



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



## ANGELETTE-WW-PLAIN

~60° wide beam. Clean appearance with no additional attachment interface.

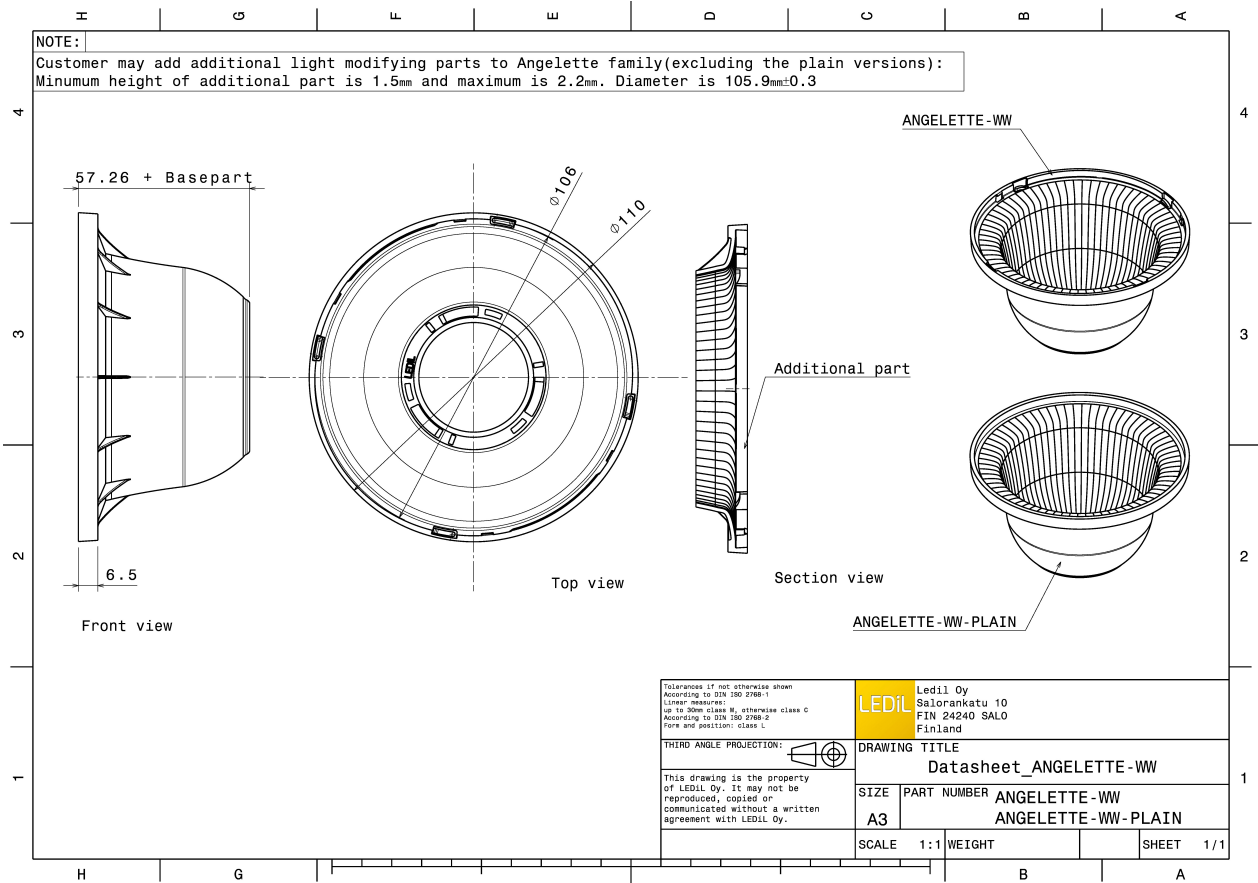
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 110 mm
Height	57.3 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	5.3 kg
Quantity in Box	120 pcs
ROHS compliant	yes ⓘ


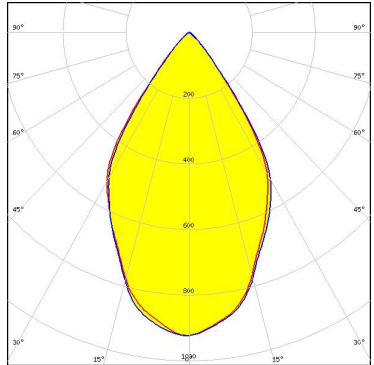

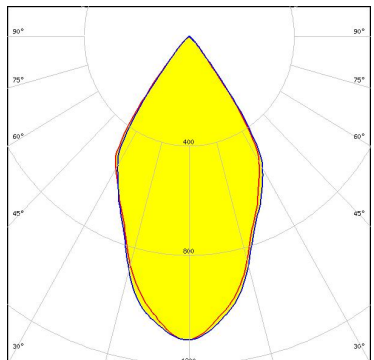
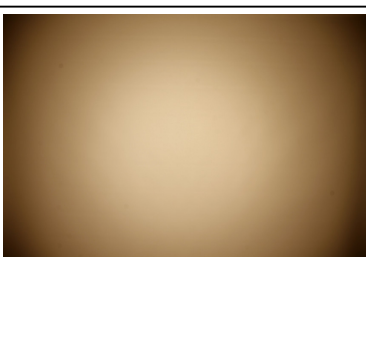
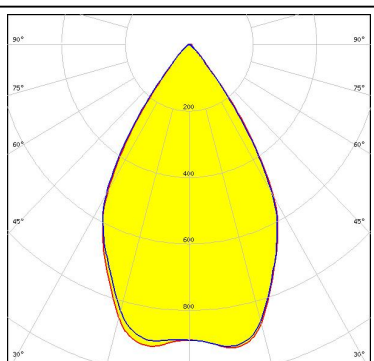

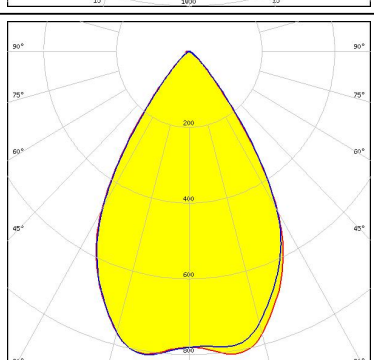


### MATERIAL SPECIFICATIONS:


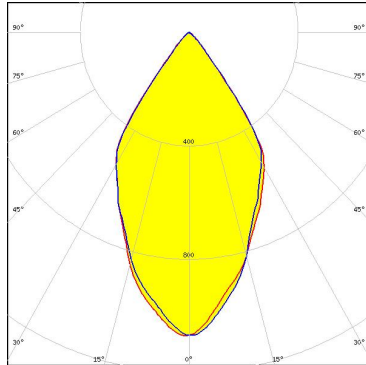
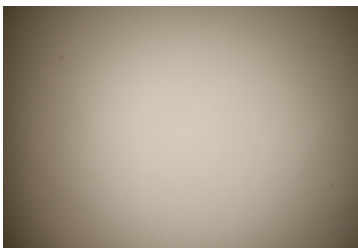
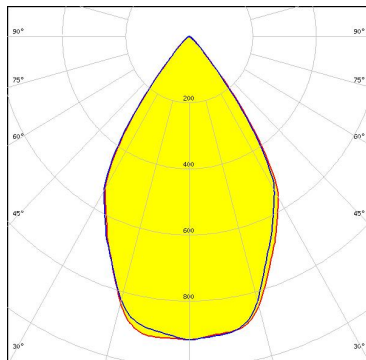

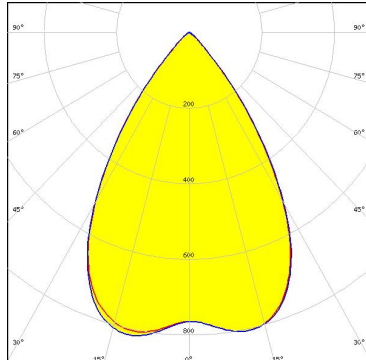
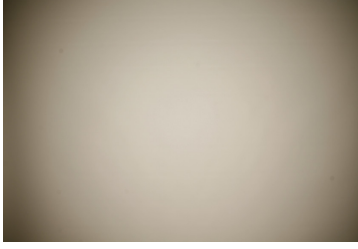
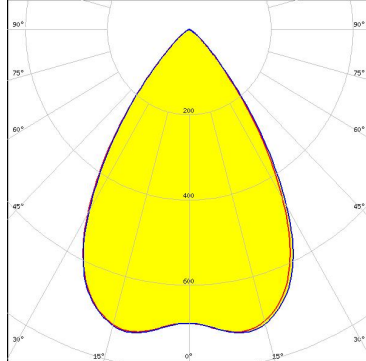
Component	Type	Material	Colour	Coating
ANGELETTE-WW-PLAIN	Reflector	PC	metal	HMDS



#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 64.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.920 cd/lm</p> <p>Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 59.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V22 Gen6</p> <p>FWHM 63.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.920 cd/lm</p> <p>Required components:</p>		
<p>bridgelux.</p> <p>LED V22 Gen6</p> <p>FWHM 65.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.810 cd/lm</p> <p>Required components: F13671_ANGE-RZ-LENS IDEAL: 50-2204-CT + 50-2100AN</p>		

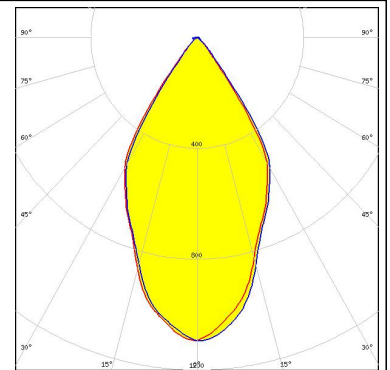
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO13            FWHM 60.0°            Efficiency 90 %            Peak intensity 1.100 cd/lm            Required components:            C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18            FWHM 66.0°            Efficiency 89 %            Peak intensity 0.900 cd/lm            Required components:            C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO29            FWHM 68.0°            Efficiency 90 %            Peak intensity 0.800 cd/lm            Required components:            C13584_CLAMP-VERO29</p>		
<p>bridgelux.</p> <p>LED VERO29            FWHM 69.0°            Efficiency 85 %            Peak intensity 0.700 cd/lm            Required components:            C13584_CLAMP-VERO29            F13671_ANGE-RZ-LENS</p>		

#### PHOTOMETRIC DATA (MEASURED):

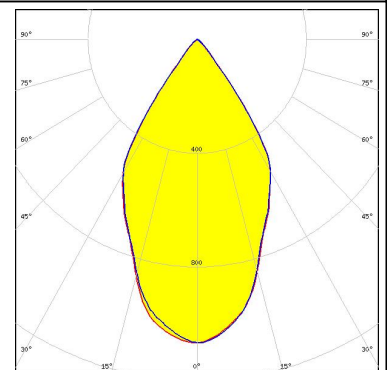
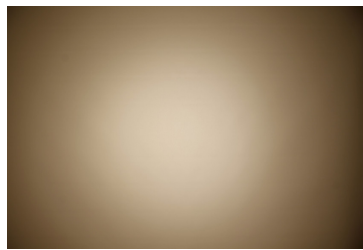
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 59.0°  
 Efficiency 89 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



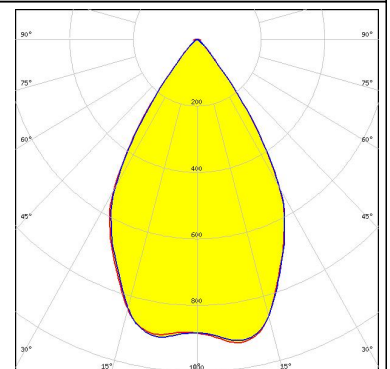
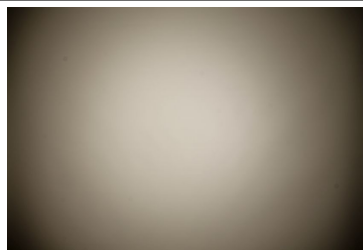
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 61.0°  
 Efficiency 89 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



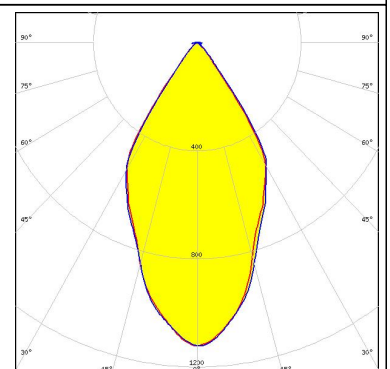
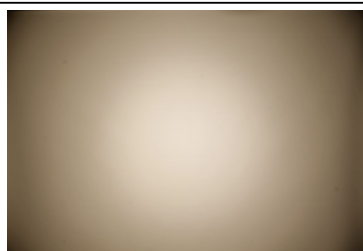
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 63.0°  
 Efficiency 89 %  
 Peak intensity 0.930 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



#### CITIZEN

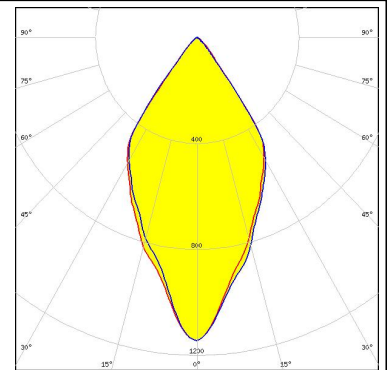
LED CLU730/731  
 FWHM 57.0°  
 Efficiency 89 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



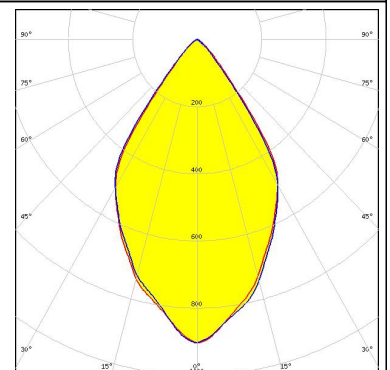
#### PHOTOMETRIC DATA (MEASURED):



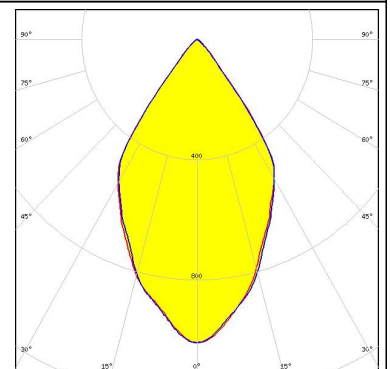
LED CXA/B 15xx  
 FWHM 55.0°  
 Efficiency 90 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18



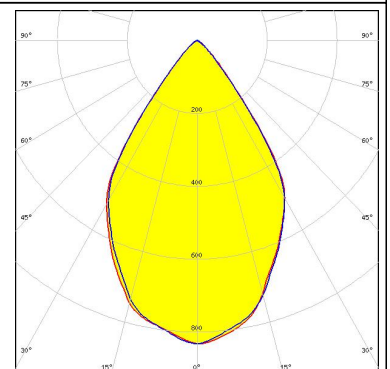
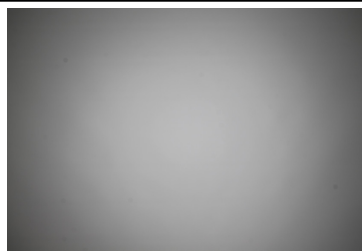
LED CXA/B 15xx  
 FWHM 66.0°  
 Efficiency 86 %  
 Peak intensity 0.900 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18  
 F13671\_ANGE-RZ-LENS



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 64.0°  
 Efficiency 90 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 68.0°  
 Efficiency 86 %  
 Peak intensity 0.800 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18  
 F13671\_ANGE-RZ-LENS



#### PHOTOMETRIC DATA (MEASURED):



LED CXA/B 25xx

FWHM 67.0°

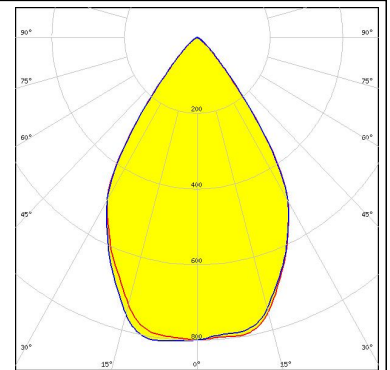
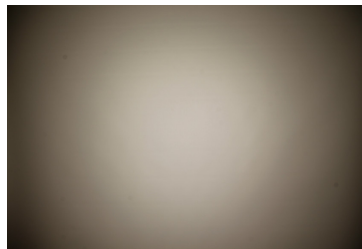
Efficiency 85 %

Peak intensity 0.800 cd/lm

Required components:

C14036\_CLAMP\_CXA25-30

F13671\_ANGE-RZ-LENS



LED CXA/B 25xx

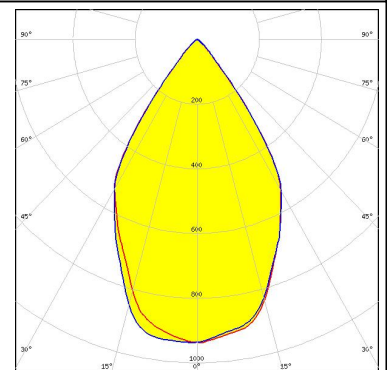
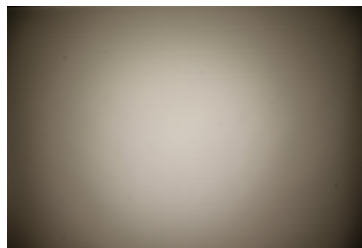
FWHM 65.0°

Efficiency 89 %

Peak intensity 0.900 cd/lm

Required components:

C14036\_CLAMP\_CXA25-30



LED CXA/B 30xx

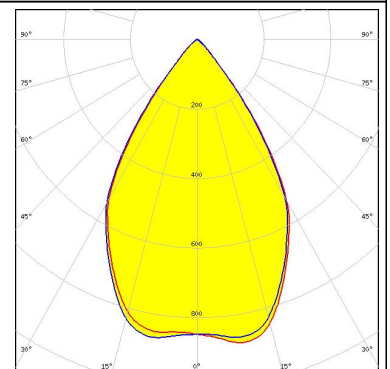
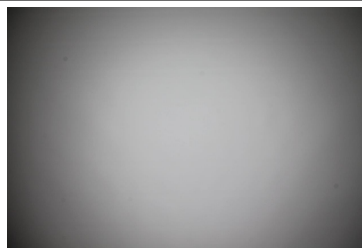
FWHM 66.0°

Efficiency 90 %

Peak intensity 0.900 cd/lm

Required components:

C14036\_CLAMP\_CXA25-30



LED CXA/B 30xx

FWHM 67.0°

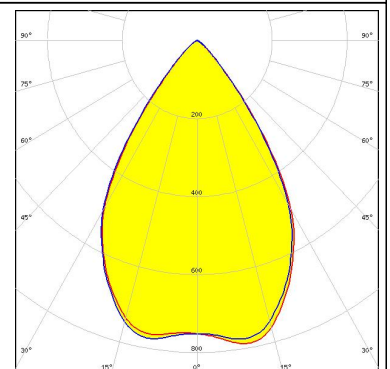
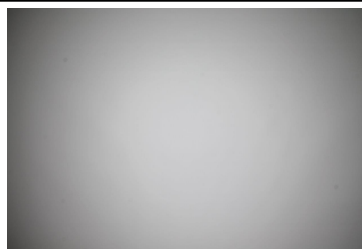
Efficiency 86 %

Peak intensity 0.800 cd/lm

Required components:

C14036\_CLAMP\_CXA25-30

F13671\_ANGE-RZ-LENS





#### PHOTOMETRIC DATA (MEASURED):



LED LUXEON CoB 1208

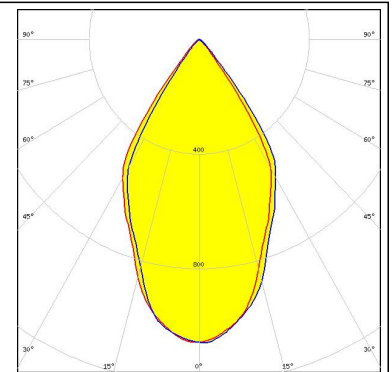
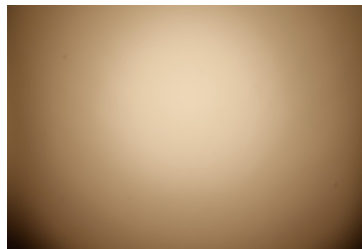
FWHM 61.0°

Efficiency 89 %

Peak intensity 1.100 cd/lm

Required components:

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



LED LUXEON CoB 1208

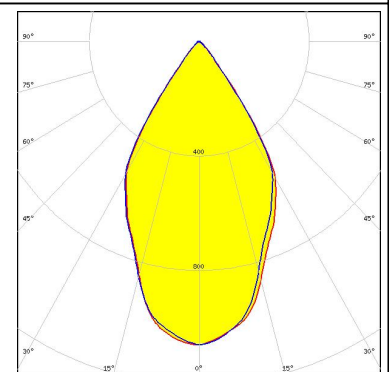
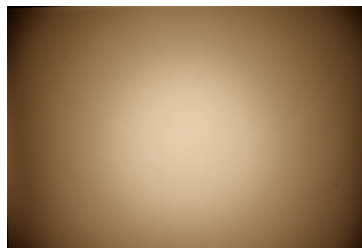
FWHM 61.0°

Efficiency 89 %

Peak intensity 1.100 cd/lm

Required components:

IDEAL: 50-2100SH + 50-2100AN



LED LUXEON CoB 1208

FWHM 64.0°

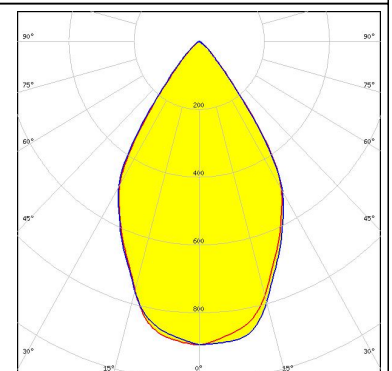
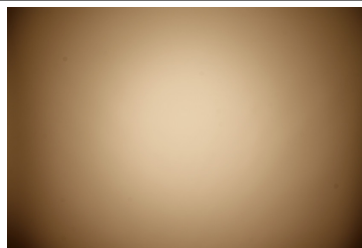
Efficiency 85 %

Peak intensity 0.890 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

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



LED LUXEON CoB 1208

FWHM 63.0°

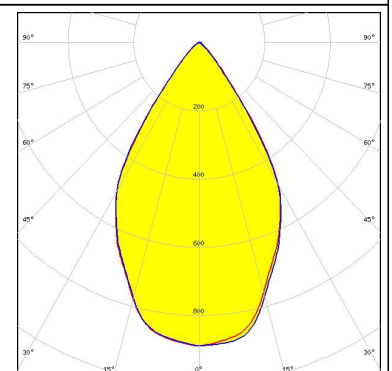
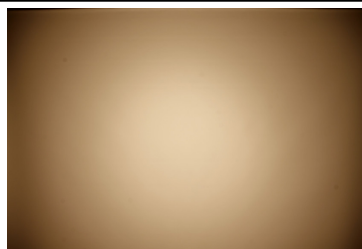
Efficiency 84 %

Peak intensity 0.890 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

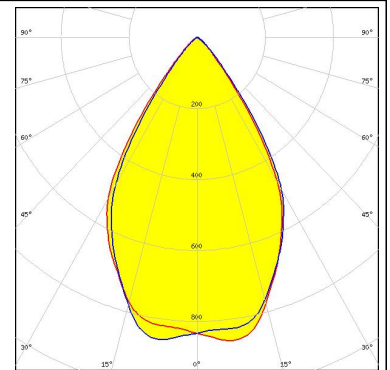
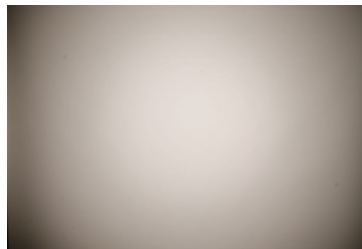
IDEAL: 50-2204-CT + 50-2100AN



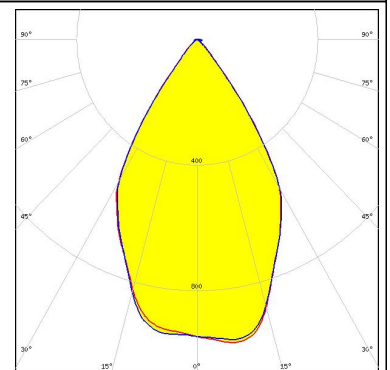
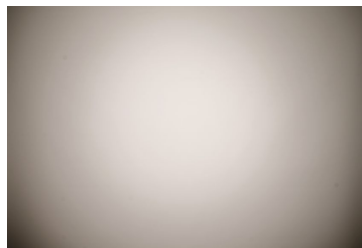
#### PHOTOMETRIC DATA (MEASURED):



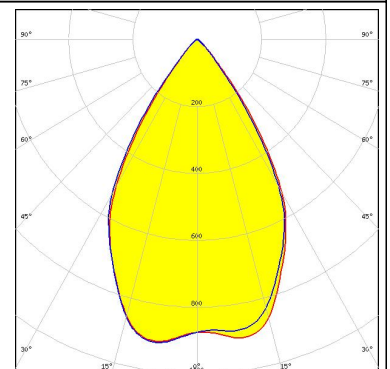
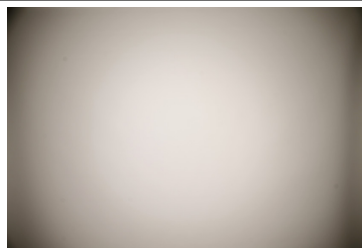
LED LUXEON CoB 1211  
 FWHM 64.0°  
 Efficiency 85 %  
 Peak intensity 0.870 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



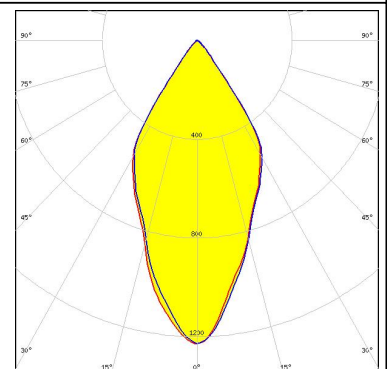
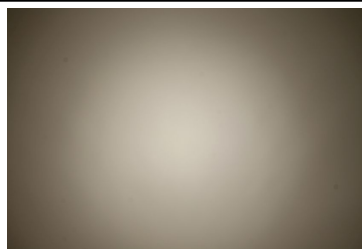
LED LUXEON CoB 1211  
 FWHM 63.0°  
 Efficiency 89 %  
 Peak intensity 0.970 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



LED LUXEON CoB 1216/1812  
 FWHM 63.0°  
 Efficiency 89 %  
 Peak intensity 0.920 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



LED COB L-Type (LES 11)  
 FWHM 51.0°  
 Efficiency 88 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 IDEAL: 50-2100NC + 50-2100AN



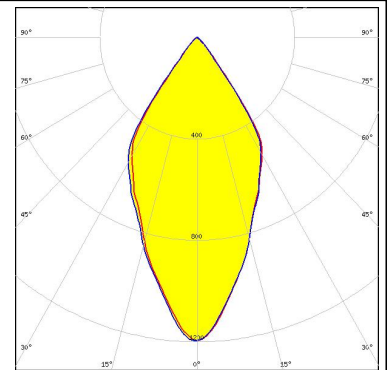
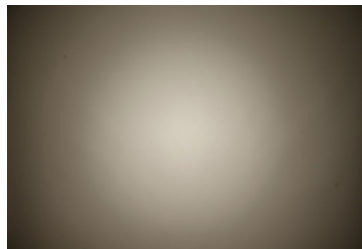
#### PHOTOMETRIC DATA (MEASURED):



LED COB L-Type (LES 11)  
 FWHM 53.0°  
 Efficiency 89 %  
 Peak intensity 1.200 cd/lm

Required components:

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

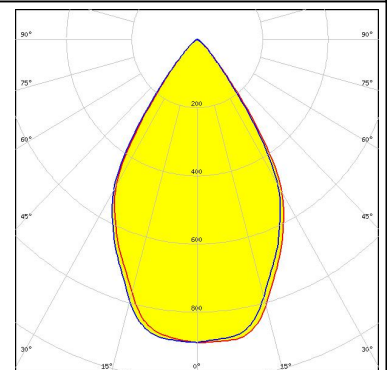


LED PrevaLED Core Z4 LES19  
 FWHM 64.0°  
 Efficiency 86 %  
 Peak intensity 0.900 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

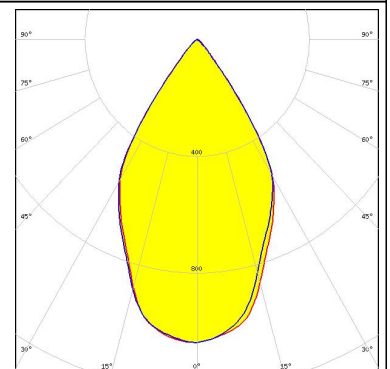
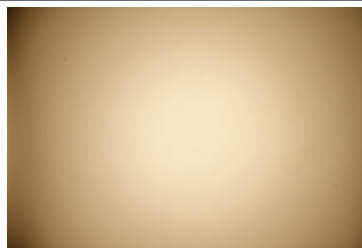
TE: 2213130-2



LED PrevaLED Core Z4 LES19  
 FWHM 62.0°  
 Efficiency 89 %  
 Peak intensity 1.000 cd/lm

Required components:

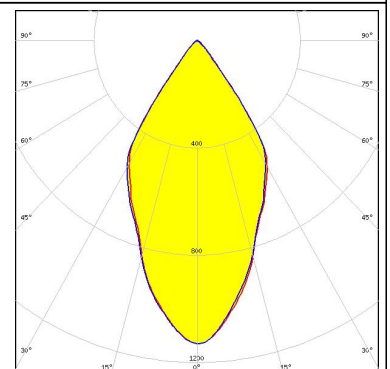
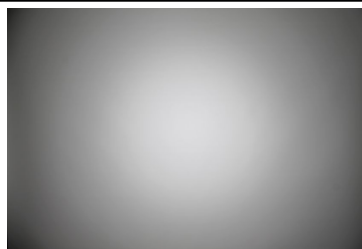
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED Soleriq S13 Gen2  
 FWHM 56.0°  
 Efficiency 89 %  
 Peak intensity 1.100 cd/lm

Required components:

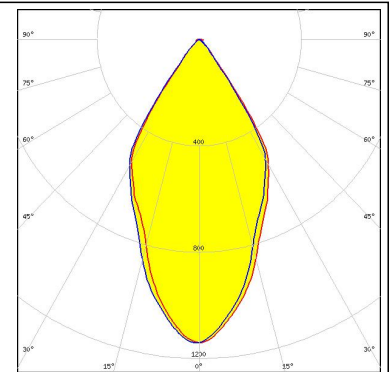
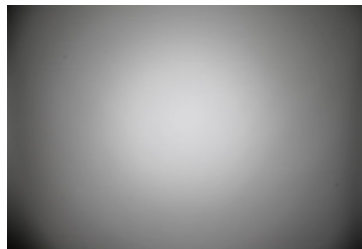
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

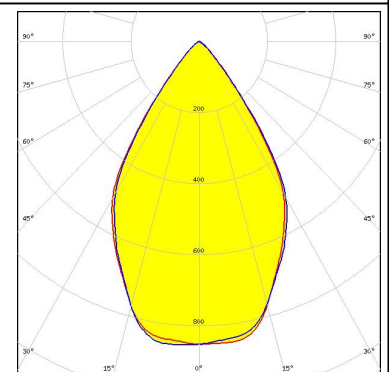
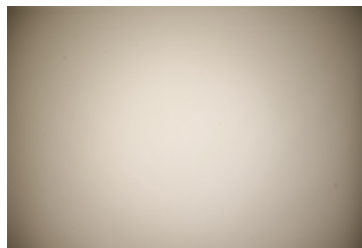
**OSRAM**  
Opto Semiconductors

LED Soleriq S13 Gen2  
 FWHM 56.0°  
 Efficiency 88 %  
 Peak intensity 1.100 cd/lm  
 Required components:



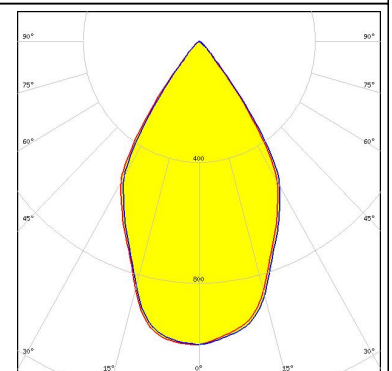
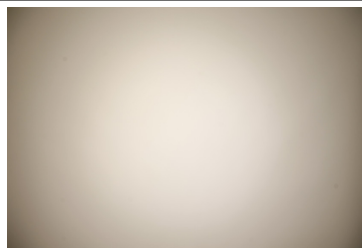
**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
 FWHM 65.0°  
 Efficiency 85 %  
 Peak intensity 0.860 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



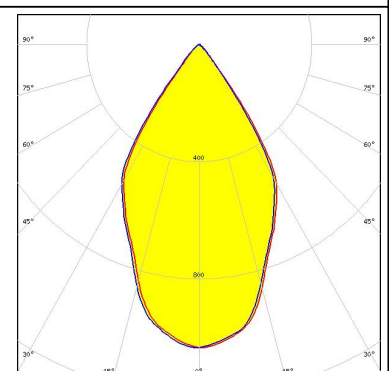
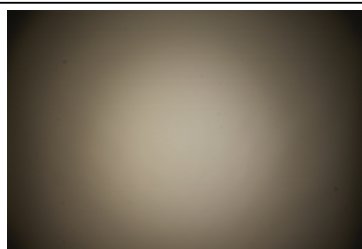
**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
 FWHM 63.0°  
 Efficiency 89 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



**PHILIPS**

LED Fortimo SLM L15 Standard  
 FWHM 62.0°  
 Efficiency 89 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1

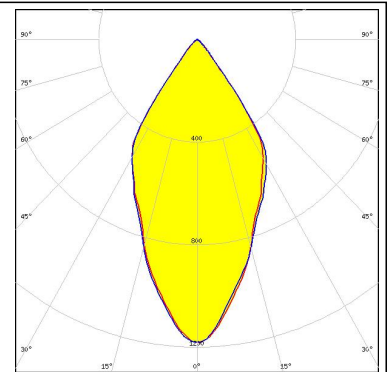


#### PHOTOMETRIC DATA (MEASURED):

#### SAMSUNG

LED LC040C  
 FWHM 53.0°  
 Efficiency 89 %  
 Peak intensity 1.200 cd/lm  
 Required components:

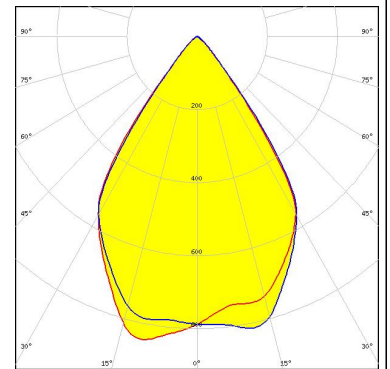
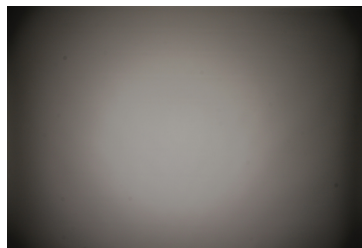
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED AC Zhaga COB  
 FWHM 70.0°  
 Efficiency 89 %  
 Peak intensity 0.850 cd/lm  
 Required components:

Optosource: SEHSMJD-A

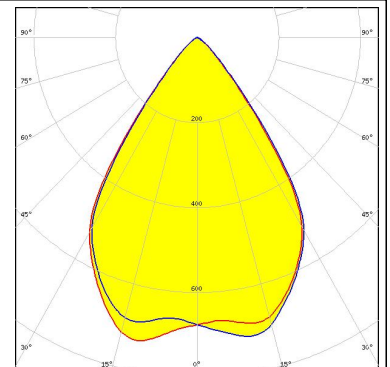
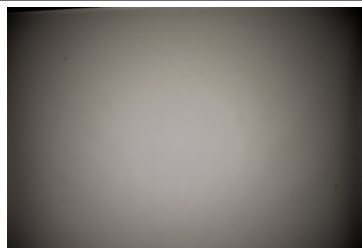


SEOUL SEMICONDUCTOR

LED AC Zhaga COB  
 FWHM 71.0°  
 Efficiency 85 %  
 Peak intensity 0.740 cd/lm  
 Required components:

F13671\_ANGE-RZ-LENS

Optosource: SEHSMJD-A

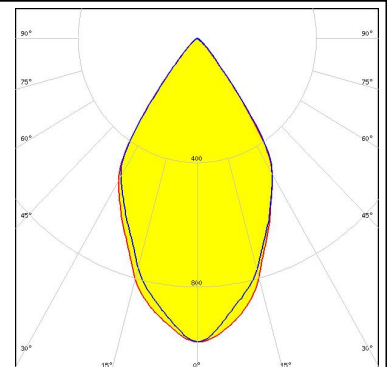
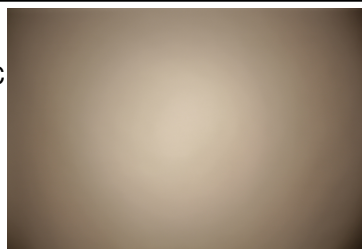


#### TRIDONIC

LED SLE G1 11mm 1000lm 927 Sunset R EXC  
 FWHM 62.0°  
 Efficiency 86 %  
 Peak intensity 0.980 cd/lm  
 Required components:

F13671\_ANGE-RZ-LENS

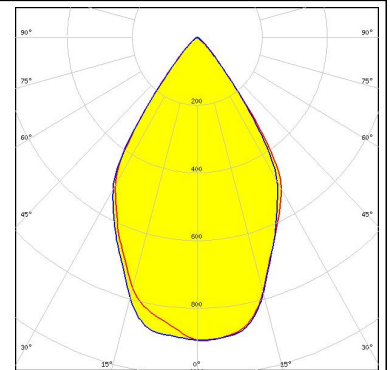
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



#### PHOTOMETRIC DATA (MEASURED):

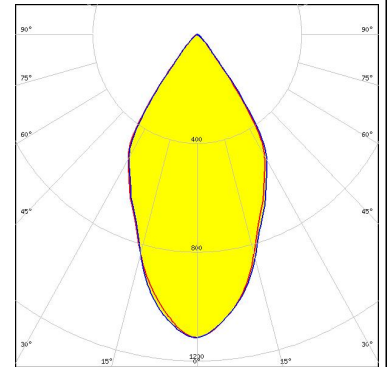
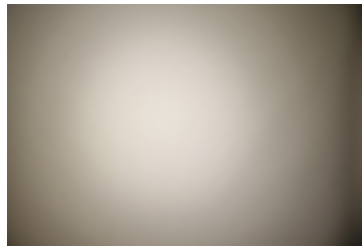
#### TRIDONIC

LED SLE G1 15mm 2000lm 927 Sunset R EXC  
FWHM 65.0°  
Efficiency 86 %  
Peak intensity 0.910 cd/lm  
Required components:  
F13671\_ANGE-RZ-LENS  
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



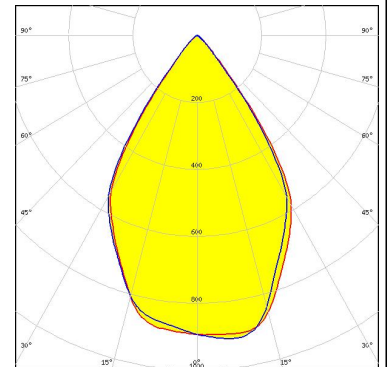
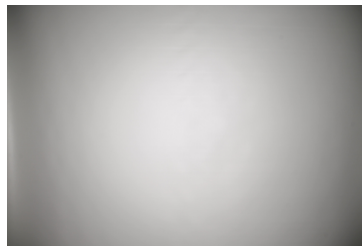
#### V5 LIGHTING SOLUTIONS

LED WU-M-484  
FWHM 56.0°  
Efficiency 89 %  
Peak intensity 1.100 cd/lm  
Required components:  
TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### XICATO

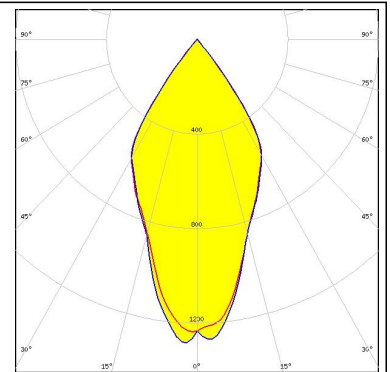
LED XIM - 19mm LES  
FWHM 66.0°  
Efficiency 90 %  
Peak intensity 0.920 cd/lm  
Required components:  
C16491\_XTM-ADAPTER-50-A



#### PHOTOMETRIC DATA (SIMULATED):

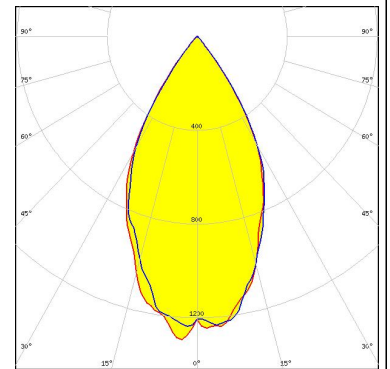
bridgelux.

LED V13 Gen7  
FWHM 51.0°  
Efficiency 90 %  
Peak intensity 1.290 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 477 Typ L1



bridgelux.

LED V22 Gen7  
FWHM 55.0°  
Efficiency 94 %  
Peak intensity 1.345 cd/lm  
Required components:  
IDEAL: 50-2204-CT + 50-2100AN



#### 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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