

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









ANGELA-M-B

~30° medium beam compatible with BJB connectors

TECHNICAL SPECIFICATIONS:

Dimensions Ø 119.5 mm

Height 74.5 mm

Fastening socket

Colour metal

Box size 398 x 298 x 265 mm

Box weight 9.1 kg

Quantity in Box 180 pcs

ROHS compliant yes 10



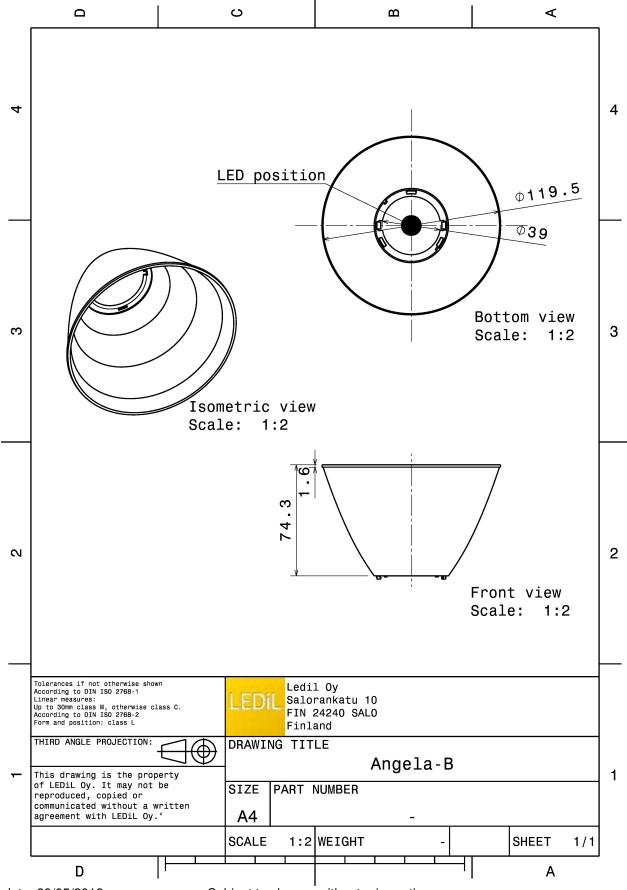
MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourCoatingANGELA-M-BReflectorPCmetalHMDS



PRODUCT DATASHEET

F13663_ANGELA-M-B



Last update: 29/05/2018

Subject to change without prior notice



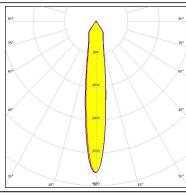
PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED BXRA ES Rectangle

FWHM 16.0° Efficiency 82 % Peak intensity 3.690 cd/lm Required components: BJB: 47.319.2040



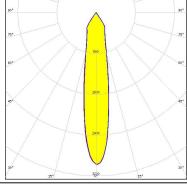


bridgelux.

LED V18 Gen7
FWHM 19.0°
Efficiency 81 %
Peak intensity 3.000 cd/lm
Required components:

BJB: 47.319.2350



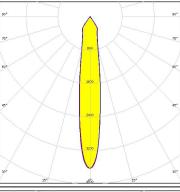


CITIZEN

LED CLL03x/CLU03x

FWHM 16.0°
Efficiency 83 %
Peak intensity 3.630 cd/lm
Required components:
A.A.G. STUCCHI: 8101/G2





CITIZEN

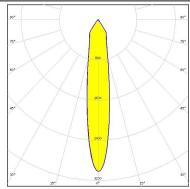
LED CLL03x/CLU03x

FWHM 18.0°
Efficiency 77 %

Peak intensity 3.000 cd/lm

Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101/G2







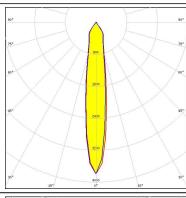
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL03x/CLU03x

FWHM 16.0°
Efficiency 83 %
Peak intensity 3.800 cd/lm
Required components:
BJB: 47.319.2021



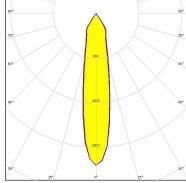


CITIZEN

LED CLL04x/CLU04x

FWHM 21.0°
Efficiency 81 %
Peak intensity 2.730 cd/lm
Required components:
BJB: 47.319.2030



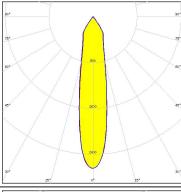


CITIZEN

LED CLL04x/CLU04x

FWHM 21.0°
Efficiency 81 %
Peak intensity 2.650 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2



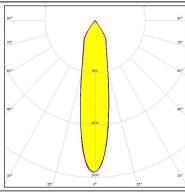


CITIZEN

LED CLL04x/CLU04x

FWHM 22.0°
Efficiency 76 %
Peak intensity 2.330 cd/lm
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8102/G2







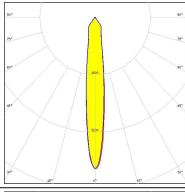
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU720/721

FWHM 14.0°
Efficiency 82 %
Peak intensity 4.200 cd/lm
Required components:





CITIZEN

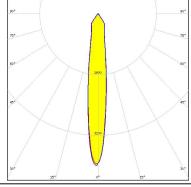
BJB: 47.319.2021

LED CLU720/721

FWHM 14.0°
Efficiency 83 %
Peak intensity 4.000 cd/lm
Required components:

A.A.G. STUCCHI: 8101/G2





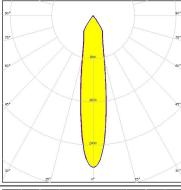
CREE 🚓

LED CXA/B 25xx

FWHM 20.0°
Efficiency 79 %
Peak intensity 2.800 cd/lm
Required components:

BJB: 47.319.2141





CREE \$

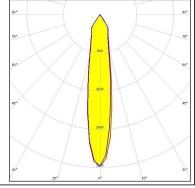
LED CXA/B 25xx

FWHM 18.0° Efficiency 82 % Peak intensity 3.180 cd/lm

Required components:

A.A.G. STUCCHI: 8401/G2





PHOTOMETRIC DATA (MEASURED):

CREE \$

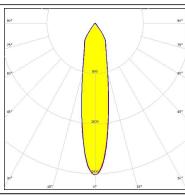
LED CXA/B 25xx

FWHM 21.0°
Efficiency 76 %
Peak intensity 2.400 cd/lm
Required components:

F13671_ANGE-RZ-LENS

BJB: 47.319.2141





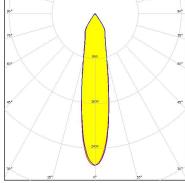
CREE \$

LED CXA/B 30xx

FWHM 21.0°
Efficiency 80 %
Peak intensity 2.700 cd/lm
Required components:

A.A.G. STUCCHI: 8404/G2



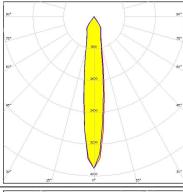


LG Innotek

LED COB 10W/13W/17W/24W

FWHM 16.0°
Efficiency 82 %
Peak intensity 3.800 cd/lm
Required components:
A.A.G. STUCCHI: 8600/G2



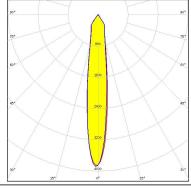


ULG Innotek

LED COB 10W/13W/17W/24W

FWHM 16.0° Efficiency 83 % Peak intensity 3.900 cd/lm Required components: BJB: 47.319.2080





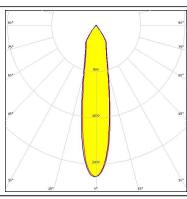
PHOTOMETRIC DATA (MEASURED):



LED COB 40W/60W

FWHM 22.0°
Efficiency 81 %
Peak intensity 2.630 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2



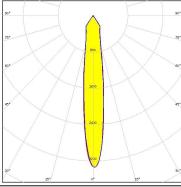


MUMILEDS

LED LUXEON CoB 1204/1205

FWHM 16.0°
Efficiency 82 %
Peak intensity 3.840 cd/lm
Required components:
A.A.G. STUCCHI: 8301/G2



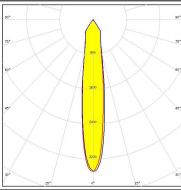


DESCRIPTION LUMILEDS

LED LUXEON CoB 1208

FWHM 17.0°
Efficiency 83 %
Peak intensity 3.500 cd/lm
Required components:
A.A.G. STUCCHI: 8301/G2



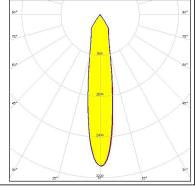


DESCRIPTION LUMILEDS

LED LUXEON CoB 1211

FWHM 19.0°
Efficiency 80 %
Peak intensity 3.000 cd/lm
Required components:
BJB: 47.319.2030





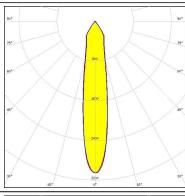
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED LUXEON CoB 1211

FWHM 19.0° Efficiency 81 % Peak intensity 3.060 cd/lm Required components: A.A.G. STUCCHI: 8102/G2





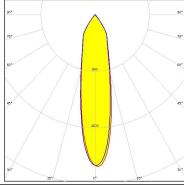
MUMILEDS

LED LUXEON CoB 1216/1812

FWHM 24.0° Efficiency 75 % Peak intensity 2.150 cd/lm Required components: F13671_ANGE-RZ-LENS

BJB: 47.319.2030



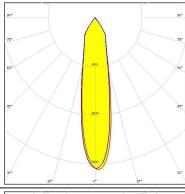


MUMILEDS

LED LUXEON CoB 1216/1812

FWHM 22.0° 79 % Efficiency Peak intensity 2.490 cd/lm Required components: BJB: 47.319.2030



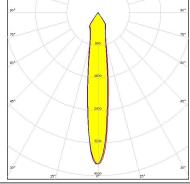


MUMILEDS

LED LUXEON K12

FWHM 17.0° 87 % Efficiency Peak intensity 3.700 cd/lm Required components: BJB: 47.319.2070





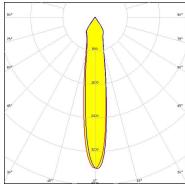
PHOTOMETRIC DATA (MEASURED):



LED LUXEON K16

FWHM 17.0° Efficiency 87 % Peak intensity 3.700 cd/lm Required components: BJB: 47.319.2070





ELUMINUS

LED CXM-14

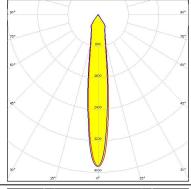
FWHM 16.0° Efficiency 82 %

Peak intensity 3.900 cd/lm

Required components:

BJB: 47.319.2021





ELUMINUS

LED CXM-22

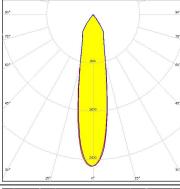
FWHM 22.0° Efficiency 81 %

Peak intensity 2.500 cd/lm

Required components:

BJB: 47.319.2030





OSRAM Opto Semiconductors

LED Soleriq E30

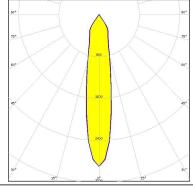
FWHM 20.0° Efficiency 81 %

Peak intensity 2.900 cd/lm

Required components:

BJB: 47.319.2090



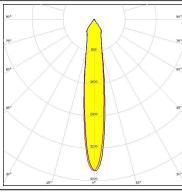


PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

LED Soleriq P13
FWHM 16.0°
Efficiency 83 %
Peak intensity 3.760 cd/lm
Required components:
A.A.G. STUCCHI: 8502/G2

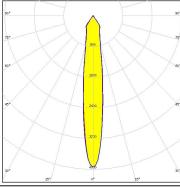




OSRAM Opto Semiconductore

LED Soleriq S13
FWHM 15.0°
Efficiency 83 %
Peak intensity 4.000 cd/lm
Required components:
A.A.G. STUCCHI: 8502/G2

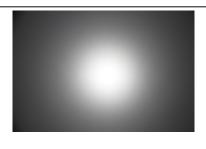


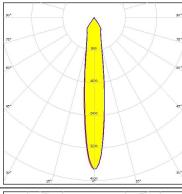


OSRAM Opto Semiconductors

LED Soleriq S13 Gen2

FWHM 16.0°
Efficiency 80 %
Peak intensity 3.730 cd/lm
Required components:
BJB: 47.319.2021



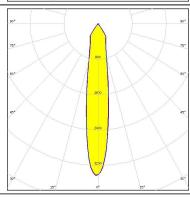


OSRAM Opto Semiconductors

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LED Soleriq S19
FWHM 17.0°
Efficiency 83 %
Peak intensity 3.400 cd/lm
Required components:
A.A.G. STUCCHI: 8503/G2





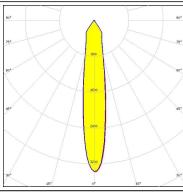


PHOTOMETRIC DATA (MEASURED):

OSRAM

LED Soleriq S19
FWHM 18.0°
Efficiency 83 %
Peak intensity 3.380 cd/lm
Required components:





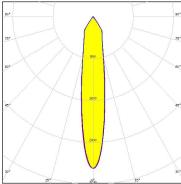
SAMSUNG

BJB: 47.319.2170

LED COB D Series LES 14.5 mm

FWHM 18.0°
Efficiency 78 %
Peak intensity 2.900 cd/lm
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101/G2



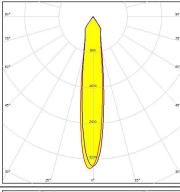


SAMSUNG

LED COB D Series LES 14.5 mm

FWHM 17.0°
Efficiency 81 %
Peak intensity 3.400 cd/lm
Required components:
A.A.G. STUCCHI: 8101/G2

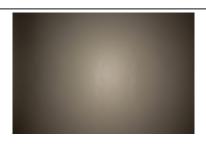


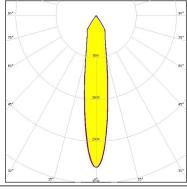


SAMSUNG

LED COB D Series LES 14.5 mm

FWHM 18.0°
Efficiency 78 %
Peak intensity 2.900 cd/lm
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2021







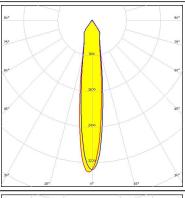
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED COB D Series LES 14.5 mm

FWHM 17.0° Efficiency 81 % Peak intensity 3.400 cd/lm Required components: BJB: 47.319.2021



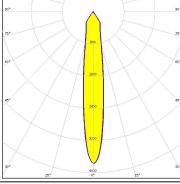




LED ZC12/18
FWHM 16.0°
Efficiency 82 %
Peak intensity 3.770 cd/lm
Required components:

A.A.G. STUCCHI: 8101/G2





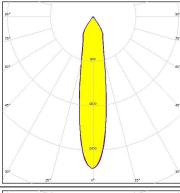


LED ZC25/40/60

FWHM 21.0° Efficiency 81 % Peak intensity 2.720 cd/lm

Required components:
A.A.G. STUCCHI: 8102/G2





SEOUL SEMICONDUCTOR

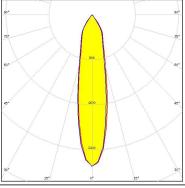
LED ZC25/40/60 FWHM 23.0°

Efficiency 81 %

Peak intensity 2.700 cd/lm Required components:

BJB: 47.319.2030







PHOTOMETRIC DATA (MEASURED):

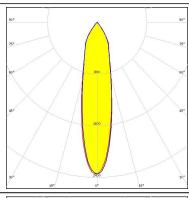


ZC25/40/60 LED **FWHM** 24.0° Efficiency 77 %

Peak intensity 2.350 cd/lm Required components: F13671_ANGE-RZ-LENS

BJB: 47.319.2030



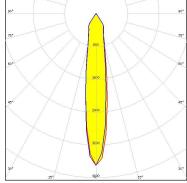


LED Mega Zenigata (GW6DME)

FWHM 17.0° 84 % Efficiency Peak intensity 3.700 cd/lm Required components:

BJB: 47.319.2011



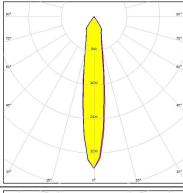


HARP

LED Mega Zenigata (GW6DME)

FWHM 17.0° Efficiency 83 % Peak intensity 3.560 cd/lm Required components: A.A.G. STUCCHI: 8301/G2





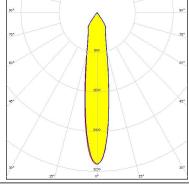
XICATO

LED XTM - 19mm LES

FWHM 19.0° 81 % Efficiency Peak intensity 3.100 cd/lm Required components:

C15743_XTM-ADAPTER-50-B





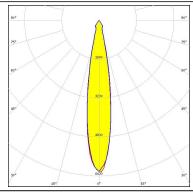
PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED CLL03x/CLU03x

18.0° **FWHM** Efficiency 94 % Peak intensity 6.300 cd/lm

Required components: BJB: 47.319.2021

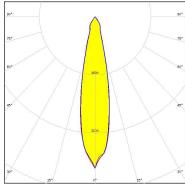


CITIZEN

LED CLL04x/CLU04x

FWHM 22.0° Efficiency 88 % 4.200 cd/lm Peak intensity

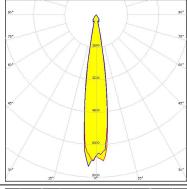
Required components: BJB: 47.319.2030



CITIZEN

LED CLU730/731

FWHM 16.0° Efficiency 91 % Peak intensity cd/lm Required components: BJB: 47.319.2030

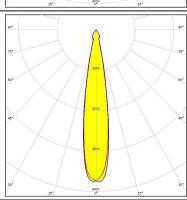


OSRAM Opto Semiconductors

LED Soleriq S15 **FWHM** 18.0° Efficiency 90 % Peak intensity 6.012 cd/lm

Required components:

BJB: 47.319.2021



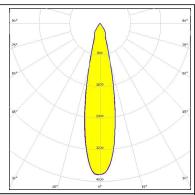
PHOTOMETRIC DATA (SIMULATED):

SAMSUNG

LED COB D Series LES 22 mm

FWHM 23.0° Efficiency 87 % Peak intensity 3.840 cd/lm

Required components: BJB: 47.319.2030

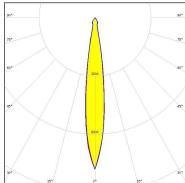


TRIDONIC

LED SLE G6 LES15 H D50

FWHM 15.0° Efficiency 89 % Peak intensity 8.300 cd/lm

Required components:

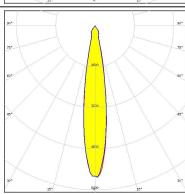


TRIDONIC

LED SLE G6 LES17 H

FWHM 17.0° Efficiency 88 % Peak intensity 5.900 cd/lm

Required components:

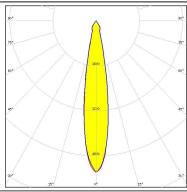


TRIDONIC

LED SLE G6 LES19 H

FWHM 18.0°
Efficiency 88 %
Peak intensity 5.390 cd/lm

Required components:





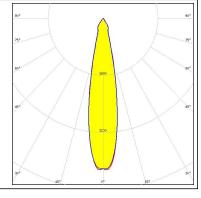
PHOTOMETRIC DATA (SIMULATED):

TRIDONIC

LED SLE G6 LES23 H

FWHM 21.0° Efficiency 88 % Peak intensity 4.270 cd/lm

Required components:





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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