imall

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-S-B

 ${\sim}10^{\circ}$ spot 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	8.6 kg
Quantity in Box	180 pcs
ROHS compliant	yes 🛈



PRODUCT DATASHEET

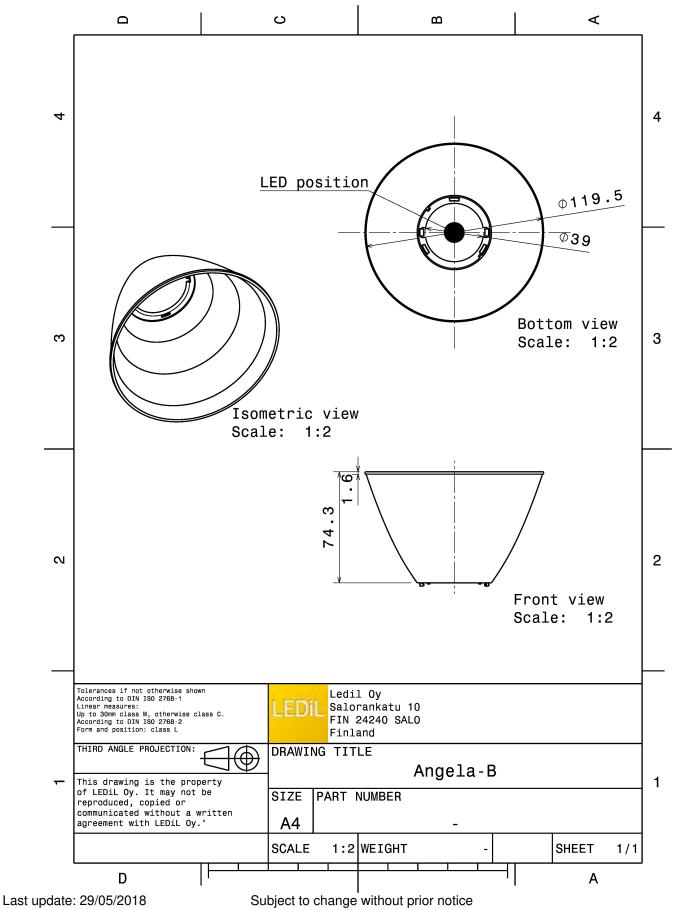
F13662_ANGELA-S-B

MATERIAL SPECIFICATIONS:

Component ANGELA-S-B **Type** Reflector **Material** PC **Colour** metal Coating HMDS







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



bridgelux. LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.1	onents:	
bridgelux. LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.3	onents:	
bridgelux. LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.3	onents:	
bridgelux. LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.3	onents:	



CITIZE	2N	₽°* ₽	9
LED	CLL03x/CLU03x	75	
FWHM	9.0°		
Efficiency	94 %		
	18.300 cd/lm		
Required com		¢*	
BJB: 47.319	0.2021		
		30° 15000 15°	3
CITIZE	2N		ş
LED	CLL03x/CLU03x	**	L,
FWHM	10.0°		
Efficiency	93 %	6 r · · · · · · · · · · · · · · · · · ·	6
	15.400 cd/lm		
Required com		47 ⁺ (80)	4
A.A.G. STU	CCHI: 8101/G2		
		304 2600	3
CITIZE	N.	137) 67 137 194	9
LED	CLL03x/CLU03x		
FWHM	10.0°	72	1
Efficiency	86 %	es. (Sour	6
	10.780 cd/lm		
Required com		g- 600	4
	' GE-RZ-LENS		
A.A.G. STU	CCHI: 8101/G2		
		₽ *	3
CITIZE	EN	20° (° 125°	9
LED	CLL04x/CLU04x	»· • • • • • • • • • • • • • • • • • • •	L.
FWHM	15.0°		
Efficiency	92 %		1
Peak intensity			
Required com		a ⁺ 400	
BJB: 47.319			
		000	
		34	
		157 6880 157	



CITIZE	N	50° 80°
LED FWHM Efficiency Peak intensity Required comp	CLL04x/CLU04x 15.0° 92 % 6.900 cd/lm	
CITIZE	N	90° 90°
LED FWHM Efficiency Peak intensity Required comp F13671_ANG	CLL04x/CLU04x 15.0° 86 % 5.890 cd/Im onents:	20 20 20 20 20 20 20 20 20 20
CITIZE	NT	90° 99° 99°
LED FWHM Efficiency Peak intensity Required comp	CLU720/721 7.0° 94 % 25.000 cd/lm	27 27 99 99 99 99 99 99 99 99 99 99 99 99 99
CITIZE	N	90 ⁴ 0
LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.	CLU720/721 7.0° 94 % 25.300 cd/Im onents:	57 57 100 100 100 100 100 100 100 100 100
		30° X 00 30° 30°



CREE C LED FWHM Efficiency Peak intensity Required comp F13671_AN BJB: 47.319	CXA/B 25xx 13.0° 86 % 7.500 cd/lm ponents: GE-RZ-LENS		90* 73* 60* 43*	10 10 10 10 10 10 10 10 10 10
Required comp	CXA/B 25xx 11.0° 92 % 11.590 cd/lm		90° 75° 694	
CREE C LED FWHM Efficiency Peak intensity Required comp BJB: 47.319	CXA/B 25xx 13.0° 89 % 9.300 cd/lm conents:		90° 791 80 82	
CREE	CXA/B 30xx 15.0° 91 % 7.200 cd/lm		90* 78* 60*	10 10 10 10 10 10 10 10 10 10



	tek	90°* 0
LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC		20- 12, 6, 12, 12, 12, 12, 12, 12, 12, 12
LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.	COB 10W/13W/17W/24W 8.0° 94 % 16.200 cd/lm ponents:	
LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC	COB 40W/60W 15.0° 91 % 6.760 cd/lm	
C LUMIL LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC	LUXEON CoB 1204/1205 9.0° 93 % 19.200 cd/lm	30- 1270 0 1270



LUMIL LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC	LUXEON CoB 1208 10.0° 94 % 14.800 cd/lm	30, 12, 106, 12, 30, 30, 12, 100, 12, 30, 30, 12, 100, 10, 10, 30, 12, 100, 10, 10, 30, 12, 100, 10, 10,
	EDS	90 ⁴ 90 ⁴
LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.	oonents:	20 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0
	FDS	90° 90°
LED FWHM Efficiency Peak intensity Required comp	LUXEON CoB 1211 13.0° 91 % 9.500 cd/lm	200 00 200 200 00 200 00 200 2
UMIL	EDS	90* 90*
LED FWHM Efficiency Peak intensity Required comp BJB: 47.319.	oonents:	20 20 20 20 20 20 20 20 20 20



UMIL	EDS	90 ⁴
LED	LUXEON CoB 1216/1812	75
FWHM	16.0°	1000
Efficiency	85 %	60 ¹
Peak intensity	5.470 cd/lm	
Required comp	oonents:	5° 330 5
F13671_AN	GE-RZ-LENS	
BJB: 47.319	2030	1 4330
		344 157 0 ⁶ 15 ⁴ 36
UMIL	EDS	90 ⁺
LED	LUXEON K12	73:
FWHM	9.0°	
Efficiency	94 %	60 ⁴ 600
Peak intensity	17.300 cd/lm	
Required comp		
BJB: 47.319.	2070	12000
		30 ⁴ 33 ⁵ 9 ⁵ 35 ⁴ 30
UMIL	EDS	90* 90
LED	LUXEON K16	75
FWHM	11.0°	
Efficiency	94 %	601
Peak intensity	13.600 cd/lm	
Required comp	oonents:	
BJB: 47.319.	2070	
		30' 15' 0' 15'
	INUS	30* R
LED	CXM-14	73.
FWHM	9.0°	
Efficiency	93 %	601 600
Peak intensity	16.300 cd/lm	
Required comp	oonents:	
BJB: 47.319.	2021	47800
		30. V
		107 0% 15%



0000444		
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity Required comp BJB: 47.319	oonents:	
OSRAM		90° 90°
opto Semiconductors LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC		
OSRAM Opto Semiconductors		50° 50°
LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC	Soleriq S13 8.0° 94 % 21.570 cd/lm ponents: CCHI: 8502/G2	
OSRAM Opto Semiconductors		90*
LED FWHM Efficiency Peak intensity Required comp BJB: 47.319		



OSRAM Opto Semiconductors		90 ⁴ 90 ⁴
LED	Soleriq S19	75
FWHM	11.0°	
Efficiency	93 %	60
Peak intensity	13.050 cd/lm	
Required comp	ponents:	ør or
BJB: 47.319	2170	800
		30° 30° 31°
S ΛΜS	JNG	
LED	COB D Series LES 14.5 mm	71
FWHM	10.0°	
Efficiency	91 %	60° / 10°
Peak intensity	15.150 cd/lm	
Required comp		e ⁻
A.A.G. STU	CCHI: 8101/G2	
		1100
		34 1000 34
S ΛΜSI	ING	
LED	COB D Series LES 14.5 mm	
FWHM	11.0°	75
Efficiency	87 %	60°
Peak intensity		
Required comp		g. <u>668</u> g.
	GE-RZ-LENS	
BJB: 47.319		809
		30×
СЛАЛСІ		
SVWSI		39 ²
LED	COB D Series LES 14.5 mm	77
FWHM	10.0°	
Efficiency	91 %	
Peak intensity	15.150 cd/lm	
		455
Required comp	ponents:	2 ⁴ 2 2
Required comp BJB: 47.319	ponents:	
	ponents:	



SAMS	JNG	90*
LED FWHM Efficiency Peak intensity Required comp F13671_AN	COB D Series LES 14.5 mm 11.0° 87 % 11.030 cd/lm	27 20 20 20 20 20 20 20 20 20 20 20 20 20
SEOUL		50* 9
seoul semiconductor FWHM Efficiency Peak intensity Required comp A.A.G. STUC		30 ¹ 1300 23 27 10 10 10 10 10 10 10 10 10 10
SEOUL		90°
LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC		20 20 20 20 20 20 20 20 20 20
SEOUL SEMICONDUCTOR		90°
LED FWHM Efficiency Peak intensity Required comp F13671_ANG BJB: 47.319	oonents: GE-RZ-LENS	35 97 97 80 80 80 80



PHOTOMETRIC DATA (MEASURED):

seoul sewiconductor LED FWHM Efficiency Peak intensity Required comp BJB: 47.319	oonents:	20° ¢ 20°
SHA LED FWHM Efficiency Peak intensity Required comp BJB: 47.319	Mega Zenigata (GW6DME) 10.0° 94 % 16.100 cd/lm ponents:	20- 20- 20- 20- 20- 20- 20- 20-
SHA LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC	Mega Zenigata (GW6DME) 10.0° 94 % 15.500 cd/lm	20° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
XICATC LED FWHM Efficiency Peak intensity Required comp C15743_XTI	XTM - 19mm LES 12.0° 91 % 11.000 cd/lm	20° 0° 25° 0° 20° 0° 25° 0° 20° 0°

PRODUCT DATASHEET

F13662_ANGELA-S-B



PHOTOMETRIC DATA (SIMULATED):

CITIZEN		50° B
LED	CLL03x/CLU03x	75
FWHM	9.3°	
Efficiency	94 %	60* 7 (⁶⁰⁰)
Peak intensity	19.200 cd/lm	
Required components:		gr i 1000
BJB: 47.319.2021		
		20* 100 at 100 at
CITIZEN	[99 ⁴ 99
LED	CLL04x/CLU04x	
FWHM	14.0°	
Efficiency	93 %	6/1 (200
Peak intensity	8.000 cd/lm	
Required compon	ents:	¢* (30)
BJB: 47.319.2030		
		30.
CITIZEN	·	
LED	CLU730/731	
FWHM	8.5°	72
Efficiency	92 %	60 ¹ 601
Peak intensity	22.200 cd/lm	
Required compon		g ⁴ 1300 g
BJB: 47.319.20		
		2000
OSRAM		
Opto Semiconductors		50° 50'
LED	Soleriq S15	77
FWHM	10.0°	
Efficiency	90 %	
Peak intensity	14.600 cd/lm	
Required components:		
BJB: 47.319.20	21	

PRODUCT DATASHEET

F13662_ANGELA-S-B



PHOTOMETRIC DATA (SIMULATED):

SAMSU	NG	90°
LED	COB D Series LES 22 mm	22
FWHM	17.0°	500
Efficiency	87 %	
Peak intensity	5.750 cd/lm	200
Required components:		
BJB: 47.319.20	30	400
		36 ⁶
TRIDONI	С	30 ⁴ ft x
LED	SLE G6 LES15 H D50	79
FWHM	9.7°	
Efficiency	89 %	600
Peak intensity	14.300 cd/lm	
Required compor	nents:	
		20 ⁴
TRIDONIC		90 ⁺ 90
LED	SLE G6 LES17 H	12
FWHM	12.0°	
Efficiency	88 %	101 × 101
Peak intensity	10.700 cd/lm	
Required components:		¢' 602 e
		30 ⁴ 10 ⁷ 0 ⁴ 10 ²
TRIDONI	С	90°
LED	SLE G6 LES19 H	75
FWHM	13.0°	
Efficiency	89 %	6)** 3300
Peak intensity	8.400 cd/lm	
Required compor	nents:	
		662

PRODUCT DATASHEET

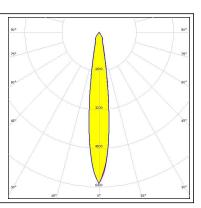
F13662_ANGELA-S-B



PHOTOMETRIC DATA (SIMULATED):

TRIDONIC

LED SLE G6 LES23 H FWHM 16.0° Efficiency 88 % Peak intensity 6.270 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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LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations Salo, Finland Hong Kong, China

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