



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

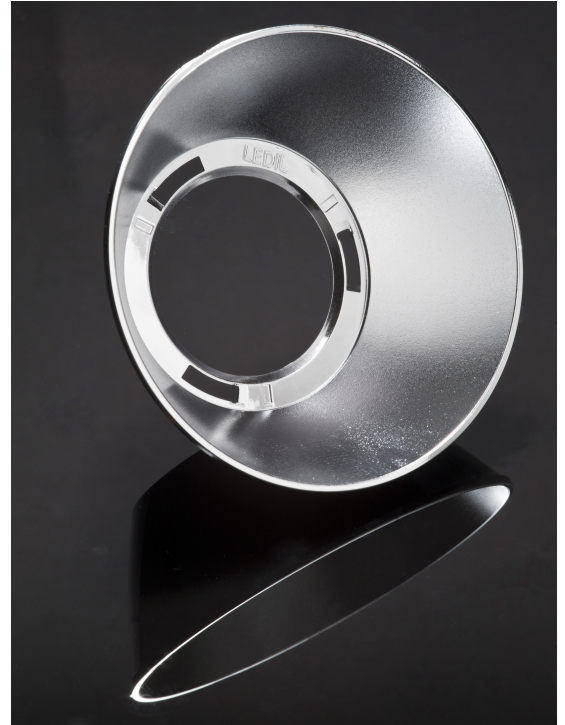


## ANGELINA-S

~20° spot beam

### TECHNICAL SPECIFICATIONS:

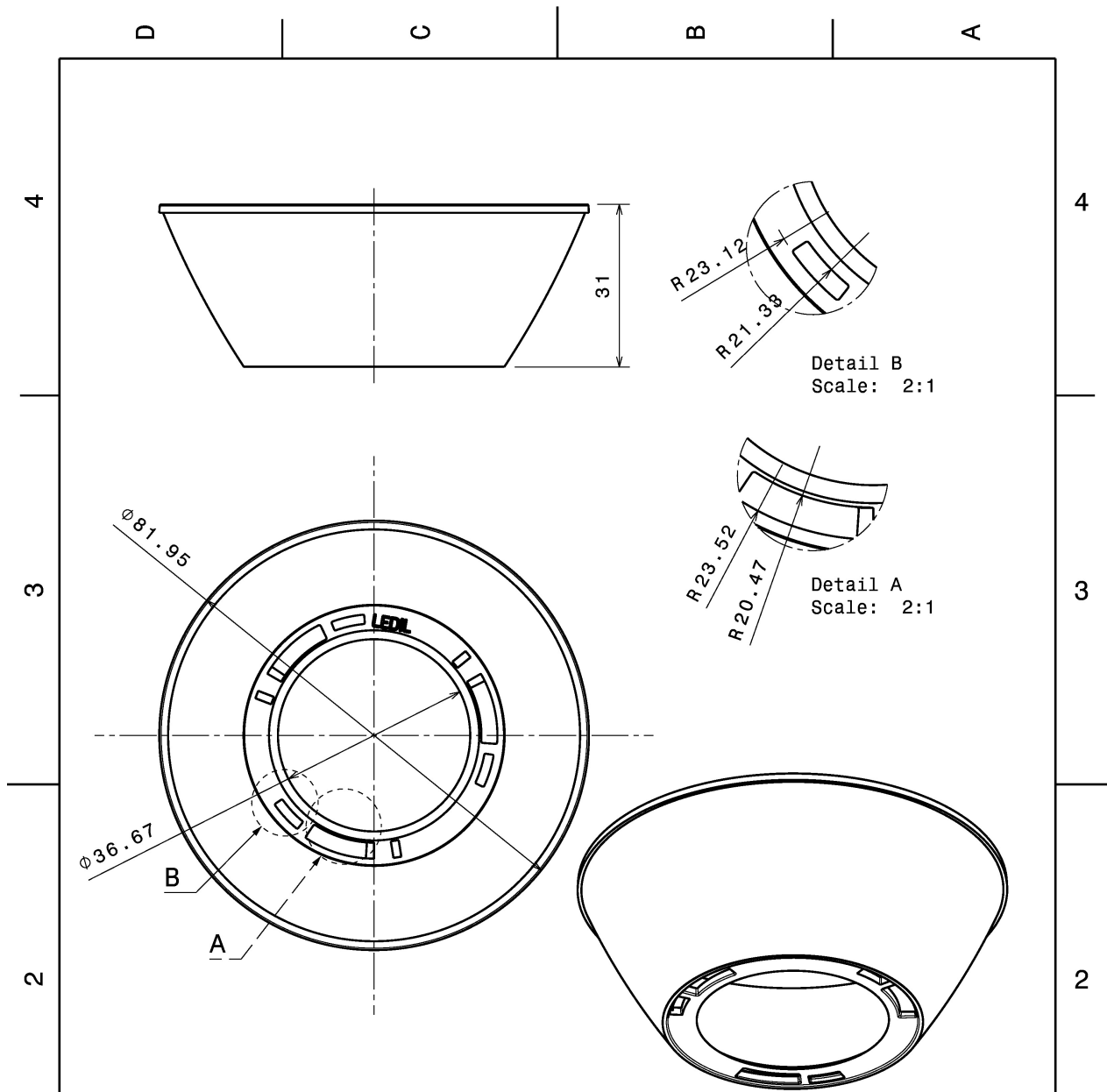
Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	12.7 kg
Quantity in Box	900 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

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





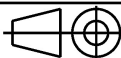
INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA	PC	metal

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L



Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE

**ANGELINA series Reflector**

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SIZE PART NUMBER

A4


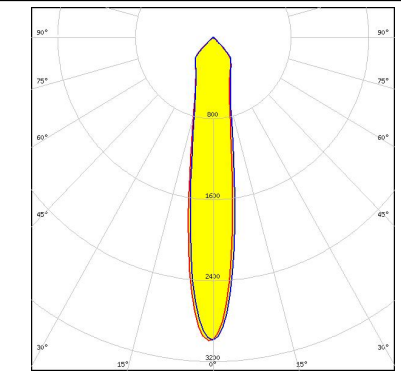
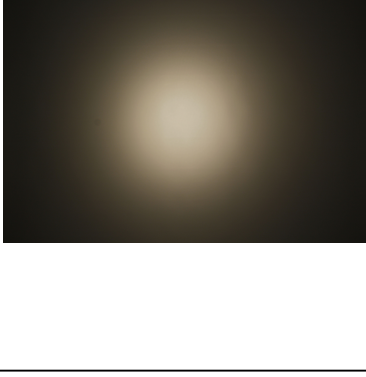
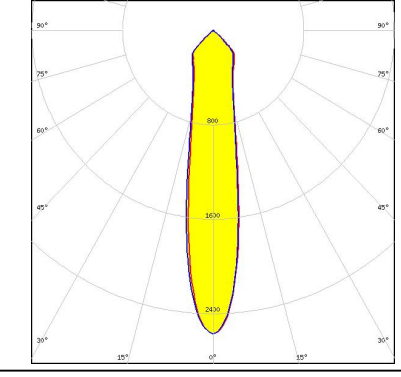
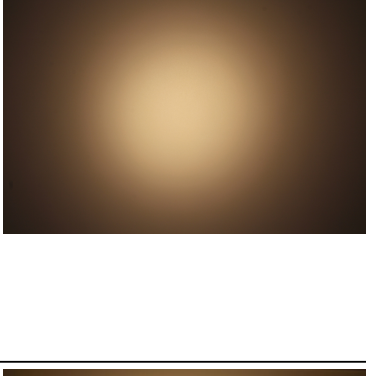

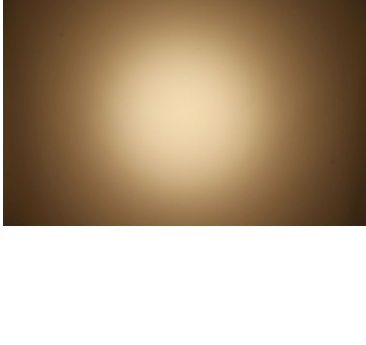
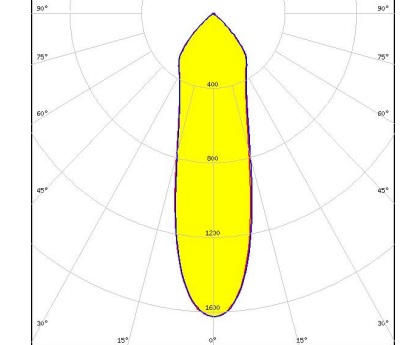
-

SCALE 1:1 WEIGHT

-


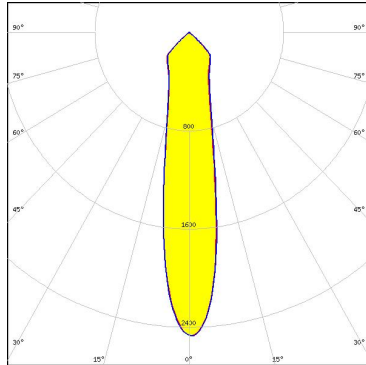
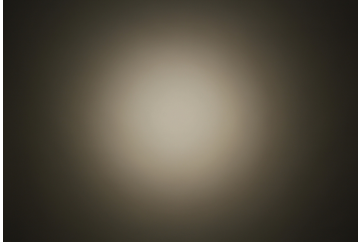
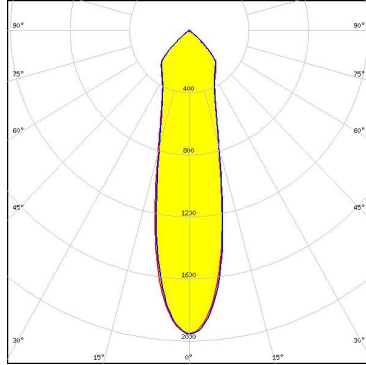

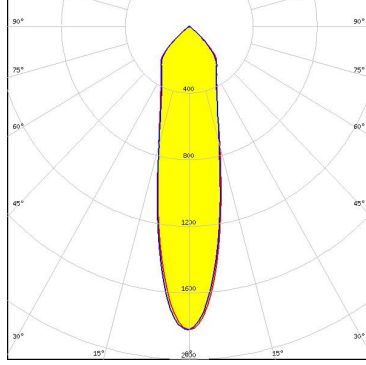

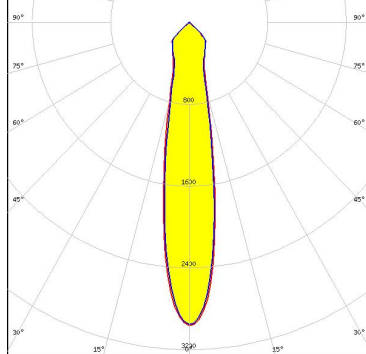
SHEET 1/1

#### PHOTOMETRIC DATA (MEASURED):


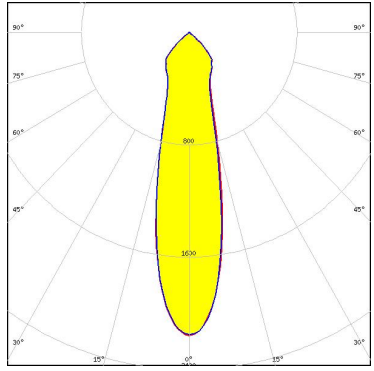
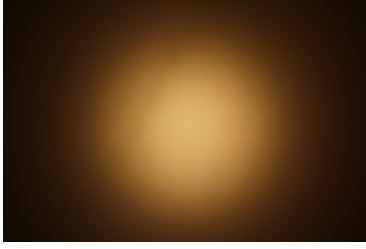
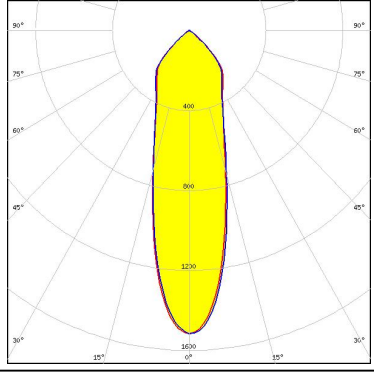
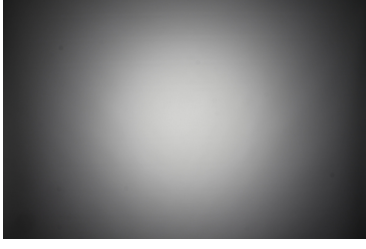
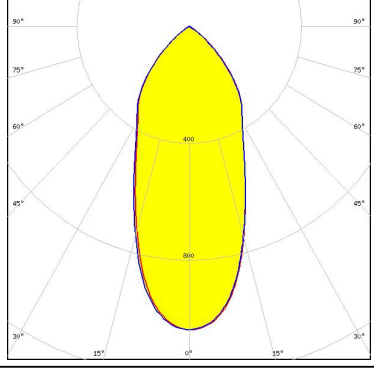

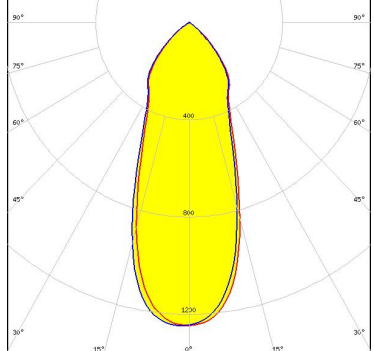
<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 17.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>Required components: IDEAL: 50-2100BL + 50-2100AN</p>		
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 20.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 2.600 cd/lm</p> <p>Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V15 Gen6</p> <p>FWHM 23.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.400 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 29.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.600 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        20.0°</p> <p>Efficiency    94 %</p> <p>Peak intensity 2.500 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        26.0°</p> <p>Efficiency    94 %</p> <p>Peak intensity 2.000 cd/lm</p> <p>Required components:</p> <p>    C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED           VERO13</p> <p>FWHM        25.0°</p> <p>Efficiency    88 %</p> <p>Peak intensity 1.820 cd/lm</p> <p>Required components:</p> <p>    C13658_CLAMP-VERO13-18</p> <p>    F13671_ANGE-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED           VERO13</p> <p>FWHM        20.0°</p> <p>Efficiency    93 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>Required components:</p> <p>    C13658_CLAMP-VERO13-18</p>		

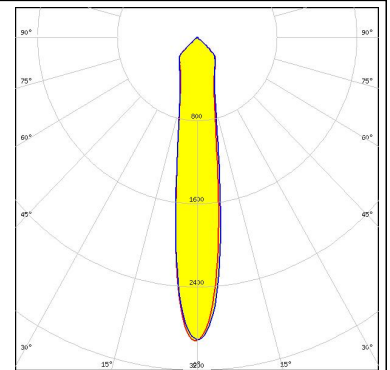
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 25.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 2.200 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 29.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.520 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 44.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.040 cd/lm</p> <p>Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 39.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: C13584_CLAMP-VERO29</p>		

#### PHOTOMETRIC DATA (MEASURED):

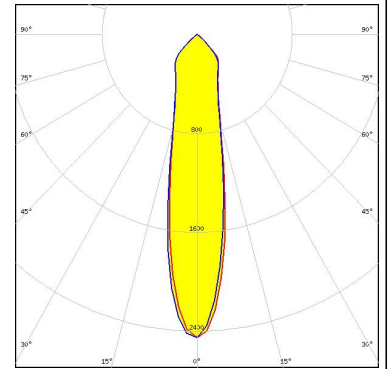
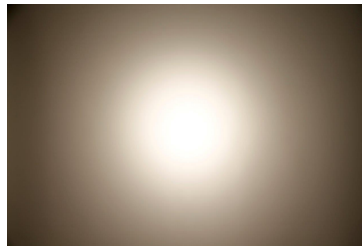
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 17.0°  
 Efficiency 93 %  
 Peak intensity 2.900 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



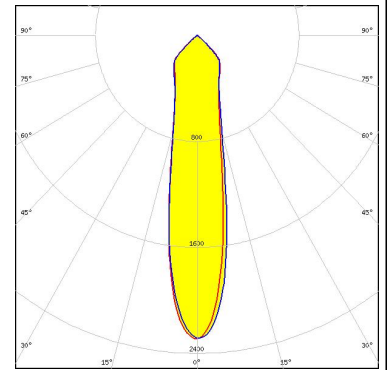
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 22.0°  
 Efficiency 94 %  
 Peak intensity 2.450 cd/lm  
 Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



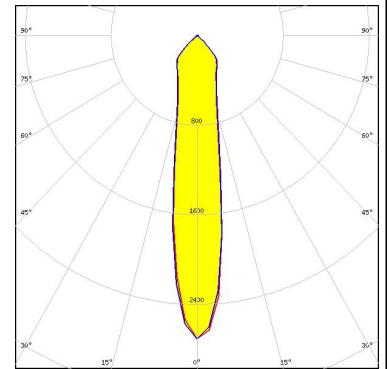
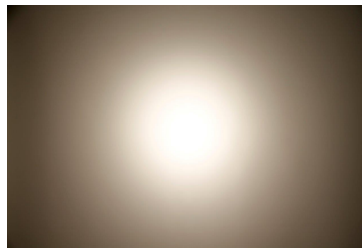
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 21.0°  
 Efficiency 92 %  
 Peak intensity 2.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 433 Typ L1



#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 19.0°  
 Efficiency 94 %  
 Peak intensity 2.710 cd/lm  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN

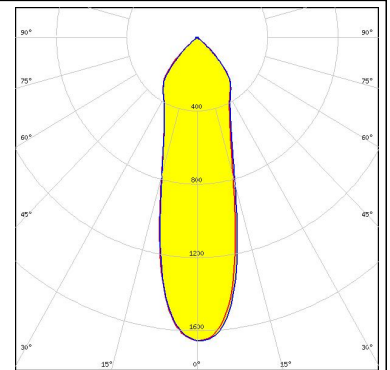
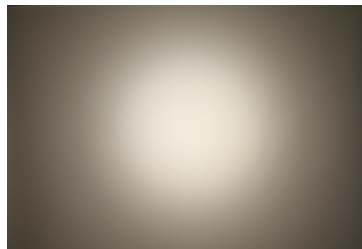




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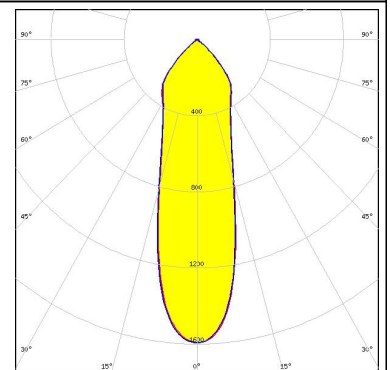
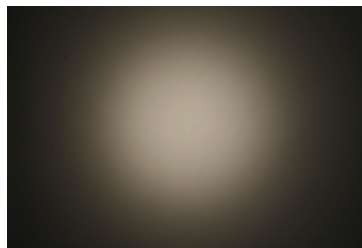
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 29.0°  
 Efficiency 93 %  
 Peak intensity 1.700 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



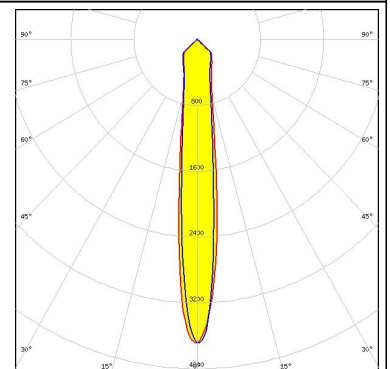
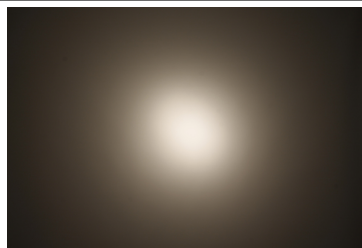
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 30.0°  
 Efficiency 92 %  
 Peak intensity 1.600 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



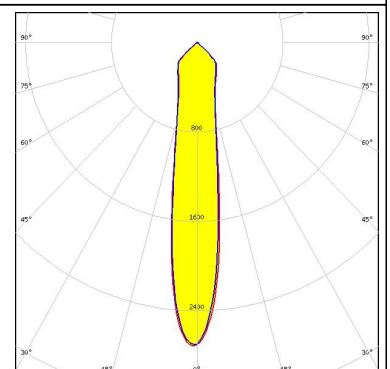
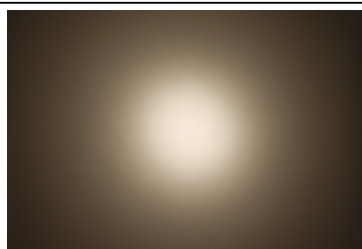
#### CITIZEN

LED CLU700/701  
 FWHM 14.0°  
 Efficiency 93 %  
 Peak intensity 3.700 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 434 Typ L1



#### CITIZEN

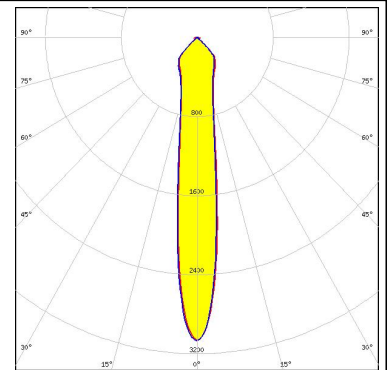
LED CLU720/721  
 FWHM 18.0°  
 Efficiency 92 %  
 Peak intensity 2.700 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18



#### PHOTOMETRIC DATA (MEASURED):

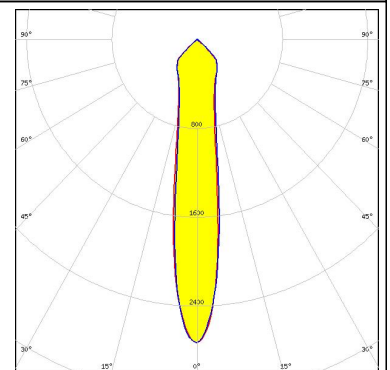
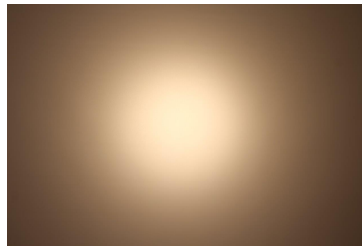
#### CITIZEN

LED CLU720/721  
 FWHM 15.0°  
 Efficiency 94 %  
 Peak intensity 3.100 cd/lm  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



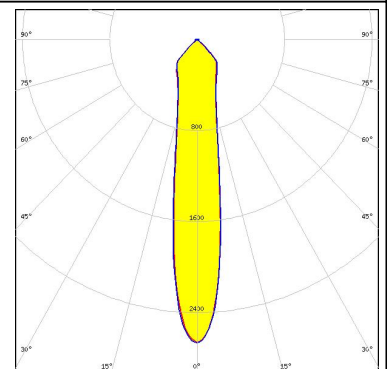
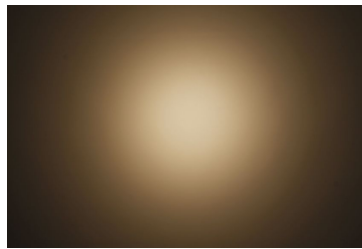
#### CITIZEN

LED CLU720/721  
 FWHM 17.0°  
 Efficiency 94 %  
 Peak intensity 2.700 cd/lm  
 Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



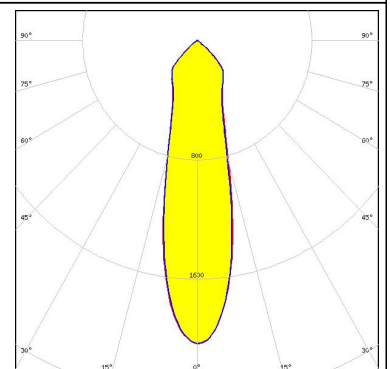
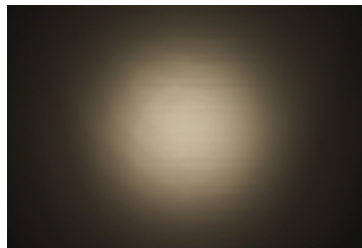
#### CITIZEN

LED CLU730/731  
 FWHM 18.0°  
 Efficiency 92 %  
 Peak intensity 2.700 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



#### CREE

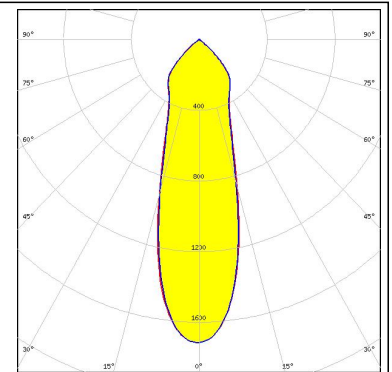
LED CMA2550  
 FWHM 26.0°  
 Efficiency 94 %  
 Peak intensity 2.000 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30



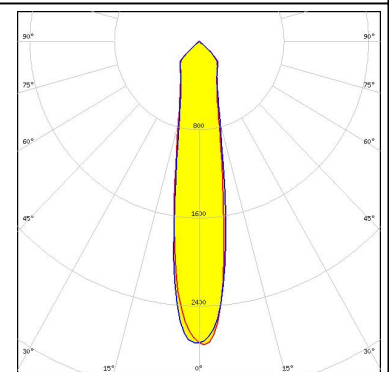
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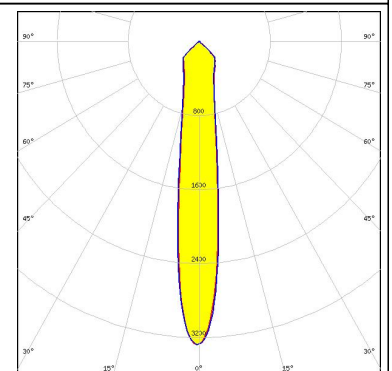
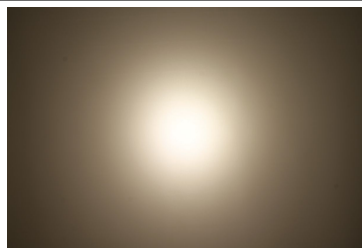
LED CMA3090  
 FWHM 30.0°  
 Efficiency 94 %  
 Peak intensity 1.700 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30



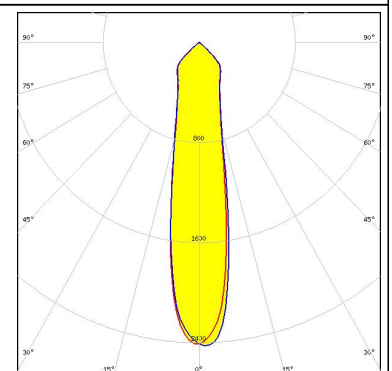
LED CXA/B 15xx  
 FWHM 20.0°  
 Efficiency 94 %  
 Peak intensity 2.800 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18



LED CXA/B 15xx  
 FWHM 15.0°  
 Efficiency 93 %  
 Peak intensity 3.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 441 Typ L1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 22.0°  
 Efficiency 94 %  
 Peak intensity 2.400 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18

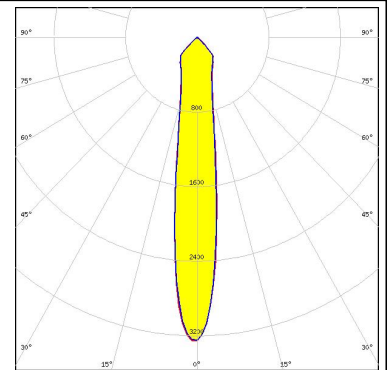




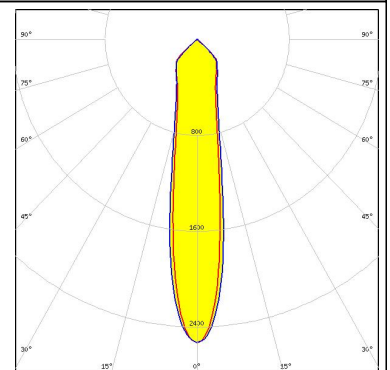
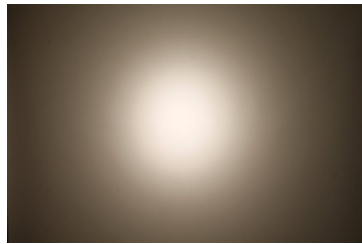
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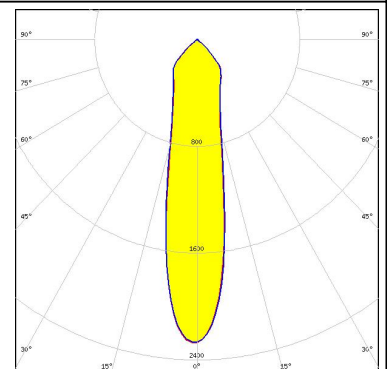
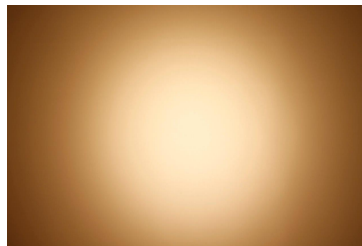
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 16.0°  
 Efficiency 94 %  
 Peak intensity 3.290 cd/lm  
 Required components:  
 IDEAL: 50-2101CR + 50-2100AN



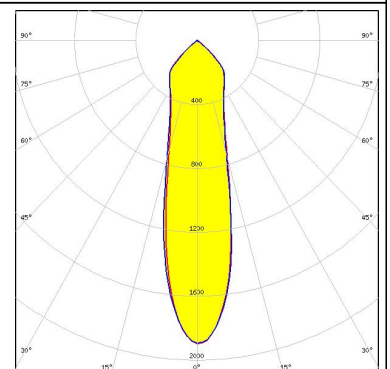
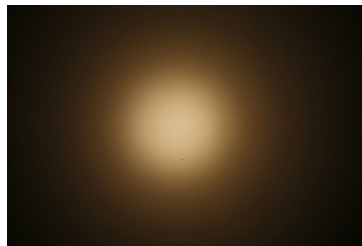
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 19.0°  
 Efficiency 93 %  
 Peak intensity 2.500 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



LED CXA/B 25xx  
 FWHM 22.0°  
 Efficiency 94 %  
 Peak intensity 2.280 cd/lm  
 Required components:  
 IDEAL: 50-2102CR + 50-2100AN



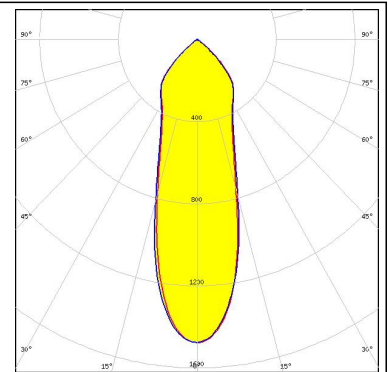
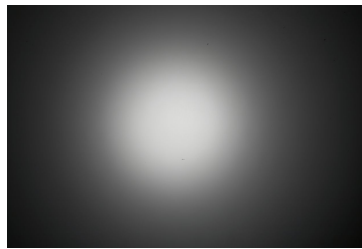
LED CXA/B 25xx  
 FWHM 25.0°  
 Efficiency 93 %  
 Peak intensity 1.900 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30



#### PHOTOMETRIC DATA (MEASURED):

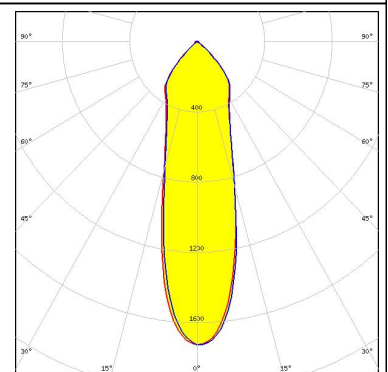
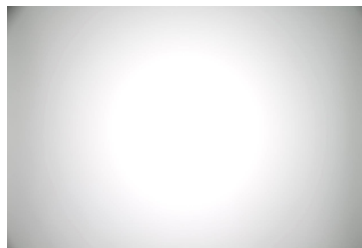
**CREE** 

LED CXA/B 30xx  
 FWHM 32.0°  
 Efficiency 92 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30



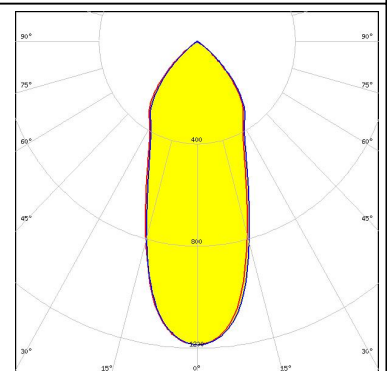
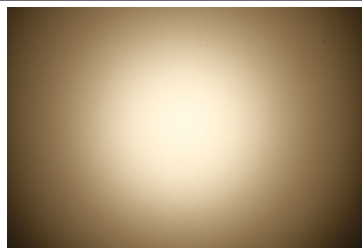
**CREE** 

LED CXA/B 30xx  
 FWHM 28.0°  
 Efficiency 94 %  
 Peak intensity 1.730 cd/lm  
 Required components:  
 IDEAL: 50-2234C + 50-2100AN



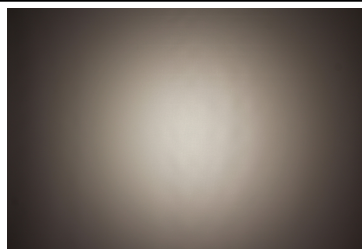
**CREE** 

LED CXA/B 3590  
 FWHM 40.0°  
 Efficiency 93 %  
 Peak intensity 1.190 cd/lm  
 Required components:  
 IDEAL: 50-2303CR + 50-2300AN



**EVERLIGHT**

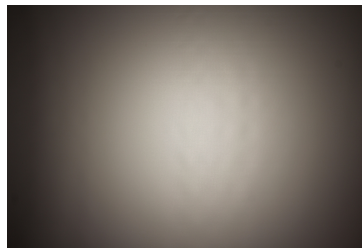
LED CHI3030 19W  
 FWHM 29.0°  
 Efficiency 88 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 468 Typ L3



#### PHOTOMETRIC DATA (MEASURED):

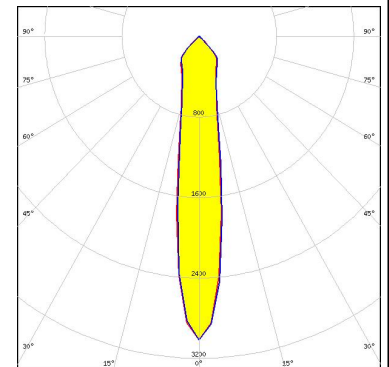
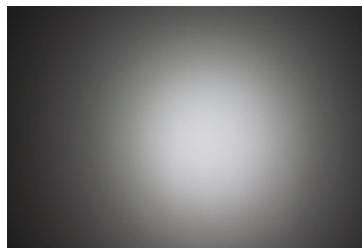
#### EVERLIGHT

LED CHI3030 29W  
FWHM 39.0°  
Efficiency 88 %  
Peak intensity 1.300 cd/lm  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 468 Typ L3



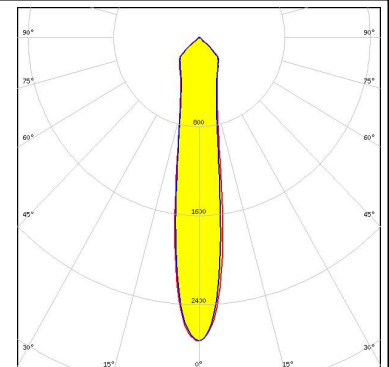
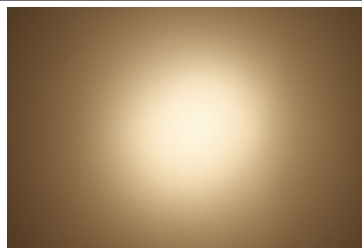
#### LG Innotek

LED COB 10W/13W/17W/24W  
FWHM 17.0°  
Efficiency 94 %  
Peak intensity 3.020 cd/lm  
Required components:  
IDEAL: 50-2100LG + 50-2100AN



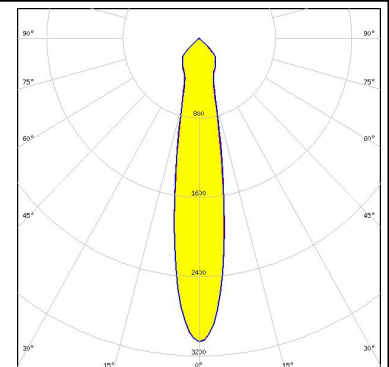
#### LUMILEDS

LED LUXEON CoB 1202/1203  
FWHM 18.0°  
Efficiency 93 %  
Peak intensity 2.800 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 438 Typ L1



#### LUMILEDS

LED LUXEON CoB 1204/1205  
FWHM 19.0°  
Efficiency 94 %  
Peak intensity 3.100 cd/lm  
Required components:  
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

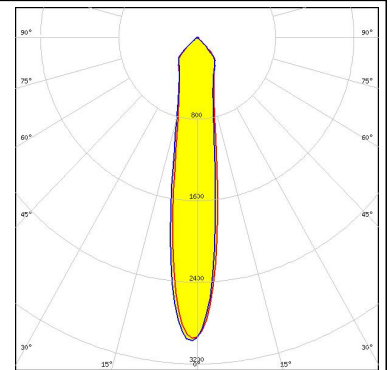
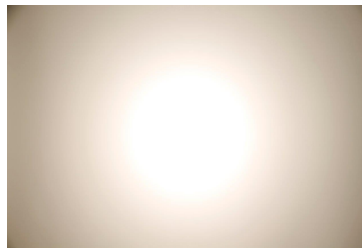




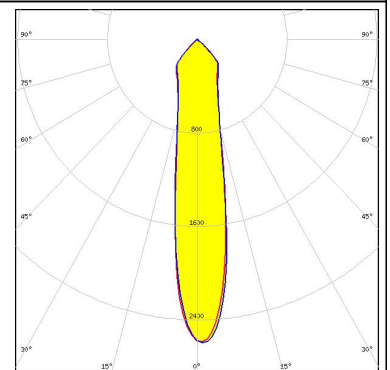
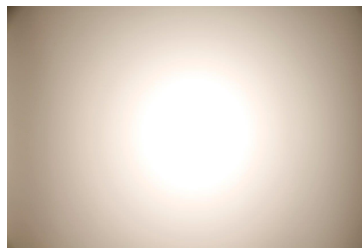
#### PHOTOMETRIC DATA (MEASURED):



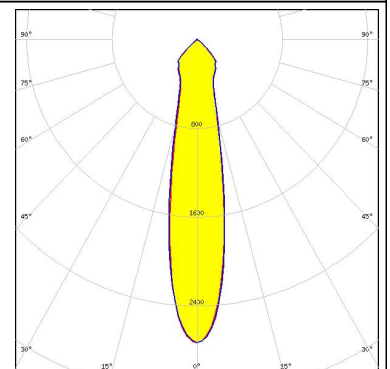
LED LUXEON CoB 1204/1205  
 FWHM 17.0°  
 Efficiency 94 %  
 Peak intensity 2.980 cd/lm  
 Required components:  
 IDEAL: 50-2100SH + 50-2100AN



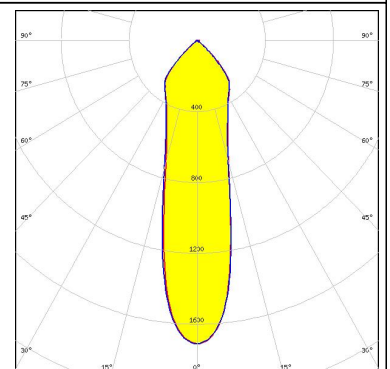
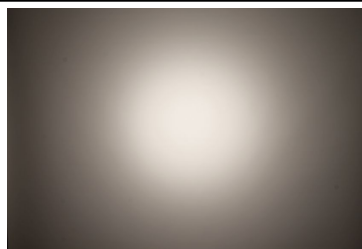
LED LUXEON CoB 1208  
 FWHM 20.0°  
 Efficiency 94 %  
 Peak intensity 2.610 cd/lm  
 Required components:  
 IDEAL: 50-2100SH + 50-2100AN



LED LUXEON CoB 1208  
 FWHM 21.0°  
 Efficiency 93 %  
 Peak intensity 2.700 cd/lm  
 Required components:  
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



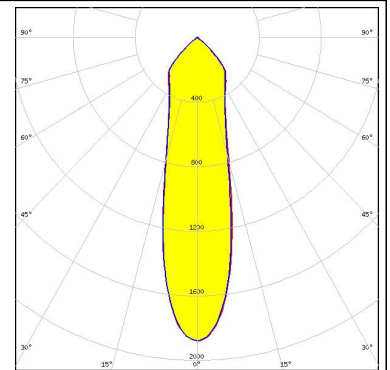
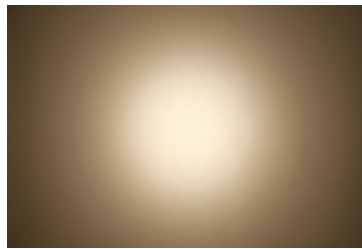
LED LUXEON CoB 1211  
 FWHM 26.0°  
 Efficiency 91 %  
 Peak intensity 1.700 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



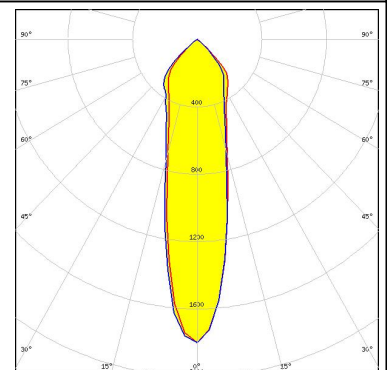
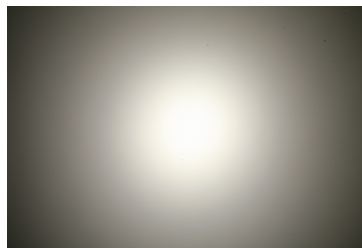
#### PHOTOMETRIC DATA (MEASURED):



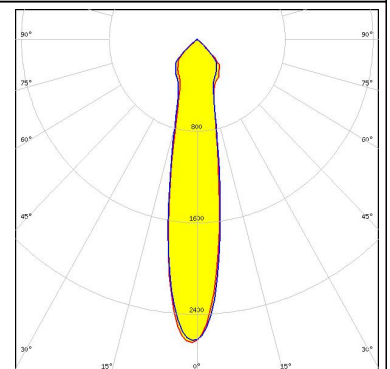
LED LUXEON CoB 1211  
 FWHM 26.0°  
 Efficiency 94 %  
 Peak intensity 1.900 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 431 Typ L3



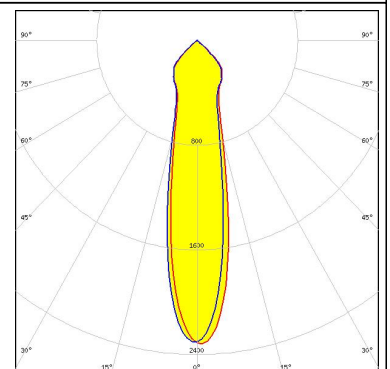
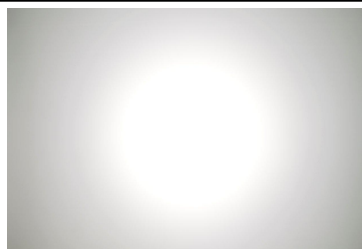
LED LUXEON K12  
 FWHM 25.0°  
 Efficiency 89 %  
 Peak intensity 1.800 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON K12  
 FWHM 20.0°  
 Efficiency 94 %  
 Peak intensity 2.660 cd/lm  
 Required components:  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON K16  
 FWHM 22.0°  
 Efficiency 94 %  
 Peak intensity 2.320 cd/lm  
 Required components:  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

#### LUMILEDS

LED LUXEON K16

FWHM 26.0°

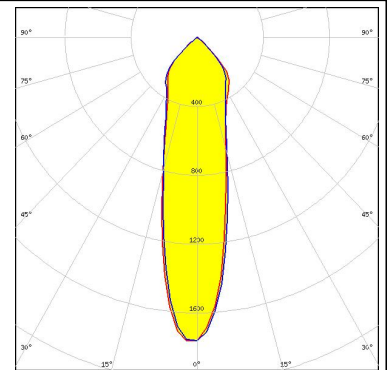
Efficiency 89 %

Peak intensity 1.800 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### LUMILEDS

LED LUXEON S2000

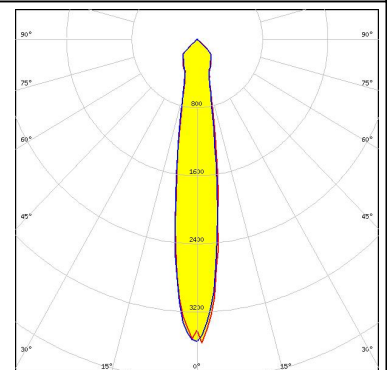
FWHM 17.0°

Efficiency 93 %

Peak intensity 3.600 cd/lm

Required components:

C13395\_CLAMP-S2000



#### LUMILEDS

LED LUXEON S3000

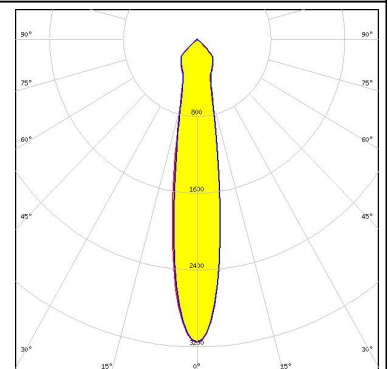
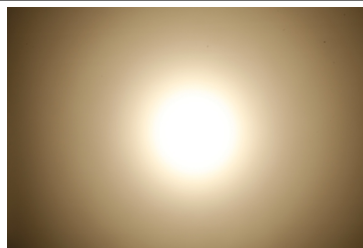
FWHM 18.0°

Efficiency 92 %

Peak intensity 3.200 cd/lm

Required components:

C13397\_CLAMP-S3000



#### LUMILEDS

LED LUXEON S5000

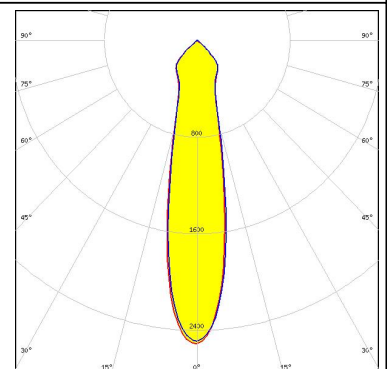
FWHM 22.0°

Efficiency 93 %

Peak intensity 2.500 cd/lm

Required components:

C13399\_CLAMP-S5000

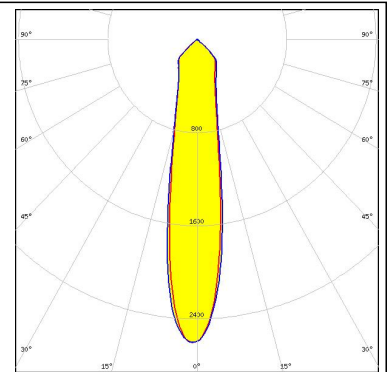
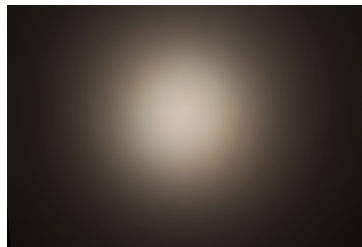




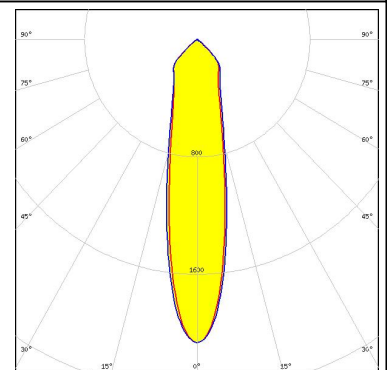
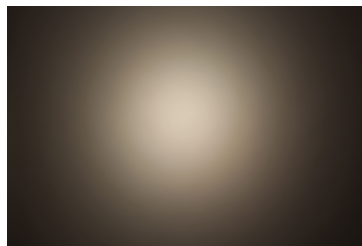
#### PHOTOMETRIC DATA (MEASURED):



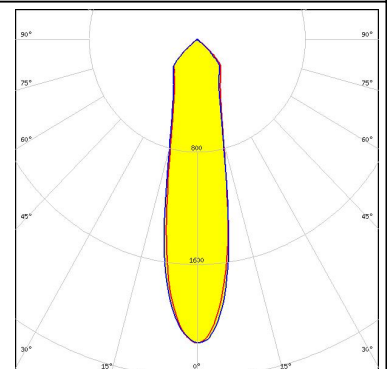
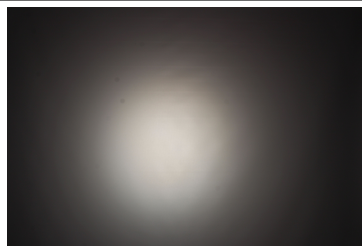
LED CDM-14 (Dim-To-Warm)  
 FWHM 20.0°  
 Efficiency 93 %  
 Peak intensity 2.600 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



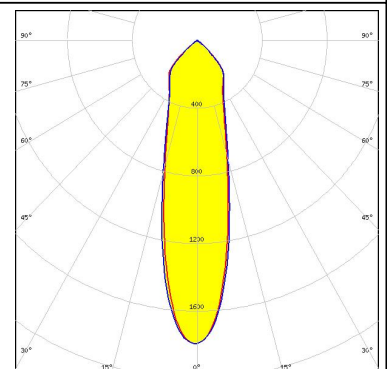
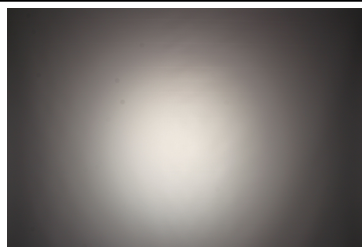
LED CDM-14 (Dim-To-Warm)  
 FWHM 23.0°  
 Efficiency 89 %  
 Peak intensity 2.100 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)  
 FWHM 24.0°  
 Efficiency 93 %  
 Peak intensity 2.200 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 491 Typ L2



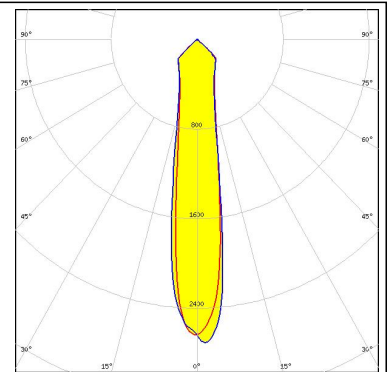
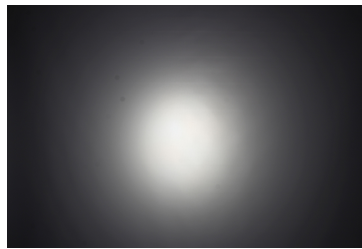
LED CDM-18 (Dim-To-Warm)  
 FWHM 26.0°  
 Efficiency 89 %  
 Peak intensity 1.800 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 491 Typ L2



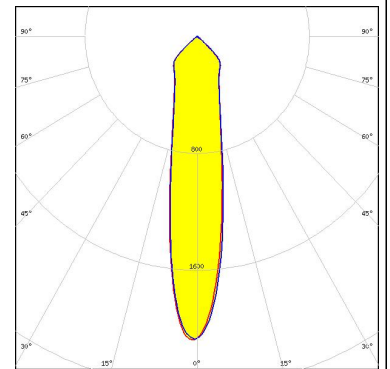
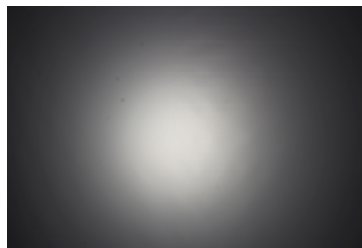
#### PHOTOMETRIC DATA (MEASURED):



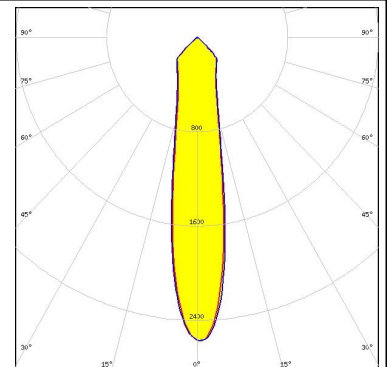
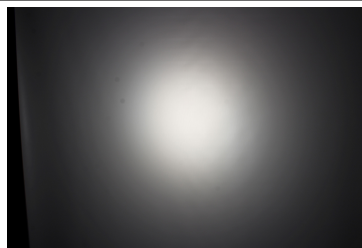
LED CDM-9 (Dim-To-Warm)  
 FWHM 18.0°  
 Efficiency 92 %  
 Peak intensity 2.700 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 490 Typ L1



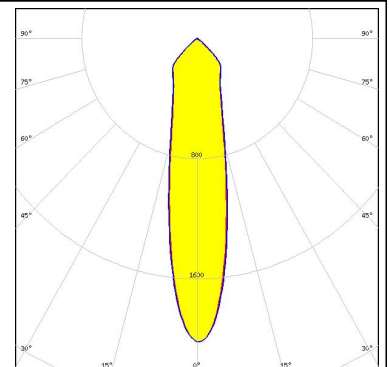
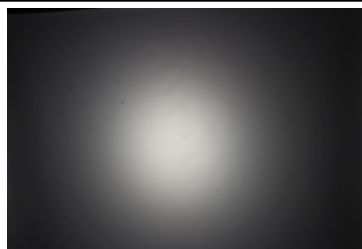
LED CDM-9 (Dim-To-Warm)  
 FWHM 21.0°  
 Efficiency 87 %  
 Peak intensity 2.100 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 490 Typ L1



LED CTM-14 (Tunable White)  
 FWHM 20.0°  
 Efficiency 93 %  
 Peak intensity 2.600 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 442 Typ L3



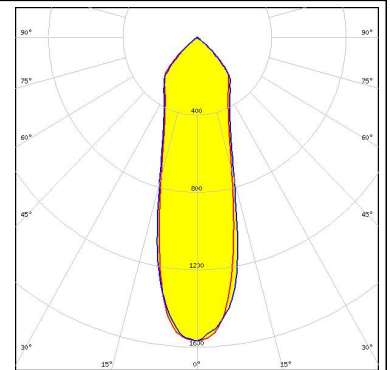
LED CTM-14 (Tunable White)  
 FWHM 23.0°  
 Efficiency 88 %  
 Peak intensity 2.000 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 442 Typ L3



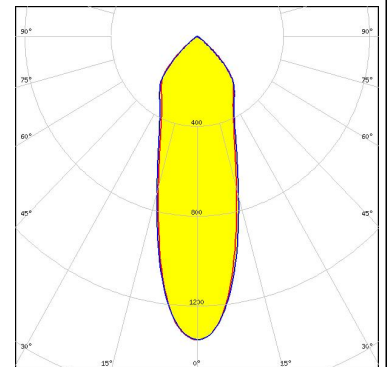
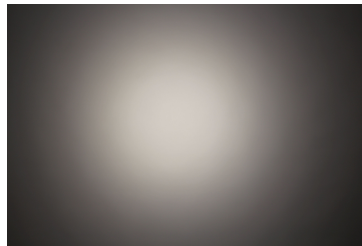
#### PHOTOMETRIC DATA (MEASURED):



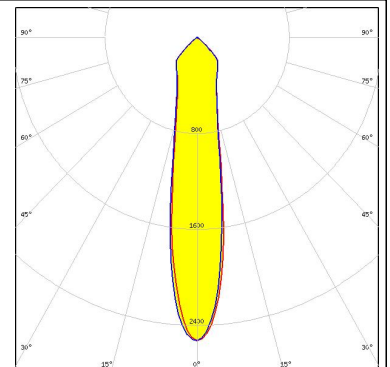
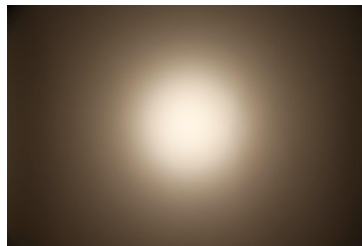
LED CTM-22 (Tunable White)  
 FWHM 29.0°  
 Efficiency 91 %  
 Peak intensity 1.570 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



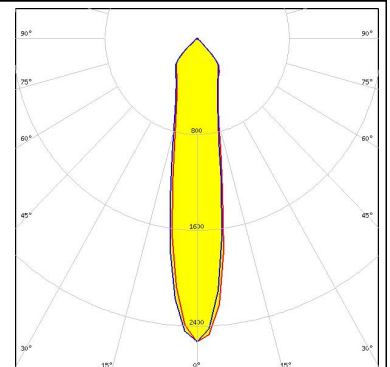
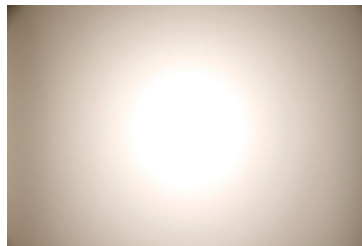
LED CTM-22 (Tunable White)  
 FWHM 32.0°  
 Efficiency 87 %  
 Peak intensity 1.350 cd/lm  
 Required components:  
 C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 494 Typ L3



LED CXM-14  
 FWHM 20.0°  
 Efficiency 94 %  
 Peak intensity 2.530 cd/lm  
 Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



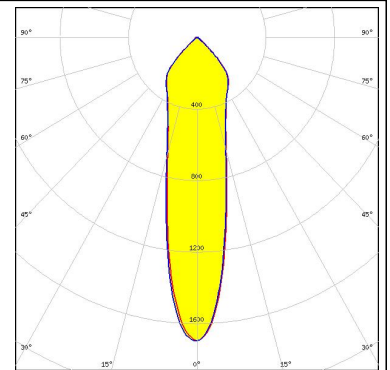
LED COB J-Type  
 FWHM 20.0°  
 Efficiency 94 %  
 Peak intensity 2.530 cd/lm  
 Required components:  
 IDEAL: 50-2103NC + 50-2100AN



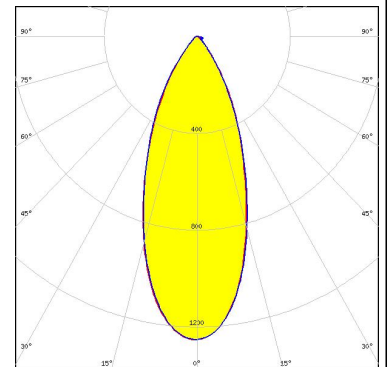
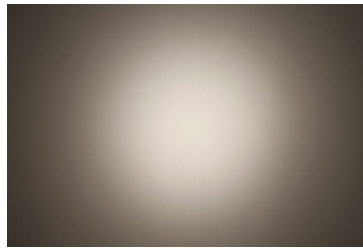
#### PHOTOMETRIC DATA (MEASURED):



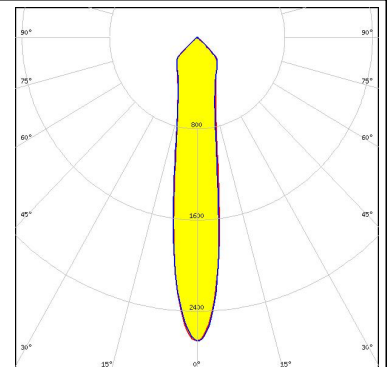
LED COB J-Type  
 FWHM 24.0°  
 Efficiency 87 %  
 Peak intensity 1.700 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2103NC + 50-2100AN



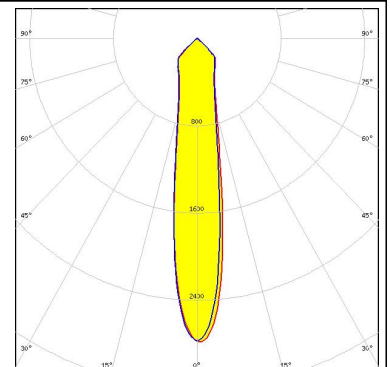
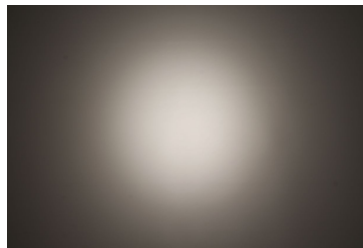
LED COB J-Type  
 FWHM 22.0°  
 Efficiency 93 %  
 Peak intensity 2.300 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 463 Typ L2



LED COB L-Type (LES 11)  
 FWHM 17.0°  
 Efficiency 92 %  
 Peak intensity 2.660 cd/lm  
 Required components:  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 11)  
 FWHM 18.0°  
 Efficiency 93 %  
 Peak intensity 2.800 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 438 Typ L1

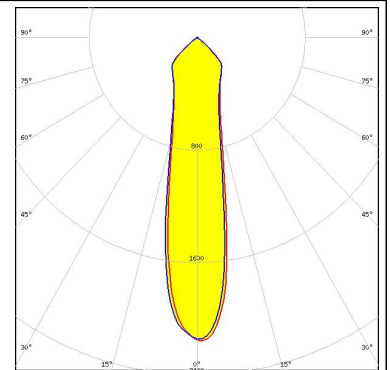




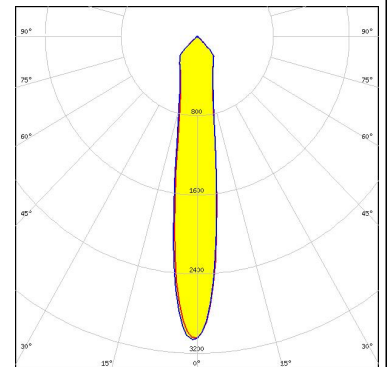
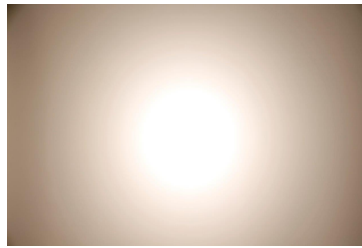
#### PHOTOMETRIC DATA (MEASURED):



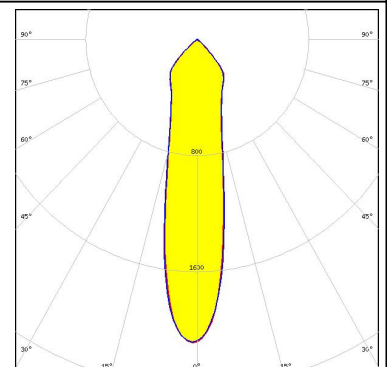
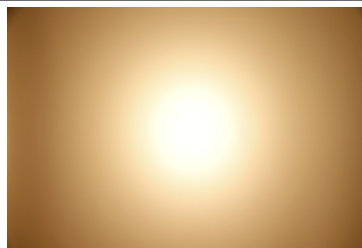
LED COB L-Type (LES 11)  
 FWHM 22.0°  
 Efficiency 94 %  
 Peak intensity 2.160 cd/lm  
 Required components:  
 Molex: 180580-0005



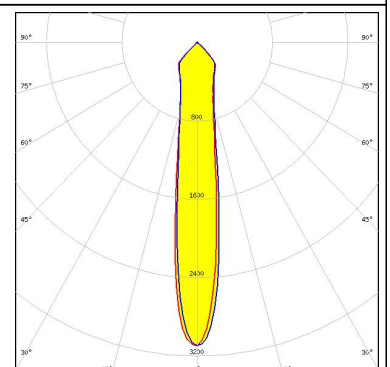
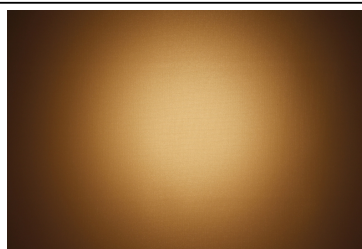
LED COB L-Type (LES 11)  
 FWHM 16.0°  
 Efficiency 91 %  
 Peak intensity 3.080 cd/lm  
 Required components:  
 IDEAL: 50-2100NC + 50-2100AN



LED PrevaLED Core AC (LEP-2000)  
 FWHM 23.0°  
 Efficiency 93 %  
 Peak intensity 2.100 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



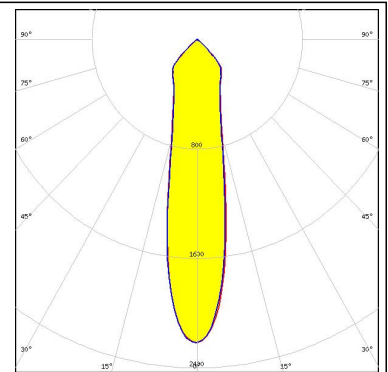
LED PrevaLED Core AC (LEP-800)  
 FWHM 16.0°  
 Efficiency 94 %  
 Peak intensity 3.100 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

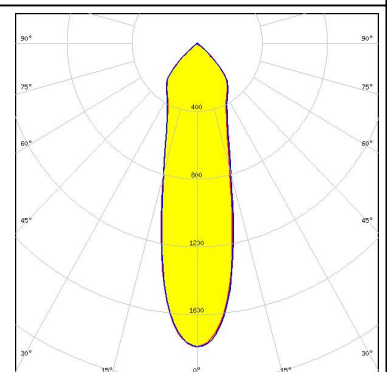
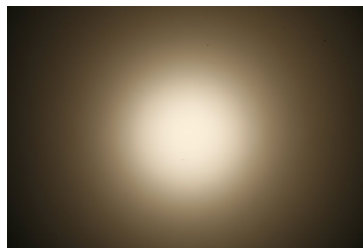
#### OSRAM

LED PrevaLED Core Z3 LES19  
FWHM 23.0°  
Efficiency 94 %  
Peak intensity 2.210 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



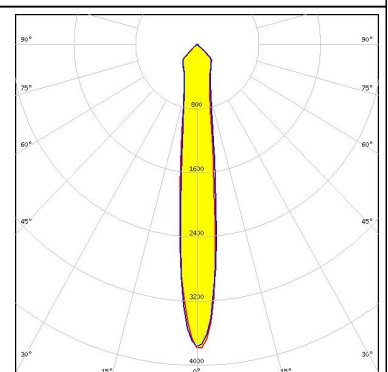
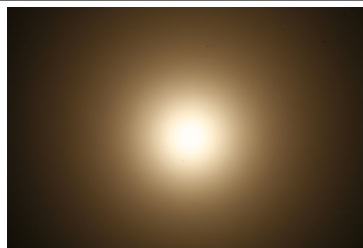
#### OSRAM

LED PrevaLED Core Z3 LES23  
FWHM 27.0°  
Efficiency 94 %  
Peak intensity 1.800 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



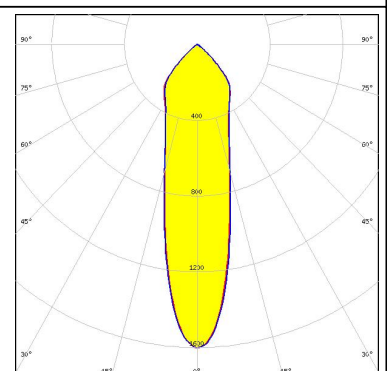
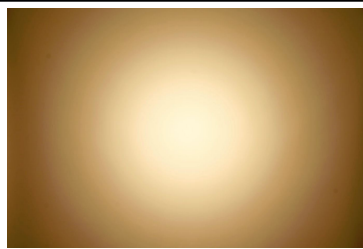
#### OSRAM

LED PrevaLED Core Z3 LES9  
FWHM 14.0°  
Efficiency 94 %  
Peak intensity 3.800 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

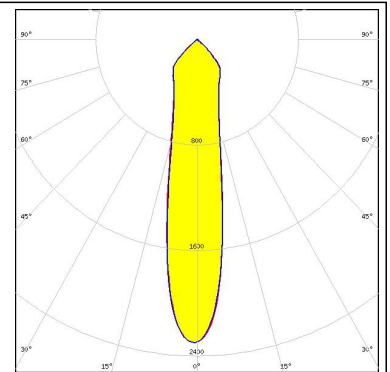
LED PrevaLED Core Z4 LES19  
FWHM 26.0°  
Efficiency 88 %  
Peak intensity 1.600 cd/lm  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

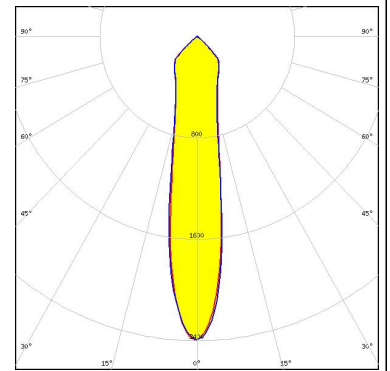
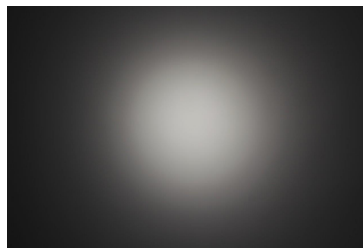
LED PrevaLED Core Z4 LES19  
 FWHM 21.0°  
 Efficiency 94 %  
 Peak intensity 2.300 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### OSRAM

Opto Semiconductors

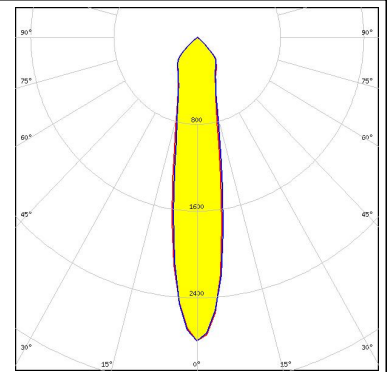
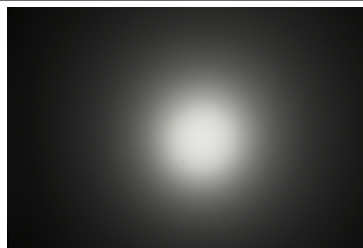
LED Soleriq S13  
 FWHM 20.0°  
 Efficiency 92 %  
 Peak intensity 2.400 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 437 Typ L1



#### OSRAM

Opto Semiconductors

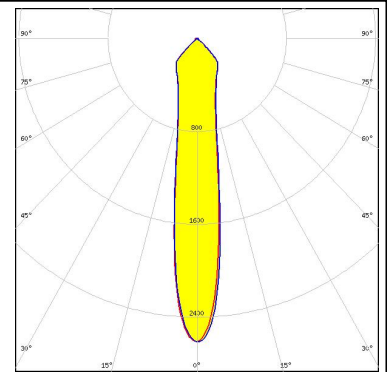
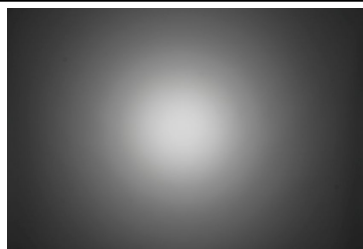
LED Soleriq S13  
 FWHM 20.0°  
 Efficiency 94 %  
 Peak intensity 2.800 cd/lm  
 Required components:  
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



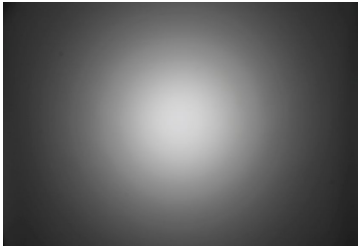
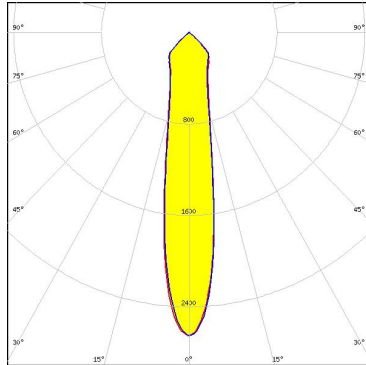
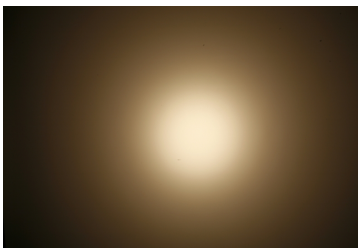
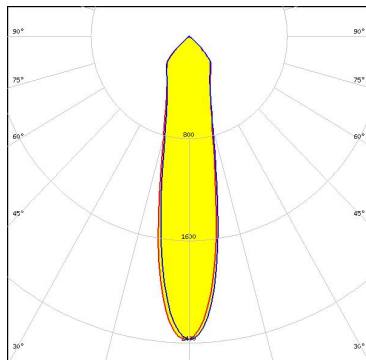

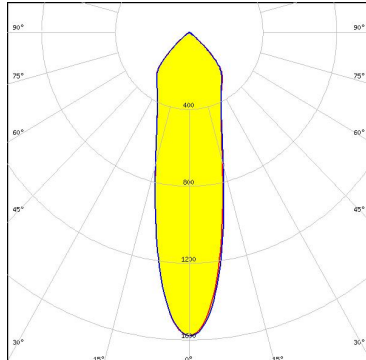
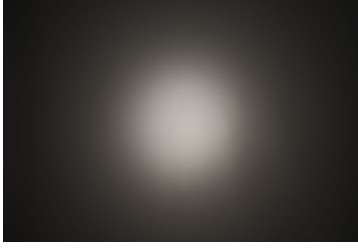
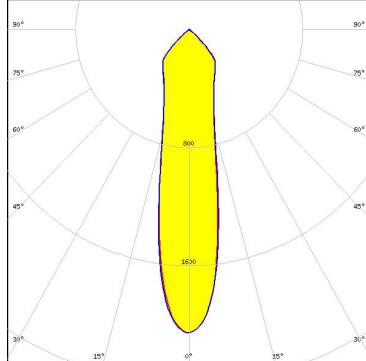
#### OSRAM

Opto Semiconductors

LED Soleriq S13 Gen2  
 FWHM 17.0°  
 Efficiency 91 %  
 Peak intensity 2.600 cd/lm  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



#### PHOTOMETRIC DATA (MEASURED):

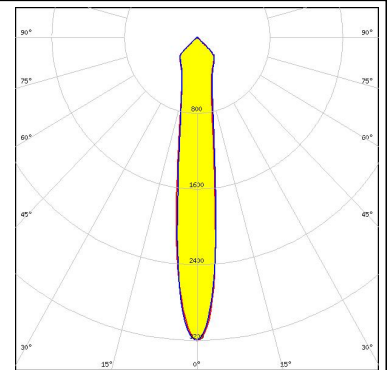
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13 Gen2            FWHM 19.0°            Efficiency 93 %            Peak intensity 2.700 cd/lm            Required components:            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19            FWHM 22.0°            Efficiency 94 %            Peak intensity 2.380 cd/lm            Required components:            TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19            FWHM 27.0°            Efficiency 88 %            Peak intensity 1.600 cd/lm            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 23.0°            Efficiency 92 %            Peak intensity 2.100 cd/lm            Required components:            C13584_CLAMP-VERO29            Bender Wirth: 462 Typ L3</p>		



#### PHOTOMETRIC DATA (MEASURED):

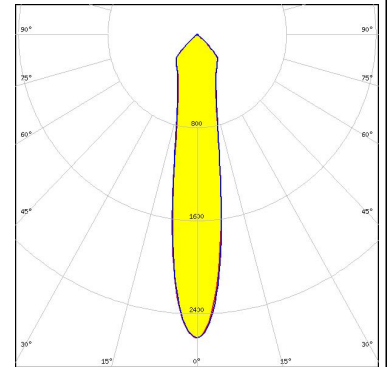
#### PHILIPS

LED Fortimo SLM L09 Standard  
FWHM 15.0°  
Efficiency 92 %  
Peak intensity 3.200 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



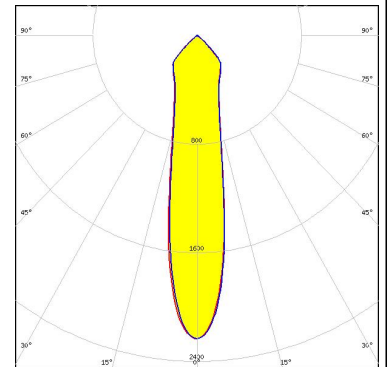
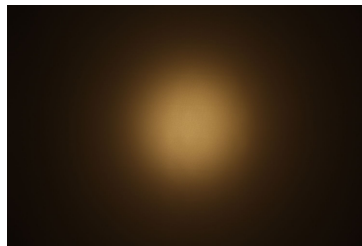
#### PHILIPS

LED Fortimo SLM L13 Standard  
FWHM 19.0°  
Efficiency 92 %  
Peak intensity 2.600 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



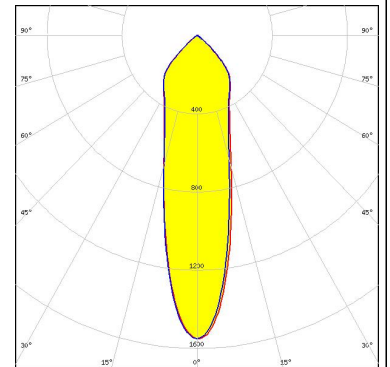
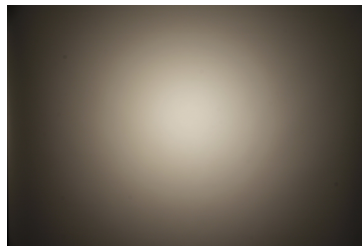
#### PHILIPS

LED Fortimo SLM L15 Standard  
FWHM 21.0°  
Efficiency 91 %  
Peak intensity 2.240 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHILIPS

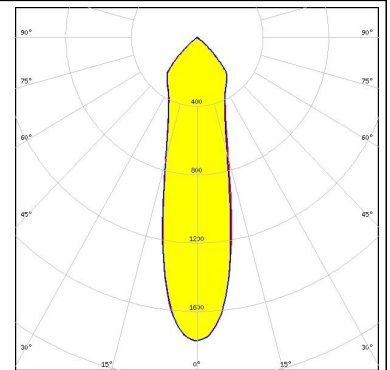
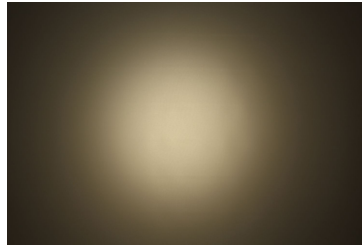
LED Fortimo SLM L15 Standard  
FWHM 27.0°  
Efficiency 87 %  
Peak intensity 1.600 cd/lm  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

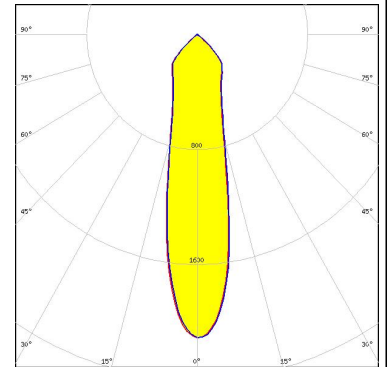
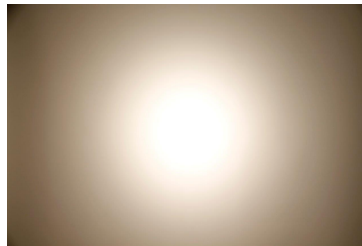
#### PHILIPS

LED Fortimo SLM L19 Standard  
 FWHM 26.0°  
 Efficiency 90 %  
 Peak intensity 1.770 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



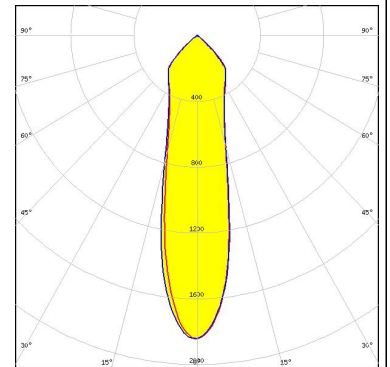
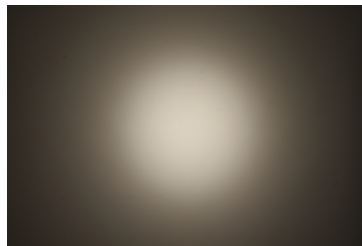
#### SAMSUNG

LED LC026B / 033B / 040B  
 FWHM 24.0°  
 Efficiency 93 %  
 Peak intensity 2.100 cd/lm  
 Required components:  
 TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### SAMSUNG

LED LC026B / 033B / 040B  
 FWHM 25.0°  
 Efficiency 92 %  
 Peak intensity 1.800 cd/lm  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 Bender Wirth: 450 Typ L2



#### SAMSUNG

LED LC040C  
 FWHM 18.0°  
 Efficiency 92 %  
 Peak intensity 2.600 cd/lm  
 Required components:  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

