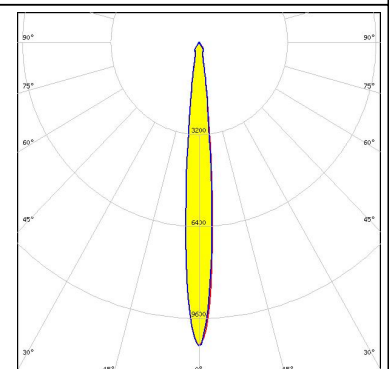
**OSRAM**  
Opto Semiconductors

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

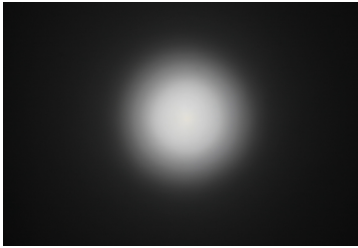
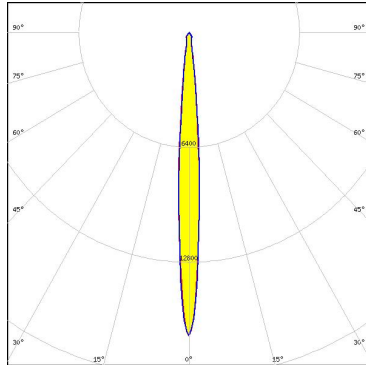

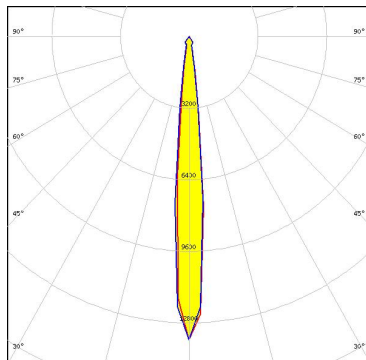

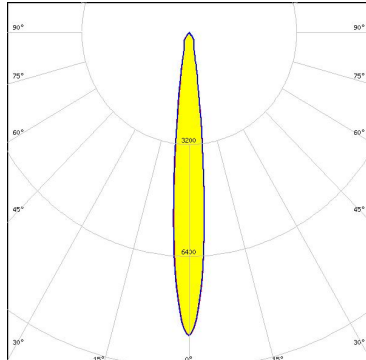

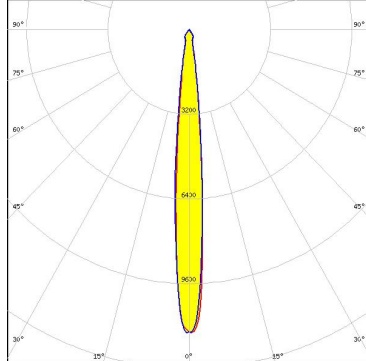
Required components:

F13671\_ANGE-RZ-LENS

IDEAL: 50-2103CT + 50-2100AN



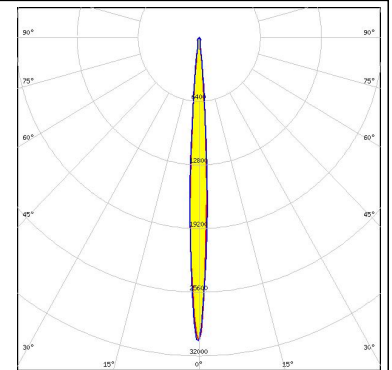
#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13 19x19            FWHM 8.0°            Efficiency 88 %            Peak intensity 16.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            IDEAL: 50-2103CT + 50-2100AN</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19            FWHM 10.0°            Efficiency 94 %            Peak intensity 13.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19            FWHM 12.0°            Efficiency 85 %            Peak intensity 8.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19            FWHM 11.0°            Efficiency 90 %            Peak intensity 11.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13584_CLAMP-VERO29            Bender Wirth: 462 Typ L3</p>		

#### PHOTOMETRIC DATA (MEASURED):

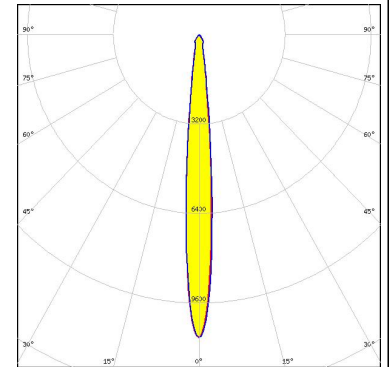
#### PHILIPS

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



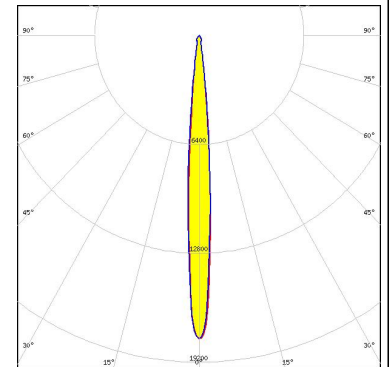
#### PHILIPS

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



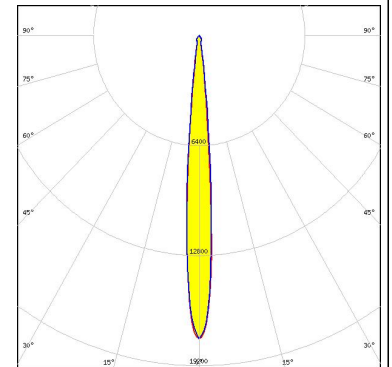
#### PHILIPS

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



#### PHILIPS

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



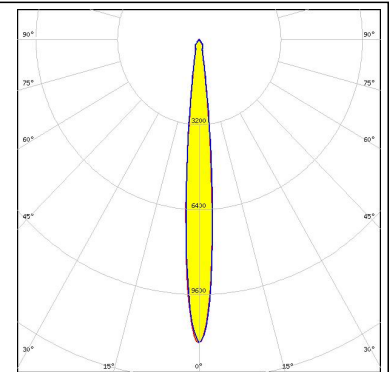
#### PHOTOMETRIC DATA (MEASURED):

#### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM 10.0°  
 Efficiency 86 %  
 Peak intensity 11.5 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

F13671\_ANGE-RZ-LENS  
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

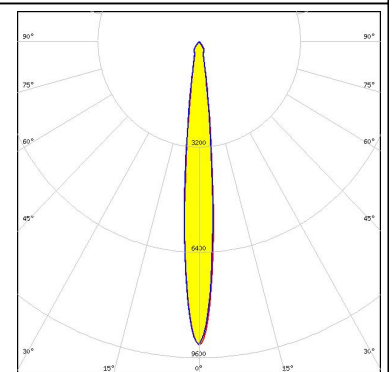


#### PHILIPS

LED Fortimo SLM L15 + SLM holder  
 FWHM 11.0°  
 Efficiency 84 %  
 Peak intensity 9.2 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

F13671\_ANGE-RZ-LENS  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1

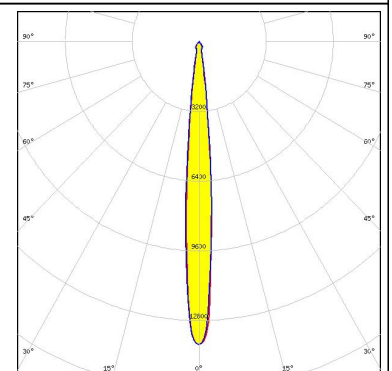
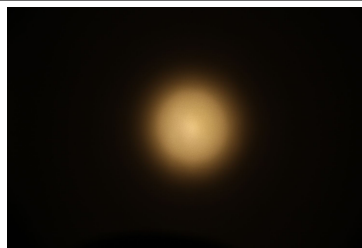


#### PHILIPS

LED Fortimo SLM L15 + SLM holder  
 FWHM 10.0°  
 Efficiency 89 %  
 Peak intensity 13.9 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1

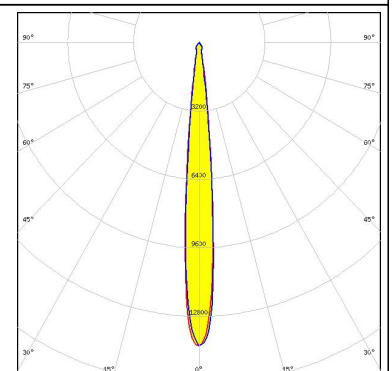


#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM 10.0°  
 Efficiency 92 %  
 Peak intensity 14.2 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

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

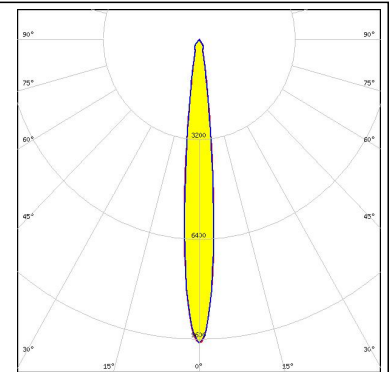


**PHOTOMETRIC DATA (MEASURED):**

**PHILIPS**

LED Fortimo SLM L15 CoB  
FWHM 11.0°  
Efficiency 86 %  
Peak intensity 9.7 cd/lm  
LEDs/each optic 1  
Light colour White

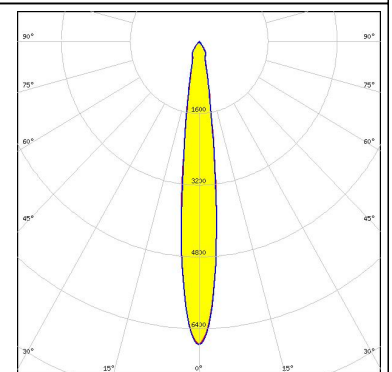
Required components:  
F13671\_ANGE-RZ-LENS  
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



**PHILIPS**

LED Fortimo SLM L19 + SLM holder  
FWHM 13.0°  
Efficiency 84 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour White

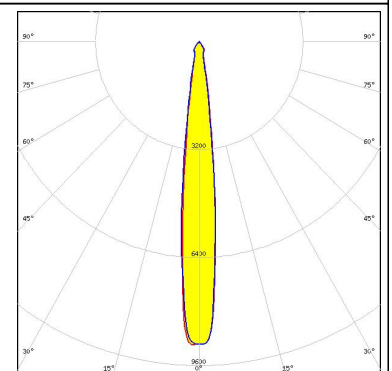
Required components:  
F13671\_ANGE-RZ-LENS  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



**PHILIPS**

LED Fortimo SLM L19 + SLM holder  
FWHM 13.0°  
Efficiency 88 %  
Peak intensity 9 cd/lm  
LEDs/each optic 1  
Light colour White

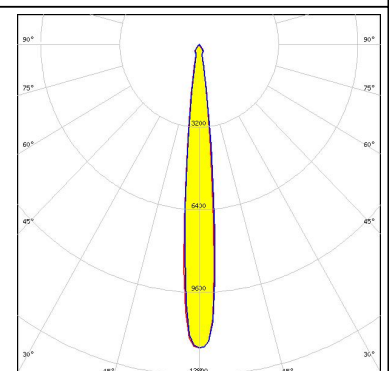
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



**SAMSUNG**

LED LC026B / 033B / 040B  
FWHM 11.0°  
Efficiency 93 %  
Peak intensity 11.8 cd/lm  
LEDs/each optic 1  
Light colour White

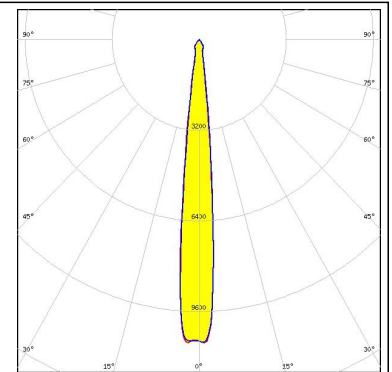
Required components:  
TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

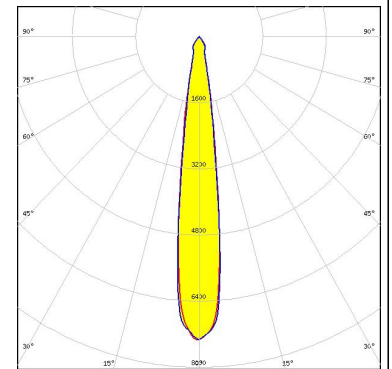
### SAMSUNG

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



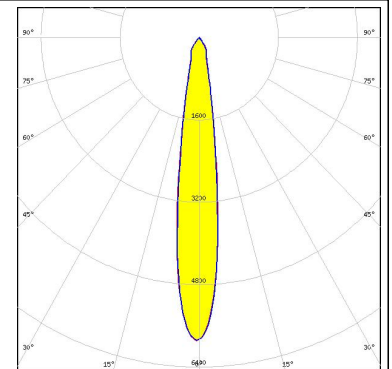
### SAMSUNG

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



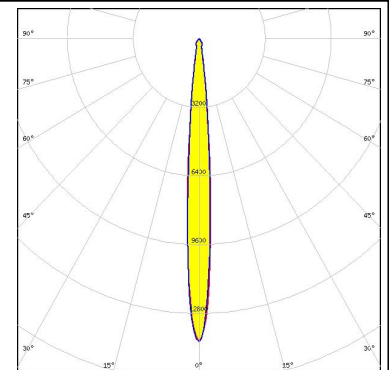
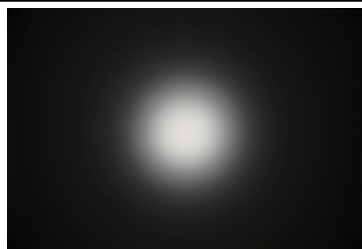
### SAMSUNG

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



### SAMSUNG

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



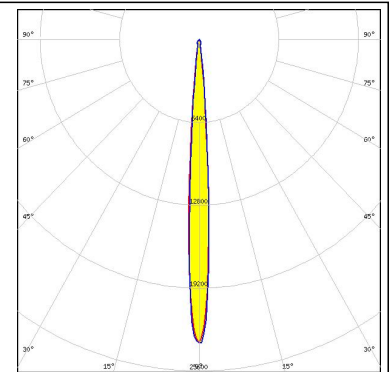
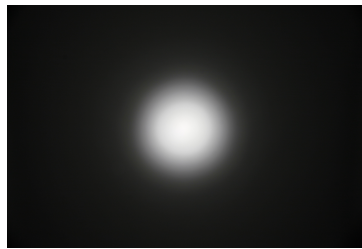


#### PHOTOMETRIC DATA (MEASURED):

### SAMSUNG

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

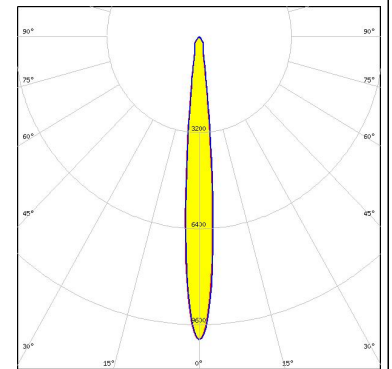
Required components:  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



### SEOL SEMICONDUCTOR

LED AC Zhaga COB  
 FWHM 10.0°  
 Efficiency 84 %  
 Peak intensity 10.1 cd/lm  
 LEDs/each optic 1  
 Light colour White

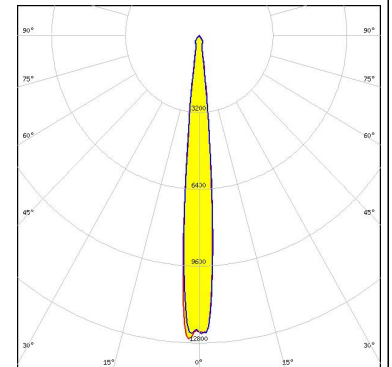
Required components:  
 F13671\_ANGE-RZ-LENS  
 Optosource: SEHSMJD-A



### SEOL SEMICONDUCTOR

LED MJT COB LES 14.5  
 FWHM 10.0°  
 Efficiency 88 %  
 Peak intensity 12.6 cd/lm  
 LEDs/each optic 1  
 Light colour White

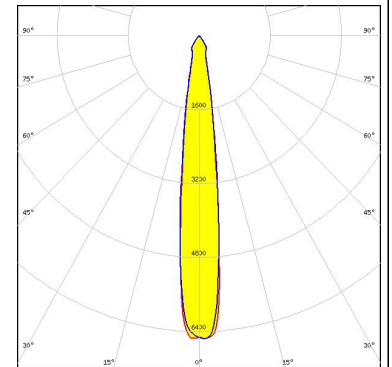
Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1




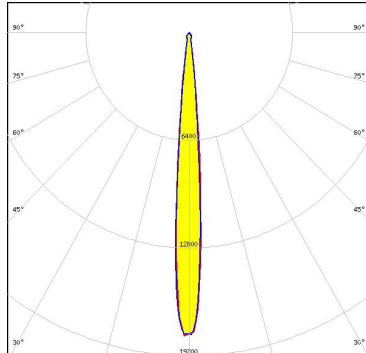

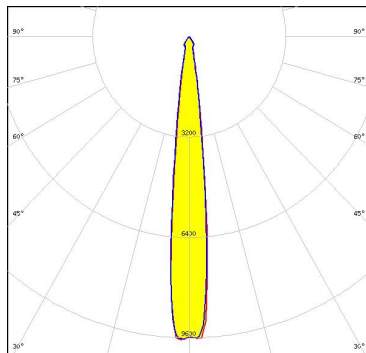

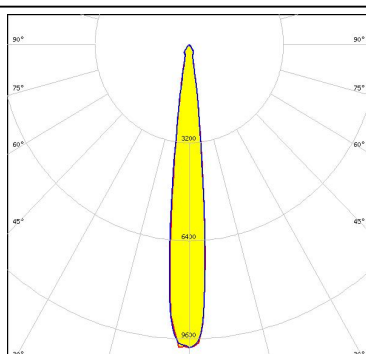
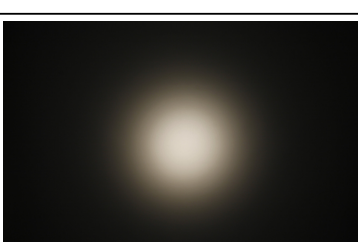
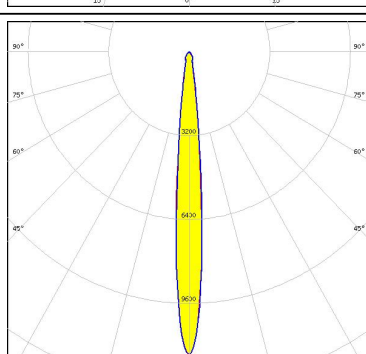
### SEOL SEMICONDUCTOR

LED MJT COB LES 22  
 FWHM 14.0°  
 Efficiency 88 %  
 Peak intensity 6.6 cd/lm  
 LEDs/each optic 1  
 Light colour White

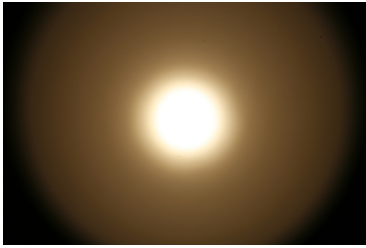
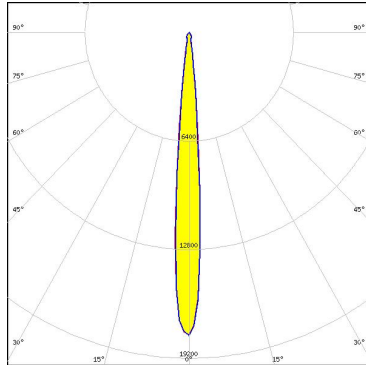

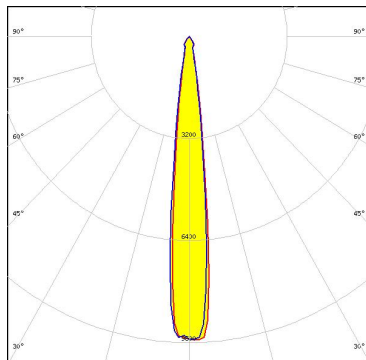
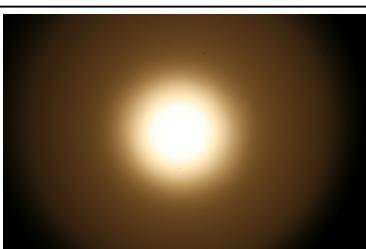
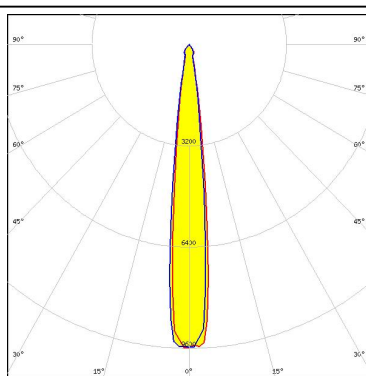
Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



#### PHOTOMETRIC DATA (MEASURED):

<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-461            FWHM 9.0°            Efficiency 93 %            Peak intensity 18 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-462            FWHM 13.0°            Efficiency 92 %            Peak intensity 9.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-464            FWHM 12.0°            Efficiency 92 %            Peak intensity 9.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-484            FWHM 10.0°            Efficiency 84 %            Peak intensity 12 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F13671_ANGE-RZ-LENS            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		

**PHOTOMETRIC DATA (MEASURED):**

<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-484            FWHM 9.0°            Efficiency 93 %            Peak intensity 17.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-485            FWHM 13.0°            Efficiency 93 %            Peak intensity 9.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-486            FWHM 13.0°            Efficiency 93 %            Peak intensity 9.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		

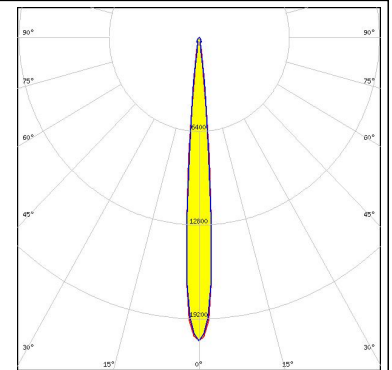
#### PHOTOMETRIC DATA (SIMULATED):

<p><b>bridgelux.</b></p> <p>LED V10 Gen7            FWHM 10.0°            Efficiency 91 %            Peak intensity 15.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 434 Typ L1</p>	
<p><b>bridgelux.</b></p> <p>LED V13 Gen7            FWHM 11.0°            Efficiency 90 %            Peak intensity 11.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            IDEAL: 50-2103CT + 50-2100AN</p>	
<p><b>bridgelux.</b></p> <p>LED V22 Gen7            FWHM 12.0°            Efficiency 93 %            Peak intensity 8.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            IDEAL: 50-2204-CT + 50-2100AN</p>	
<p><b>CREE</b> </p> <p>LED CXA/B 1830            FWHM 12.0°            Efficiency 88 %            Peak intensity 10.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>	

#### PHOTOMETRIC DATA (SIMULATED):



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



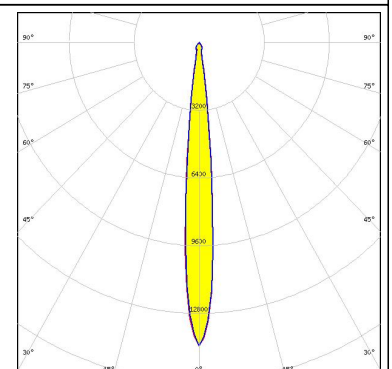
LED CxM-14 (19x19)  
FWHM 10.0°  
Efficiency 88 %  
Peak intensity 15 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 486 Typ L1



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



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



## PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM	10.0°
Efficiency	88 %
Peak intensity	15 cd/lm
LEDs/each optic	1
Light colour	White
Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 433 Typ L1	
 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	6.0°
Efficiency	90 %
Peak intensity	34.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1	

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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