

## ANGELETTE-WAS

Asymmetric wall-washer beam

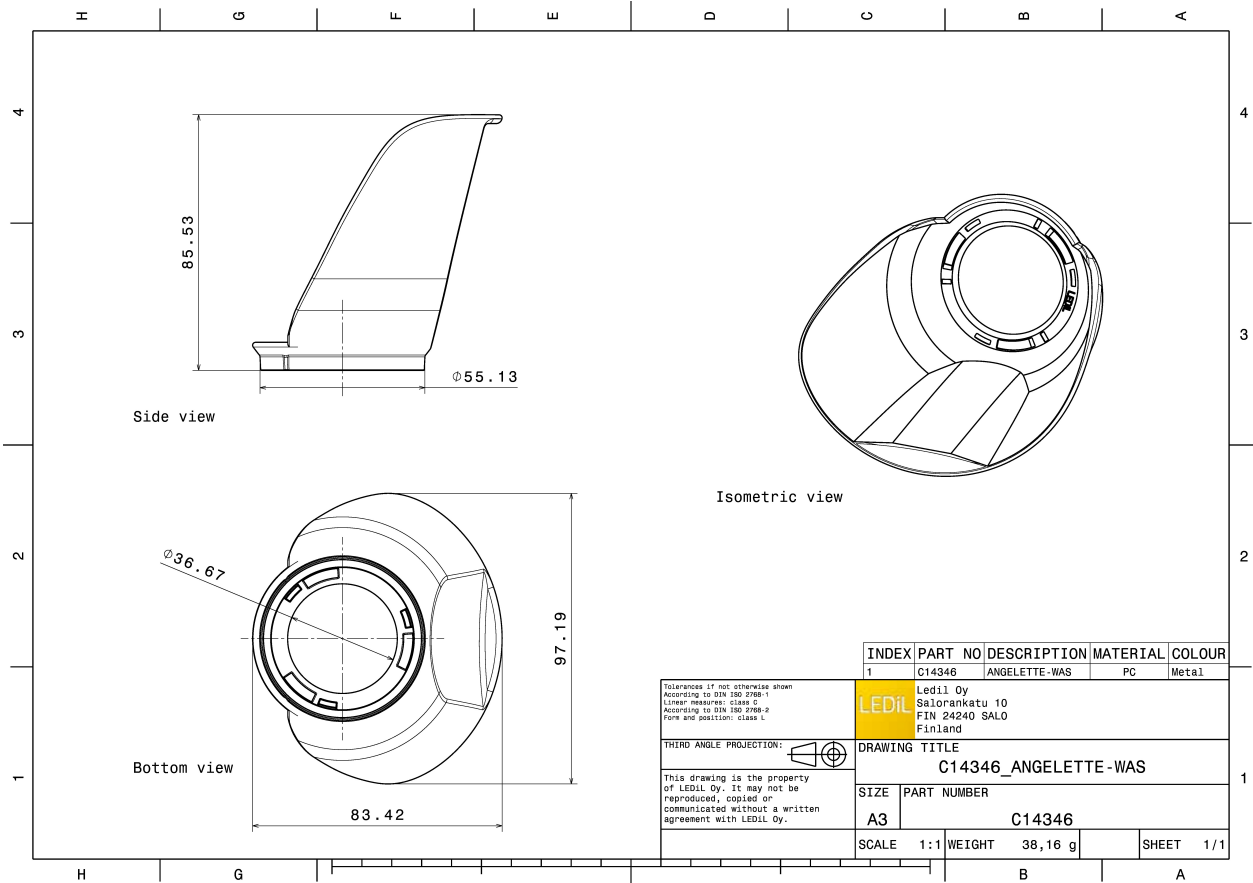
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 97.2 x 83.4 mm
Height	84.1 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	5.4 kg
Quantity in Box	90 pcs
ROHS compliant	yes ⓘ


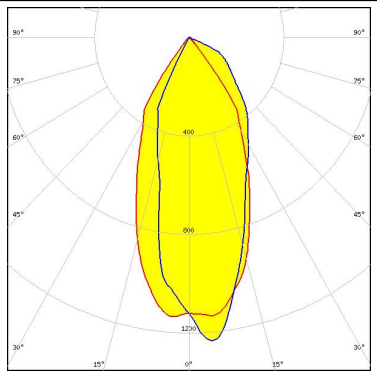

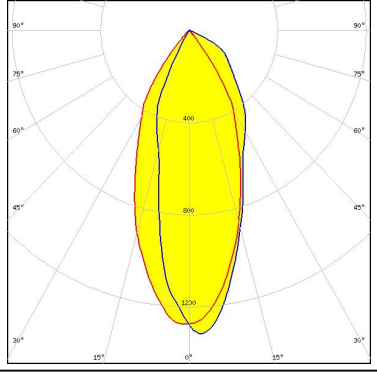
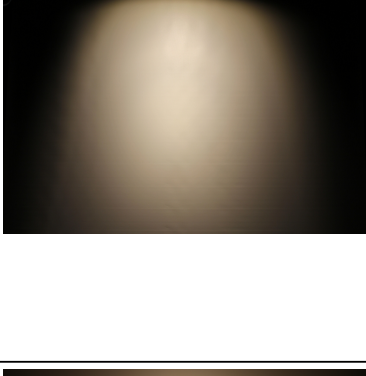
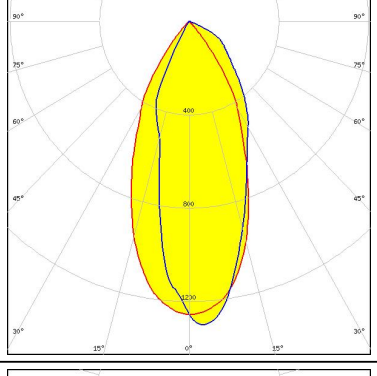

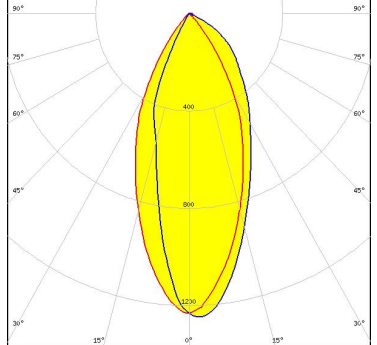


### MATERIAL SPECIFICATIONS:

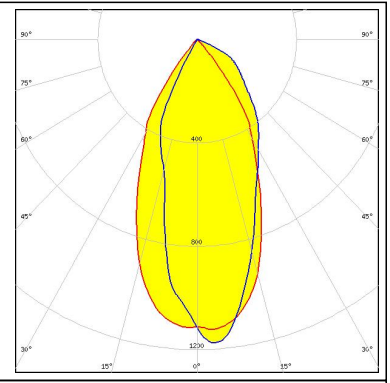
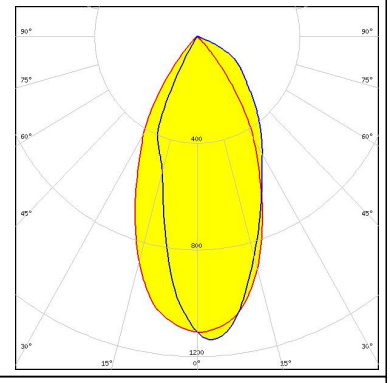

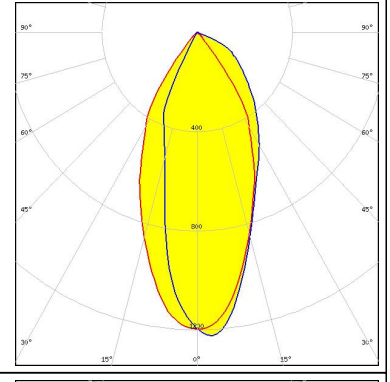
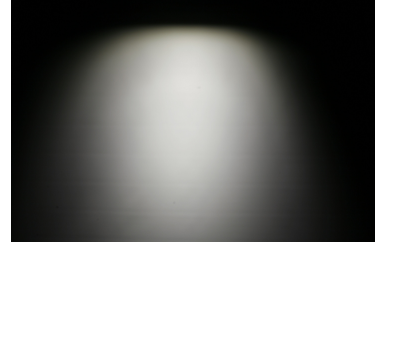
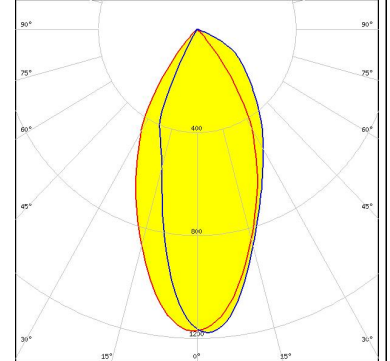
Component	Type	Material	Colour	Coating
ANGELETTE-WAS	Reflector	PC	metal	lacquer




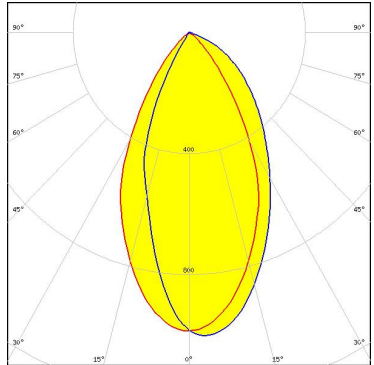

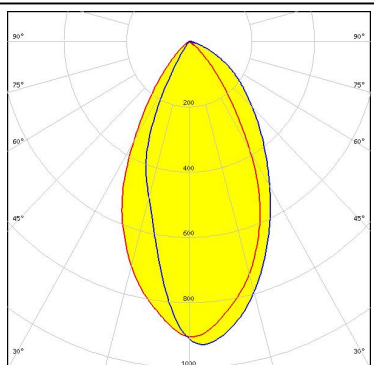
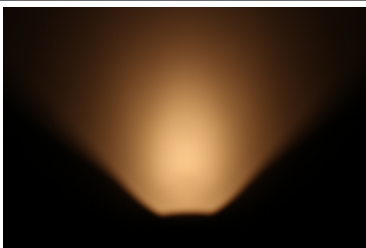
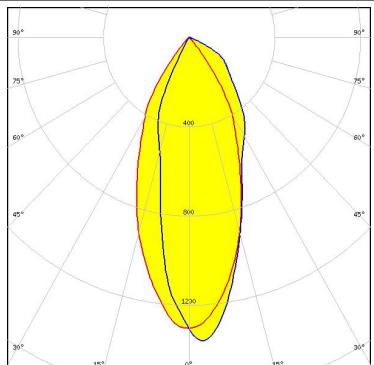

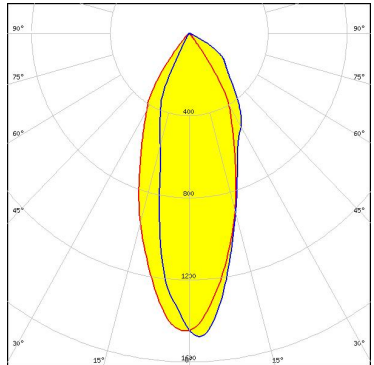
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1</p>		
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 91 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V15 Gen6</p> <p>FWHM Asymmetric</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 456 Typ L2</p>		
<p>bridgelux.</p> <p>LED V22 Gen6</p> <p>FWHM Asymmetric</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: IDEAL: 50-2204-CT + 50-2100AN</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED           Vero SE 13</p> <p>FWHM        Asymmetric</p> <p>Efficiency    91 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components:</p> <p>    C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED           Vero SE 18</p> <p>FWHM        Asymmetric</p> <p>Efficiency    91 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>Required components:</p> <p>    C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED           VERO13</p> <p>FWHM        Asymmetric</p> <p>Efficiency    92 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components:</p> <p>    C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED           VERO18</p> <p>FWHM        Asymmetric</p> <p>Efficiency    94 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components:</p> <p>    C13658_CLAMP-VERO13-18</p>		

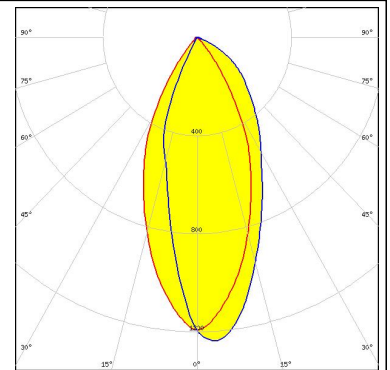
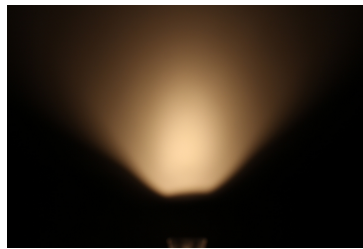
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux</p> <p>LED VERO29            FWHM Asymmetric            Efficiency 92 %            Peak intensity 1.000 cd/lm            Required components:            C13584_CLAMP-VERO29</p>		
<p>bridgelux</p> <p>LED VERO29            FWHM Asymmetric            Efficiency 85 %            Peak intensity 0.930 cd/lm            Required components:            C13584_CLAMP-VERO29            F13671_ANGE-RZ-LENS</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM Asymmetric            Efficiency 91 %            Peak intensity 1.400 cd/lm            Required components:            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM Asymmetric            Efficiency 92 %            Peak intensity 1.500 cd/lm            Required components:            IDEAL: 50-2103CT + 50-2100AN</p>		

#### PHOTOMETRIC DATA (MEASURED):

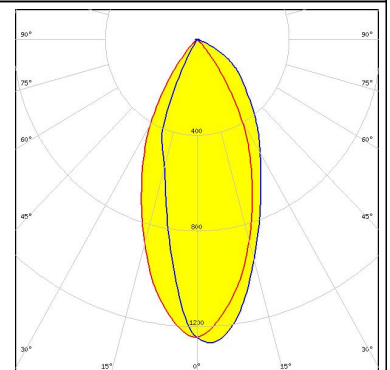
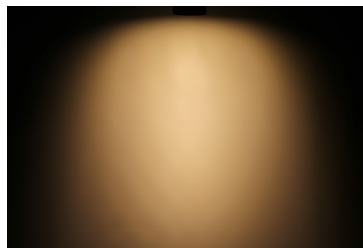
#### CITIZEN

LED CLL04x/CLU04x  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 1.200 cd/lm  
Required components:  
IDEAL: 50-2204-CT + 50-2100AN



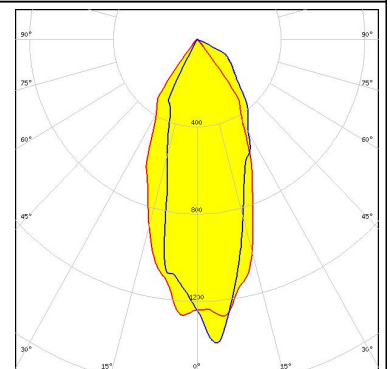
#### CITIZEN

LED CLL04x/CLU04x  
FWHM Asymmetric  
Efficiency 91 %  
Peak intensity 1.300 cd/lm  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 431 Typ L3



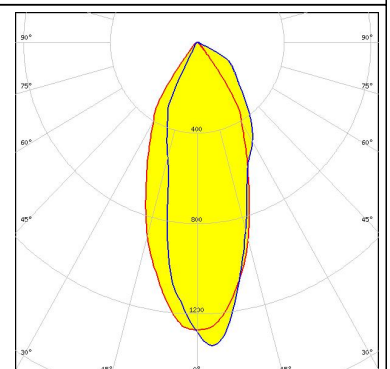
#### CITIZEN

LED CLU700/701  
FWHM Asymmetric  
Efficiency 92 %  
Peak intensity 1.400 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 434 Typ L1



#### CITIZEN

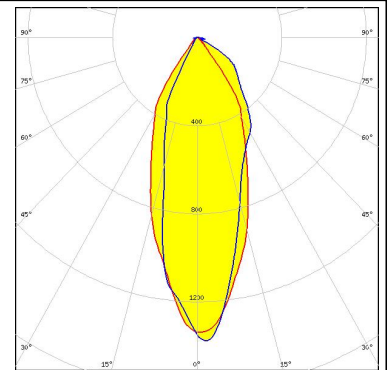
LED CLU720/721  
FWHM Asymmetric  
Efficiency 93 %  
Peak intensity 1.300 cd/lm  
Required components:  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

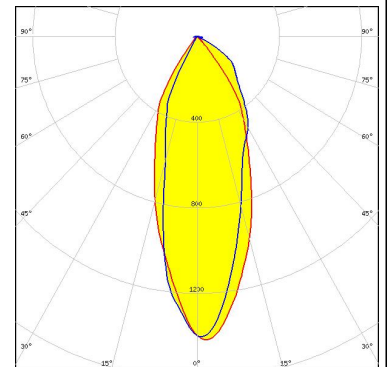
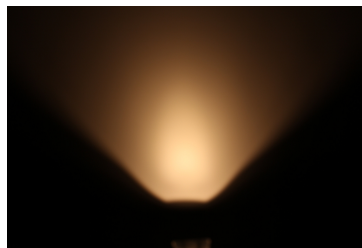
#### CITIZEN

LED CLU720/721  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



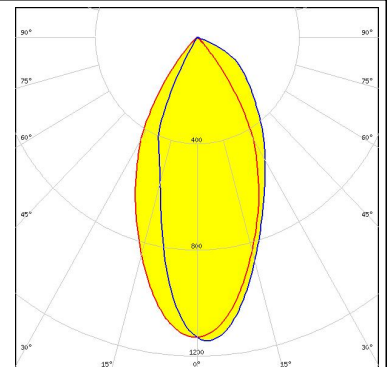
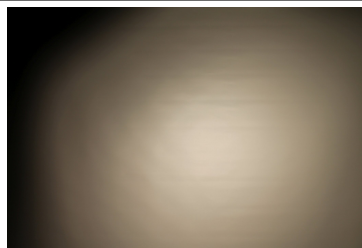
#### CITIZEN

LED CLU730/731  
 FWHM Asymmetric  
 Efficiency 88 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



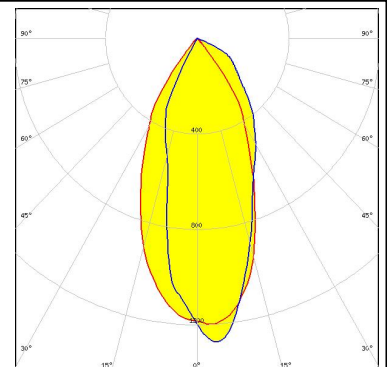
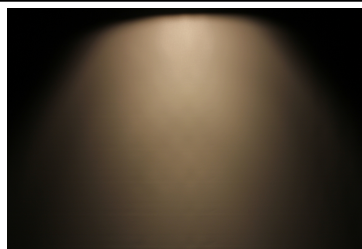
#### CREE

LED CMA2550  
 FWHM Asymmetric  
 Efficiency 93 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30



#### CREE

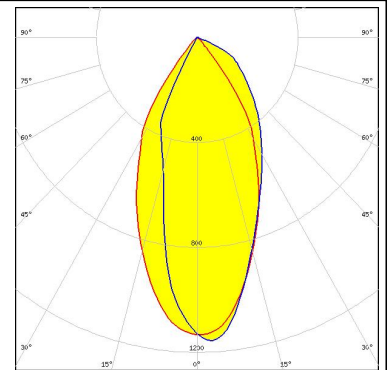
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



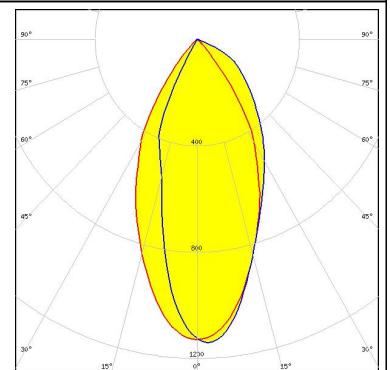
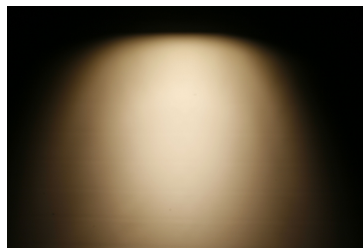
#### PHOTOMETRIC DATA (MEASURED):



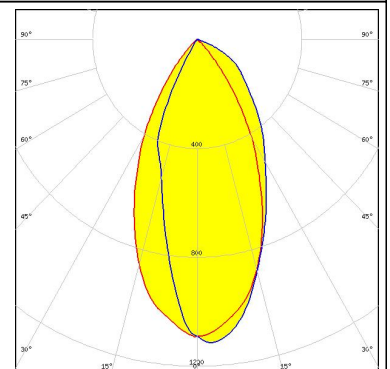
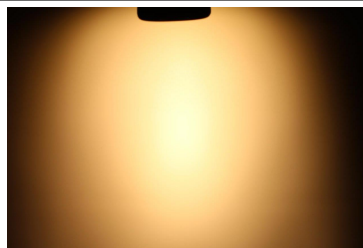
LED CXA/B 1830  
FWHM Asymmetric  
Efficiency 92 %  
Peak intensity 1.160 cd/lm  
Required components:  
C14123\_CLAMP-CXA15-18



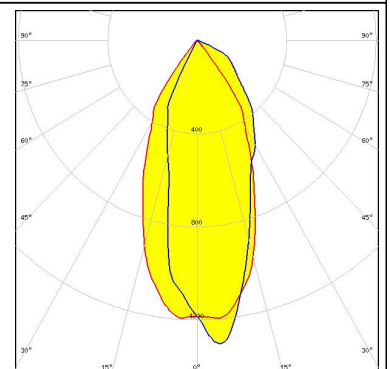
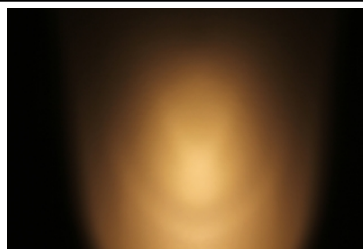
LED CXA/B 25xx  
FWHM Asymmetric  
Efficiency 92 %  
Peak intensity 1.100 cd/lm  
Required components:  
C14036\_CLAMP\_CXA25-30



LED CXA/B 30xx  
FWHM Asymmetric  
Efficiency 91 %  
Peak intensity 1.100 cd/lm  
Required components:  
C14036\_CLAMP\_CXA25-30



LED LUXEON CoB 1202/1203  
FWHM Asymmetric  
Efficiency 92 %  
Peak intensity 1.300 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 438 Typ L1

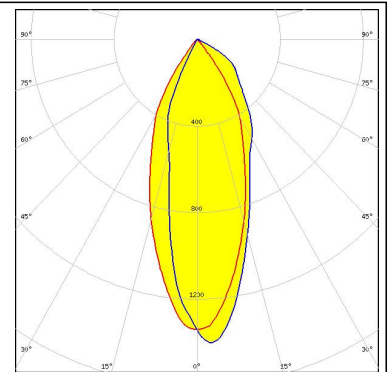
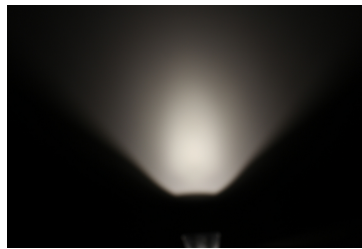




#### PHOTOMETRIC DATA (MEASURED):

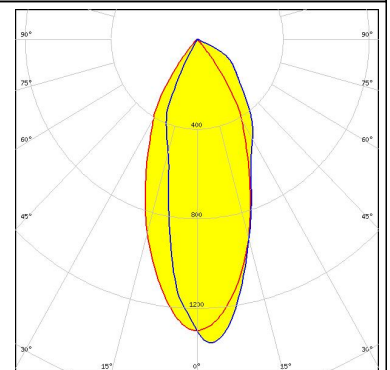
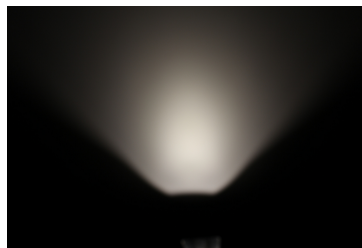
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM Asymmetric  
 Efficiency 89 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 IDEAL: 50-2100SH + 50-2100AN



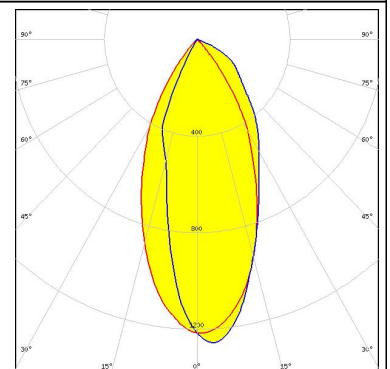
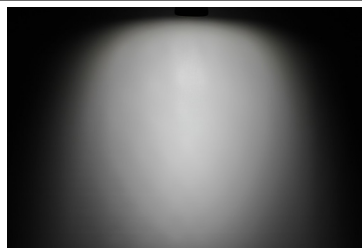
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 TE: 2213130-2



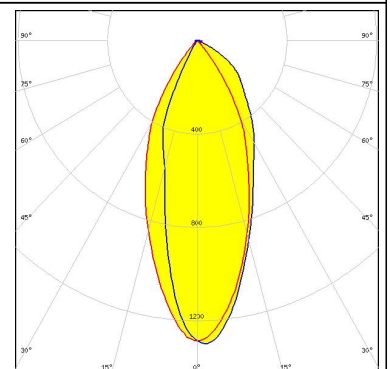
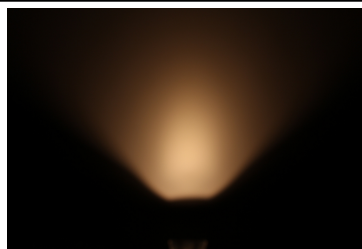
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



#### LUMILEDS

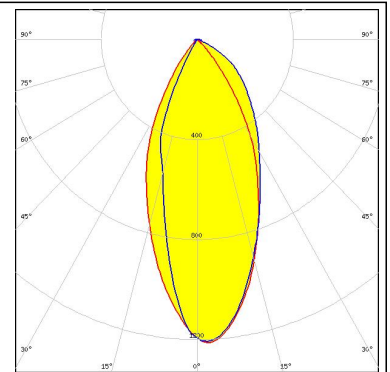
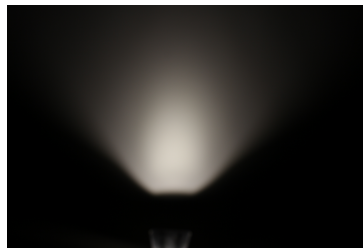
LED LUXEON CoB 1211  
 FWHM Asymmetric  
 Efficiency 88 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



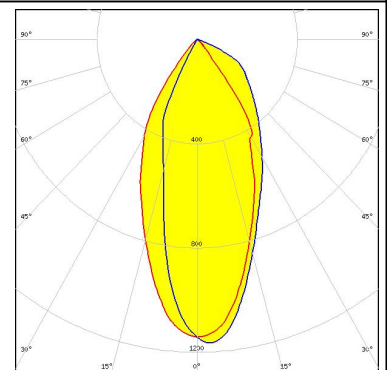
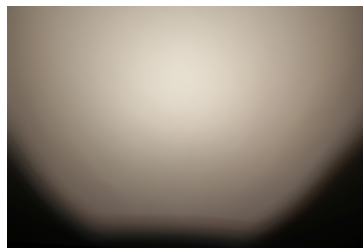
#### PHOTOMETRIC DATA (MEASURED):



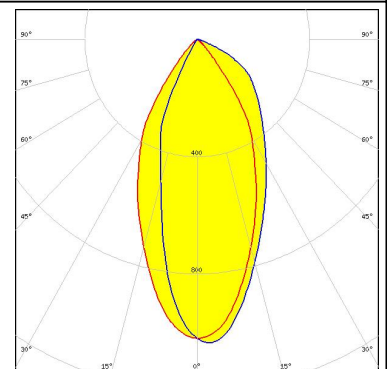
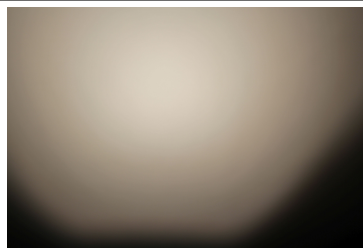
LED LUXEON CoB 1216/1812  
 FWHM Asymmetric  
 Efficiency 89 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 IDEAL: 50-2204CT + 50-2100LN



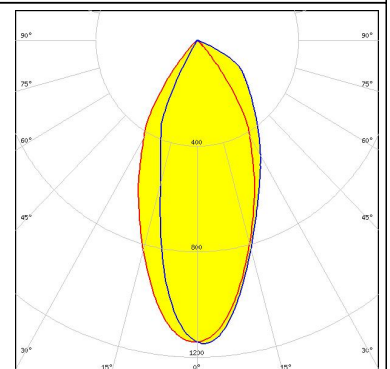
LED CDM-14 (Dim-To-Warm)  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



LED CDM-14 (Dim-To-Warm)  
 FWHM Asymmetric  
 Efficiency 87 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



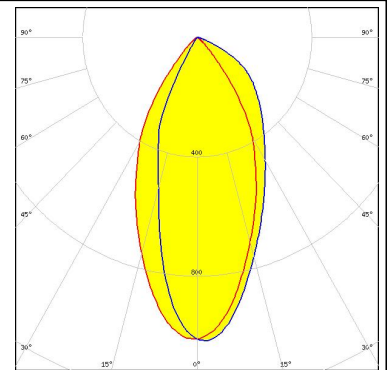
LED CDM-18 (Dim-To-Warm)  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 1.150 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



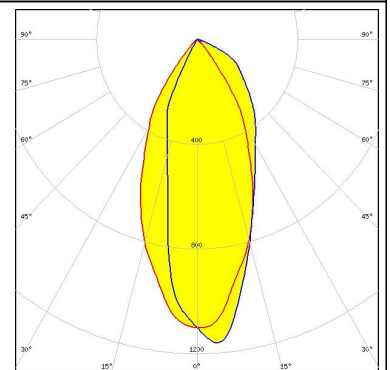
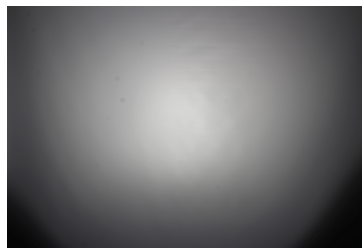
#### PHOTOMETRIC DATA (MEASURED):



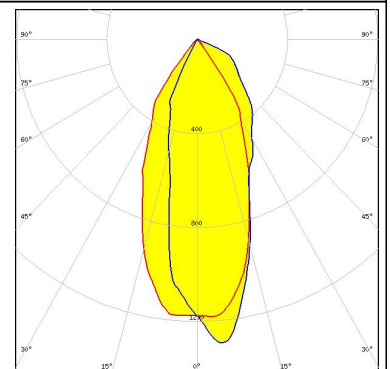
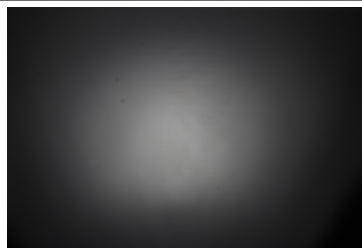
LED CDM-18 (Dim-To-Warm)  
 FWHM Asymmetric  
 Efficiency 87 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



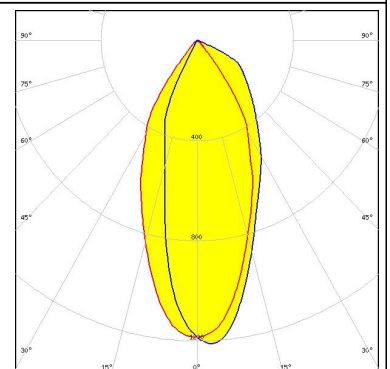
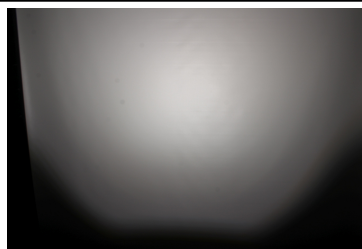
LED CDM-9 (Dim-To-Warm)  
 FWHM Asymmetric  
 Efficiency 85 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 490 Typ L1



LED CDM-9 (Dim-To-Warm)  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 490 Typ L1



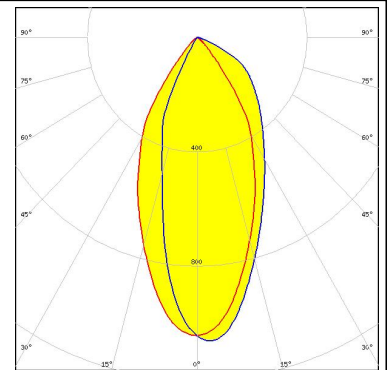
LED CTM-14 (Tunable White)  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 442 Typ L3



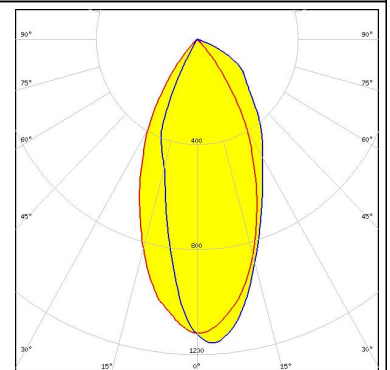
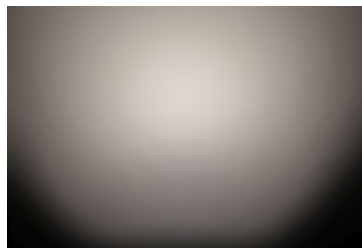
#### PHOTOMETRIC DATA (MEASURED):



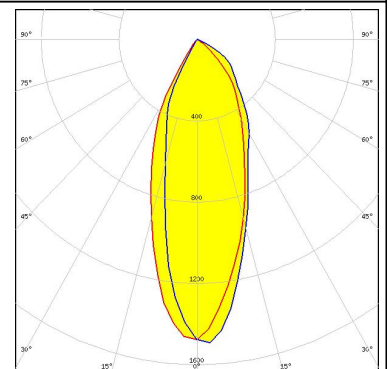
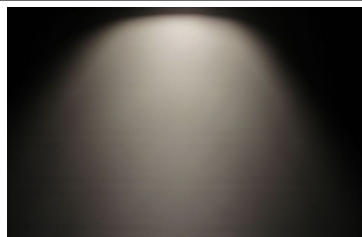
LED CTM-14 (Tunable White)  
 FWHM Asymmetric  
 Efficiency 87 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 442 Typ L3



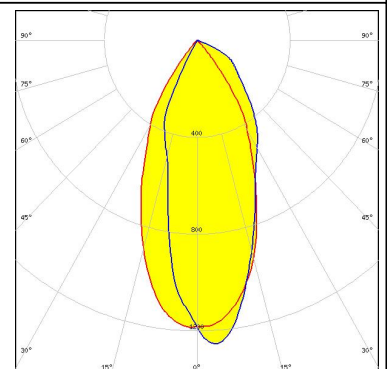
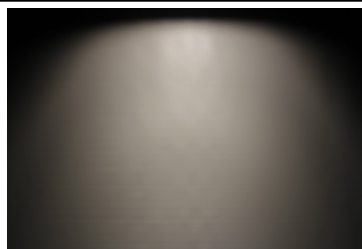
LED CTM-22 (Tunable White)  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 1.160 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



LED COB J-Type  
 FWHM Asymmetric  
 Efficiency 89 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 IDEAL: 50-2103NC + 50-2100AN



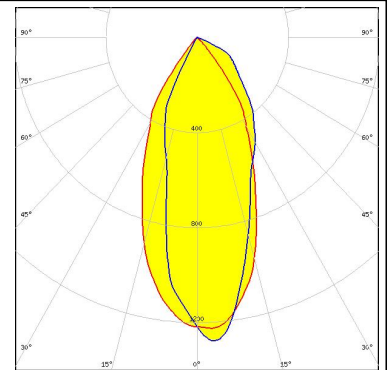
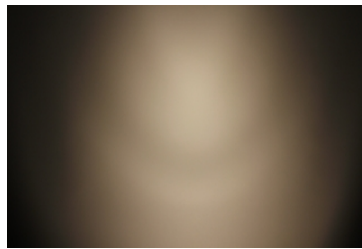
LED COB J-Type  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 463 Typ L2



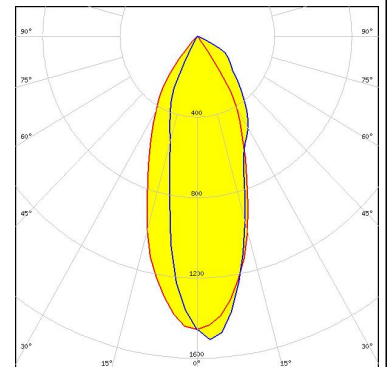
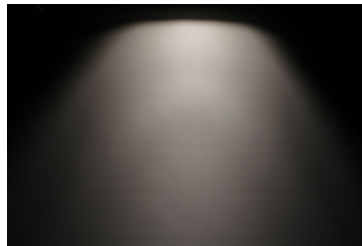
#### PHOTOMETRIC DATA (MEASURED):



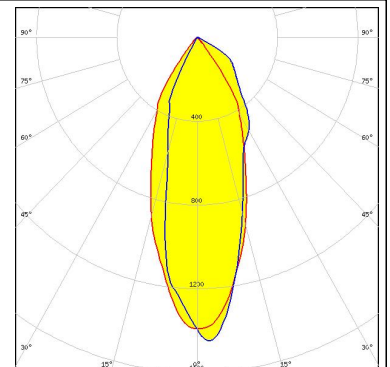
LED COB L-Type (LES 11)  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



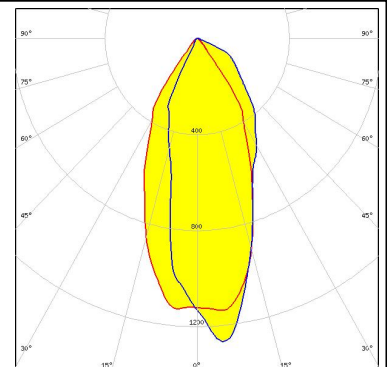
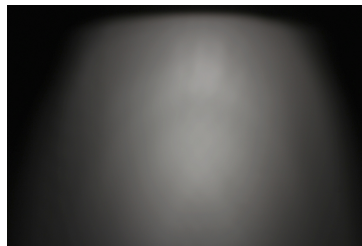
LED COB L-Type (LES 11)  
 FWHM Asymmetric  
 Efficiency 93 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 11)  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 IDEAL: 50-2100NC + 50-2100AN



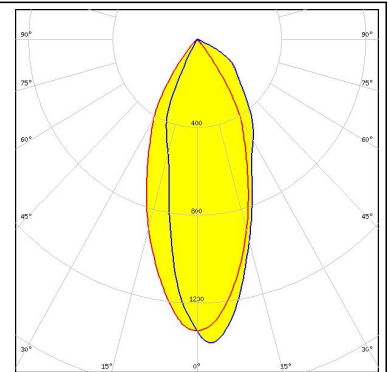
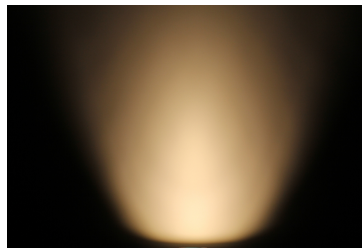
LED COB L-Type (LES 9)  
 FWHM Asymmetric  
 Efficiency 93 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

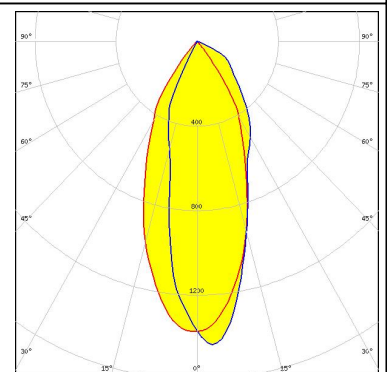
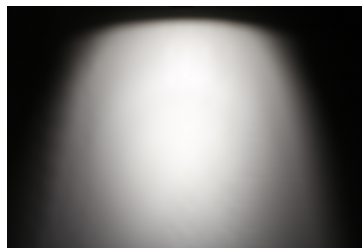
LED PrevaLED Core Z4 LES19  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

Opto Semiconductors

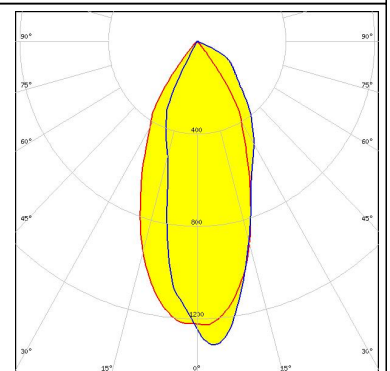
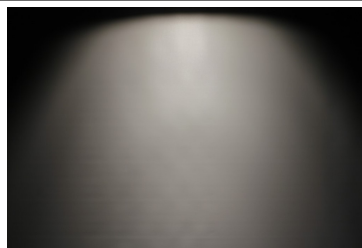
LED Soleriq S13  
 FWHM Asymmetric  
 Efficiency 93 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

Opto Semiconductors

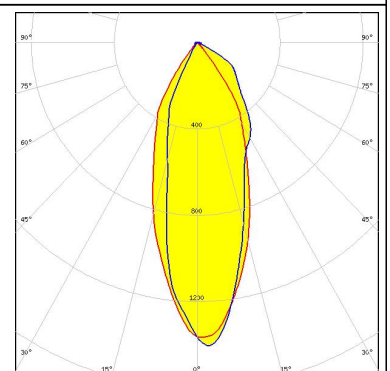
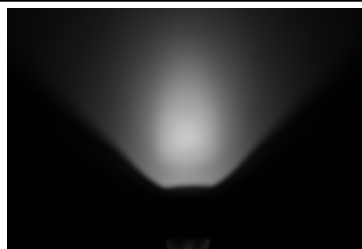
LED Soleriq S13  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



#### OSRAM

Opto Semiconductors

LED Soleriq S13 Gen2  
 FWHM Asymmetric  
 Efficiency 89 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



#### PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

LED Soleriq S13 Gen2

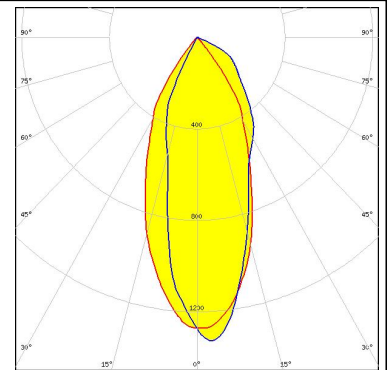
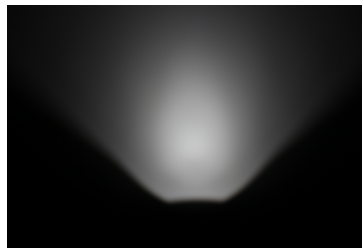
FWHM Asymmetric

Efficiency 91 %

Peak intensity 1.300 cd/lm

Required components:

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



**OSRAM**  
Opto Semiconductors

LED Soleriq S19

FWHM Asymmetric

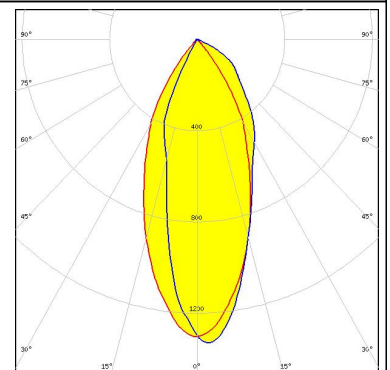
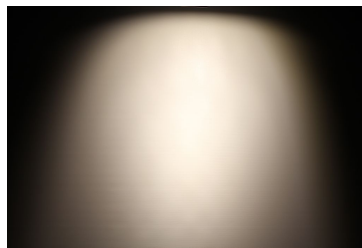
Efficiency 91 %

Peak intensity 1.300 cd/lm

Required components:

C13584\_CLAMP-VERO29

Bender Wirth: 462 Typ L3



**OSRAM**  
Opto Semiconductors

LED Soleriq S19

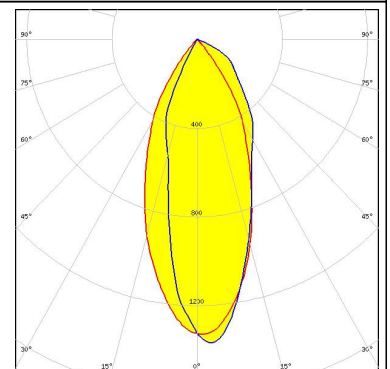
FWHM Asymmetric

Efficiency 93 %

Peak intensity 1.400 cd/lm

Required components:

TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



**PHILIPS**

LED Fortimo SLM L09 Standard

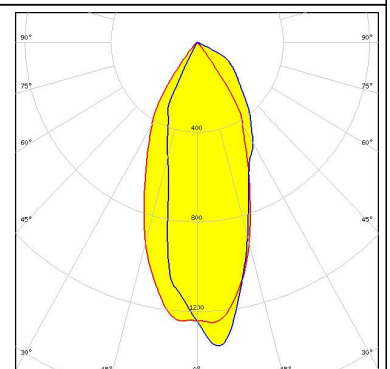
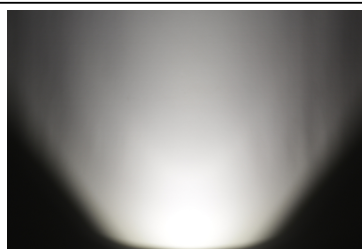
FWHM Asymmetric

Efficiency 91 %

Peak intensity 1.360 cd/lm

Required components:

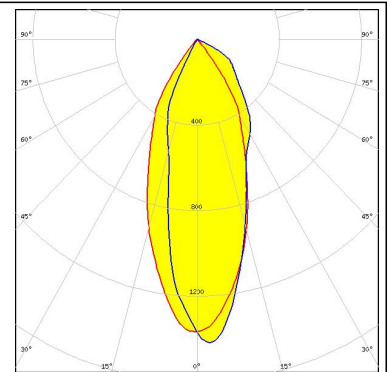
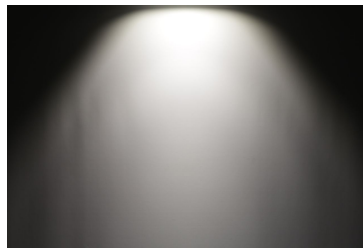
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

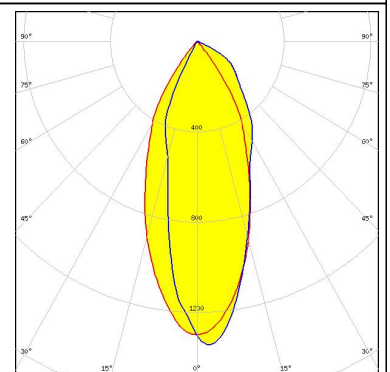
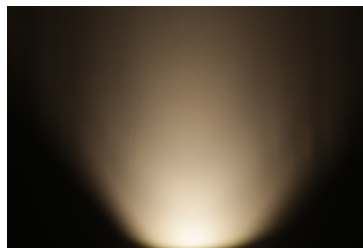
### PHILIPS

LED Fortimo SLM L13 Standard  
FWHM Asymmetric  
Efficiency 91 %  
Peak intensity 1.420 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



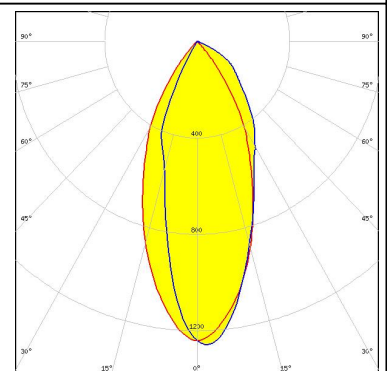
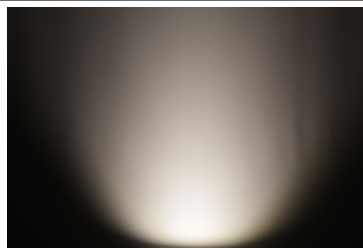
### PHILIPS

LED Fortimo SLM L15 Standard  
FWHM Asymmetric  
Efficiency 90 %  
Peak intensity 1.350 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



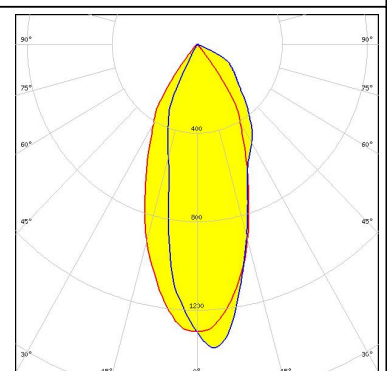
### PHILIPS

LED Fortimo SLM L19 Standard  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 1.260 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1





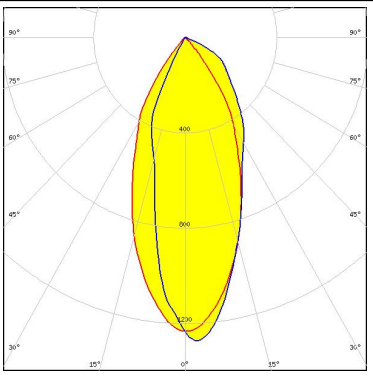


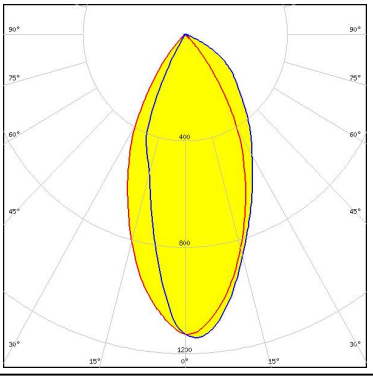

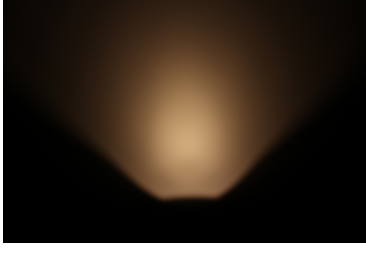
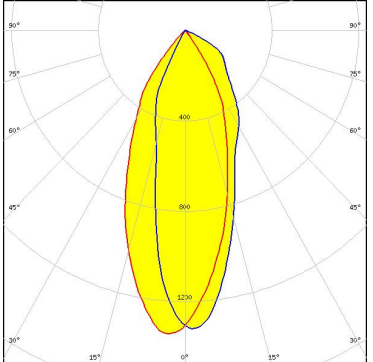
### SAMSUNG

LED LC040C  
FWHM Asymmetric  
Efficiency 91 %  
Peak intensity 1.400 cd/lm  
Required components:  
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1





#### PHOTOMETRIC DATA (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 14.5 FWHM Asymmetric Efficiency 91 % Peak intensity 1.300 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22 FWHM Asymmetric Efficiency 89 % Peak intensity 1.100 cd/lm Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3</p>		
<p> LIGHTING SOLUTIONS</p> <p>LED WU-M-484 FWHM Asymmetric Efficiency 88 % Peak intensity 1.400 cd/lm Required components: TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		

#### PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.310 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.600 cd/lm</p> <p>Required components: IDEAL: 50-2103CT + 50-2100AN</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.330 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V22 Gen7</p> <p>FWHM Asymmetric</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.248 cd/lm</p> <p>Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3</p>	

#### PHOTOMETRIC DATA (SIMULATED):

#### TRIDONIC

LED SLE G6 LES15

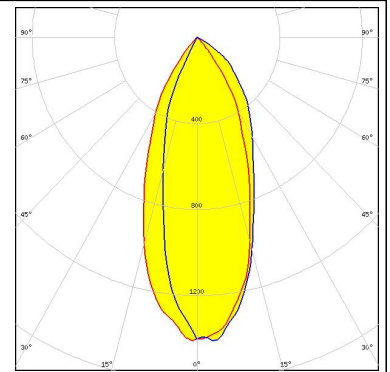
FWHM Asymmetric

Efficiency 91 %

Peak intensity 1.400 cd/lm

Required components:

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



#### TRIDONIC

LED SLE G6 LES17

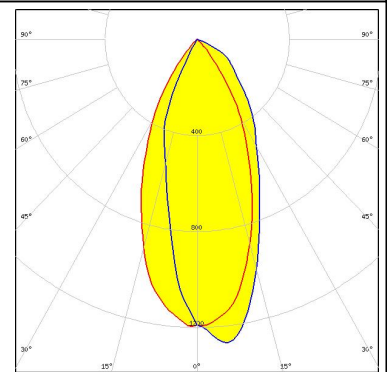
FWHM Asymmetric

Efficiency 88 %

Peak intensity 1.280 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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