mail

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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EMERALD-A

Asymmetric beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	6.9 mm
Fastening	glue, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	4.6 kg
Quantity in Box	2016 pcs
ROHS compliant	yes 🛈

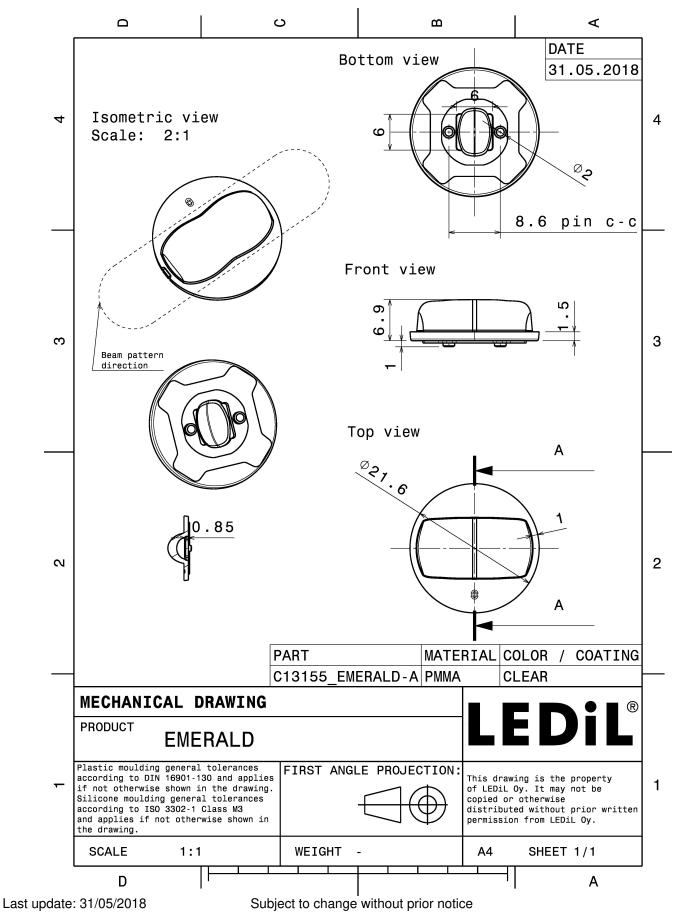


PRODUCT DATASHEET C13155_EMERALD-A

MATERIAL SPECIFICATIONS:

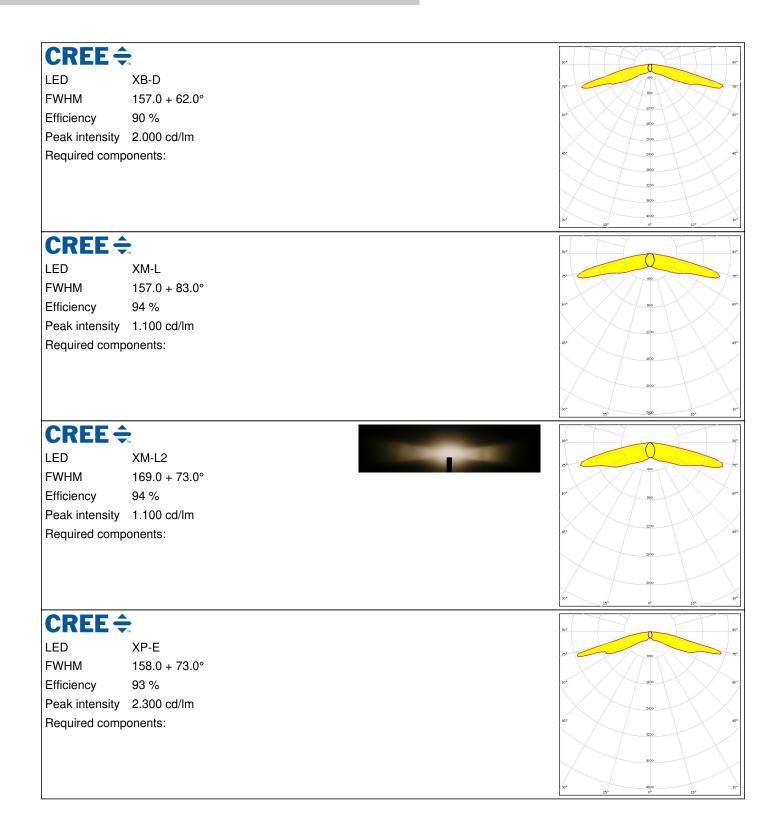
Component EMERALD-A **Type** Lens **Material** PMMA **Colour** clear



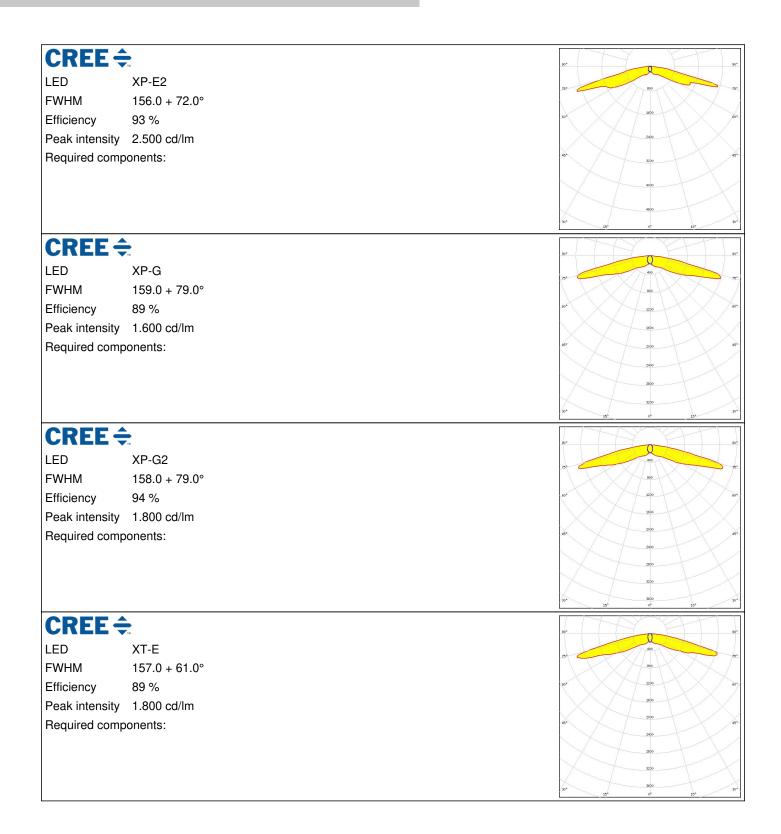


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	al.	
🕒 LG Innot		90*
LED	H35B0 (LEMWA32)	750 400
FWHM	160.0 + 66.0°	800
Efficiency	94 %	80 ⁴ 1220
Peak intensity	1.700 cd/lm	1050
Required comp	onents:	45* 200
		200
		200
		30*
🕑 LG Innot	-ok	132 3890 132*
		bo*
FWHM	H35C0 (LEMWA33) 159.0 + 72.0°	734 400
		.60°
Efficiency	91 % 1 400	
Peak intensity		
Required comp	onents:	
		2000
		2150
		30* <u>2800</u> 15* 0* 15*
	EDS	80°
LED	LUXEON A	400
FWHM	156.0 + 75.0°	220
		$(X \times / / T) \times X$
EITICIETICV	92 %	60 ⁴ 1220
	92 % 1.600 cd/lm	
Peak intensity	1.600 cd/lm	6°
Peak intensity	1.600 cd/lm	á' <u>50</u>
Peak intensity	1.600 cd/lm	
Peak intensity	1.600 cd/lm	ā' <u>100</u>
Efficiency Peak intensity Required comp	1.600 cd/lm onents:	á' <u>50</u>
Peak intensity Required comp	1.600 cd/lm onents:	4 ² 320 200 200 200
Peak intensity Required comp	1.600 cd/lm onents:	4 ² 200 200 200 200
Peak intensity Required comp	1.600 cd/lm onents:	4 ² 200 200 200 200 200 200 200 2
Peak intensity Required comp OB LUMIL LED FWHM	1.600 cd/lm onents: EDS LUXEON R	4 ² 200 200 200 200 200 200 200 2
Peak intensity Required comp Object LUMIL LED FWHM Efficiency	1.600 cd/lm onents: EDS LUXEON R 153.0 + 73.0° 92 %	
Peak intensity	1.600 cd/lm onents: EDS LUXEON R 153.0 + 73.0° 92 % 1.650 cd/lm	6° 100 100 100 100 100 100 100 10
Peak intensity Required comp LUMIL LED FWHM Efficiency Peak intensity	1.600 cd/lm onents: EDS LUXEON R 153.0 + 73.0° 92 % 1.650 cd/lm	8 ⁻ 200 300 300 300 300 300 300 300
Peak intensity Required comp LUMIL LED FWHM Efficiency Peak intensity	1.600 cd/lm onents: EDS LUXEON R 153.0 + 73.0° 92 % 1.650 cd/lm	8 ⁻ 200 300 300 300 300 300 300 300
Peak intensity Required comp LUMIL LED FWHM Efficiency Peak intensity	1.600 cd/lm onents: EDS LUXEON R 153.0 + 73.0° 92 % 1.650 cd/lm	50 ⁴ 100 100 100 100 100 100 100 10



UMIL	EDS	90*
LED	LUXEON Rebel	
FWHM	152.0 + 67.0°	73
Efficiency	92 %	60 1630
Peak intensity		230
Required comp		45.
		4600
	FDS	110 110 110 110 110 110 110 110 110 110
		90*
	LUXEON Rebel ES	794
FWHM	153.0 + 74.0°	60 ⁴
Efficiency	90 %	1200
Peak intensity Required comp		45"
Required comp	onents.	2490
		2000
		300
		30° 13° 3880 15°
UMIL	EDS	90*
LED	LUXEON T	736 400
FWHM	155.0 + 76.0°	200
Efficiency	93 %	60 ⁴ 1290
Peak intensity	2.300 cd/lm	100
Required comp	onents:	45* 2000
		200
		209
		2899 2000 2000 2000 2000 2000 2000 2000
O LUMIL	EDS	390 300 300 300 300 300 300 300 300 300
	EDS LUXEON TX	200 200 200 200 200 200 200 200 200 200
LED		
LED FWHM	LUXEON TX	
W LUMIL LED FWHM Efficiency Peak intensity	LUXEON TX 156.0 + 73.0° 94 %	
LED FWHM Efficiency	LUXEON TX 156.0 + 73.0° 94 % 1.690 cd/lm	50 ⁴ 1299
LED FWHM Efficiency Peak intensity	LUXEON TX 156.0 + 73.0° 94 % 1.690 cd/lm	50 ⁴ 1299
LED FWHM Efficiency Peak intensity	LUXEON TX 156.0 + 73.0° 94 % 1.690 cd/lm	50 ⁴ 1299



ØNICHIA		90° 90°
LED	NCSxx19A	
FWHM	151.0 + 65.0°	755
Efficiency	92 %	50* 550 50*
Peak intensity		
Required comp		451 2490 451
		200
		0000
~		
MNICHIA		90* 90*
LED	NVSxx19A	,73 ⁴ 400 75 ⁴
FWHM	153.0 + 71.0°	
Efficiency	91 %	50° 5230 60°.
Peak intensity	1.700 cd/lm	1599
Required comp	onents:	45' 2000 65'
		2430
		30* 30*
Ø NICHIA		
		90* 90*
LED	NVSxx19B/NVSxx19C	750 400 751
FWHM	155.0 + 80.0°	20 ⁵ 200 / 201
Efficiency	92 %	.6°
Efficiency Peak intensity	92 % 1.400 cd/lm	60° 60°
Efficiency	92 % 1.400 cd/lm	$\times \times / \bot / \times \times$
Efficiency Peak intensity	92 % 1.400 cd/lm	$\times \times / \bot / \times \times$
Efficiency Peak intensity	92 % 1.400 cd/lm	$\times \times / \bot / \times \times$
Efficiency Peak intensity	92 % 1.400 cd/lm	$\times \times / \bot \times \times$
Efficiency Peak intensity	92 % 1.400 cd/lm	$\times \times / \bot \times \times$
Efficiency Peak intensity Required comp	92 % 1.400 cd/lm onents:	$\times \times / \bot \times \times$
Efficiency Peak intensity Required comp Opto Semiconductors LED	92 % 1.400 cd/lm onents: Oslon Square EC	40° 1000 60° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
Efficiency Peak intensity Required comp Opto Semiconductors LED FWHM	92 % 1.400 cd/lm onents:	6° 500 6° 900 200 200 200 200 200 200 200
Efficiency Peak intensity Required comp Opto Semiconductors LED FWHM Efficiency	92 % 1.400 cd/lm onents: Oslon Square EC 156.0 + 80.0° 93 %	.0° 100 0° .0° 100 0° .0° 200 .0° 200 .0° .0° .0° .0° .0° .0° .0°
Efficiency Peak intensity Required comp Opto Semiconductors LED FWHM Efficiency Peak intensity	92 % 1.400 cd/lm onents: Oslon Square EC 156.0 + 80.0° 93 % 1.700 cd/lm	40° 100 0° 2000 0°
Efficiency Peak intensity Required comp Opto Semiconductors LED FWHM Efficiency	92 % 1.400 cd/lm onents: Oslon Square EC 156.0 + 80.0° 93 % 1.700 cd/lm	40° 100 0° 2000 0°
Efficiency Peak intensity Required comp Opto Semiconductors LED FWHM Efficiency Peak intensity	92 % 1.400 cd/lm onents: Oslon Square EC 156.0 + 80.0° 93 % 1.700 cd/lm	
Efficiency Peak intensity Required comp OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity	92 % 1.400 cd/lm onents: Oslon Square EC 156.0 + 80.0° 93 % 1.700 cd/lm	



OSRAM Opto Semiconductors		99° 70 90°
LED	Oslon Square PC	400
FWHM	156.0 + 83.0°	80
Efficiency	93 %	55° <u>1290</u> 66°.
Peak intensity	1.700 cd/lm	1000
Required comp		6° 200 6°
		240
		200
		3270
OSRAM Opto Semiconductors		*** ***
		90° 90°
LED	Oslon SSL 150	734 500 795.
FWHM	157.0 + 86.0°	100
Efficiency	92 %	60° 60°
Peak intensity		300
Required comp	onents:	45° 000 57°
		600
		30* 33 ³ 30 ⁴ 30 ⁴
OSRAM Opto Semiconductors		90* 90*
LED	Oslon SSL 80	0
FWHM	147.0 + 52.0°	725 000 775
Efficiency	89 %	53* 1500 50*
Peak intensity	1.900 cd/lm	200
Required comp		-5°
		322
		30° m ² 1920 m ² 30°
S ΛΜSΙ	ING	15
		90* 90*
LED FWHM	LH351Z 154.0 + 76.0°	73%
Efficiency	94 %	50 ⁴ 1200 50*
Peak intensity		
Required comp		6° 200 6°
		200
		209



PHOTOMETRIC DATA (SIMULATED):

CREE ≑		90° 99°
LED	XHP35 HD	730 700
FWHM	164.0 + 68.0°	40
Efficiency	91 %	60 ⁴ 600 6 ⁶ 1.
Peak intensity	0.770 cd/lm	200
Required compone	nts:	45° (3°
		1200
		140
		30* 1550 15 ³ 0 ⁶ 15 ⁴
CREE ≑		235. 6. 75.
		90* 90*
LED	XP-L HI	236 400 75°
FWHM	159.0°	800
Efficiency	89 %	. 60 ⁴ 60 ⁴ .
Peak intensity	1.300 cd/lm	1200
Required compone	nts:	45° <u>1090</u> 45°
		200
		2400
		30* 10° 380 10* 30°.
OSRAM Opto Semiconductors		90°
LED	Oslon Square Gen3	400
FWHM	158.0 + 70.0°	175 ⁴
Efficiency	93 %	60 ⁴ 1200 80 ⁴
Peak intensity	1.500 cd/lm	$X \times T \times X$
Required compone	ints:	45°
		200
		200
		200
		30* 15 ⁴ 25 ⁴ 30 ⁴



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.

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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