

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

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

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









#### **ANGELETTE-WW**

~60° wide beam

#### **TECHNICAL SPECIFICATIONS:**

**Dimensions** Ø 110.0 mm

57.3 mm Height Fastening socket

Colour metal

Box size 398 x 298 x 265 mm

Box weight 5.3 kg Quantity in Box 120 pcs yes 🕕 **ROHS** compliant

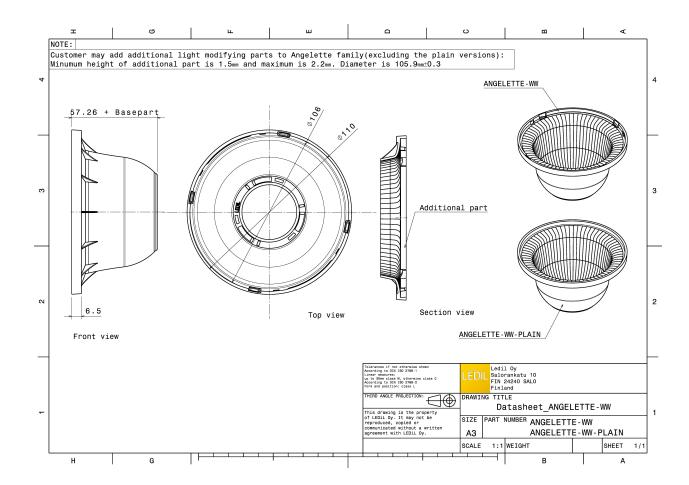


#### **MATERIAL SPECIFICATIONS:**

Component **Type** Material Colour Coating **ANGELETTE-WW** Reflector PC metal

Published: 30/04/2018 Last update: 08/02/2017 Subject to change without prior notice 1/21





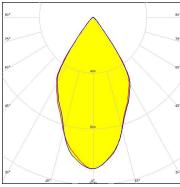
## PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED V13 Gen7
FWHM 60.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:

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





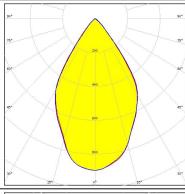
bridgelux.

LED V13 Gen7
FWHM 65.0°
Efficiency 85 %
Peak intensity 0.900 cd/lm
Required components:

F13671\_ANGE-RZ-LENS

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

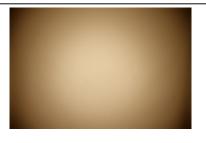


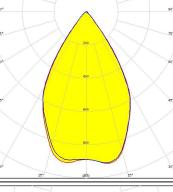


bridgelux.

LED V22 Gen6
FWHM 63.0°
Efficiency 89 %
Peak intensity 0.920 cd/lm
Required components:

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

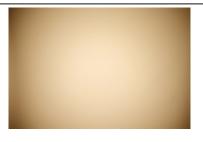


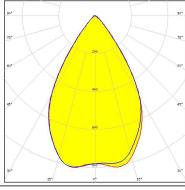


bridgelux.

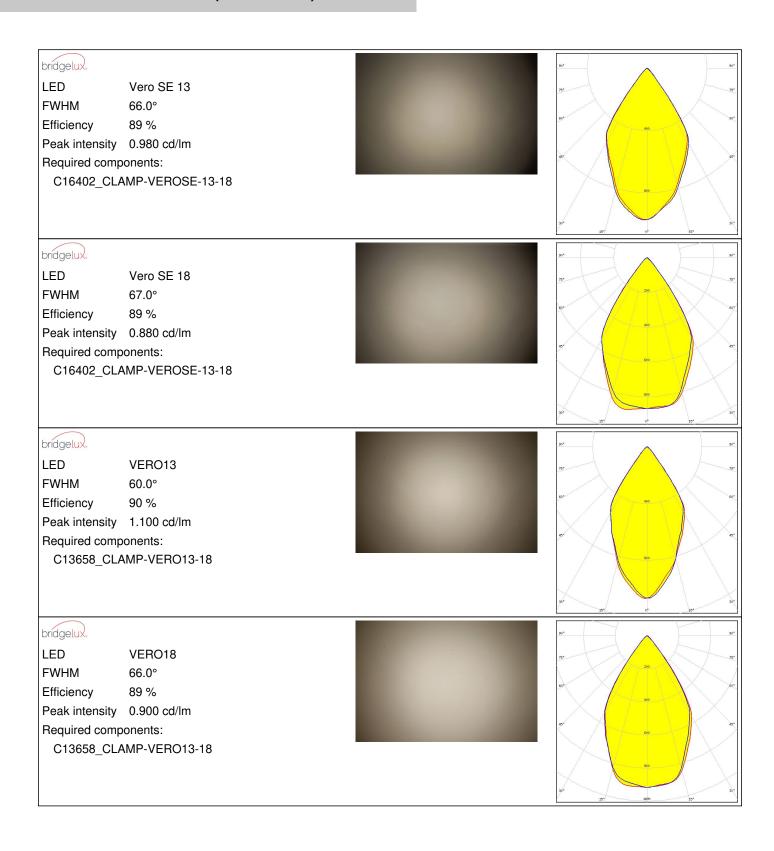
LED V22 Gen6
FWHM 65.0°
Efficiency 85 %
Peak intensity 0.810 cd/lm
Required components:
F13671\_ANGE-RZ-LENS

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





## PHOTOMETRIC DATA (MEASURED):

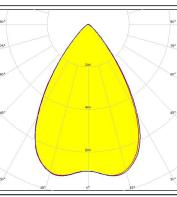


## PHOTOMETRIC DATA (MEASURED):



LED VERO29
FWHM 69.0°
Efficiency 85 %
Peak intensity 0.700 cd/lm
Required components:
C13584\_CLAMP-VERO29
F13671\_ANGE-RZ-LENS

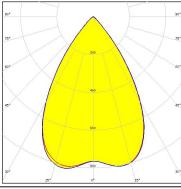




#### bridgelux.

LED VERO29
FWHM 68.0°
Efficiency 90 %
Peak intensity 0.800 cd/lm
Required components:
C13584\_CLAMP-VERO29



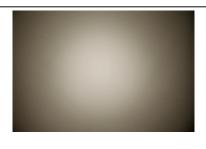


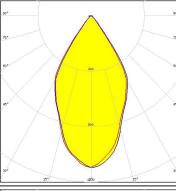
## **CITIZEN**

LED CLL03x/CLU03x

FWHM 59.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:

IDEAL: 50-2103CT + 50-2100AN





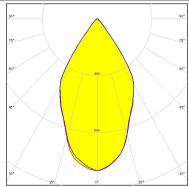
## **CITIZEN**

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





## PHOTOMETRIC DATA (MEASURED):

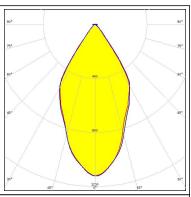
# **CITIZEN**

LED CLU730/731

FWHM 57.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:

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





## CREE &

LED CMA2550

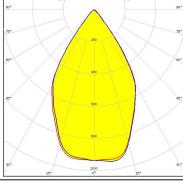
FWHM 64.0° Efficiency 90 %

Peak intensity 0.950 cd/lm

Required components:

C14036\_CLAMP\_CXA25-30





# CREE 🕏

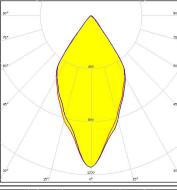
LED CXA/B 15xx

FWHM 55.0° Efficiency 90 % Peak intensity 1.100 cd/lm

Required components:

C14123\_CLAMP-CXA15-18





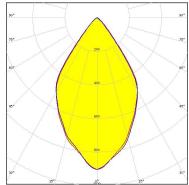
# CREE 🕏

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



### PHOTOMETRIC DATA (MEASURED):

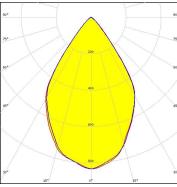
# CREE 💠

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



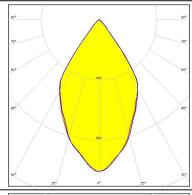


## CREE ÷

LED CXA/B 1816 & CXA/B 1820 & CXA 1850

**FWHM** 64.0° 90 % Efficiency Peak intensity 1.000 cd/lm Required components: C14123\_CLAMP-CXA15-18





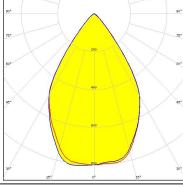
# **CREE** ÷

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





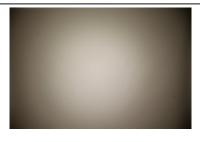
# CREE 🚓

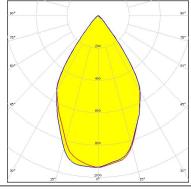
LED CXA/B 25xx

**FWHM** 65.0° 89 % Efficiency Peak intensity 0.900 cd/lm

Required components:

C14036\_CLAMP\_CXA25-30





## PHOTOMETRIC DATA (MEASURED):

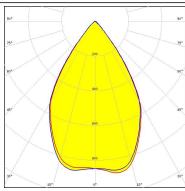
# CREE 💠

LED CXA/B 30xx

FWHM 66.0°
Efficiency 90 %
Peak intensity 0.900 cd/lm
Required components:

C14036\_CLAMP\_CXA25-30



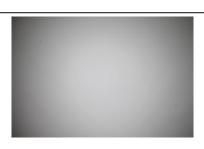


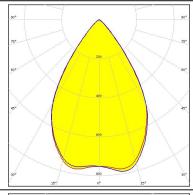
## CREE \$

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





## **UMILEDS**

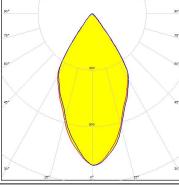
LED LUXEON CoB 1204/1205

FWHM 58.0°
Efficiency 86 %
Peak intensity 1.100 cd/lm
Required components:

F15176\_ANGELETTE-LENS

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





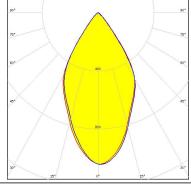
## **DESCRIPTION** LUMILEDS

LED LUXEON CoB 1204/1205

FWHM 59.0°
Efficiency 86 %
Peak intensity 1.000 cd/lm
Required components:
F15412\_ANGELETTE-DL

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





## PHOTOMETRIC DATA (MEASURED):

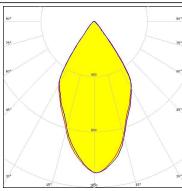
## **MUMILEDS**

LED LUXEON CoB 1204/1205

FWHM 59.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:

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



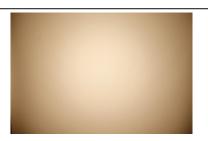


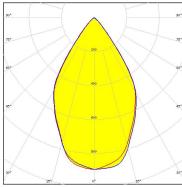
## **MUMILEDS**

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





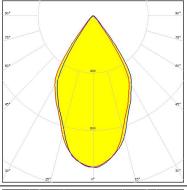
## **MUMILEDS**

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



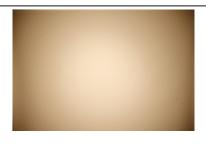


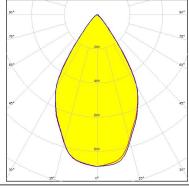
## **DESCRIPTION** LUMILEDS

LED LUXEON CoB 1208

FWHM 63.0°
Efficiency 84 %
Peak intensity 0.890 cd/lm
Required components:
F13671\_ANGE-RZ-LENS

IDEAL: 50-2100SH + 50-2100AN





## PHOTOMETRIC DATA (MEASURED):

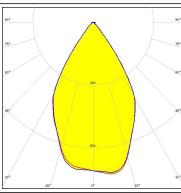
## **MUMILEDS**

LED LUXEON CoB 1208

FWHM 63.0°
Efficiency 89 %
Peak intensity 0.970 cd/lm
Required components:

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





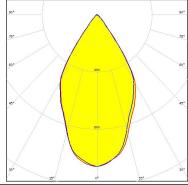
## **MUMILEDS**

LED LUXEON CoB 1208

FWHM 61.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:

IDEAL: 50-2100SH + 50-2100AN





## **MUMILEDS**

LED LUXEON CoB 1211

FWHM 64.0°

Efficiency 85 %

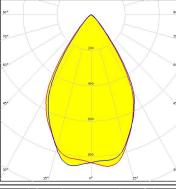
Peak intensity 0.870 cd/lm

Required components:

F13671 ANGE-RZ-LENS

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





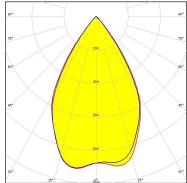
## **DESCRIPTION** LUMILEDS

LED LUXEON CoB 1216/1812

FWHM 63.0°
Efficiency 89 %
Peak intensity 0.920 cd/lm
Required components:

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





## PHOTOMETRIC DATA (MEASURED):

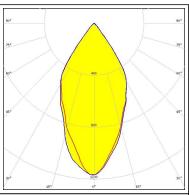


LED CDM-14 (Dim-To-Warm)

FWHM 53.0°
Efficiency 88 %
Peak intensity 1.200 cd/lm
Required components:

C13658\_CLAMP-VERO13-18 Bender Wirth: 491 Typ L2





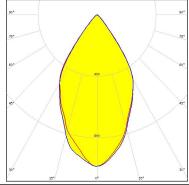
## **ELUMINUS**

LED CDM-14 (Dim-To-Warm)

FWHM 60.0°
Efficiency 84 %
Peak intensity 0.990 cd/lm
Required components:

C13658\_CLAMP-VERO13-18 F13671\_ANGE-RZ-LENS Bender Wirth: 491 Typ L2





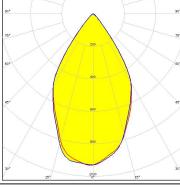
#### **ELUMINUS**

LED CDM-18 (Dim-To-Warm)

FWHM 63.0°
Efficiency 84 %
Peak intensity 0.900 cd/lm
Required components:

C13658\_CLAMP-VERO13-18 F13671\_ANGE-RZ-LENS Bender Wirth: 491 Typ L2





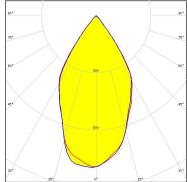
## LUMINUS

LED CDM-18 (Dim-To-Warm)

FWHM 60.0°
Efficiency 88 %
Peak intensity 1.100 cd/lm
Required components:

C13658\_CLAMP-VERO13-18 Bender Wirth: 491 Typ L2







## PHOTOMETRIC DATA (MEASURED):

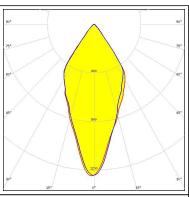


LED CDM-9 (Dim-To-Warm)

FWHM 46.0°
Efficiency 88 %
Peak intensity 1.200 cd/lm
Required components:

C13658\_CLAMP-VERO13-18 Bender Wirth: 490 Typ L1





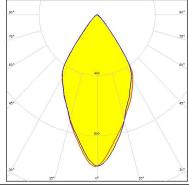
## **ELUMINUS**

LED CDM-9 (Dim-To-Warm)

FWHM 57.0°
Efficiency 84 %
Peak intensity 1.000 cd/lm
Required components:

C13658\_CLAMP-VERO13-18 F13671\_ANGE-RZ-LENS Bender Wirth: 490 Typ L1





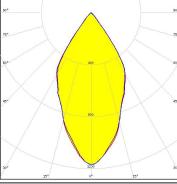
## **ELUMINUS**

LED CTM-14 (Tunable White)

FWHM 55.0°
Efficiency 89 %
Peak intensity 1.200 cd/lm
Required components:
C13584 CLAMP-VFRO29

C13584\_CLAMP-VERO29 Bender Wirth: 442 Typ L3





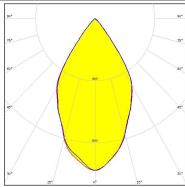
## ELUMINUS

LED CTM-14 (Tunable White)

FWHM 61.0°
Efficiency 84 %
Peak intensity 0.980 cd/lm
Required components:

C13584\_CLAMP-VERO29 F13671\_ANGE-RZ-LENS Bender Wirth: 442 Typ L3





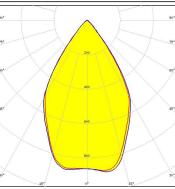
## PHOTOMETRIC DATA (MEASURED):



LED CTM-22 (Tunable White)

FWHM 65.0°
Efficiency 87 %
Peak intensity 0.890 cd/lm
Required components:
C13584\_CLAMP-VERO29
Bender Wirth: 494 Typ L3



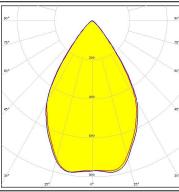


## ELUMINUS

LED CTM-22 (Tunable White)

FWHM 66.0°
Efficiency 83 %
Peak intensity 0.790 cd/lm
Required components:
C13584\_CLAMP-VERO29
F13671\_ANGE-RZ-LENS
Bender Wirth: 494 Typ L3





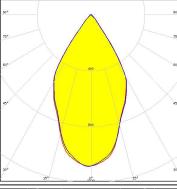
## *MNICHIA*

LED COB J-Type
FWHM 60.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm

Required components:

IDEAL: 50-2103NC + 50-2100AN





## **WNICHIA**

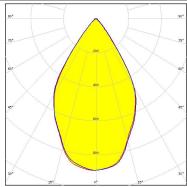
LED COB J-Type FWHM 63.0°

Efficiency 85 % Peak intensity 0.890 cd/lm

Required components: F13671\_ANGE-RZ-LENS

IDEAL: 50-2103NC + 50-2100AN





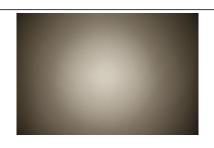
## PHOTOMETRIC DATA (MEASURED):

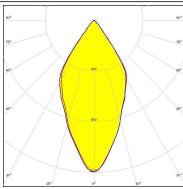
### **WNICHIA**

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





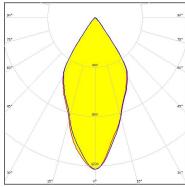
## **WNICHIA**

LED COB L-Type (LES 11)

FWHM 51.0°
Efficiency 88 %
Peak intensity 1.200 cd/lm
Required components:

IDEAL: 50-2100NC + 50-2100AN





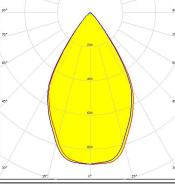
## **OSRAM**

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



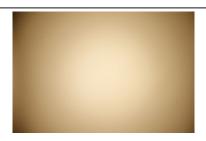


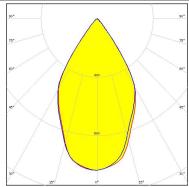
## **OSRAM**

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





## PHOTOMETRIC DATA (MEASURED):

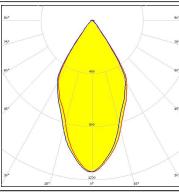
## **OSRAM**

LED Soleriq S13 Gen2

FWHM 56.0°
Efficiency 88 %
Peak intensity 1.100 cd/lm
Required components:

IDEAL: 50-2103CT + 50-2100AN





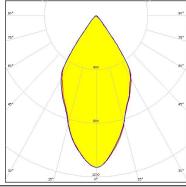
#### OSRAM Opto Semiconductore

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





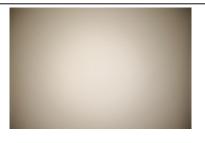
#### OSRAM Opto Semicondi

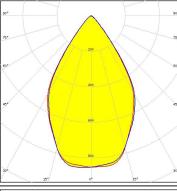
LED Soleriq S19

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

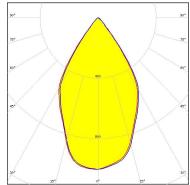
Soleriq S19

FWHM 63.0° Efficiency 89 % Peak intensity 1.000 cd/lm

Required components:

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





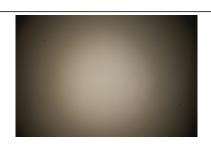
### PHOTOMETRIC DATA (MEASURED):

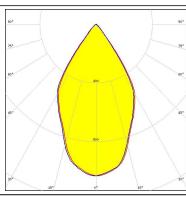
## **PHILIPS**

LED Fortimo SLM L15 Standard

FWHM 62.0° Efficiency 89 % Peak intensity 1.000 cd/lm Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



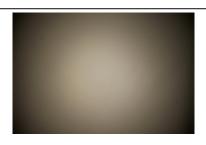


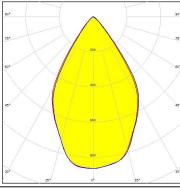
## PHILIPS

LED Fortimo SLM L15 Standard

FWHM 65.0°
Efficiency 84 %
Peak intensity 0.850 cd/lm
Required components:
F13671\_ANGE-RZ-LENS

TE: OPTIC CLIP Z50 TYPE1 2213194-1





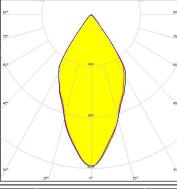
## **SAMSUNG**

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

Required components:

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



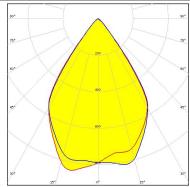




LED AC Zhaga COB

FWHM 70.0°
Efficiency 89 %
Peak intensity 0.850 cd/lm
Required components:
Optosource: SEHSMJD-A





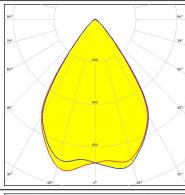
## PHOTOMETRIC DATA (MEASURED):



LED AC Zhaga COB

FWHM 71.0°
Efficiency 85 %
Peak intensity 0.740 cd/lm
Required components:
F13671\_ANGE-RZ-LENS
Optosource: SEHSMJD-A





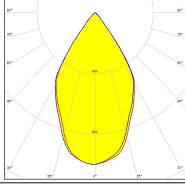


LED MJT COB LES 14.5

FWHM 64.0° Efficiency 89 % Peak intensity 1.000 cd/lm Required components:

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



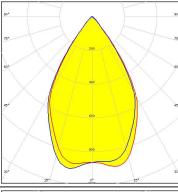




LED MJT COB LES 22

FWHM 64.0°
Efficiency 87 %
Peak intensity 0.910 cd/lm
Required components:
C13584\_CLAMP-VERO29
Bender Wirth: 431 Typ L3





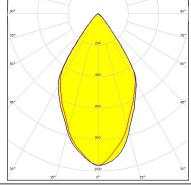
# **TRIDONIC**

LED SLE G1 11mm 1000lm 927 Sunset R EXC

FWHM 62.0° Efficiency 85 % Peak intensity 0.960 cd/lm Required components: F13671\_ANGE-RZ-LENS

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





## PHOTOMETRIC DATA (MEASURED):

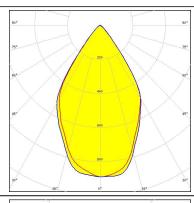
# **TRIDONIC**

LED SLE G1 15mm 2000lm 927 Sunset R EXC

FWHM 65.0°
Efficiency 85 %
Peak intensity 0.910 cd/lm
Required components:
F13671\_ANGE-RZ-LENS

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





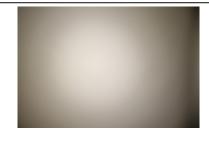
# LIGHTING SOLUTIONS

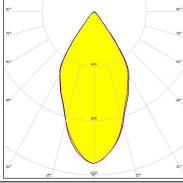
LED WU-M-484

FWHM 56.0° Efficiency 89 % Peak intensity 1.100 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1





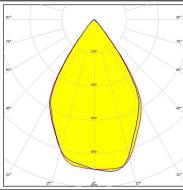
# **XICATO**

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):

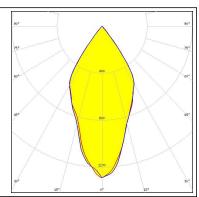
bridgelux

LED V13 Gen7 **FWHM** 51.0° Efficiency 90 %

Peak intensity 1.300 cd/lm

Required components:

C13658\_CLAMP-VERO13-18 Bender Wirth: 477 Typ L1



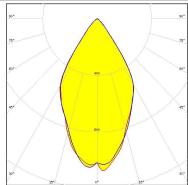
bridgelux.

LED V13 Gen7 **FWHM** 62.0° 90 % Efficiency

1.070 cd/lm Peak intensity

Required components:

IDEAL: 50-2103CT + 50-2100AN

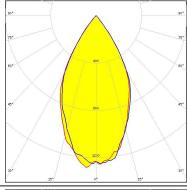


bridgelux

LED V22 Gen7 **FWHM** 55.0° Efficiency 94 % Peak intensity 1.341 cd/lm

Required components:

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



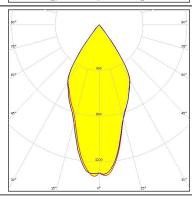
**TRIDONIC** 

LED SLE G6 LES15

**FWHM** 48.0° 89 % Efficiency Peak intensity 1.300 cd/lm

Required components:

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





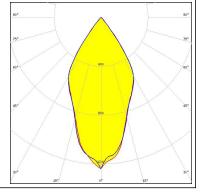
## PHOTOMETRIC DATA (SIMULATED):

# **TRIDONIC**

LED SLE G6 LES17

FWHM 52.0°
Efficiency 86 %
Peak intensity 1.240 cd/lm

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





#### **GENERAL INFORMATION:**

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### **MATERIALS:**

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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