



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-S-PLAIN

~10° spot beam. Clean appearance with no additional attachment interface.

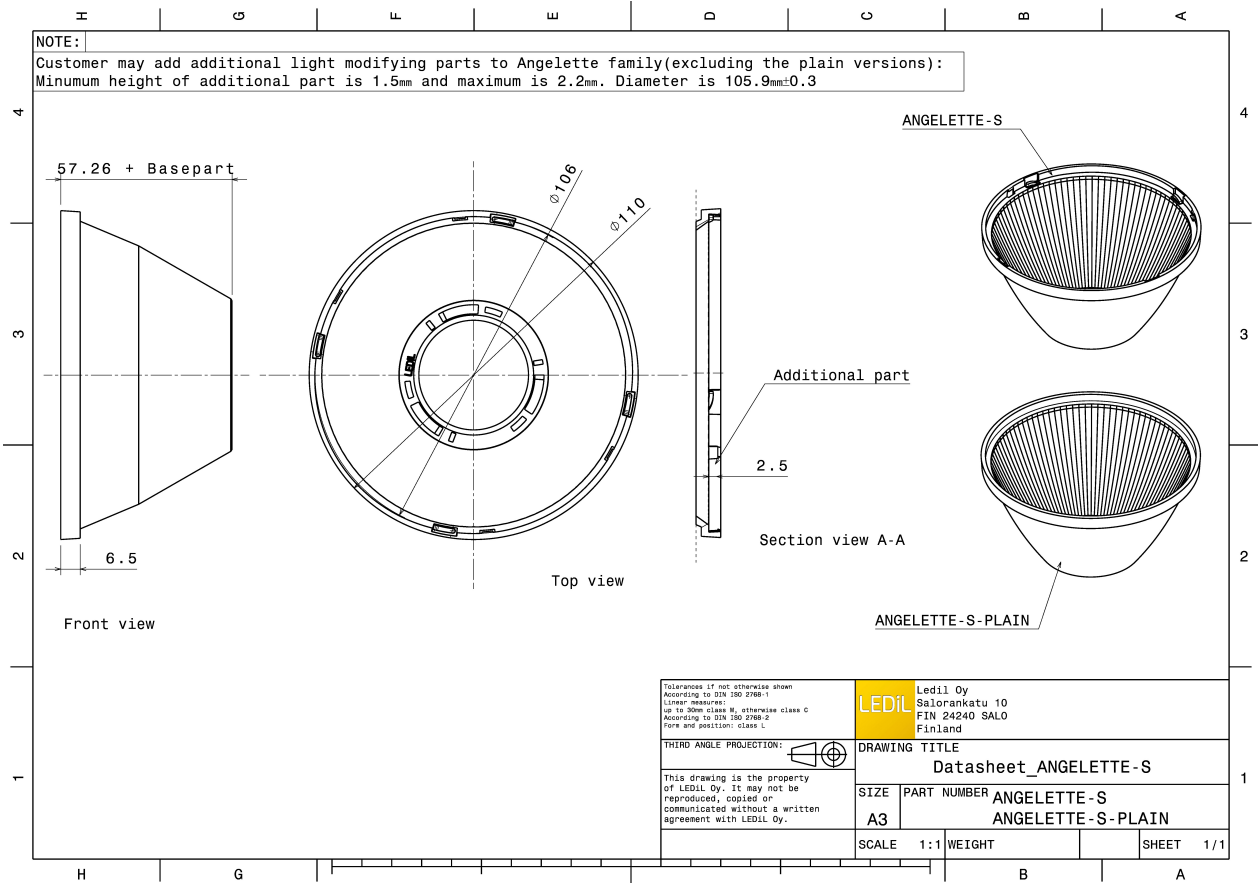
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 110 mm
Height	57.3 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	7.7 kg
Quantity in Box	180 pcs
ROHS compliant	yes ⓘ


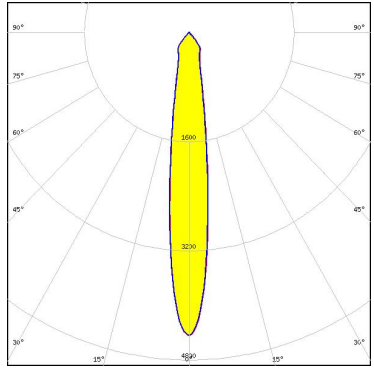

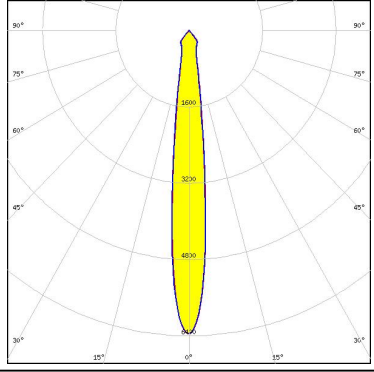
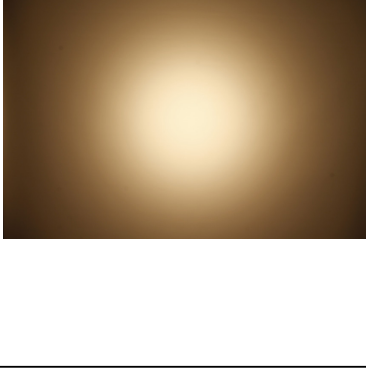
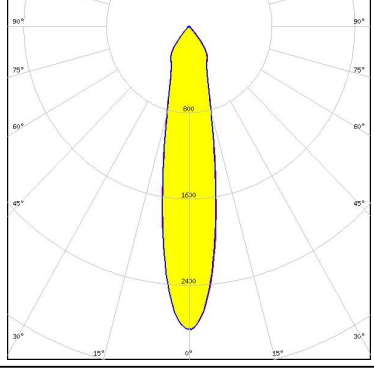
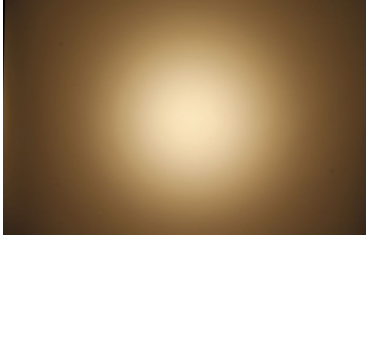
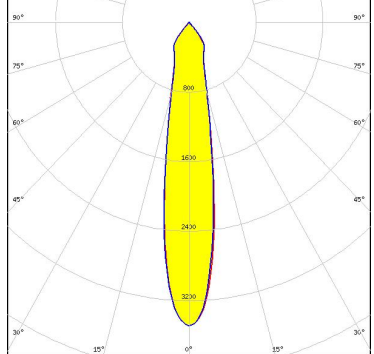


### MATERIAL SPECIFICATIONS:


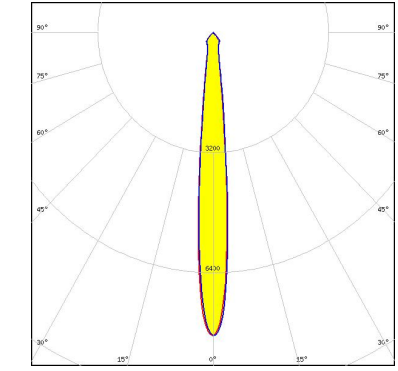
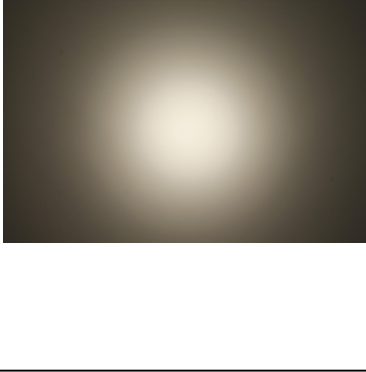
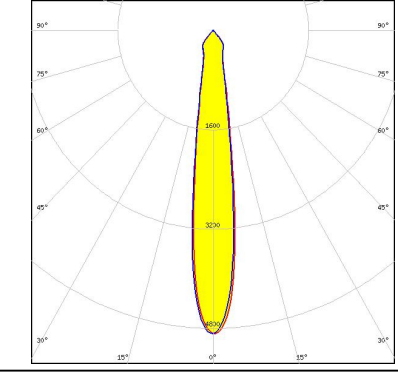
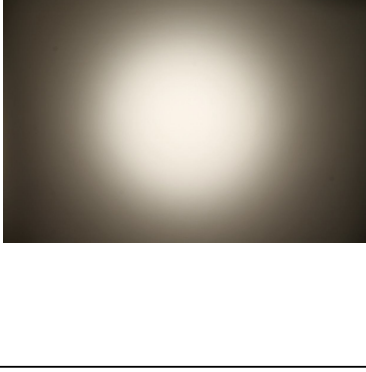
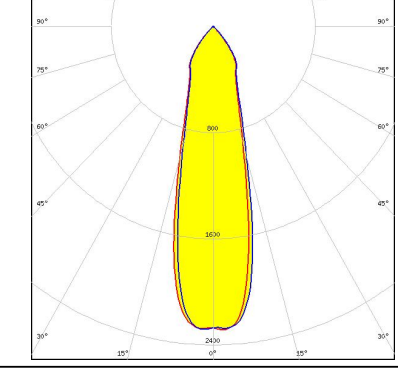

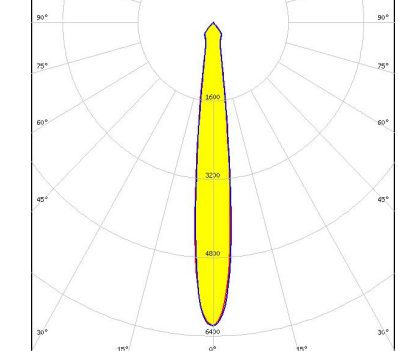
Component	Type	Material	Colour	Coating
ANGELETTE-S-PLAIN	Reflector	PC	metal	



#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 15.0°            Efficiency 87 %            Peak intensity 4.500 cd/lm            Required components:            F13671_ANGE-RZ-LENS            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 13.0°            Efficiency 91 %            Peak intensity 6.400 cd/lm            Required components:            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V22 Gen6            FWHM 21.0°            Efficiency 85 %            Peak intensity 2.800 cd/lm            Required components:            F13671_ANGE-RZ-LENS            IDEAL: 50-2204-CT + 50-2100AN</p>		
<p>bridgelux.</p> <p>LED V22 Gen6            FWHM 19.0°            Efficiency 90 %            Peak intensity 3.500 cd/lm            Required components:            IDEAL: 50-2204-CT + 50-2100AN</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO13            FWHM 11.0°            Efficiency 90 %            Peak intensity 8.100 cd/lm            Required components:            C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18            FWHM 15.0°            Efficiency 90 %            Peak intensity 4.900 cd/lm            Required components:            C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO29            FWHM 27.0°            Efficiency 90 %            Peak intensity 2.300 cd/lm            Required components:            C13584_CLAMP-VERO29</p>		
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM 13.0°            Efficiency 90 %            Peak intensity 6.200 cd/lm            Required components:            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### CITIZEN

LED CLL03x/CLU03x

FWHM 15.0°

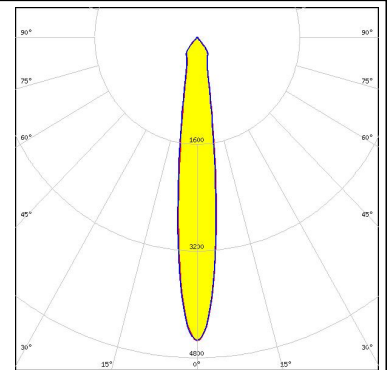
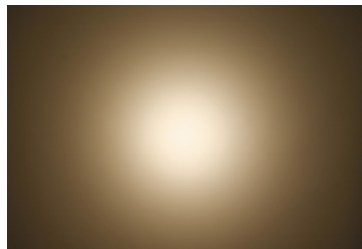
Efficiency 85 %

Peak intensity 4.500 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

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



#### CITIZEN

LED CLL03x/CLU03x

FWHM 15.0°

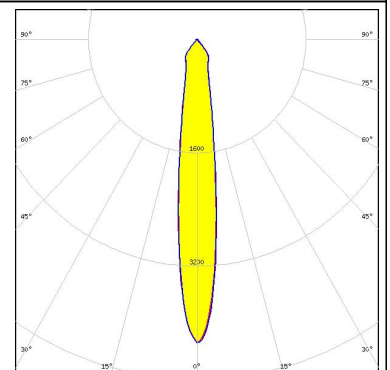
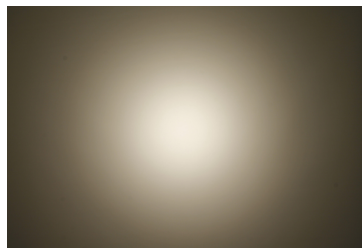
Efficiency 85 %

Peak intensity 4.300 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

IDEAL: 50-2103CT + 50-2100AN



#### CITIZEN

LED CLL03x/CLU03x

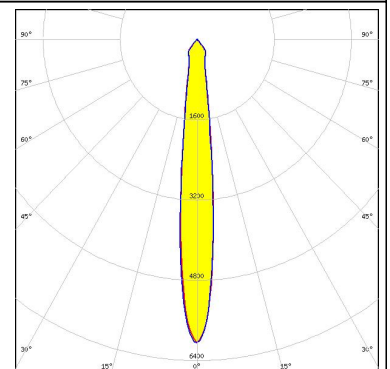
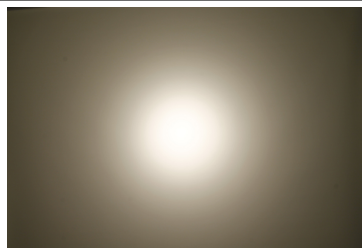
FWHM 13.0°

Efficiency 89 %

Peak intensity 6.000 cd/lm

Required components:

IDEAL: 50-2103CT + 50-2100AN



#### CITIZEN

LED CLL04x/CLU04x

FWHM 21.0°

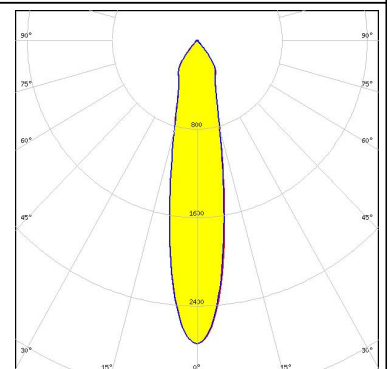
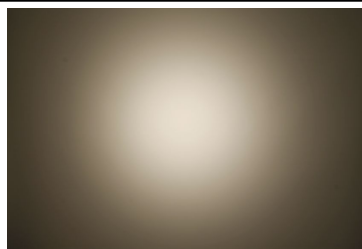
Efficiency 85 %

Peak intensity 2.700 cd/lm

Required components:

F13671\_ANGE-RZ-LENS

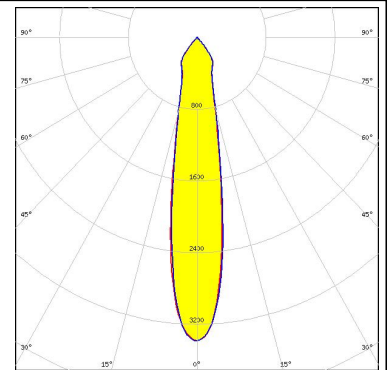
IDEAL: 50-2204-CT + 50-2100AN



#### PHOTOMETRIC DATA (MEASURED):

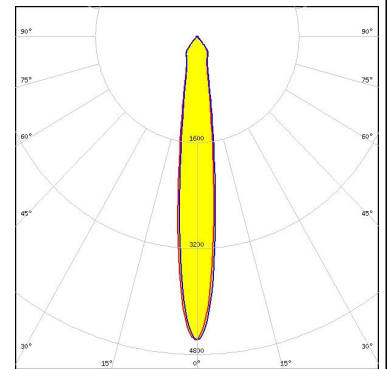
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 19.0°  
 Efficiency 90 %  
 Peak intensity 3.400 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



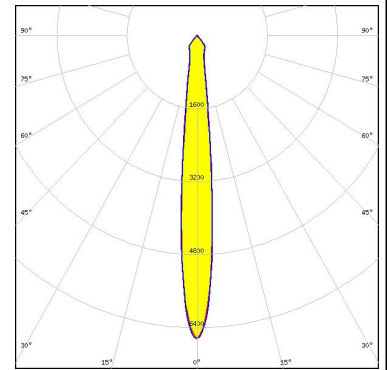
#### CITIZEN

LED CLU730/731  
 FWHM 14.0°  
 Efficiency 85 %  
 Peak intensity 4.600 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



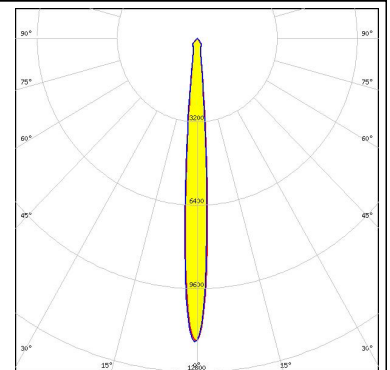
#### CITIZEN

LED CLU730/731  
 FWHM 12.0°  
 Efficiency 89 %  
 Peak intensity 6.600 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



#### CREE

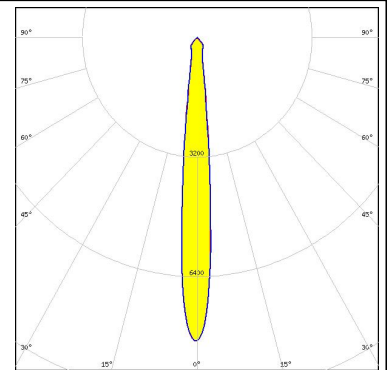
LED CXA/B 15xx  
 FWHM 8.0°  
 Efficiency 90 %  
 Peak intensity 12.000 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18



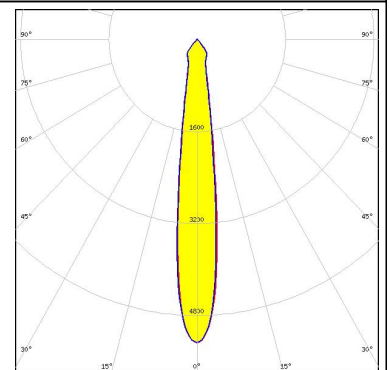
#### PHOTOMETRIC DATA (MEASURED):



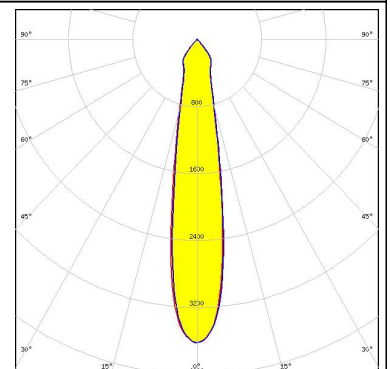
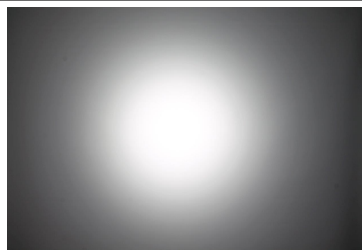
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 11.0°  
 Efficiency 90 %  
 Peak intensity 8.100 cd/lm  
 Required components:  
 C14123\_CLAMP-CXA15-18



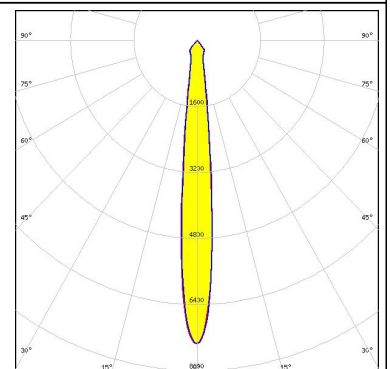
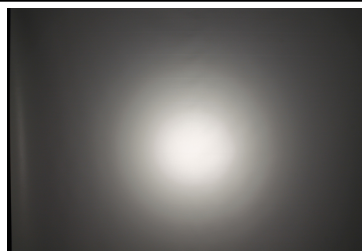
LED CXA/B 25xx  
 FWHM 15.0°  
 Efficiency 90 %  
 Peak intensity 5.300 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30



LED CXA/B 30xx  
 FWHM 19.0°  
 Efficiency 90 %  
 Peak intensity 3.600 cd/lm  
 Required components:  
 C14036\_CLAMP\_CXA25-30


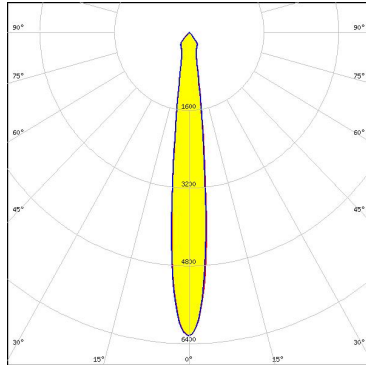
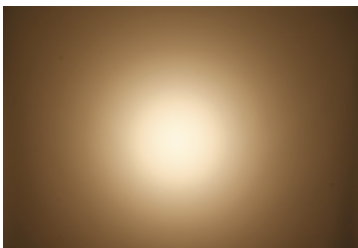
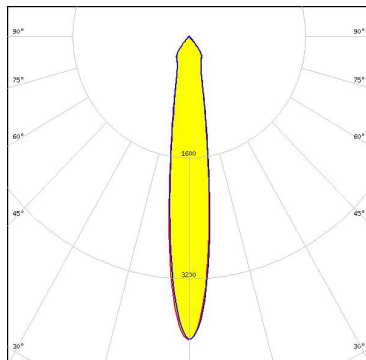

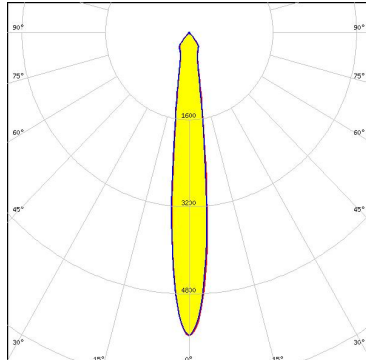

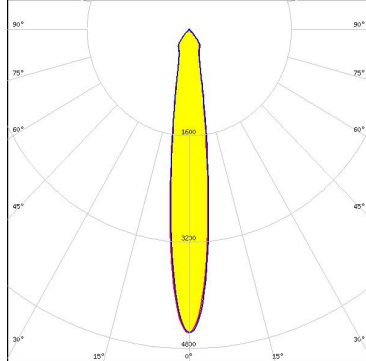


LED LUXEON CoB 1204/1205  
 FWHM 12.0°  
 Efficiency 90 %  
 Peak intensity 7.400 cd/lm  
 Required components:  
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1





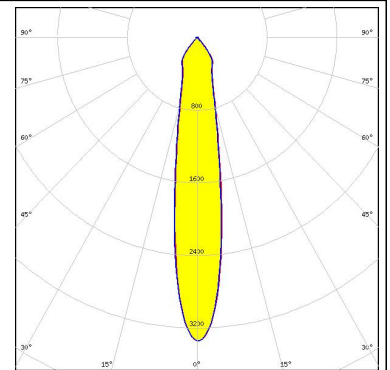
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 13.0°            Efficiency 89 %            Peak intensity 6.200 cd/lm            Required components:            TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 16.0°            Efficiency 85 %            Peak intensity 4.000 cd/lm            Required components:            F13671_ANGE-RZ-LENS            IDEAL: 50-2100SH + 50-2100AN</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 13.0°            Efficiency 89 %            Peak intensity 5.600 cd/lm            Required components:            IDEAL: 50-2100SH + 50-2100AN</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM 15.0°            Efficiency 85 %            Peak intensity 4.600 cd/lm            Required components:            F13671_ANGE-RZ-LENS            TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

#### PHOTOMETRIC DATA (MEASURED):

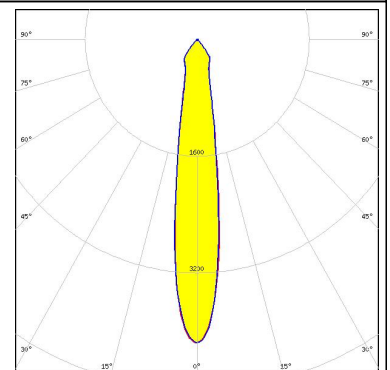
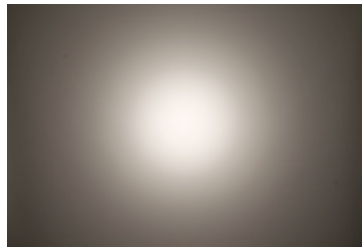
##### LUMILEDS

LED LUXEON CoB 1211  
 FWHM 18.0°  
 Efficiency 86 %  
 Peak intensity 3.300 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



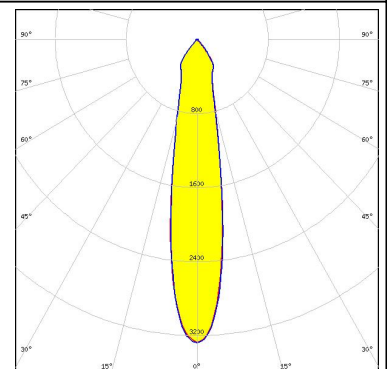
##### LUMILEDS

LED LUXEON CoB 1211  
 FWHM 17.0°  
 Efficiency 89 %  
 Peak intensity 4.200 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



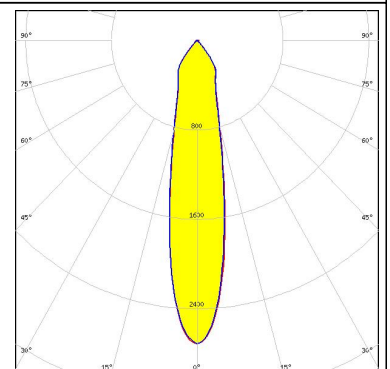
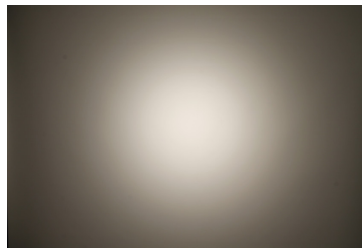
##### LUMILEDS

LED LUXEON CoB 1216/1812  
 FWHM 20.0°  
 Efficiency 89 %  
 Peak intensity 3.300 cd/lm  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



##### LUMILEDS

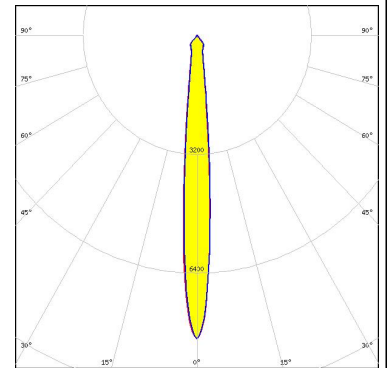
LED LUXEON CoB 1216/1812  
 FWHM 21.0°  
 Efficiency 86 %  
 Peak intensity 2.700 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



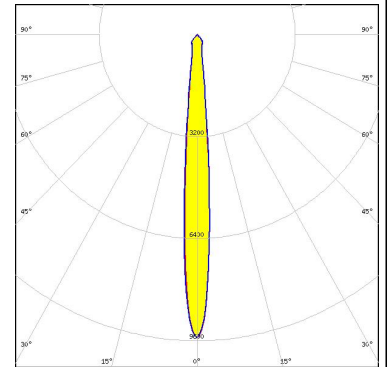
#### PHOTOMETRIC DATA (MEASURED):



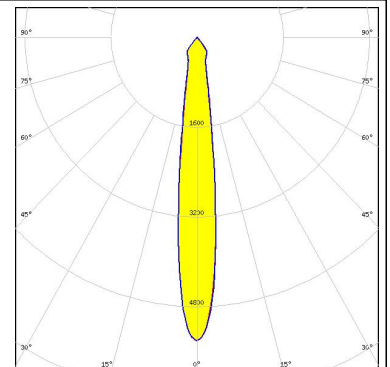
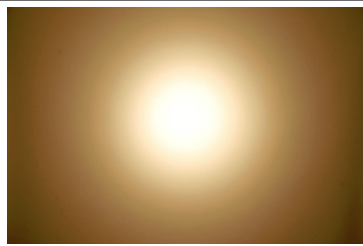
LED COB L-Type (LES 11)  
 FWHM 10.0°  
 Efficiency 89 %  
 Peak intensity 8.200 cd/lm  
 Required components:  
 IDEAL: 50-2100NC + 50-2100AN



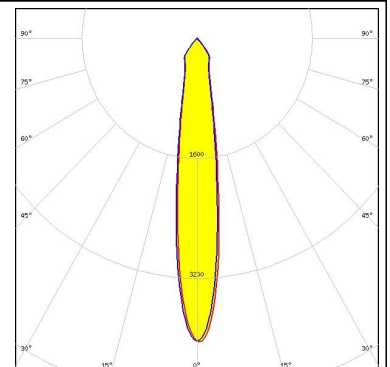
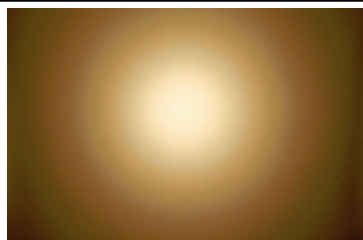
LED COB L-Type (LES 11)  
 FWHM 10.0°  
 Efficiency 90 %  
 Peak intensity 9.500 cd/lm  
 Required components:  
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



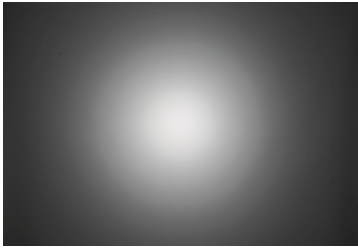
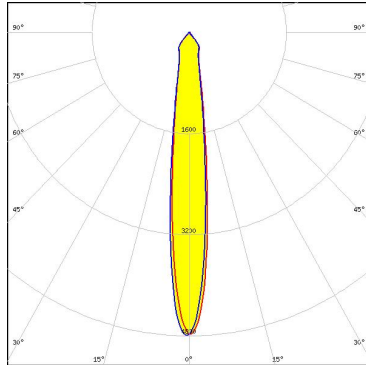

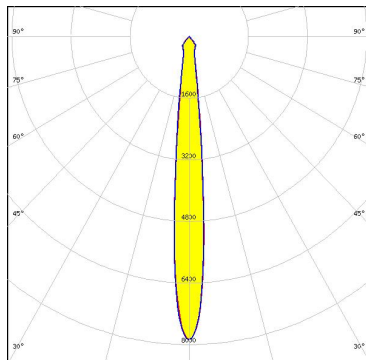
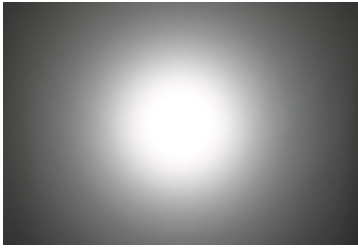
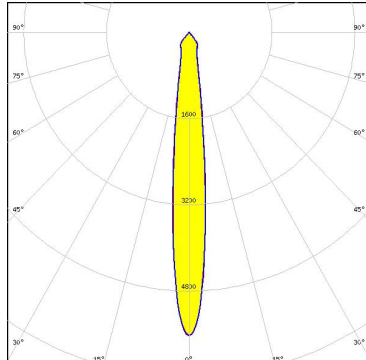
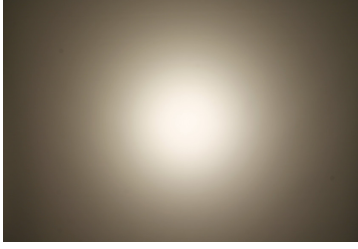
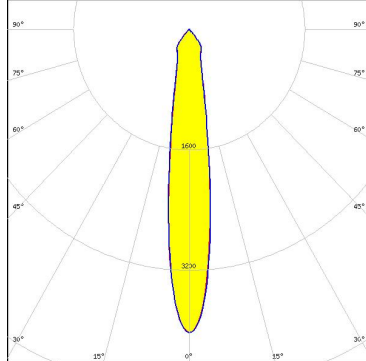
LED PrevaLED Core Z4 LES19  
 FWHM 14.0°  
 Efficiency 90 %  
 Peak intensity 5.400 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED PrevaLED Core Z4 LES19  
 FWHM 16.0°  
 Efficiency 86 %  
 Peak intensity 4.000 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213130-2



#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13 Gen2            FWHM 14.0°            Efficiency 85 %            Peak intensity 4.800 cd/lm            Required components:            F13671_ANGE-RZ-LENS            IDEAL: 50-2103CT + 50-2100AN</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13 Gen2            FWHM 11.0°            Efficiency 89 %            Peak intensity 7.900 cd/lm            Required components:            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13 Gen2            FWHM 13.0°            Efficiency 85 %            Peak intensity 5.600 cd/lm            Required components:            F13671_ANGE-RZ-LENS            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S19            FWHM 16.0°            Efficiency 85 %            Peak intensity 4.000 cd/lm            Required components:            F13671_ANGE-RZ-LENS            TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

#### PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

LED Soleriq S19

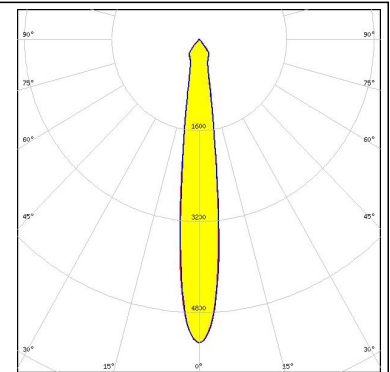
FWHM 14.0°

Efficiency 90 %

Peak intensity 5.300 cd/lm

Required components:

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



**PHILIPS**

LED Fortimo SLM L15 Standard

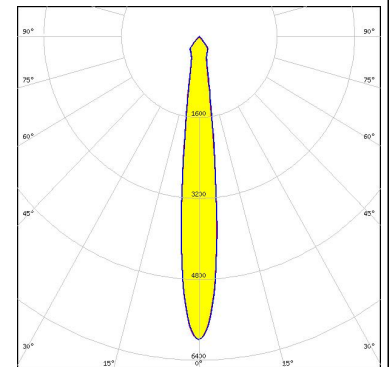
FWHM 13.0°

Efficiency 89 %

Peak intensity 6.000 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



**SAMSUNG**

LED LC040C

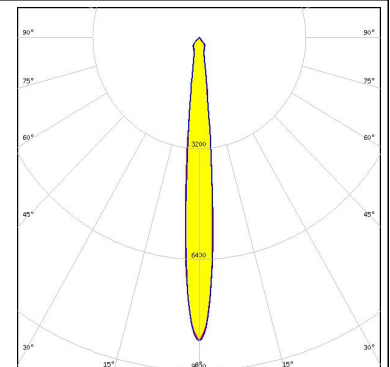
FWHM 10.0°

Efficiency 90 %

Peak intensity 8.800 cd/lm

Required components:

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



**SAMSUNG**

LED LC040C

FWHM 12.0°

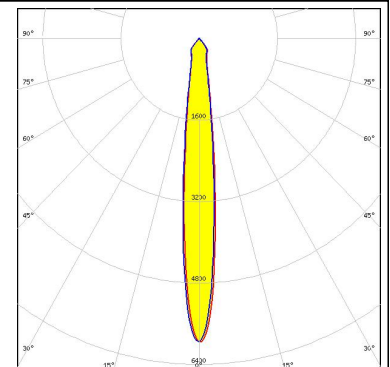
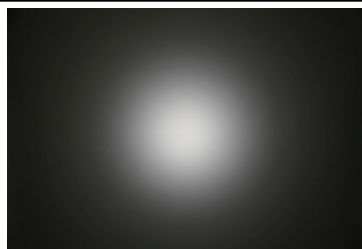
Efficiency 86 %

Peak intensity 6.000 cd/lm


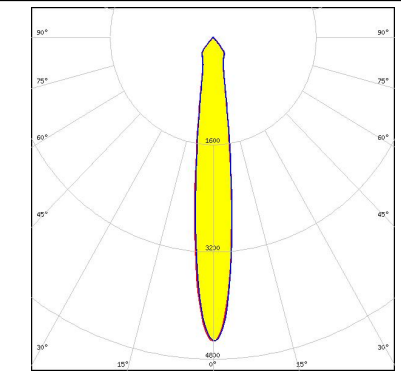
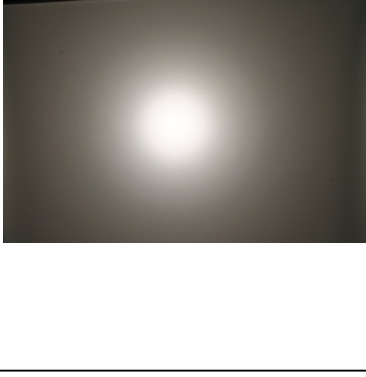
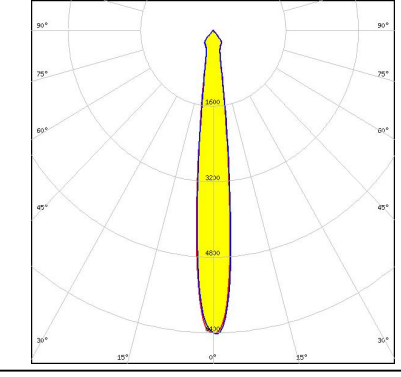

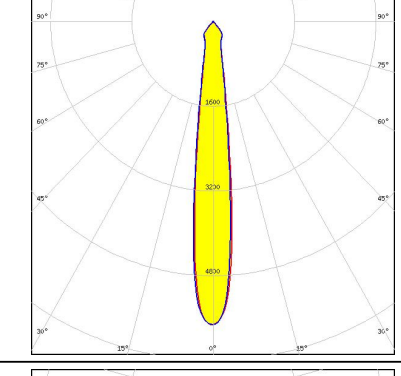

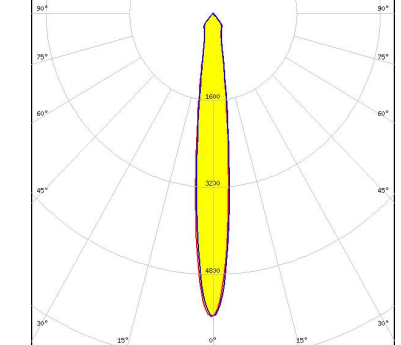
Required components:

F13671\_ANGE-RZ-LENS

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



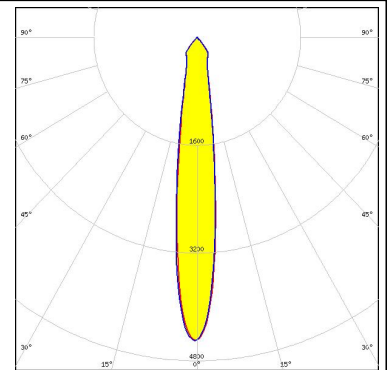
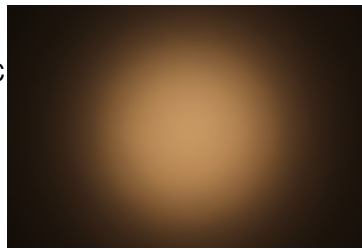
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED AC Zhaga COB            FWHM 14.0°            Efficiency 85 %            Peak intensity 4.500 cd/lm            Required components:            F13671_ANGE-RZ-LENS            Optosource: SEHSMJD-A</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED AC Zhaga COB            FWHM 13.0°            Efficiency 90 %            Peak intensity 6.400 cd/lm            Required components:            Optosource: SEHSMJD-A</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 14.5            FWHM 14.0°            Efficiency 89 %            Peak intensity 5.700 cd/lm            Required components:            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G1 11mm 1000lm 927 Sunset R EXC            FWHM 13.0°            Efficiency 87 %            Peak intensity 5.600 cd/lm            Required components:            F13671_ANGE-RZ-LENS            TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		

#### PHOTOMETRIC DATA (MEASURED):

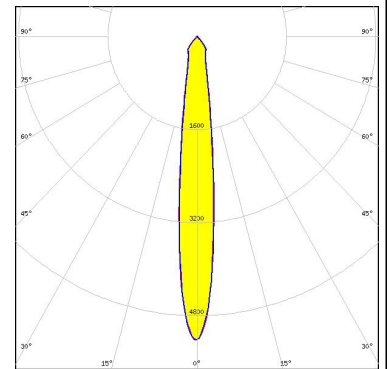
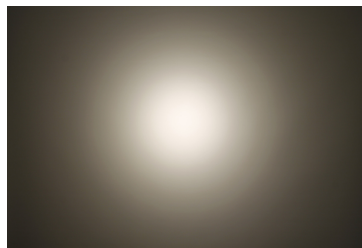
#### TRIDONIC

LED SLE G1 15mm 2000lm 927 Sunset R EXC  
 FWHM 15.0°  
 Efficiency 87 %  
 Peak intensity 4.500 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



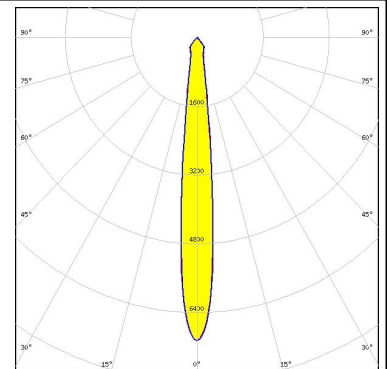
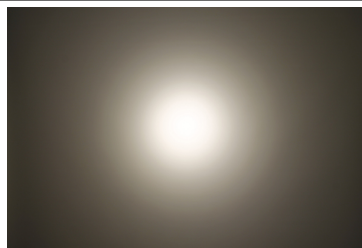
#### VS LIGHTING SOLUTIONS

LED WU-M-484  
 FWHM 13.0°  
 Efficiency 85 %  
 Peak intensity 5.200 cd/lm  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



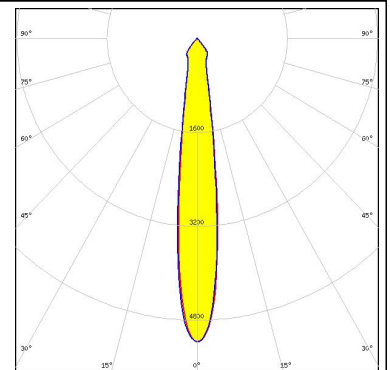
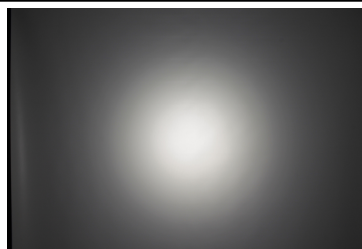
#### VS LIGHTING SOLUTIONS

LED WU-M-484  
 FWHM 12.0°  
 Efficiency 89 %  
 Peak intensity 7.100 cd/lm  
 Required components:  
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



#### XICATO

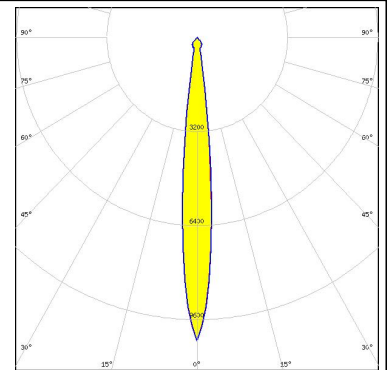
LED XIM - 19mm LES  
 FWHM 15.0°  
 Efficiency 91 %  
 Peak intensity 5.200 cd/lm  
 Required components:  
 C16491\_XTM-ADAPTER-50-A



#### PHOTOMETRIC DATA (SIMULATED):

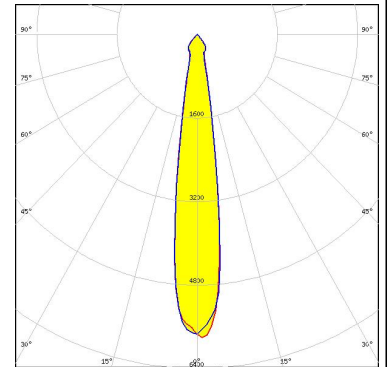
bridgelux.

LED V13 Gen7  
FWHM 11.0°  
Efficiency 92 %  
Peak intensity 10.320 cd/lm  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 477 Typ L1



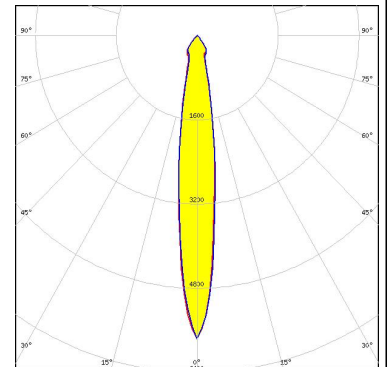
bridgelux.

LED V22 Gen7  
FWHM 16.0°  
Efficiency 94 %  
Peak intensity 5.815 cd/lm  
Required components:  
C13584\_CLAMP-VERO29  
Bender Wirth: 431 Typ L3



bridgelux.

LED V22 Gen7  
FWHM 14.0°  
Efficiency 94 %  
Peak intensity 5.760 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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