

PRODUCT DATASHEET CA12838_FLARE-MINI-A-PIN

FLARE-MINI-A-PIN

 ${\sim}100^\circ$ x 20° oval beam. Assembly with location pins and installation tape.

SPECIFICATION:

Dimensions	Ø 16.0 mm
Height	9.1 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIALS:

Component FLARE-MINI-A-PIN TINA-TAPE3

Туре	
Single lens	
Таре	

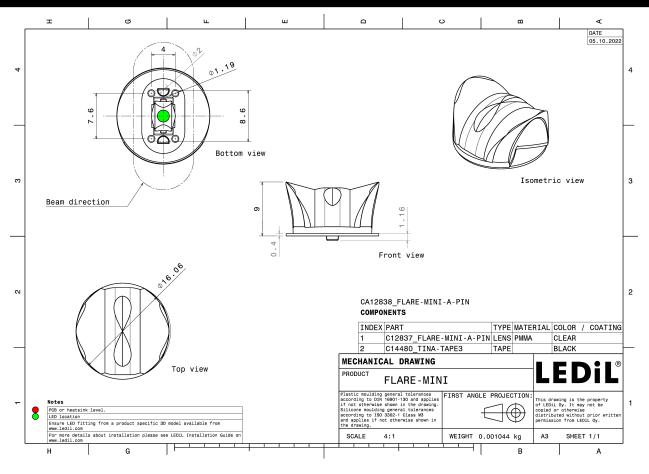
Material	Colour	Finish
PMMA	clear	
Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12838_FLARE-MINI-A-PIN	Single lens	4600	230	230	7.4
» Box size: 460 x 250 x 300 mm					



PRODUCT DATASHEET CA12838_FLARE-MINI-A-PIN



See also our general installation guide: www.ledil.com/installation_guide



			90* 90*
LED	XB-D		25
FWHM / FWTM	130.0 + 21.0° / 119.0 + 172.0°		73%
Efficiency	94 %		200
Peak intensity	0.8 cd/lm		60 ⁴
LEDs/each optic	1		400
Light colour	White		-51
Required compone	ents:		
			800
			130° 135 ⁴ 00° 15° 30°
			90* 90*
LED	XP-E		<u> </u>
FWHM / FWTM	113.0 + 20.0° / 122.0 + 171.0°		75*
Efficiency	94 %	the second se	
Peak intensity	0.9 cd/lm		50°
LEDs/each optic	1		
Light colour	White		457 454
Required compone	ents:		600
			20 ⁺
			90° 90°
LED	XP-E2		75* 75*
FWHM / FWTM	93.0 + 14.0° / 150.0 + 24.0°		400
Efficiency	94 %		- 50×
Peak intensity	1.8 cd/lm		800
LEDs/each optic	1		
Light colour	White		45* 1220
Required compone	ents:		
1			30 ⁻ 30 ⁻ 30 ⁻ 30 ⁻
CREE 🚖			2 ³⁰ 155 00 155
LED	XP-G		8° 25° 0° 25° 8°
LED FWHM / FWTM	114.0 + 22.0° / 120.0 + 158.0°		8 ¹ 12 ¹ 0 12 ¹ 8 ¹
LED FWHM / FWTM Efficiency	114.0 + 22.0° / 120.0 + 158.0° 94 %		
LED FWHM / FWTM Efficiency Peak intensity	114.0 + 22.0° / 120.0 + 158.0° 94 % 0.8 cd/lm		20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	114.0 + 22.0° / 120.0 + 158.0° 94 % 0.8 cd/lm 1		20 20 50 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	114.0 + 22.0° / 120.0 + 158.0° 94 % 0.8 cd/lm 1 White		200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	114.0 + 22.0° / 120.0 + 158.0° 94 % 0.8 cd/lm 1 White		20 20 50 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	114.0 + 22.0° / 120.0 + 158.0° 94 % 0.8 cd/lm 1 White		200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	114.0 + 22.0° / 120.0 + 158.0° 94 % 0.8 cd/lm 1 White		200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	114.0 + 22.0° / 120.0 + 158.0° 94 % 0.8 cd/lm 1 White		25 28 29 29 29 29 29 29 29 29 29 29 29 29 29



			90° 90°
LED	XP-G2		
FWHM / FWTM	94.0 + 19.0° / 152.0 + 31.0°		25
Efficiency	94 %		400
Peak intensity	1.3 cd/lm		BU BU
LEDs/each optic	1		
Light colour	White		870 - 870
Required compone			
			34 36
CREE ≑			135 ⁴ 0 ⁶ 15 ⁵
LEDS			90° 90°
LED	XP-G4		73° 73°
FWHM / FWTM	92.0 + 19.0° / 129.0 + 32.0°		
Efficiency	96 %		60* 60*
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		834
Required compone	nts:		
			34 ⁴ 35 ⁴ 96 ⁴ 15 ⁵
			90* 90*
LED	XP-L HD		
FWHM / FWTM	109.0 + 26.0° / 152.0 + 43.0°		75°
Efficiency	91 %		
Peak intensity	0.8 cd/lm		604 604
LEDs/each optic	1		460
Light colour	White		457
Required compone			
			20 ⁴ 15 ⁴ 0 ⁶ 15 ⁴ 30 ⁴
			90* 90*
LED	XP-L2		38
FWHM / FWTM	100.0 + 28.0° / 153.0 + 49.0°		The The
Efficiency	94 %	A CONTRACTOR OF THE OWNER.	
Peak intensity	0.8 cd/lm		60* 60*
LEDs/each optic	1		400
Light colour	White		167 G7
Required compone			
1			810



			90° 90°
LED	XT-E		
FWHM / FWTM	124.0 + 22.0° / 119.0 + 173.0°		75°
Efficiency	94 %		200
Peak intensity	0.7 cd/lm		eor eor
LEDs/each optic	1		400
Light colour	White		45" (5"
Required compone	ents:		
			30° 200 30° 30° 30°
	EDS		90° 90°
LED	LUXEON CZ		
FWHM / FWTM	105.0 + 9.0° / 145.0 + 16.0°		73* 75*
Efficiency	94 %		
Peak intensity	2.4 cd/lm		
LEDs/each optic	1		
Light colour	White		45*
Required compone	ents:		2600
			30" 2400 36" 36"
	EDS		90° 90°
LED	LUXEON T		
FWHM / FWTM	95.0 + 19.0° / 30.0 + 148.0°	A REAL PROPERTY AND A REAL	73.
Efficiency	93 %		60° 400 60°
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
Light colour	White		97" 000 000 000 000
Required compone	ents:		
			36° 1230 36° 15°
	EDS		90° 5 2°
LED	LUXEON TX		
FWHM / FWTM	93.0 + 19.0° / 145.0 + 31.0°		73
Efficiency	94 %		60 ⁶
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
Light colour	White		45° 800
Required compone	ents:		
1			30° 30°
			15° 0° 18°



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NCSxx19A 112.0 + 20.0° / 104.0 + 167.0° 94 % 0.9 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NCSxx19B 95.0 + 15.0° / 151.0 + 27.0° 94 % 1.6 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 99.0 + 21.0° / 149.0 + 35.0° 94 % 1.1 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 101.0 + 20.0° / 145.0 + 32.0° 94 % 1.2 cd/lm 1 White	2.



OSRAM Opto Semiconductors		99*	90*
LED	OSLON Square PC		22
FWHM / FWTM	116.0 + 22.0° / 114.0 + 172.0°	75%	7 782
Efficiency	94 %		200
Peak intensity	0.8 cd/lm		60*
LEDs/each optic	1		400
Light colour	White		5
Required componer	nts:		
		30* 334	800 0° 15° 30°
OSRAM Opto Semiconductors		20*	90*
LED	OSLON SSL 150		
FWHM / FWTM	106.0 + 11.0° / 22.0 + 152.0°	25	75*
Efficiency	93 %		400
Peak intensity	1.7 cd/lm		
LEDs/each optic	1		800
Light colour	White	9 ⁻	45°
Required componer	nts:		1230
			160
		300	30,0
OSRAM			0° 15°
Opto Semiconductors			0 [†] 15 [*]
Opto Semiconductors	OSLON SSL 80	23°	0 ⁴ 32 ⁵
opto Semiconductors LED FWHM / FWTM	84.0 + 12.0° / 23.0 + 144.0°	90* 237	
opto Semiconductors LED FWHM / FWTM Efficiency	84.0 + 12.0° / 23.0 + 144.0° 93 %	6)r 22 80,	00 00 00 00 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm	804 23 29	00 22 ²
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1	90 ⁴ 90 ⁴ 90 ⁴	000 000 000 000 000 000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White	97 90 90 90	000 000 000 000 000 000 000 000 000 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White	90°	000 000 000 000 000 000 000 000 000 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White	97 97 99 90 90	100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White	904 904 904 904 904 904 904	22 22 29 29 29 29 29 29 29 29 29 29 29 2
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White hts:		22 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White Its:		22 24 25 25 25 25 25 25 25 25 25 25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White hts: NG LH351Z		22 4 5 5 5 5 5 5 5 5 5 5 5 5 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White hts: NG LH351Z 95.0 + 19.0° / 133.0 + 31.0°		25 100 100 100 100 100 100 100 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White hts: ING LH351Z 95.0 + 19.0° / 133.0 + 31.0° 94 %		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White tts: ING LH351Z 95.0 + 19.0° / 133.0 + 31.0° 94 % 1.5 cd/lm		1000 100 1000 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White tts: ING LH351Z 95.0 + 19.0° / 133.0 + 31.0° 94 % 1.5 cd/lm 1		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White tts:		400
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White tts:		60) 00) 77
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White tts:		400
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0 + 12.0° / 23.0 + 144.0° 93 % 2 cd/lm 1 White tts:		60) 00) 77



SECUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M3 102.0 + 20.0° / 149.0 + 37.0° 94 % 1.1 cd/lm 1 White ints:	
		30 ⁴ 0 ⁴ 15 ⁵ 3 ⁵
		90° 90°
LED	Z8Y22P	
FWHM / FWTM	115.0 + 21.0° / 154.0 + 34.0°	
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	24* 23 ⁻ 2 ⁰ 3 ⁻



Privite / FVTM 90 + 20.0° / 150.0 + 37.0° Efficiency 94 % Peak intensity 1.1 cd/m LEDXeech optic 1 Light colour White Required components: PED XO-E HD Privite / T31.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cd/m LEDXeech optic 1 Light colour White Required components: PED LUXELEDS LED CUNILEDS LED CUNILEDS LED White Required components: Performer 92 % Peak intensity 1.5 cd/m Light colour White Required components: PED LUXECN C EFFICIENCY 92 % Peak intensity 1.5 cd/m Light colour White Required components: PED LUXECN C EFFICIENCY 92 % Peak intensity 1.5 cd/m Light colour White Required components: PED LUXECN C EFFICIENCY 92 % Peak intensity 1.5 cd/m Light colour White Required components: PED LUXECN C EFFICIENCY 95 % Peak intensity 2.5 cd/m Light colour White Required components: PED LUXECN C2 FVMM / FVTM 750 + 10.0° / 139.0 + 19.0° EFFICIENCY 95 % Peak intensity 2.5 cd/m LEDXecon for 1 Light colour Red LUXECN C2 FVMM / FVTM 750 + 10.0° / 139.0 + 19.0° EFFICIENCY 750 + 10.0° Peak intensity 2.5 cd/m LEDXecon for 1 LEDXecon for			
LED XP-G3 FWHM / FWTM S30 + 200 ' 150 0 + 37.0° FWHM / FWTM S30 + 200 ' 150 0 + 37.0° FWHM / FWTM S30 + 100'' 150 0 + 37.0° FWHM / FWTM S30 + 100'' 131 0 + 21.0° ELED X0-E HD FWHM / FWTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95% Peak intensity 2.5 cd/m LEDS Keed optic 1 LEDS KEEDS K			90° 90°
Privite / FVTM 90 + 20.0° / 150.0 + 37.0° Efficiency 94 % Peak Intensity 1.1 colm LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 Light colour White Required components: EFEC S LED VOLEEDS LED ULXEON C Privite / FVTM 10.0 + 8.0° / 21.0 + 188.0° Efficiency 95 % Peak Intensity 1.5 colm LEDS/each optic 1 Light colour White Required components: ED ULXEON C Privite / FVTM 10.0 + 8.0° / 21.0 + 188.0° Efficiency 92 % Peak Intensity 1.5 colm LEDS/each optic 1 Light colour White Required components:	LED	XP-G3	
Peak Intensity 1.1 col/m LEDAteach optic 1 LEDAteach optic 1 LEDAteach optic 2 LED X0-E HD PWHM / FWTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak Intensity 2.5 col/m LEDAteach optic 1 Light colour White Required components: CUDILEDS Efficiency 92 % Peak Intensity 1.6 col/m LEDAteach optic 1 Light colour White Required components: CUDILEDS Efficiency 92 % Peak Intensity 1.6 col/m LEDAteach optic 1 Light colour White Required components: CUDILEDS EFD LUXEON C2 FWHM / FWTM 75.0 + 10.0° / 13.0 + 9.0° Efficiency 95 % Peak Intensity 2.5 col/m LEDAteach optic 1 Light colour White Required components:	FWHM / FWTM	93.0 + 20.0° / 150.0 + 37.0°	25
Peak Intensity 1.1 col/m LEDAteach optic 1 LEDAteach optic 1 LEDAteach optic 2 LED X0-E HD PWHM / FWTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak Intensity 2.5 col/m LEDAteach optic 1 Light colour White Required components: CUDILEDS Efficiency 92 % Peak Intensity 1.6 col/m LEDAteach optic 1 Light colour White Required components: CUDILEDS Efficiency 92 % Peak Intensity 1.6 col/m LEDAteach optic 1 Light colour White Required components: CUDILEDS EFD LUXEON C2 FWHM / FWTM 75.0 + 10.0° / 13.0 + 9.0° Efficiency 95 % Peak Intensity 2.5 col/m LEDAteach optic 1 Light colour White Required components:	Efficiency	94 %	
LEDS/each optic 1 Light colour White Required components: CREE : LED XO-E HD FWMA /FVTM 75.0 + 11.0° / 13.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cul/m LEDS/each optic 1 LEDS/each optic 1	-	1.1 cd/lm	60°
Light colour While Required components: LED XQ-E HD FWHM / FWTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cd/m LED LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/m LEDSeach optic 1 LED KUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/m LEDSeach optic 1 LED KUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 2.5 cd/m LEDSeach optic 1 LED KUXEON C FWHM / FWTM 75.0 + 10.0° / 13.0 + 18.0° Efficiency 95 % Peak intensity 2.5 cd/m LED KUXEON C FWHM / FWTM 75.0 + 10.0° / 13.0 + 18.0° FWHM / FWTM 75.0 + 10.0° / 10.0° FWHM / FWTM 75.0 + 1		1	
Required components: CREE 5: LED XQ-E HD FWHM / FWTM 78.0+11.0° / 131.0+21.0° Efficiency 95 % Peak intensity 2.5 cd/m LED& LUXEON C Required components: CUMILEDS LED LUXEON C FWHM / FWTM 11.0+84.0° / 21.0+168.0° Efficiency 92 % Peak intensity 1.6 cd/m LED& LUXEON C FWHM / FWTM 11.0+84.0° / 21.0+168.0° Efficiency 92 % Peak intensity 1.6 cd/m LED& LUXEON C FWHM / FWTM 11.0+84.0° / 21.0+168.0° Efficiency 92 % Peak intensity 1.6 cd/m LED& LUXEON C FWHM / FWTM 10+84.0° / 21.0+168.0° Efficiency 92 % Peak intensity 1.6 cd/m LED & LUXEON CZ FWHM / FWTM 75.0+10.0° / 150.0° Efficiency 95 % Peak intensity 2.5 cd/m LED / FWTM 75.0+10.0° / 150.0° Efficiency 95 % Peak intensity 2.5 cd/m LED/ Efficiency 95 % Peak intensity 2.5 cd/m LED/ Efficiency 95 % Peak intensity 2.5 cd/m		White	43* 43*
CREE & LED XQ-E HD FWHM / FVTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cd/m LED beech optic 1 Light colour White Required components:			
CREES LED XO-E HD VHM / FVTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cd/m LEDveach optic 1 Light colour White Required components: Image: Color of the second			
Image: Colspan="2" mean: Colspan="2" mea: Colspan="2" mean: Colspan="2" mean: Colspan="2" mean:			
LED XO-E HD FWHM / FWTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cd/m LED LUXEON C While Required components: IED LUXEON C FWHM / FWTM 1.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/m LED/seach optic 1 Light colour White Required components: ************************************			
LED XQ-E HD FWHM / FWTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cd/m LEDS/each optic 1 Light colour White Required components: ED LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/m LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 LEDS ED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/m LEDS/each optic 1 LEDS/each optic			150 200 150
FWHM / FWTM 78.0 + 11.0° / 131.0 + 21.0° Efficiency 95 % Peak intensity 2.5 cd/m LEb/each optic 1 Light colour White Required components: Image: Components Image: Components			90* 90*
Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 LeDs/each optic 1 LeD White Required components:	LED		73* 75*
Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components: CUNILEDS LED LUXEON C FWHM / FWTM 11.0 + 84.0" / 21.0 + 168.0" Efficiency 92% Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: ED LUXEON CZ FWHM / FWTM 75.0 + 10.0" / 139.0 + 19.0" Efficiency 95% Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red			
LEDs/each optic 1 Light colour White Required components: ED LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/m LEDs/each optic 1 Light colour White Required components:			60° 60°
Light colour White Required components: CUMILEDS LED LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red			
Required components:			
LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component (Component (Com		White	45° 45°
LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component State S	Required components:		
LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component State S			
LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/Im LEDs/each optic 1 Light colour White Required components: Image: Component State S			
LED LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red			36" 35" 0" 35"
LED LUXEON C FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red)S	
FWHM / FWTM 11.0 + 84.0° / 21.0 + 168.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component State St			90* 90*
Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components:	LED		50° 20°
LEDs/each optic 1 Light colour White Required components:		LUXEON C	30 ⁻ 73 ⁻
LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM	LUXEON C 11.0 + 84.0° / 21.0 + 168.0°	
Required components:	LED FWHM / FWTM Efficiency	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 %	90° 90° 73° 72° 60° 90°
Image: Constraint of the second se	LED FWHM / FWTM	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm	90 ⁻ 75 ⁻ 80 ⁺ 80 ⁺ 80 ⁺ 80 ⁺ 80 ⁺ 80 ⁺ 80 ⁺
LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1	73°
LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1	73°
LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1	73°
LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1	73°
LED LUXEON CZ FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1	73°
FWHM / FWTM 75.0 + 10.0° / 139.0 + 19.0° 75.0 + 10.0° / 139.0 + 19.0° Efficiency 95 % 96 96 96 97	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White	25° 6° 7° 7° 7° 7° 7°
Efficiency 95 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White	25° 6° 7° 7° 7° 7° 7°
Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ	25° 6° 7° 7° 7° 7° 7°
LEDs/each optic 1 Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0°	25° 6° 7° 7° 7° 7° 7°
Light colour Red	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0° 95 %	25° 6° 7° 7° 7° 7° 7°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White Vhite LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0° 95 % 2.5 cd/lm	25° 6° 7° 7° 7° 7° 7°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0° 95 % 2.5 cd/lm 1	25° 6° 7° 7° 7° 7° 7°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0° 95 % 2.5 cd/lm 1	25° 6° 7° 7° 7° 7° 7°
340 Ale	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0° 95 % 2.5 cd/lm 1	20 20 20 20 20 20 20 20 20 20
3 ⁴	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0° 95 % 2.5 cd/lm 1	20 20 20 20 20 20 20 20 20 20
227 0 29	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 11.0 + 84.0° / 21.0 + 168.0° 92 % 1.6 cd/lm 1 White S LUXEON CZ 75.0 + 10.0° / 139.0 + 19.0° 95 % 2.5 cd/lm 1	20 20 20 20 20 20 20 20 20 20



UMILE	DS	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON H50-2 18.0 + 86.0° / 31.0 + 137.0° 93 % 1.5 cd/lm 1 White	
	DS	99 ⁴ 990
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON Rubix 79.0 + 10.0° / 142.0 + 18.0° 96 % 2.5 cd/lm 1 Green	6 ¹ 200 67
	DS	34 ² 25 ² 34
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON Rubix 80.0 + 10.0° / 142.0 + 18.0° 96 % 2.5 cd/lm 1 Blue	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON Rubix 79.0 + 10.0° / 143.0 + 18.0° 96 % 2.5 cd/lm 1 White	91 ⁴ 91 ⁴ 92 93 95 95 95 95 95 95 95 95 95 95 95 95 95



)S	50° 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Rubix 76.0 + 10.0° / 140.0 + 18.0° 96 % 2.7 cd/lm 1 Red	20° 0° 20° 20°
@ LUMILEDS		90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Z ES 84.0 + 13.0° / 141.0 + 22.0° 95 % 2.1 cd/lm 1 White	24, 12, 0, 12, X 6, 100 6, 00 6, 00 23, 2 24, 00 100 100 100 100 100 100 100
Μ ΝΙCΗΙΛ		90° 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxE17A 79.0 + 12.0° / 140.0 + 22.0° 95 % 2 cd/lm 1 White	
	NVSxE21A	90 ²
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	91.0 + 16.0° / 143.0 + 27.0° 94 % 1.5 cd/lm 1 White	



1

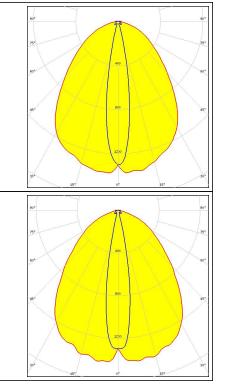
OSF	NAS	1
Opto Semi	conducto	r

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSLON Square CSSRM2/CSSRM3 89.0 + 18.0° / 145.0 + 31.0° 94 % 1.4 cd/lm White

SEOUL

SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:

Z5M1/Z5M2 91.0 + 20.0° / 141.0 + 30.0° 95 % 1.4 cd/lm 1 White





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:

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