

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-XW

White version with ~91° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions Ø 82.0 mm

Height 31 mm

Fastening socket
Colour white

Box size 480 x 280 x 300 mm

Box weight 12.3 kg

Quantity in Box 900 pcs

ROHS compliant yes 1



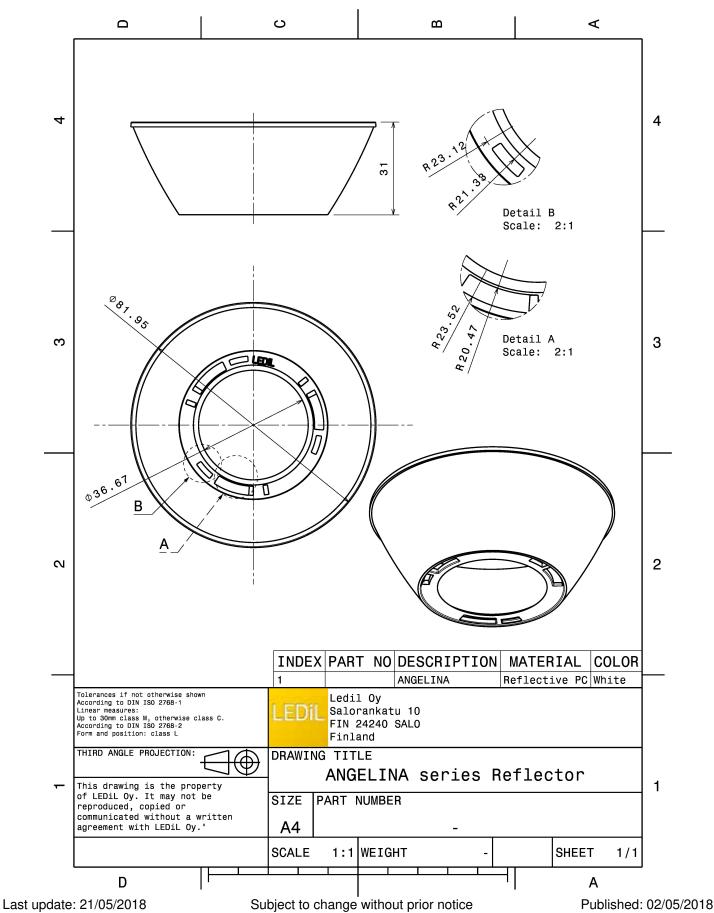
MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourCoatingANGELINA-XWReflectorHRPCwhite



PRODUCT DATASHEET

F13838_ANGELINA-XW



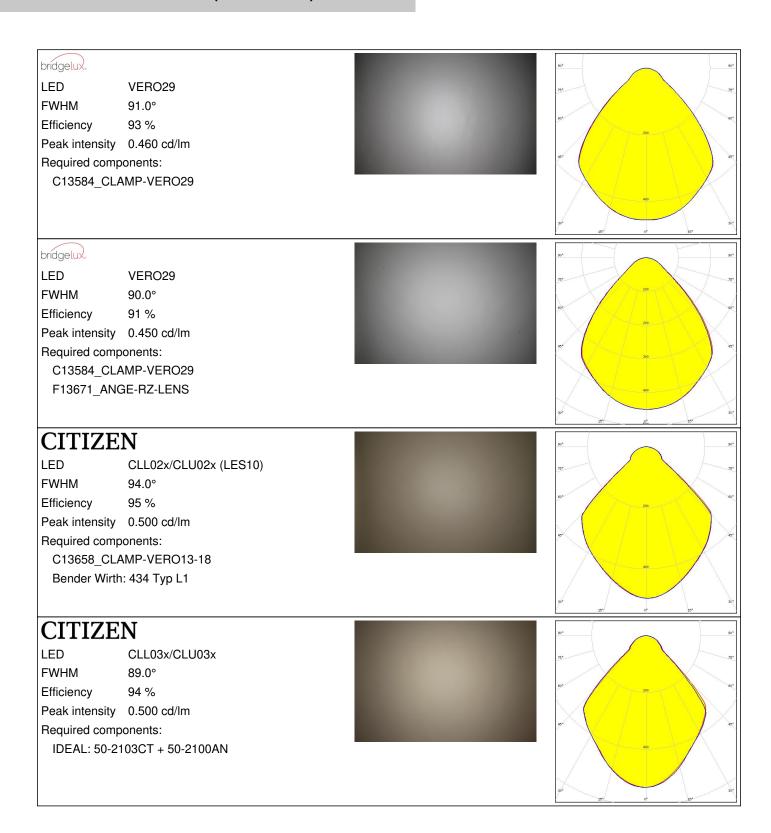
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):





PHOTOMETRIC DATA (MEASURED):





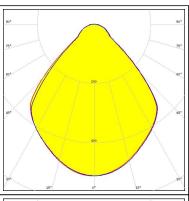
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL04x/CLU04x

FWHM 88.0°
Efficiency 95 %
Peak intensity 0.510 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



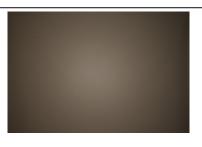


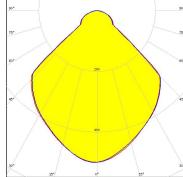
CITIZEN

LED CLU700/701

FWHM 95.0°
Efficiency 95 %
Peak intensity 0.500 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1





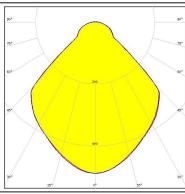
CITIZEN

LED CLU720/721

FWHM 93.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

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





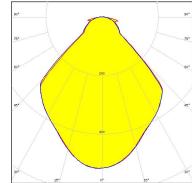
CITIZEN

LED CLU720/721

FWHM 89.0°
Efficiency 94 %
Peak intensity 0.540 cd/lm
Required components:

IDEAL: 50-2103CT + 50-2100AN





PHOTOMETRIC DATA (MEASURED):

CREE \$

LED CMA2550

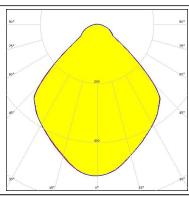
FWHM 92.0° Efficiency 94 %

Peak intensity 0.510 cd/lm

Required components:

C14036_CLAMP_CXA25-30





CREE \$

LED CMA3090

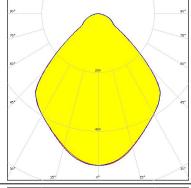
FWHM 90.0°

Efficiency 97 %
Peak intensity 0.500 cd/lm

Required components:

C14036_CLAMP_CXA25-30





CREE 🕏

LED CXA/B 15xx

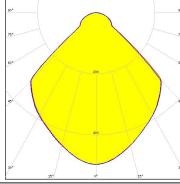
FWHM 94.0° Efficiency 94 %

Peak intensity 0.500 cd/lm

Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 441 Typ L1





CREE \$

LED CXA/B 15xx

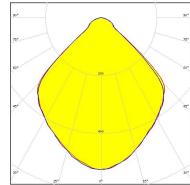
FWHM 94.0° Efficiency 94 %

Peak intensity 0.530 cd/lm

Required components:

C14123_CLAMP-CXA15-18





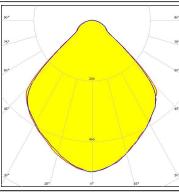
PHOTOMETRIC DATA (MEASURED):

CREE \$

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

FWHM 94.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:
C14123_CLAMP-CXA15-18





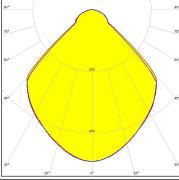
CREE &

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

FWHM 94.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 437 Typ L1





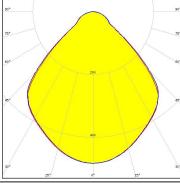
CREE \$

LED CXA/B 30xx

FWHM 91.0°
Efficiency 94 %
Peak intensity 0.480 cd/lm
Required components:

C14036_CLAMP_CXA25-30





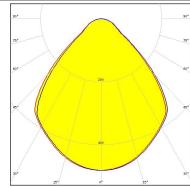
CREE 🕏

LED CXA/B 3590

FWHM 90.0°
Efficiency 94 %
Peak intensity 0.480 cd/lm
Required components:

IDEAL: 50-2303CR + 50-2300AN







PHOTOMETRIC DATA (MEASURED):

EVERLIGHT

LED CHI3030 19W

FWHM 88.0°
Efficiency 91 %
Peak intensity 0.500 cd/lm
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



EVERLIGHT

LED CHI3030 29W

FWHM 89.0°
Efficiency 91 %
Peak intensity 0.500 cd/lm
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS

Bender Wirth: 468 Typ L3



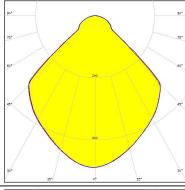
MUMILEDS

LED LUXEON CoB 1202/1203

FWHM 95.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 438 Typ L1



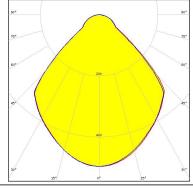


DESCRIPTION LUMILEDS

LED LUXEON CoB 1211

FWHM 91.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3





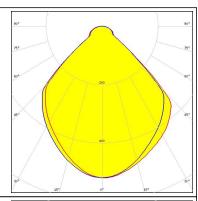
PHOTOMETRIC DATA (MEASURED):



LED LUXEON K12

FWHM 92.0°
Efficiency 94 %
Peak intensity 0.520 cd/lm
Required components:

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

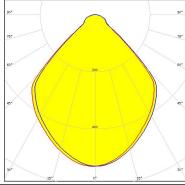


MUMILEDS

LED LUXEON K16

FWHM 90.0°
Efficiency 94 %
Peak intensity 0.530 cd/lm
Required components:
BJB: 47.319.2070

5.0°
4 %
530 cd/lm
ents:



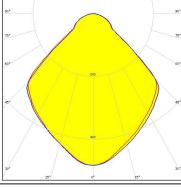
ELUMINUS

LED CDM-14 (Dim-To-Warm)

FWHM 94.0°
Efficiency 95 %
Peak intensity 0.480 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 491 Typ L2





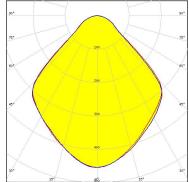
LUMINUS

LED CDM-14 (Dim-To-Warm)

FWHM 94.0°
Efficiency 90 %
Peak intensity 0.450 cd/lm
Required components:

C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 491 Typ L2







PHOTOMETRIC DATA (MEASURED):

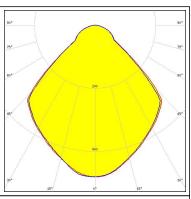


LED CDM-18 (Dim-To-Warm)

FWHM 93.0°
Efficiency 94 %
Peak intensity 0.400 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 491 Typ L2





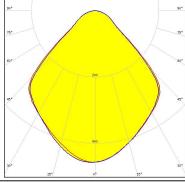
ELUMINUS

LED CDM-18 (Dim-To-Warm)

FWHM 93.0°
Efficiency 91 %
Peak intensity 0.460 cd/lm
Required components:

C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 491 Typ L2





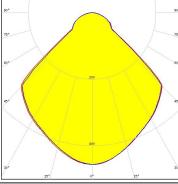
ELUMINUS

LED CDM-9 (Dim-To-Warm)

FWHM 95.0°
Efficiency 94 %
Peak intensity 0.460 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 490 Typ L1





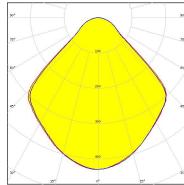
ELUMINUS

LED CDM-9 (Dim-To-Warm)

FWHM 95.0°
Efficiency 89 %
Peak intensity 0.430 cd/lm
Required components:

C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 490 Typ L1







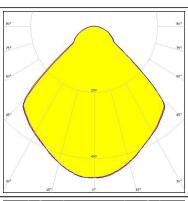
PHOTOMETRIC DATA (MEASURED):



LED CTM-14 (Tunable White)

FWHM 94.0°
Efficiency 94 %
Peak intensity 0.460 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 442 Typ L3



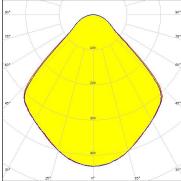


ELUMINUS

LED CTM-14 (Tunable White)

FWHM 94.0°
Efficiency 88 %
Peak intensity 0.430 cd/lm
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 442 Typ L3

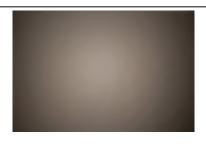


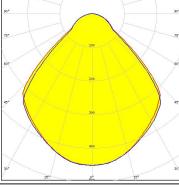


ELUMINUS

LED CTM-22 (Tunable White)

FWHM 93.0°
Efficiency 93 %
Peak intensity 0.450 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 494 Typ L3





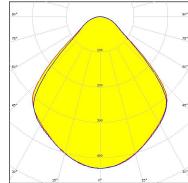
ELUMINUS

LED CTM-22 (Tunable White)

FWHM 92.0°
Efficiency 88 %
Peak intensity 0.430 cd/lm
Required components:

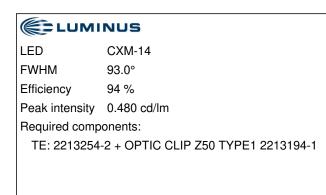
C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS Bender Wirth: 494 Typ L3



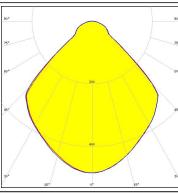




PHOTOMETRIC DATA (MEASURED):





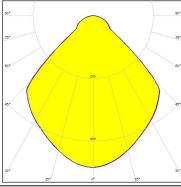


WNICHIA

LED COB J-Type **FWHM** 93.0° 95 % Efficiency Peak intensity 0.480 cd/lm Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 463 Typ L2



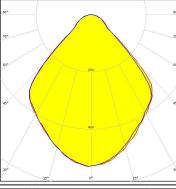


WNICHIA

LED COB J-Type **FWHM** 88.0° Efficiency 92 % Peak intensity 0.530 cd/lm Required components:

IDEAL: 50-2103NC + 50-2100AN



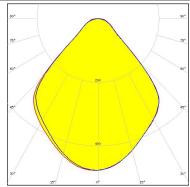


WNICHIA

LED COB J-Type **FWHM** 89.0° 90 % Efficiency Peak intensity 0.480 cd/lm Required components: F13671_ANGE-RZ-LENS

IDEAL: 50-2103NC + 50-2100AN





PHOTOMETRIC DATA (MEASURED):

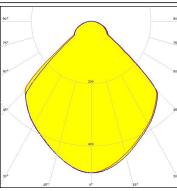
WNICHIA

LED COB L-Type (LES 11)

FWHM 94.0°
Efficiency 94 %
Peak intensity 0.490 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 438 Typ L1

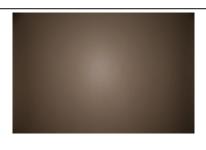


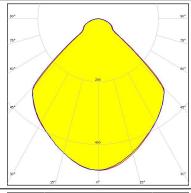


WNICHIA

LED COB L-Type (LES 11)

FWHM 94.0°
Efficiency 94 %
Peak intensity 0.480 cd/lm
Required components:
Molex: 180580-0005





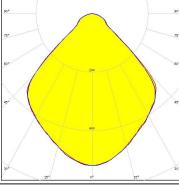
WNICHIA

LED COB L-Type (LES 11)

FWHM 92.0°
Efficiency 94 %
Peak intensity 0.520 cd/lm
Required components:

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





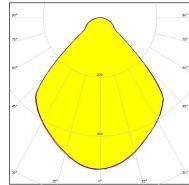
OSRAM

LED PrevaLED Core AC (LEP-2000)

FWHM 89.0°
Efficiency 94 %
Peak intensity 0.510 cd/lm
Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1





PHOTOMETRIC DATA (MEASURED):

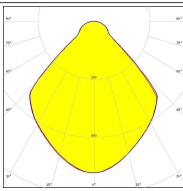
OSRAM

LED PrevaLED Core AC (LEP-800)

FWHM 90.0° Efficiency 94 % Peak intensity 0.520 cd/lm Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1





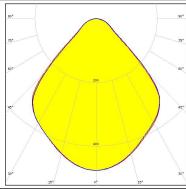
OSRAM

LED PrevaLED Core Z4 LES19

FWHM 90.0° 90 % Efficiency Peak intensity 0.480 cd/lm Required components: F13671_ANGE-RZ-LENS

TE: OPTIC CLIP Z50 TYPE1 2213194-1





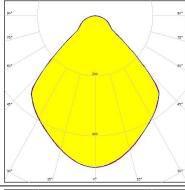
OSRAM

LED PrevaLED Core Z4 LES19

FWHM 90.0° Efficiency 94 % Peak intensity 0.510 cd/lm Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1





OSRAM Opto Semiconductors

LED

Soleriq S13

FWHM

93.0°

Efficiency

94 %

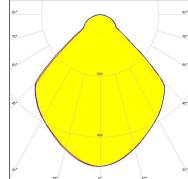
Peak intensity 0.500 cd/lm

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 437 Typ L1





PHOTOMETRIC DATA (MEASURED):

OSRAM

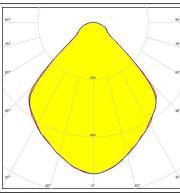
LED Soleriq S13 FWHM 92.0°

Efficiency 94 %
Peak intensity 0.500 cd/lm

Required components:

TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1





OSRAM Opto Semiconductore

LED Soleriq S19

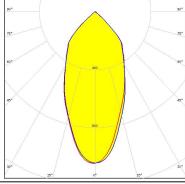
FWHM 91.0° Efficiency 94 %

Peak intensity 0.500 cd/lm

Required components:

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





OSRAM Opto Semiconductors

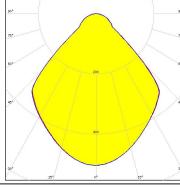
LED Soleriq S19

FWHM 90.0° Efficiency 93 % Peak intensity 0.500 cd/lm

Required components: C13584 CLAMP-VERO29

Bender Wirth: 462 Typ L3





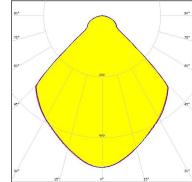
PHILIPS

LED Fortimo SLM L09 Standard

FWHM 93.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1







PHOTOMETRIC DATA (MEASURED):

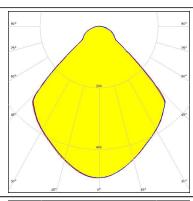
PHILIPS

LED Fortimo SLM L13 Standard

FWHM 92.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1





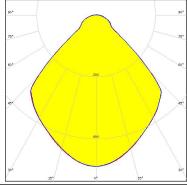
PHILIPS

LED Fortimo SLM L15 Standard

FWHM 91.0°
Efficiency 92 %
Peak intensity 0.490 cd/lm
Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1





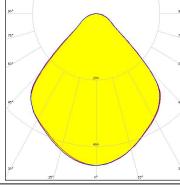
PHILIPS

LED Fortimo SLM L15 Standard

FWHM 91.0°
Efficiency 89 %
Peak intensity 0.460 cd/lm
Required components:
F13671 ANGE-RZ-LENS

TE: OPTIC CLIP Z50 TYPE1 2213194-1





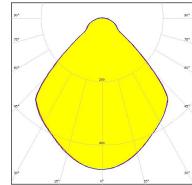
PHILIPS

LED Fortimo SLM L19 Standard

FWHM 90.0°
Efficiency 91 %
Peak intensity 0.480 cd/lm
Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1







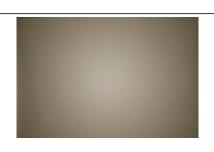
PHOTOMETRIC DATA (MEASURED):

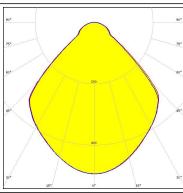
SAMSUNG

LED LC026B / 033B / 040B

FWHM 91.0°
Efficiency 94 %
Peak intensity 0.490 cd/lm
Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 450 Typ L2





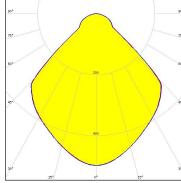
SAMSUNG

LED LC040C
FWHM 93.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm

Required components:

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



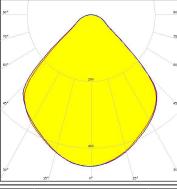


SEOUL SEMICONDUCTOR

LED AC Zhaga COB

FWHM 93.0°
Efficiency 91 %
Peak intensity 0.460 cd/lm
Required components:
F13671_ANGE-RZ-LENS



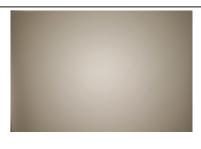


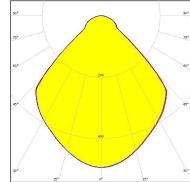


LED MJT COB LES 14.5

FWHM 92.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

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







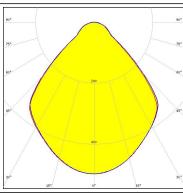
PHOTOMETRIC DATA (MEASURED):



LED MJT COB LES 22

FWHM 89.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3





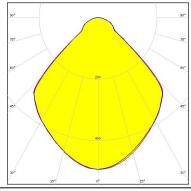
SHARP

LED Mega Zenigata (GW6DME)

FWHM 92.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

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





SHARP

LED Mega Zenigata (GW6DME)

FWHM 92.0°

Efficiency 92 %

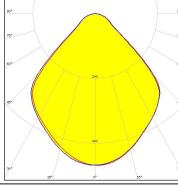
Peak intensity 0.470 cd/lm

Required components:

F13671 ANGE-RZ-LENS

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





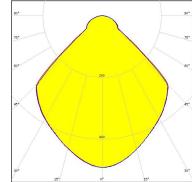
TRIDONIC

LED SLE G5 LES11

FWHM 94.0°
Efficiency 94 %
Peak intensity 0.500 cd/lm
Required components:

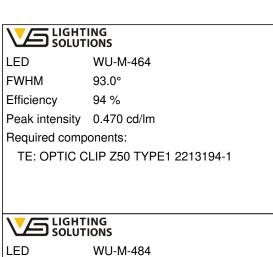
C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1



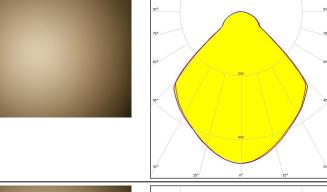


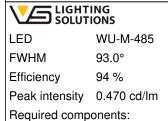


PHOTOMETRIC DATA (MEASURED):



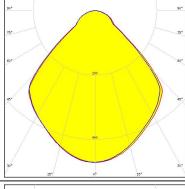


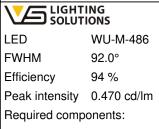




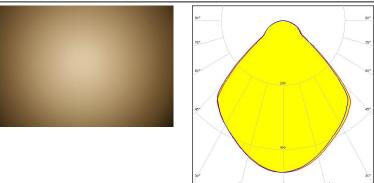
TE: OPTIC CLIP Z50 TYPE1 2213194-1







TE: OPTIC CLIP Z50 TYPE1 2213194-1





PHOTOMETRIC DATA (SIMULATED):

bridgelux

 LED
 V10 Gen7

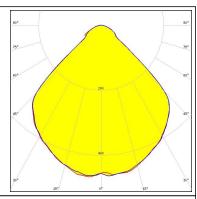
 FWHM
 93.0°

 Efficiency
 92 %

Peak intensity 0.490 cd/lm

Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1

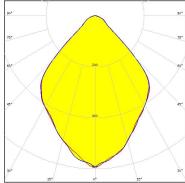


bridgelux.

LED V13 Gen7
FWHM 86.0°
Efficiency 92 %
Peak intensity 0.595 cd/lm

Required components:

IDEAL: 50-2103CT + 50-2100AN

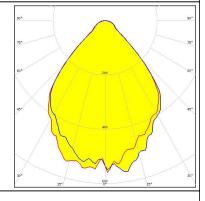


bridgelux

LED V22 Gen7
FWHM 82.0°
Efficiency 94 %
Peak intensity 0.603 cd/lm

Required components:

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





LED CXM-9
FWHM 94.0°
Efficiency 95 %
Peak intensity 0.500 cd/lm

Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (SIMULATED):

SEOUL

LED ZC12/18 **FWHM** 92.0° Efficiency 95 %

Peak intensity 0.490 cd/lm

Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 433 Typ L1

SEOUL SEOUL SEMICONDUCTOR

LED ZC4/6 **FWHM** 94.0° 95 % Efficiency

0.500 cd/lm Peak intensity

Required components:

C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1



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.

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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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