

## ANGELA-S

~10° spot beam

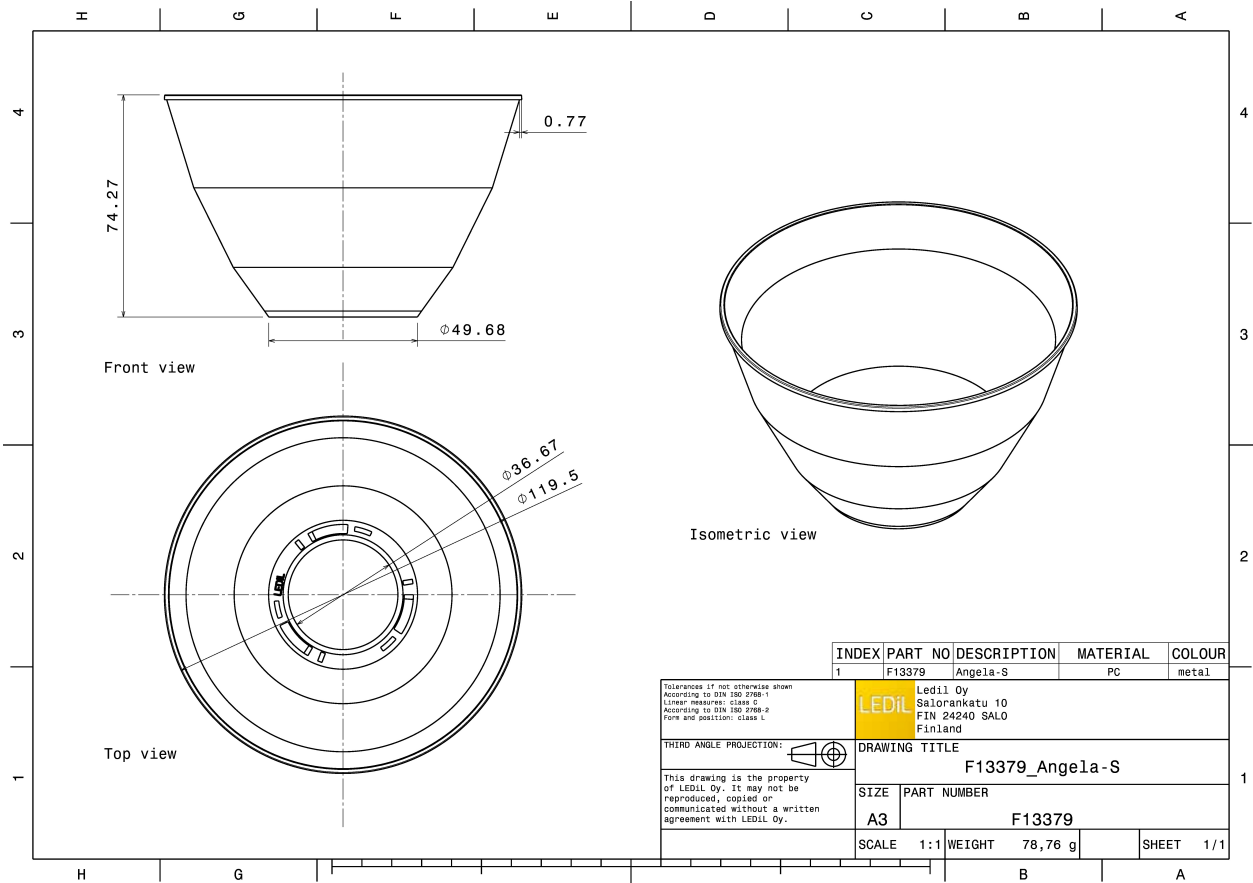
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.3 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	9.3 kg
Quantity in Box	200 pcs
ROHS compliant	yes ⓘ


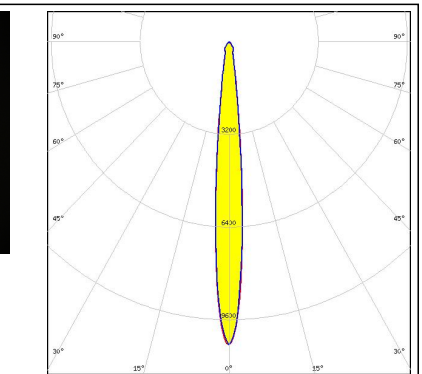

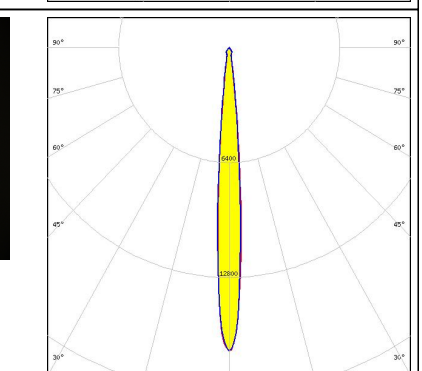


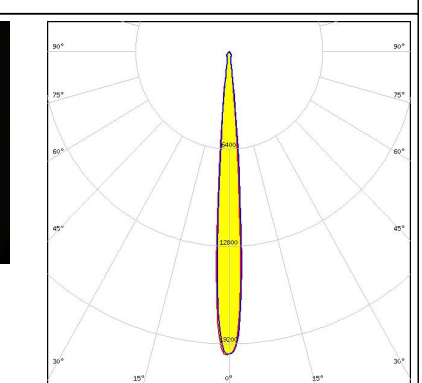


### MATERIAL SPECIFICATIONS:


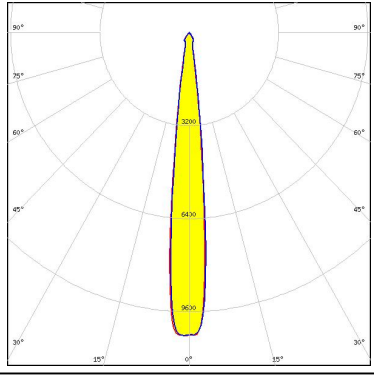

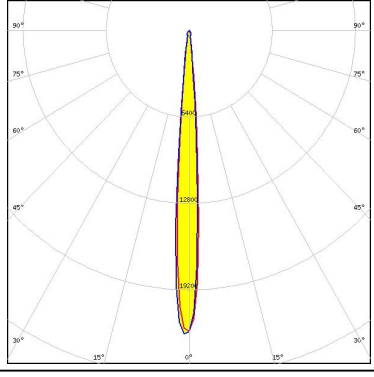

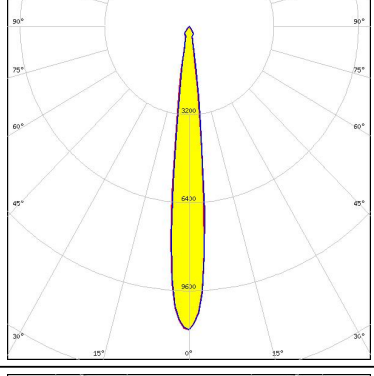

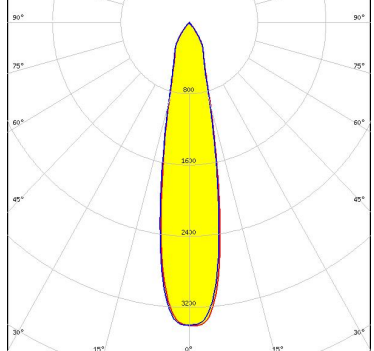
Component	Type	Material	Colour	Coating
ANGELA-S	Reflector	PC	metal	HMDS



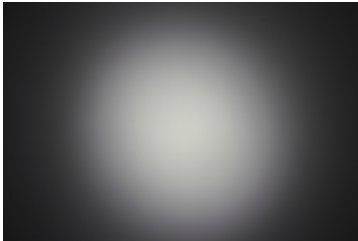
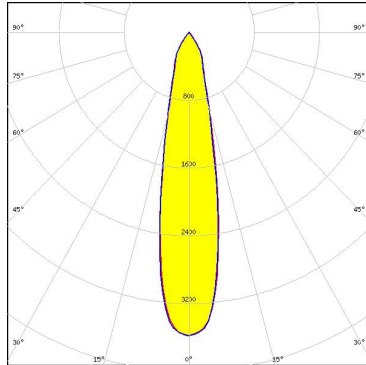

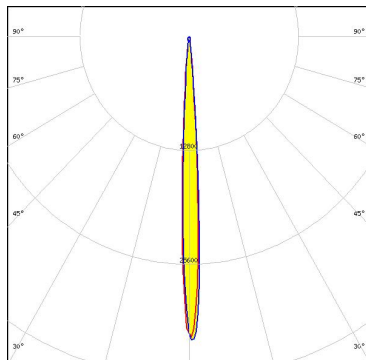

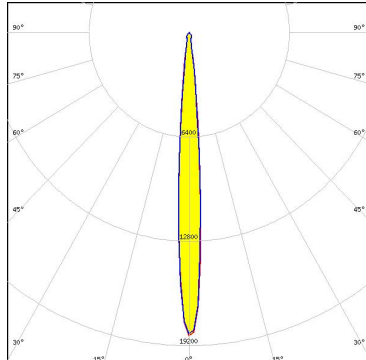

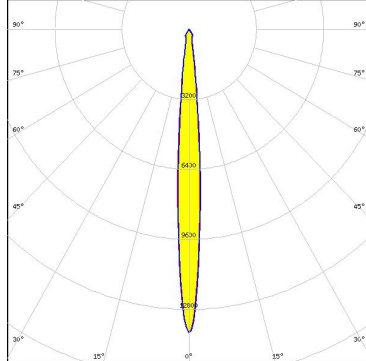
**PHOTOMETRIC DATA (MEASURED):**

<p>bridgelux.</p> <p>LED V13 Gen7 FWHM 10.0° Efficiency 86 % Peak intensity 10.500 cd/lm 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 17.000 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V15 Gen6 FWHM 10.0° Efficiency 92 % Peak intensity 15.300 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 456 Typ L2</p>		
<p>bridgelux.</p> <p>LED Vero SE 13 FWHM 9.0° Efficiency 92 % Peak intensity 19.900 cd/lm Required components: C16402_CLAMP-VEROSE-13-18</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED           Vero SE 18</p> <p>FWHM        12.0°</p> <p>Efficiency    91 %</p> <p>Peak intensity 10.500 cd/lm</p> <p>Required components:</p> <p>    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 22.480 cd/lm</p> <p>Required components:</p> <p>    C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED           VERO18</p> <p>FWHM        12.0°</p> <p>Efficiency    93 %</p> <p>Peak intensity 11.000 cd/lm</p> <p>Required components:</p> <p>    C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED           VERO29</p> <p>FWHM        22.0°</p> <p>Efficiency    85 %</p> <p>Peak intensity 3.410 cd/lm</p> <p>Required components:</p> <p>    C13584_CLAMP-VERO29</p> <p>    F13671_ANGE-RZ-LENS</p>		

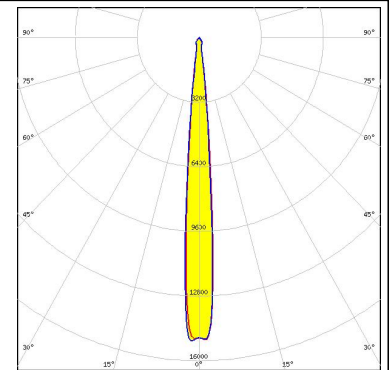
**PHOTOMETRIC DATA (MEASURED):**

<p>bridgelux</p> <p>LED VERO29 FWHM 22.0° Efficiency 85 % Peak intensity 3.580 cd/lm Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS</p>		
<p><b>CITIZEN</b></p> <p>LED CLL02x/CLU02x (LES10) FWHM 6.0° Efficiency 90 % Peak intensity 34.100 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x FWHM 9.0° Efficiency 94 % Peak intensity 18.600 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x FWHM 9.0° Efficiency 88 % Peak intensity 14.000 cd/lm Required components: IDEAL: 50-2103CT + 50-2100AN</p>		

**PHOTOMETRIC DATA (MEASURED):**

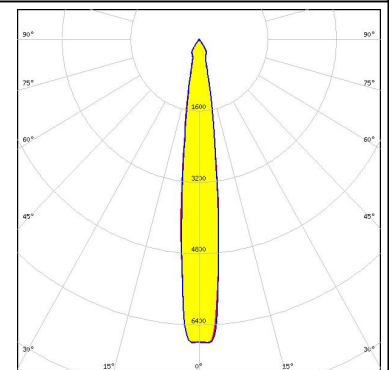
**CITIZEN**

LED CLL03x/CLU03x  
 FWHM 10.0°  
 Efficiency 88 %  
 Peak intensity 15.000 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 433 Typ L1



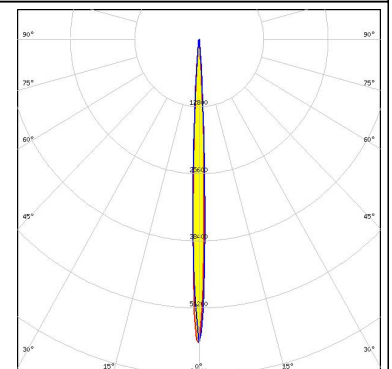
**CITIZEN**

LED CLL04x/CLU04x  
 FWHM 14.0°  
 Efficiency 89 %  
 Peak intensity 6.800 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



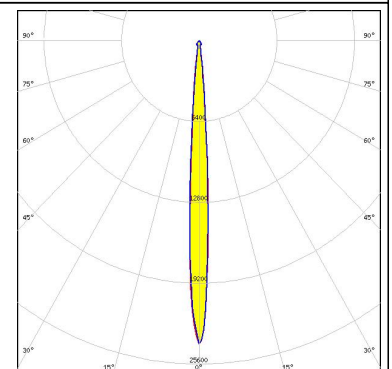
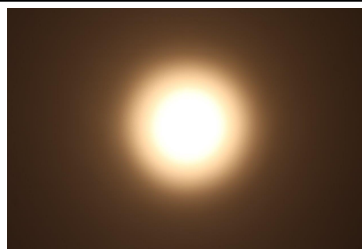
**CITIZEN**

LED CLU700/701  
 FWHM 5.0°  
 Efficiency 88 %  
 Peak intensity 57.800 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



**CITIZEN**

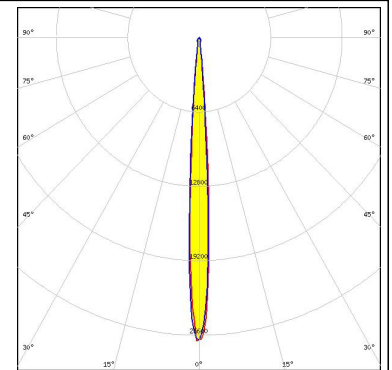
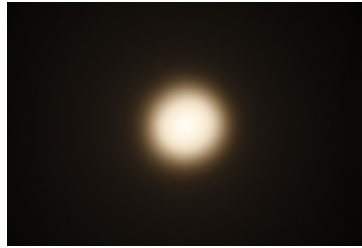
LED CLU720/721  
 FWHM 7.0°  
 Efficiency 94 %  
 Peak intensity 24.000 cd/lm  
 Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



**PHOTOMETRIC DATA (MEASURED):**

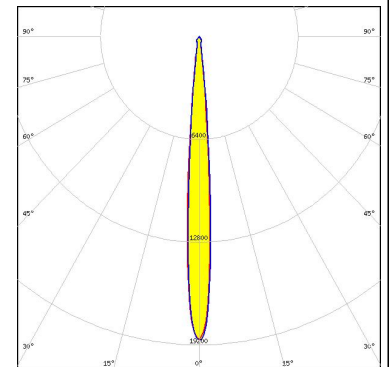
## CITIZEN

LED CLU720/721  
FWHM 7.0°  
Efficiency 88 %  
Peak intensity 26.100 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 433 Typ L1



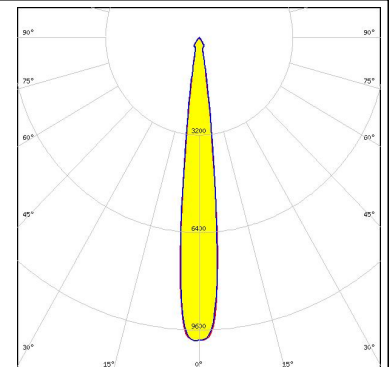
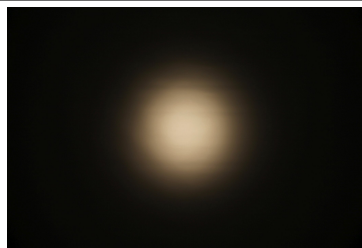
## CITIZEN

LED CLU730/731  
FWHM 8.5°  
Efficiency 91 %  
Peak intensity 18.900 cd/lm  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 471 Typ L3



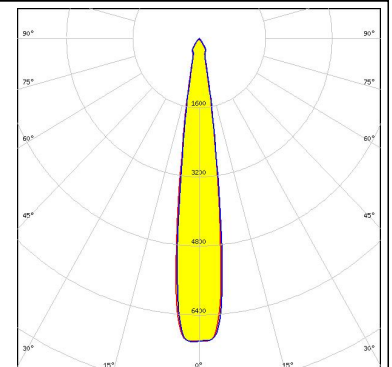
## CREE

LED CMA2550  
FWHM 13.0°  
Efficiency 92 %  
Peak intensity 10.000 cd/lm  
Required components:  
C14036\_CLAMP\_CXA25-30



## CREE

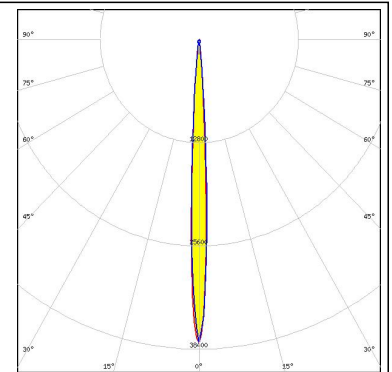
LED CMA3090  
FWHM 15.0°  
Efficiency 92 %  
Peak intensity 7.000 cd/lm  
Required components:  
C14036\_CLAMP\_CXA25-30



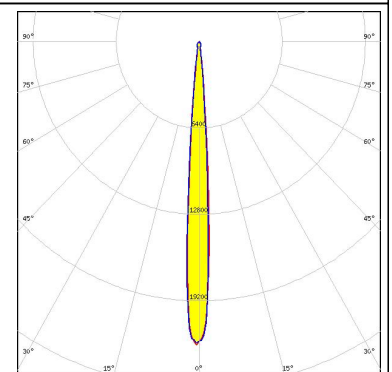
#### PHOTOMETRIC DATA (MEASURED):



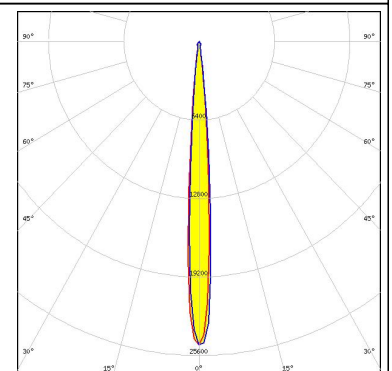
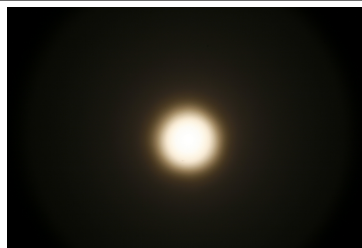
LED CXA/B 15xx  
 FWHM 5.8°  
 Efficiency 92 %  
 Peak intensity 37.600 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 441 Typ L1



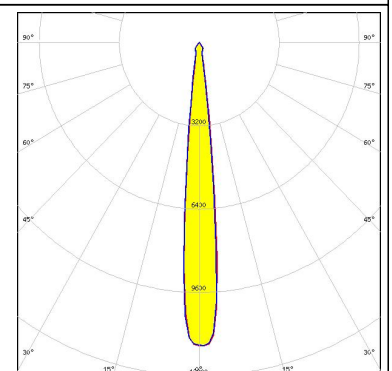
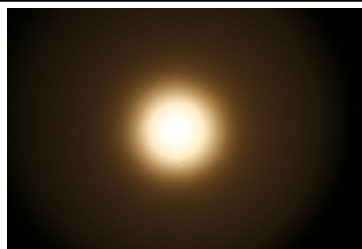
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 8.0°  
 Efficiency 89 %  
 Peak intensity 22.600 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 9.0°  
 Efficiency 91 %  
 Peak intensity 24.700 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18



LED CXA/B 25xx  
 FWHM 11.0°  
 Efficiency 92 %  
 Peak intensity 11.700 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30

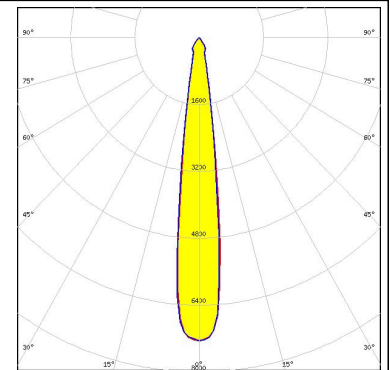
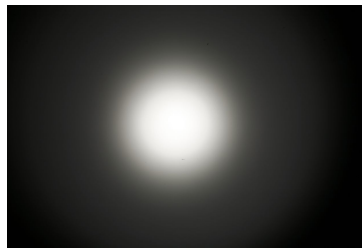




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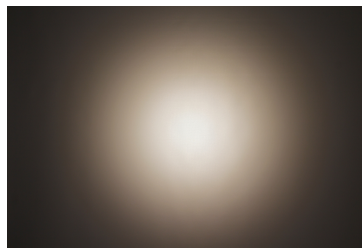
**CREE** 

LED CXA/B 30xx  
FWHM 14.0°  
Efficiency 92 %  
Peak intensity 7.300 cd/lm  
Required components:  
C14036\_CLAMP\_CXA25-30



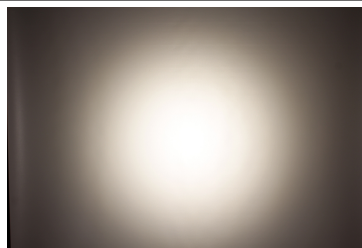
**EVERLIGHT**

LED CHI3030 19W  
FWHM 14.0°  
Efficiency 85 %  
Peak intensity 6.100 cd/lm  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3



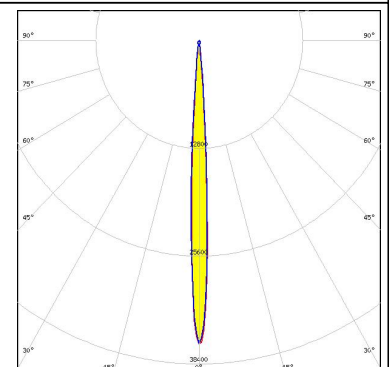
**EVERLIGHT**

LED CHI3030 29W  
FWHM 18.0°  
Efficiency 85 %  
Peak intensity 5.100 cd/lm  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3


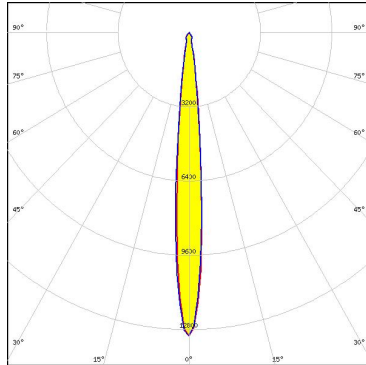
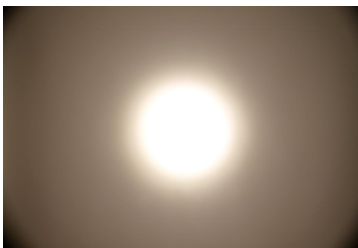
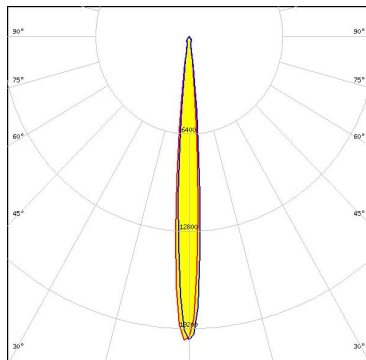

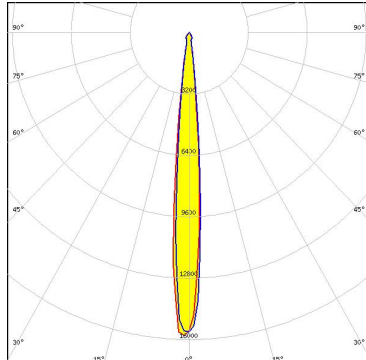
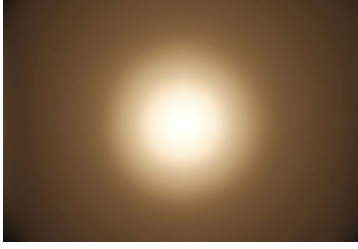
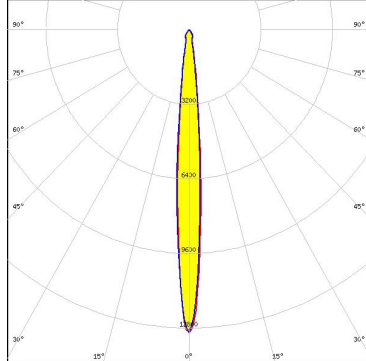


 **LUMILEDS**

LED LUXEON CoB 1202/1203  
FWHM 6.0°  
Efficiency 91 %  
Peak intensity 36.000 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 438 Typ L1



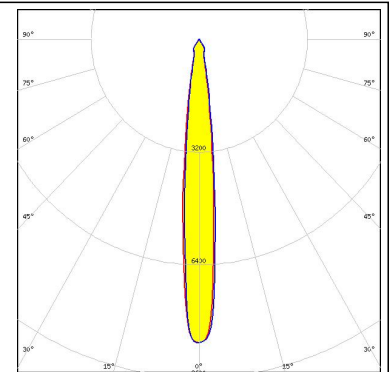
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204/1205</p> <p>FWHM 10.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 13.100 cd/lm</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 1204/1205</p> <p>FWHM 8.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 19.940 cd/lm</p> <p>Required components: TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208</p> <p>FWHM 10.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 15.850 cd/lm</p> <p>Required components: TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208</p> <p>FWHM 9.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 13.000 cd/lm</p> <p>Required components: IDEAL: 50-2100SH + 50-2100AN</p>		

#### PHOTOMETRIC DATA (MEASURED):

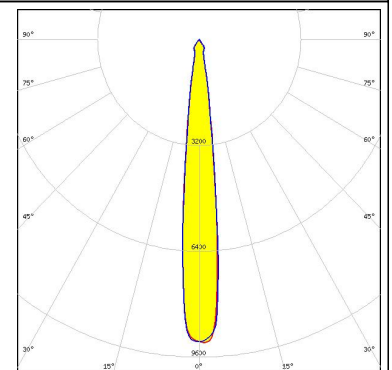
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM 12.0°  
 Efficiency 88 %  
 Peak intensity 8.600 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



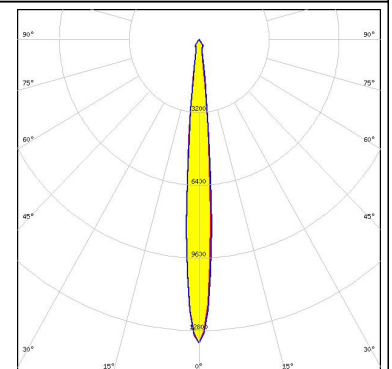
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM 13.0°  
 Efficiency 90 %  
 Peak intensity 9.200 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



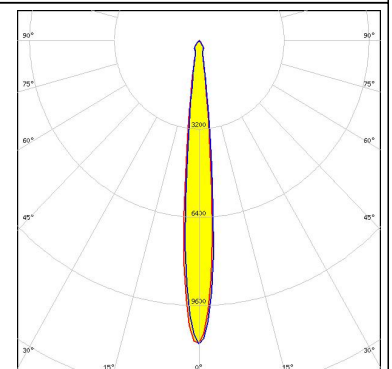
#### LUMILEDS

LED LUXEON K12  
 FWHM 9.0°  
 Efficiency 90 %  
 Peak intensity 13.000 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### LUMILEDS

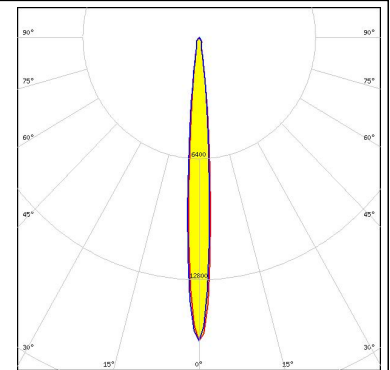
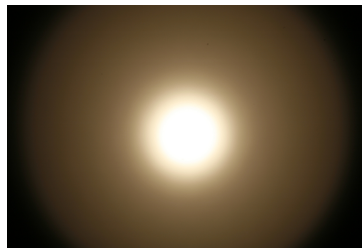
LED LUXEON K16  
 FWHM 10.0°  
 Efficiency 90 %  
 Peak intensity 11.000 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



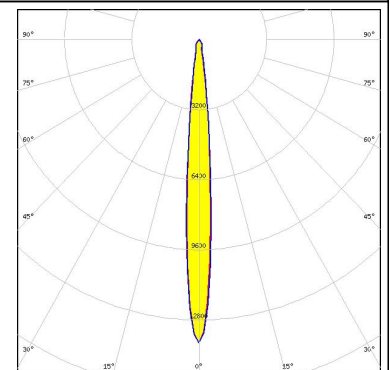
#### PHOTOMETRIC DATA (MEASURED):



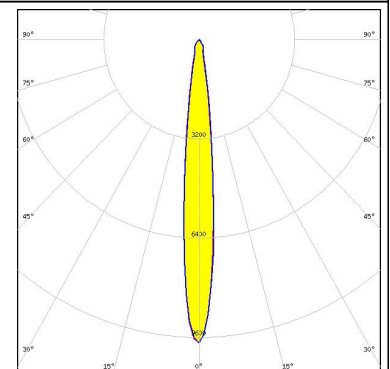
LED LUXEON S2000  
 FWHM 9.0°  
 Efficiency 87 %  
 Peak intensity 16.000 cd/lm  
 Required components:  
 C13395\_CLAMP-S2000  
 F13671\_ANGE-RZ-LENS



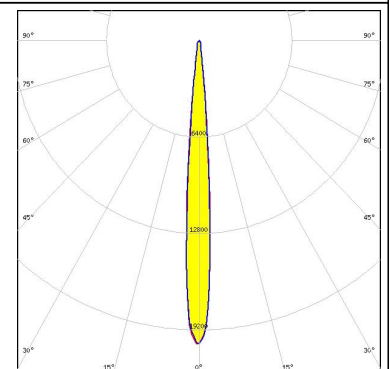
LED LUXEON S3000  
 FWHM 10.0°  
 Efficiency 87 %  
 Peak intensity 13.800 cd/lm  
 Required components:  
 C13397\_CLAMP-S3000  
 F13671\_ANGE-RZ-LENS




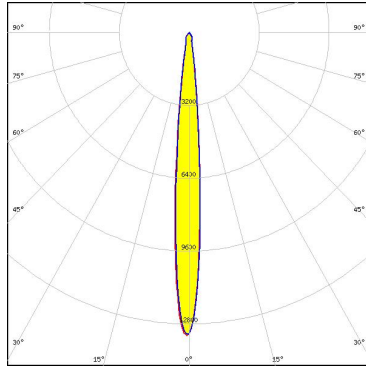

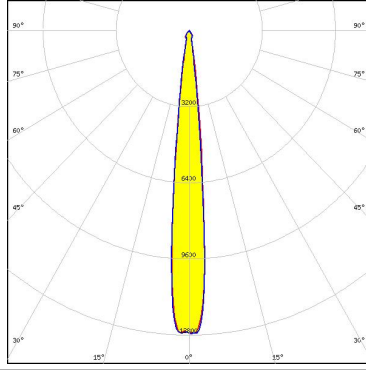

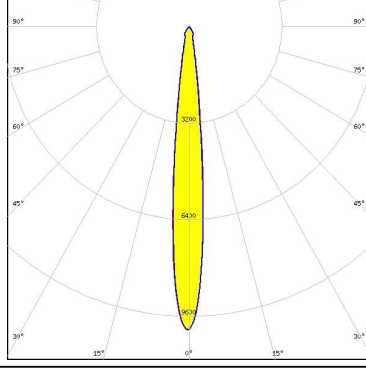

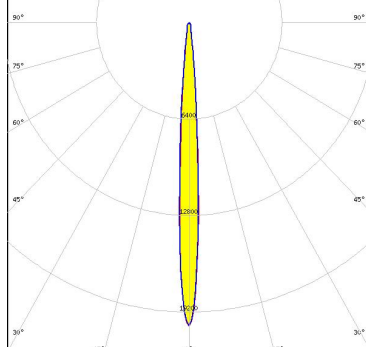
LED LUXEON S5000  
 FWHM 12.0°  
 Efficiency 86 %  
 Peak intensity 9.800 cd/lm  
 Required components:  
 C13399\_CLAMP-S5000  
 F13671\_ANGE-RZ-LENS



LED CDM-14 (Dim-To-Warm)  
 FWHM 8.6°  
 Efficiency 92 %  
 Peak intensity 20.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



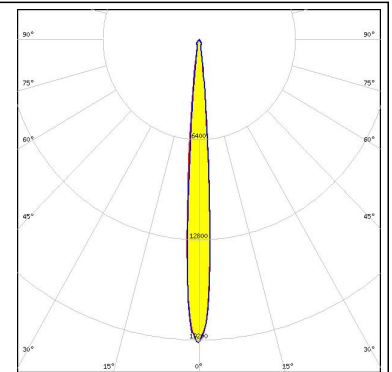
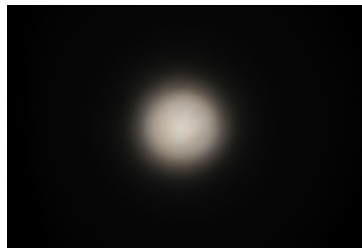
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CDM-14 (Dim-To-Warm)</p> <p>FWHM 9.5°</p> <p>Efficiency 87 %</p> <p>Peak intensity 13.400 cd/lm</p> <p>Required components:            C13658_CLAMP-VERO13-18            F13671_ANGE-RZ-LENS            Bender Wirth: 491 Typ L2</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-18 (Dim-To-Warm)</p> <p>FWHM 11.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 12.800 cd/lm</p> <p>Required components:            C13658_CLAMP-VERO13-18            Bender Wirth: 491 Typ L2</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-18 (Dim-To-Warm)</p> <p>FWHM 11.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 10.000 cd/lm</p> <p>Required components:            C13658_CLAMP-VERO13-18            F13671_ANGE-RZ-LENS            Bender Wirth: 491 Typ L2</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM 7.2°</p> <p>Efficiency 85 %</p> <p>Peak intensity 20.100 cd/lm</p> <p>Required components:            C13658_CLAMP-VERO13-18            F13671_ANGE-RZ-LENS            Bender Wirth: 490 Typ L1</p>		

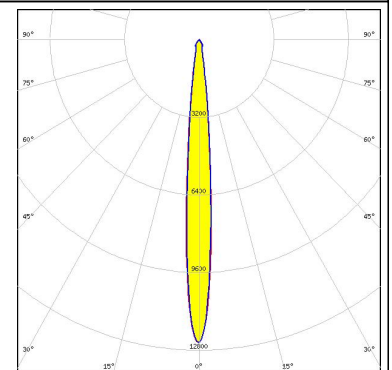
#### PHOTOMETRIC DATA (MEASURED):



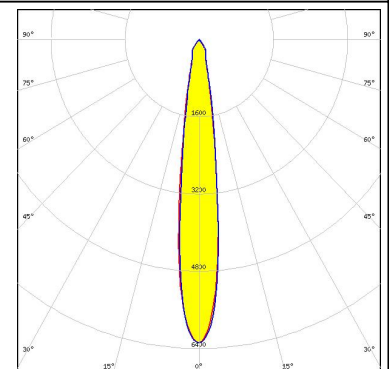
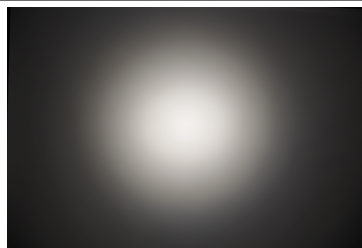
LED CTM-14 (Tunable White)  
 FWHM 8.0°  
 Efficiency 90 %  
 Peak intensity 19.600 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 442 Typ L3



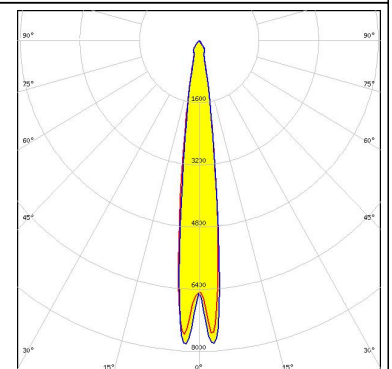
LED CTM-14 (Tunable White)  
 FWHM 9.0°  
 Efficiency 85 %  
 Peak intensity 12.500 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 442 Typ L3



LED CTM-22 (Tunable White)  
 FWHM 15.0°  
 Efficiency 85 %  
 Peak intensity 6.300 cd/lm  
 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 7.860 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3

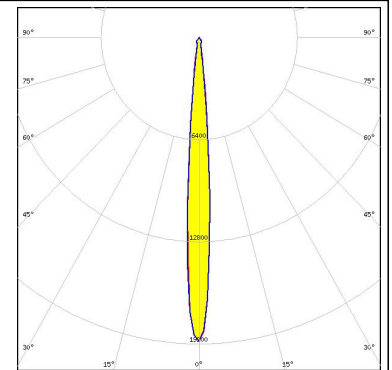


#### PHOTOMETRIC DATA (MEASURED):



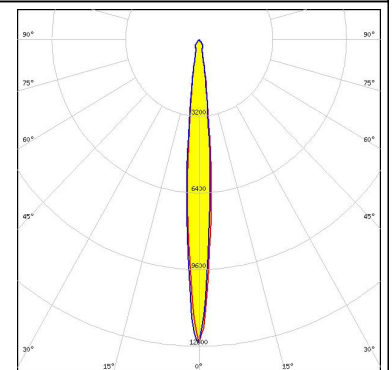
LED CXM-14  
 FWHM 9.0°  
 Efficiency 94 %  
 Peak intensity 19.000 cd/lm  
 Required components:

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



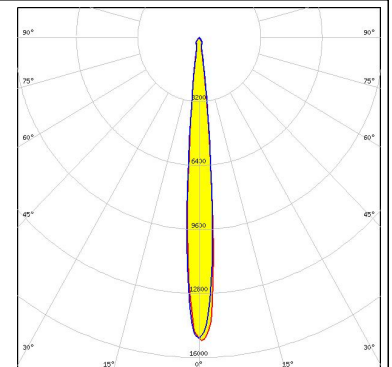
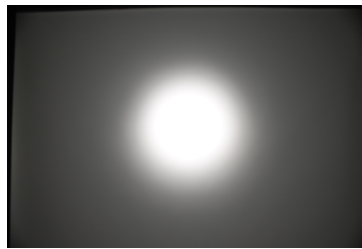
LED COB J-Type  
 FWHM 9.0°  
 Efficiency 91 %  
 Peak intensity 12.700 cd/lm  
 Required components:

IDEAL: 50-2103NC + 50-2100AN



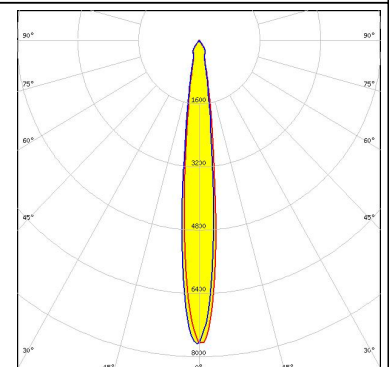
LED COB J-Type  
 FWHM 9.0°  
 Efficiency 89 %  
 Peak intensity 15.200 cd/lm  
 Required components:

C13658\_CLAMP-VERO13-18  
 Bender Wirth: 463 Typ L2



LED COB J-Type  
 FWHM 12.0°  
 Efficiency 86 %  
 Peak intensity 7.700 cd/lm  
 Required components:

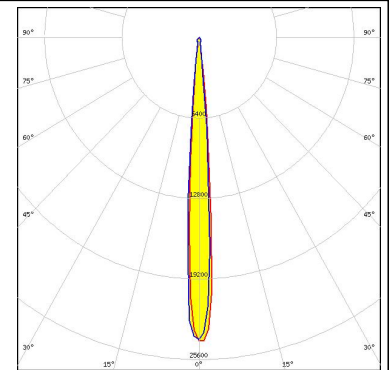
F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2103NC + 50-2100AN



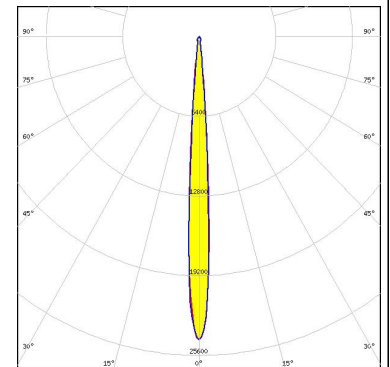
#### PHOTOMETRIC DATA (MEASURED):



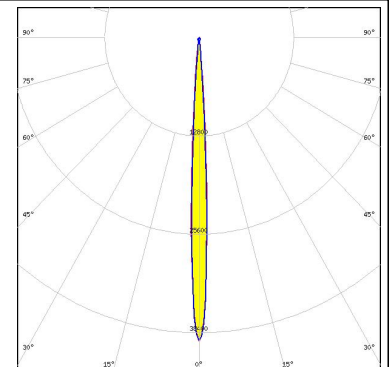
LED COB L-Type (LES 11)  
 FWHM 8.0°  
 Efficiency 94 %  
 Peak intensity 24.000 cd/lm  
 Required components:  
 Molex: 180580-0005



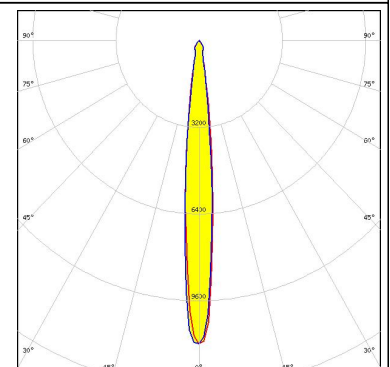
LED COB L-Type (LES 11)  
 FWHM 7.0°  
 Efficiency 89 %  
 Peak intensity 24.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



LED COB L-Type (LES 9)  
 FWHM 6.0°  
 Efficiency 93 %  
 Peak intensity 39.000 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



LED PrevaLED Core AC (LEP-2000)  
 FWHM 11.0°  
 Efficiency 92 %  
 Peak intensity 11.200 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1

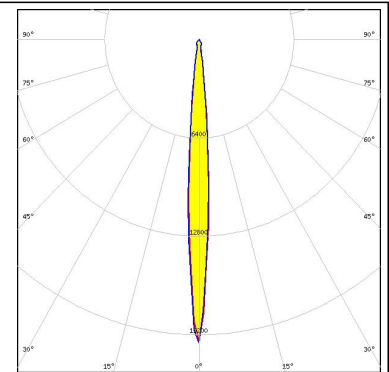




**PHOTOMETRIC DATA (MEASURED):**

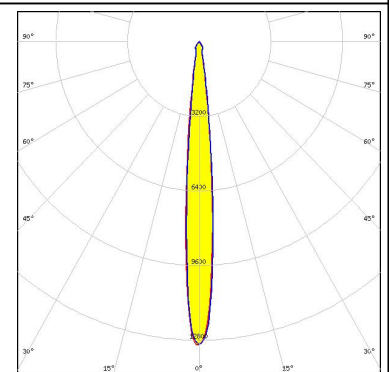
**OSRAM**

LED PrevaLED Core AC (LEP-800)  
 FWHM 8.0°  
 Efficiency 94 %  
 Peak intensity 19.800 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



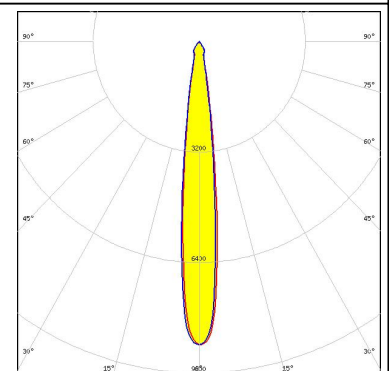
**OSRAM**

LED PrevaLED Core Z3 LES19  
 FWHM 10.0°  
 Efficiency 93 %  
 Peak intensity 13.000 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



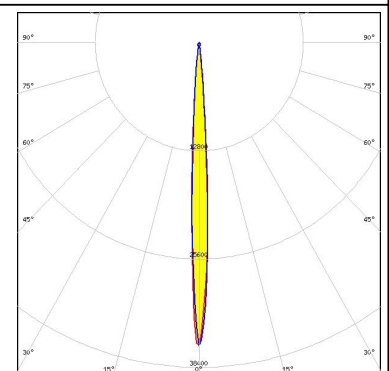
**OSRAM**

LED PrevaLED Core Z3 LES23  
 FWHM 13.0°  
 Efficiency 93 %  
 Peak intensity 8.790 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



**OSRAM**

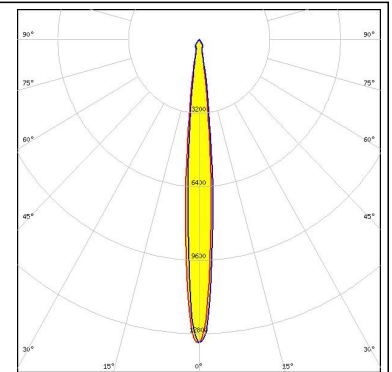
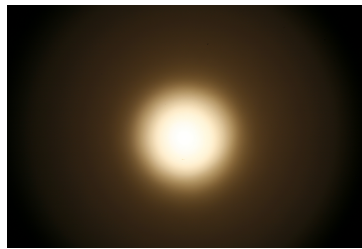
LED PrevaLED Core Z3 LES9  
 FWHM 6.0°  
 Efficiency 94 %  
 Peak intensity 36.000 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

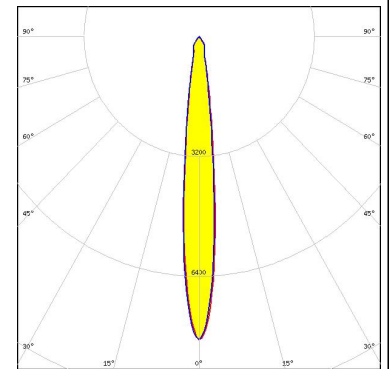
#### OSRAM

LED PrevaLED Core Z4 LES19  
 FWHM 10.0°  
 Efficiency 93 %  
 Peak intensity 13.300 cd/Im  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

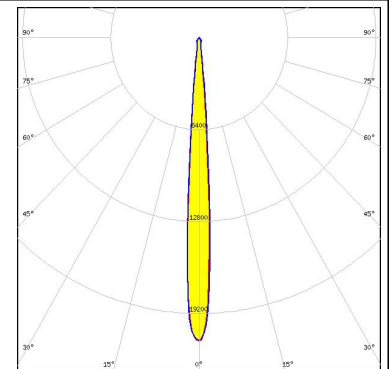
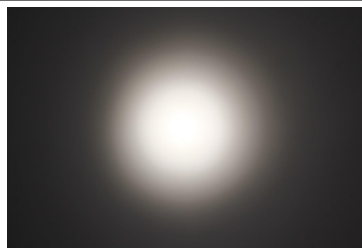
LED PrevaLED Core Z4 LES19  
 FWHM 12.0°  
 Efficiency 85 %  
 Peak intensity 8.100 cd/Im  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

Opto Semiconductors

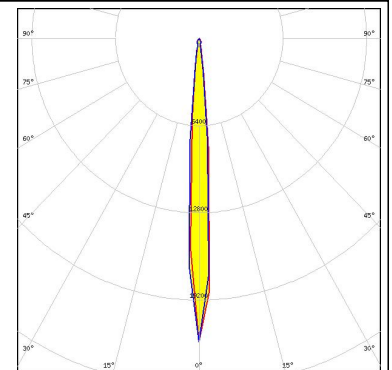
LED Soleriq S13  
 FWHM 8.0°  
 Efficiency 89 %  
 Peak intensity 21.000 cd/Im  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1




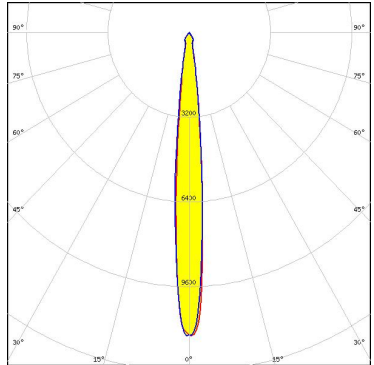
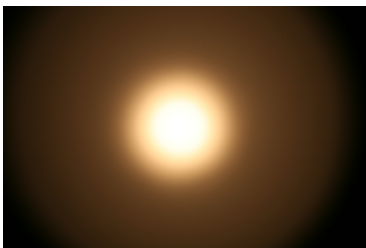
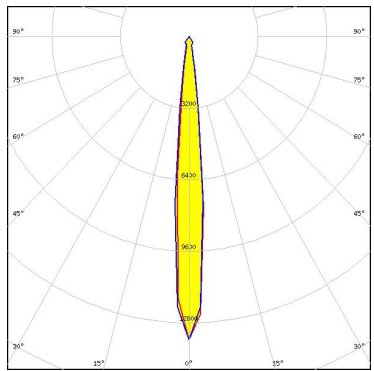

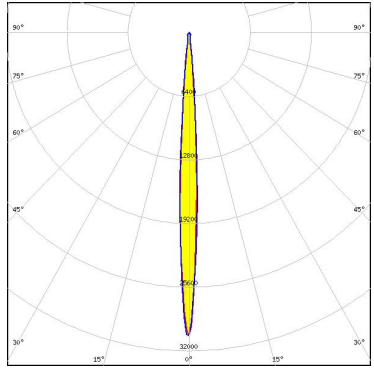

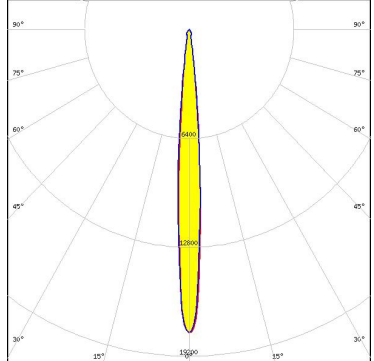
#### OSRAM

Opto Semiconductors

LED Soleriq S13  
 FWHM 8.0°  
 Efficiency 94 %  
 Peak intensity 22.000 cd/Im  
 Required components:  
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



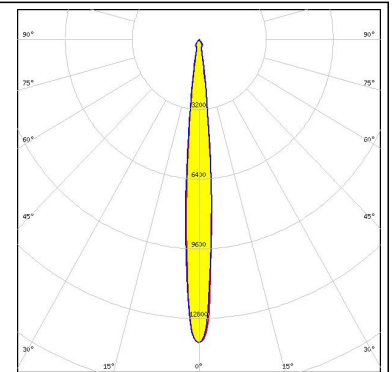
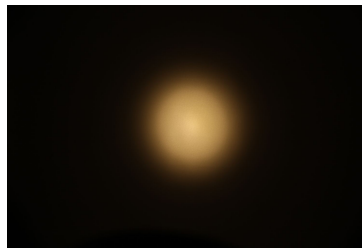
**PHOTOMETRIC DATA (MEASURED):**

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19 FWHM 11.0° Efficiency 90 % Peak intensity 11.500 cd/lm Required components: C13584_CLAMP-VERO29 Bender Wirth: 462 Typ L3</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19 FWHM 10.0° Efficiency 94 % Peak intensity 13.500 cd/lm Required components: TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L09 Standard FWHM 7.0° Efficiency 91 % Peak intensity 30.600 cd/lm Required components: TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L13 Standard FWHM 8.5° Efficiency 91 % Peak intensity 17.800 cd/lm Required components: TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		

**PHOTOMETRIC DATA (MEASURED):**

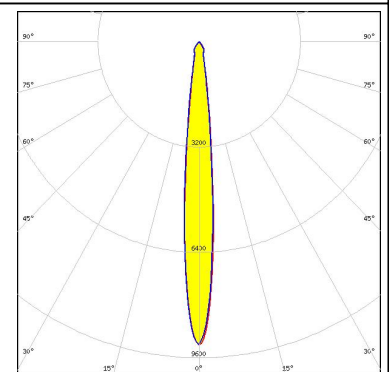
**PHILIPS**

LED Fortimo SLM L15 Standard  
 FWHM 10.0°  
 Efficiency 89 %  
 Peak intensity 13.900 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



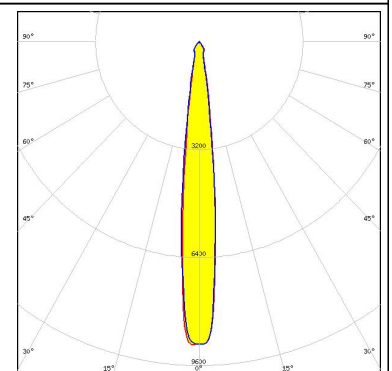
**PHILIPS**

LED Fortimo SLM L15 Standard  
 FWHM 11.0°  
 Efficiency 84 %  
 Peak intensity 9.200 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



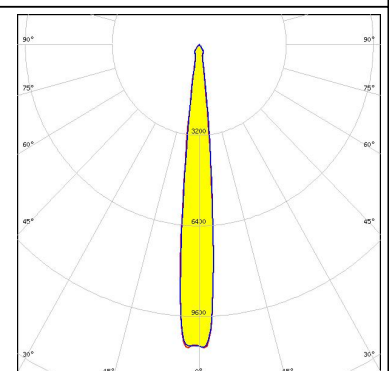
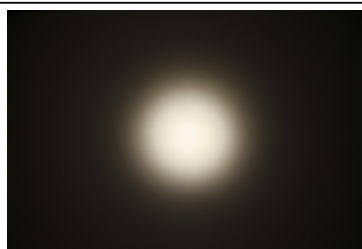
**PHILIPS**

LED Fortimo SLM L19 Standard  
 FWHM 13.0°  
 Efficiency 88 %  
 Peak intensity 9.000 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



**SAMSUNG**

LED LC026B / 033B / 040B  
 FWHM 11.0°  
 Efficiency 8 %  
 Peak intensity 10.700 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 450 Typ L2



#### PHOTOMETRIC DATA (MEASURED):

### SAMSUNG

LED LC026B / 033B / 040B

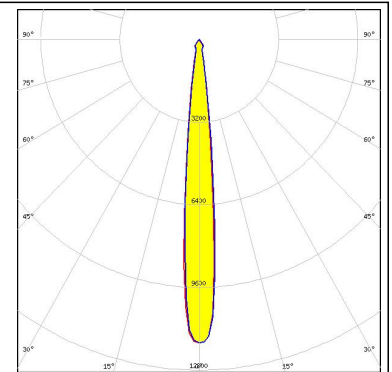
FWHM 11.0°

Efficiency 93 %

Peak intensity 11.750 cd/lm

Required components:

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



### SAMSUNG

LED LC040C

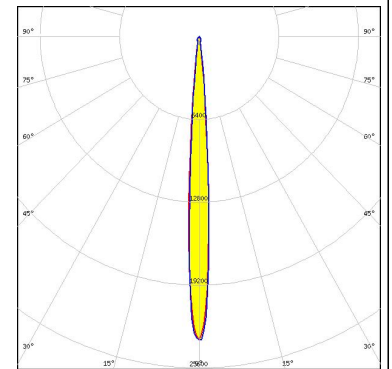
FWHM 7.0°

Efficiency 89 %

Peak intensity 23.000 cd/lm

Required components:

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



SEOUL SEMICONDUCTOR

LED AC Zhaga COB

FWHM 10.0°

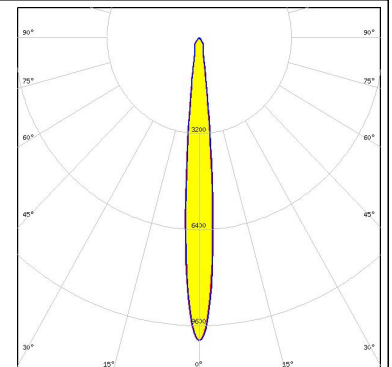
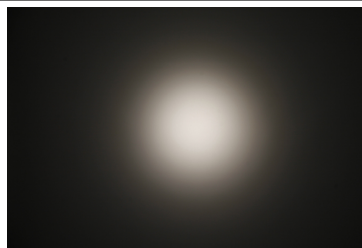
Efficiency 84 %

Peak intensity 10.100 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

Optosource: SEHSMJD-A



SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5

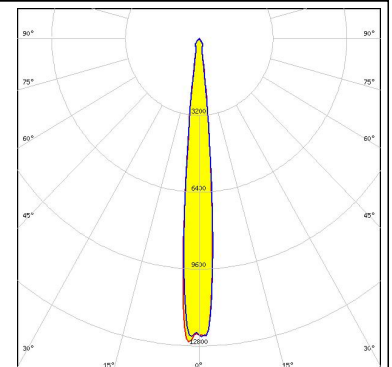
FWHM 10.0°

Efficiency 88 %



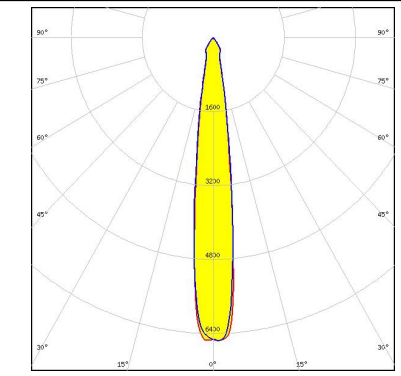

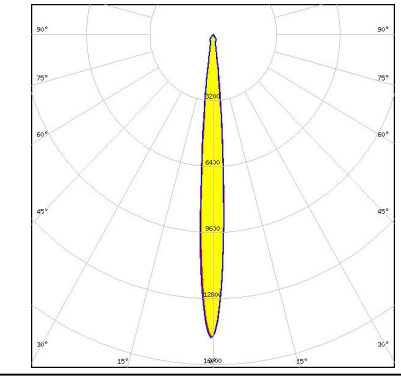

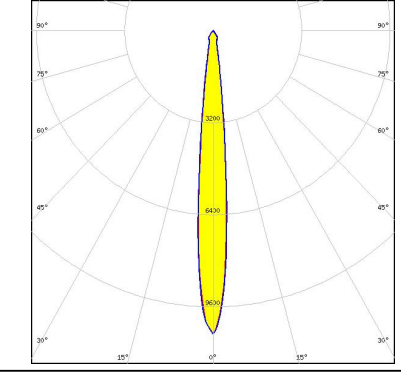

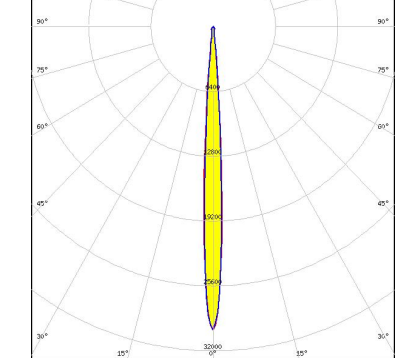
Peak intensity 12.600 cd/lm

Required components:


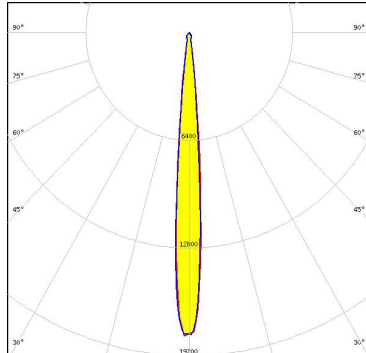

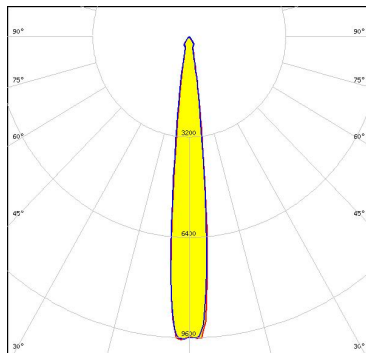

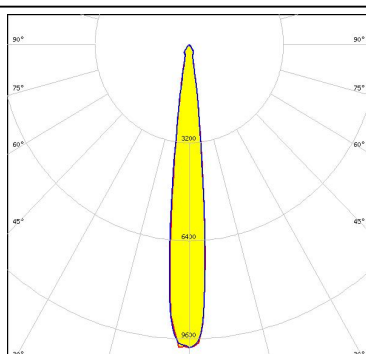
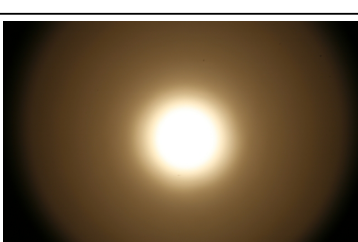
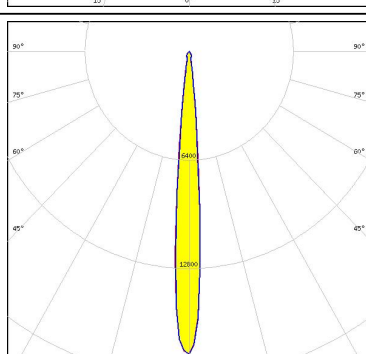
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



**PHOTOMETRIC DATA (MEASURED):**

<p> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22 FWHM 14.0° Efficiency 88 % Peak intensity 6.600 cd/lm Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G1 11mm 1000lm 927 Sunset R EXC FWHM 9.0° Efficiency 87 % Peak intensity 14.700 cd/lm Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G1 15mm 2000lm 927 Sunset R EXC FWHM 11.0° Efficiency 87 % Peak intensity 10.500 cd/lm Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G5 LES11 FWHM 7.0° Efficiency 91 % Peak intensity 30.100 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-461</p> <p>FWHM 9.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 18.000 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-462</p> <p>FWHM 13.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 9.680 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-464</p> <p>FWHM 12.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 9.910 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED WU-M-484</p> <p>FWHM 9.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 17.900 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		

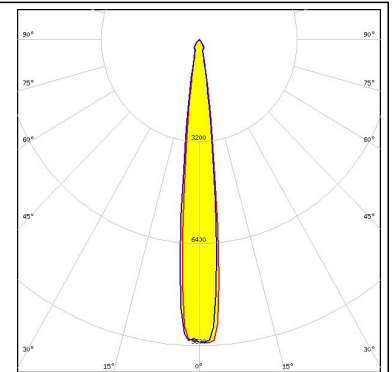
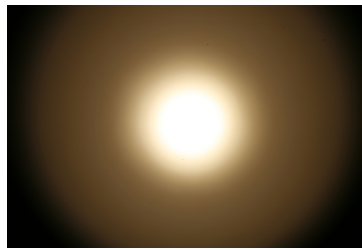
#### PHOTOMETRIC DATA (MEASURED):



LED WU-M-485  
FWHM 13.0°  
Efficiency 93 %  
Peak intensity 9.530 cd/lm

Required components:

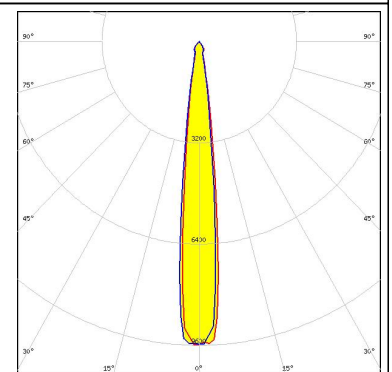
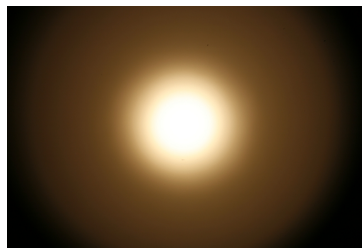
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-486  
FWHM 13.0°  
Efficiency 93 %  
Peak intensity 9.600 cd/lm


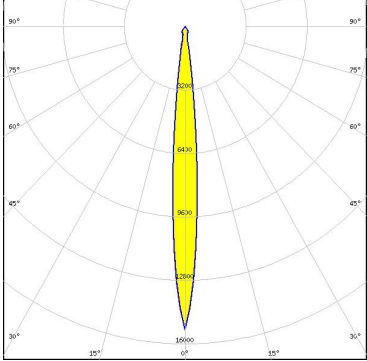

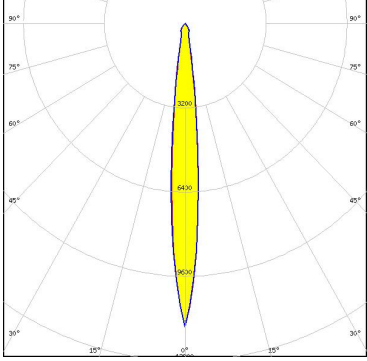

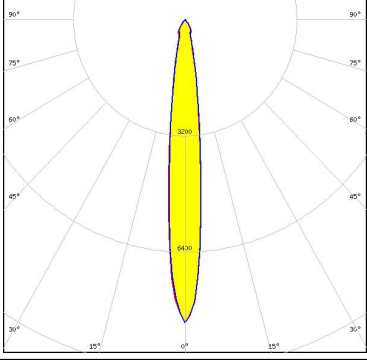

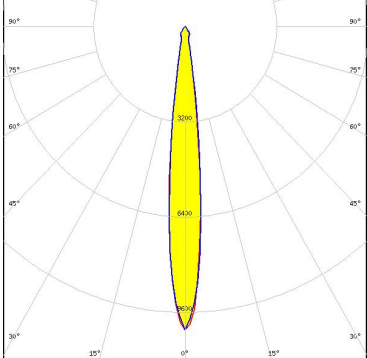
Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1





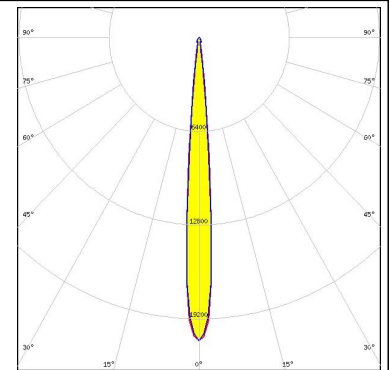
#### PHOTOMETRIC DATA (SIMULATED):

<p> <b>bridgelux</b></p> <p>LED V10 Gen7            FWHM 10.0°            Efficiency 91 %            Peak intensity 15.300 cd/lm</p> <p>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 11.520 cd/lm</p> <p>Required components:            IDEAL: 50-2103CT + 50-2100AN</p>	
<p> <b>bridgelux</b></p> <p>LED V22 Gen7            FWHM 12.0°            Efficiency 93 %            Peak intensity 8.348 cd/lm</p> <p>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 10.200 cd/lm</p> <p>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 20.700 cd/lm  
Required components:



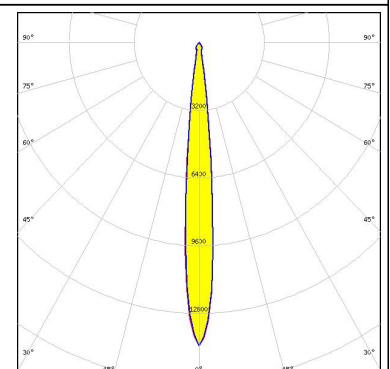
LED CXM-14  
FWHM 10.0°  
Efficiency 88 %  
Peak intensity 15.000 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 433 Typ L1





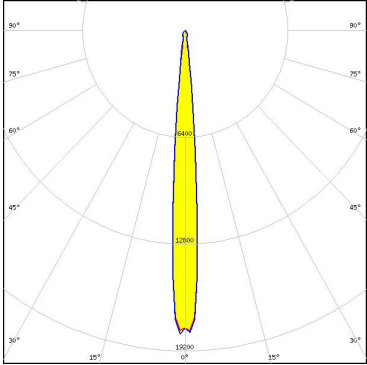
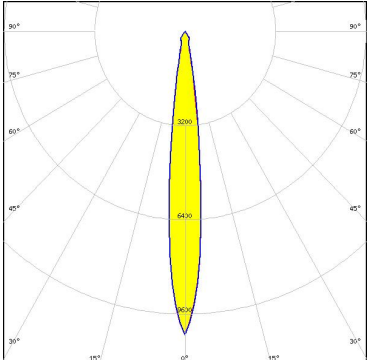
LED CXM-9  
FWHM 6.0°  
Efficiency 90 %  
Peak intensity 34.100 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 434 Typ L1



LED Soleriq S15  
FWHM 10.0°  
Efficiency 90 %  
Peak intensity 14.300 cd/lm  
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 15.000 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 433 Typ L1	
 SEOUL SEMICONDUCTOR	LED ZC4/6 FWHM 6.0° Efficiency 90 % Peak intensity 34.100 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1	
<b>TRIDONIC</b>	LED SLE G6 LES15 FWHM 8.9° Efficiency 89 % Peak intensity 18.300 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
<b>TRIDONIC</b>	LED SLE G6 LES17 FWHM 13.0° Efficiency 91 % Peak intensity 10.310 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1	

### 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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