

EMMA-360

~170° side emitter

TECHNICAL SPECIFICATIONS:

Dimensions	9.9 mm
Height	5.7 mm
Fastening	glue, pin
Colour	clear
Box size	
Box weight	2 kg
Quantity in Box	5000 pcs
ROHS compliant	yes 🛈

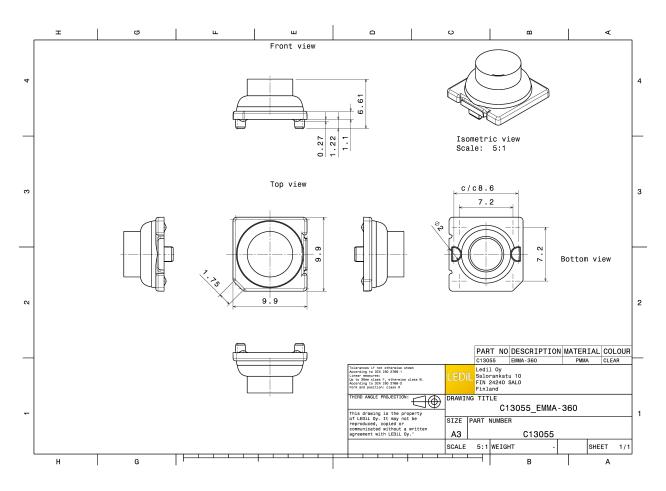


PRODUCT DATASHEET C13055_EMMA-360

MATERIAL SPECIFICATIONS:

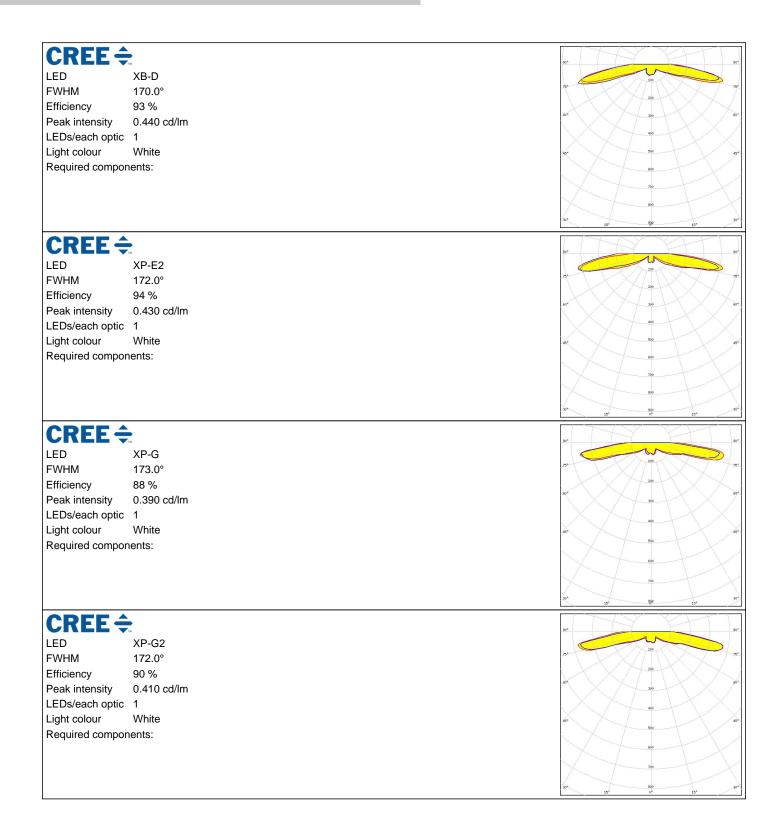
Component EMMA-360 **Type** Single lens **Material** PMMA Colour clear







PHOTOMETRIC DATA (MEASURED):





PHOTOMETRIC DATA (MEASURED):

CREE \$		
LED	XT-E	
FWHM	174.0°	754 100 75*
Efficiency	94 %	200
Peak intensity	0.400 cd/lm	60° 60°
LEDs/each optic		
Light colour	White	67° 400 67°
Required compor		540
		700
		30* 15 ¹ 0 ⁶ 10* 30*
UMIL	EDS	90° 90°
LED	LUXEON 3535 2D	100
FWHM	170.0°	734
Efficiency	94 %	200
Peak intensity	0.430 cd/lm	60° 300 60°
LEDs/each optic	1	400
Light colour	White	45° 500 93°
Required compor	ents:	640
		710
	EDC	15° 0° 15°
		90* 90*
LED	LUXEON A	700 700
FWHM	173.0°	20
Efficiency	92 %	60 ⁴ 60 ⁴
Peak intensity	0.370 cd/lm	
LEDs/each optic	White	400
Light colour		-45° - 500 - 50°
Required compor	ens.	
		610
		700
		30° 15 ³ 86 15° 30°
UMIL	EDS	
LED	LUXEON Rebel	90° 90°
FWHM	165.0°	730 700
Efficiency	93 %	
Peak intensity	0.530 cd/lm	60 ⁴ 400 60 ⁴
LEDs/each optic		$ X /T \setminus X $
	White	57° 600
LL jaht colour		•••
Light colour Required compor	ents:	
Light colour Required compor	ents:	80
	ents:	80
	ents:	200



PHOTOMETRIC DATA (MEASURED):

= 1		
Μ ΝΙCΗΙΛ		50° 50°
LED	NCSxx19A	200
FWHM	165.0°	200
Efficiency	90 %	
Peak intensity	0.420 cd/lm	50* 310 60*
LEDs/each optic	1	400
Light colour	White	45* 540 55*
Required compor	ients:	600
		700
		200
		30° 15° 96 15° 30°.
OCDAM		
OSRAM Opto Semiconductors		90°
	OSLON Square EC	92
Opto Semiconductors	OSLON Square EC 170.0°	730
Opto Semiconductors		9° 70 20 20
opto Semiconductors LED FWHM	170.0°	730
opto Semiconductors LED FWHM Efficiency	170.0° 92 % 0.420 cd/lm	10 20 20
^{opto semiconductors} LED FWHM Efficiency Peak intensity	170.0° 92 % 0.420 cd/lm	
opto semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic	170.0° 92 % 0.420 cd/lm 1 White	
opto semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	170.0° 92 % 0.420 cd/lm 1 White	
opto semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	170.0° 92 % 0.420 cd/lm 1 White	
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	170.0° 92 % 0.420 cd/lm 1 White	



PHOTOMETRIC DATA (SIMULATED):

CREE ≑		
		90 ⁴
LED	XQ-E HD	
FWHM	164.0°	73° 200 73°
Efficiency	92 %	\times X////X X
Peak intensity	0.530 cd/lm	60* 400 60*
LEDs/each optic 1		
Light colour Wh	ite	45* 600 45*
Required components		\times
		800
		2000
		130* 133 ⁵ 0 ⁶ 115* 30 ⁵ *
UMILED	S	90* 90*
LED	LUXEON C	100
FWHM	174.0°	75* 200 75*
Efficiency	94 %	300
Peak intensity	0.510 cd/lm	-60° - 60°.
LEDs/each optic 1		
Light colour Re		45* 45*
Required components	X	
		700
		80
		90° 30°
		10%
LUMILED	5	90* 90*
LED	LUXEON CZ	
FWHM		
	167.0°	7%*
Efficiency	94 %	200 75*
Peak intensity		20
Peak intensity LEDs/each optic 1	94 % 0.640 cd/lm	20
Peak intensity LEDs/each optic 1 Light colour Re	94 % 0.640 cd/lm d	71 - 20 - 72 60 - 60 60 - 67
Peak intensity LEDs/each optic 1	94 % 0.640 cd/lm d	20
Peak intensity LEDs/each optic 1 Light colour Re	94 % 0.640 cd/lm d	20
Peak intensity LEDs/each optic 1 Light colour Re	94 % 0.640 cd/lm d	67 <u>60</u> 67 129
Peak intensity LEDs/each optic 1 Light colour Re	94 % 0.640 cd/lm d	51° 12° 0° 13° 30° 51° 0° 0° 13° 51° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d s:	200 - 200 200 - 200
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d s:	200 00 200 00
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d :: S LUXEON V2	
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d :: S LUXEON V2 172.0°	
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d :: S LUXEON V2 172.0° 94 %	60° 60° 60° 30° 60° 60° 60° 60° 90°
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d :: S LUXEON V2 172.0°	
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d S LUXEON V2 172.0° 94 % 0.380 cd/lm	
Peak intensity LEDs/each optic 1 Light colour Re Required components ED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wh	94 % 0.640 cd/lm d :: S LUXEON V2 172.0° 94 % 0.380 cd/lm ite	
Peak intensity LEDs/each optic 1 Light colour Re Required components	94 % 0.640 cd/lm d :: S LUXEON V2 172.0° 94 % 0.380 cd/lm ite	
Peak intensity LEDs/each optic 1 Light colour Re Required components ED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wh	94 % 0.640 cd/lm d :: S LUXEON V2 172.0° 94 % 0.380 cd/lm ite	
Peak intensity LEDs/each optic 1 Light colour Re Required components ED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wh	94 % 0.640 cd/lm d :: S LUXEON V2 172.0° 94 % 0.380 cd/lm ite	



PHOTOMETRIC DATA (SIMULATED):

Μ ΝΙCΗΙΛ	90°
LED NCSxE17A FWHM 166.0° Efficiency 94 % Peak intensity 0.443 cd/lm LEDs/each optic 1 Light colour Green Required components:	
SAMSUNGLEDLM28xB SeriesFWHM169.0°Efficiency97 %Peak intensity0.387 cd/lmLEDs/each optic1Light colourWhiteRequired components:	
SECURE SEMICONDUCTOR LED Z8Y22P FWHM 152.0° Efficiency 87 % Peak intensity 0.350 cd/lm LEDs/each optic 1 Light colour White 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.

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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