

## **VERONICA-SQ-MINI-D**

~15° diffused spot beam

### **SPECIFICATION:**

Dimensions	13.9 x 13.9 mm
Height	8.9 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



### **MATERIALS**:

**Component** VERONICA-SQ-MINI-D VERONICA-SQ-MINI-TAPE

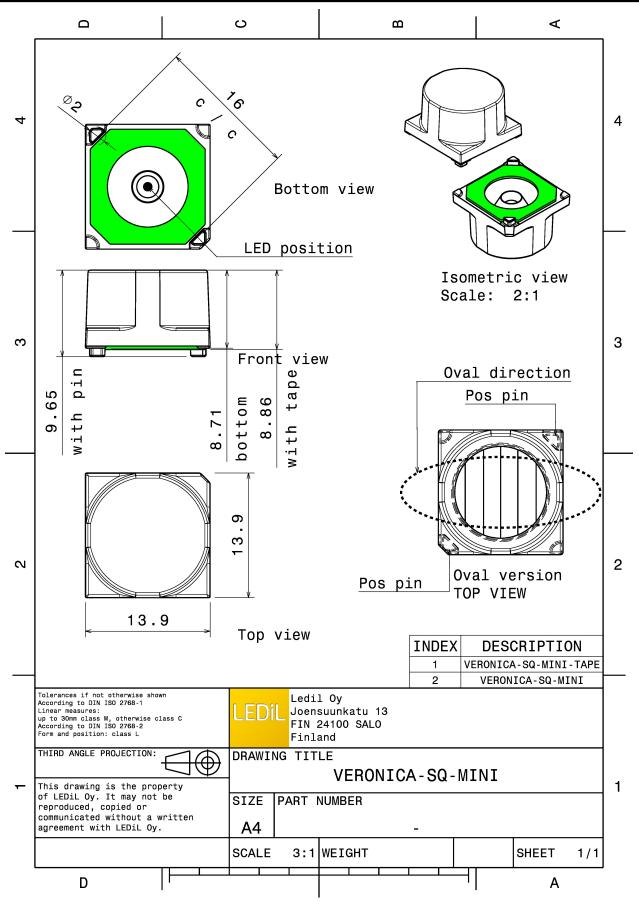
Туре
Single lens
Tape

Material	Colour	Finish
PMMA	clear	
Acrylic foam	clear	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA15519_VERONICA-SQ-MINI-D	Single lens	5544	252	252	8.2
» Box size: 480 x 280 x 300 mm					





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



## **OPTICAL RESULTS (MEASURED):**

			50°	90*
LED	XD16			
FWHM / FWTM	17.0° / 42.0°		75	
Efficiency	90 %			$() \land ()$
Peak intensity	3.7 cd/lm		50%	200
LEDs/each optic	1			+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
Light colour	White		47" ×	45*
Required compone			240	+ $+$ $+$ $>$ $>$
			$\times$	X
			20	
			30° 15° 408	36°
			90°	90*
LED	XP-E2			
FWHM / FWTM	15.0° / 33.0°		75*	2
Efficiency	92 %		505	
Peak intensity	7.2 cd/lm			
LEDs/each optic	1		$X / \Pi$	$X \land D$
Light colour	White		97°	45°
Required compone	ents:			
			643	
			30*	36.
			15% 0°	150
				F
			90*	90*
CREE ÷	XP-G3		50*	90*
	XP-G3 24.0° / 55.0°		<u>50*</u>	99*
LED			90 <sup>4</sup>	
LED FWHM / FWTM	24.0° / 55.0°		50* 10*	9°
LED FWHM / FWTM Efficiency	24.0° / 55.0° 93 %		60x	97
LED FWHM / FWTM Efficiency Peak intensity	24.0° / 55.0° 93 % 2.6 cd/lm		50° 50° 50°	90' 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 55.0° 93 % 2.6 cd/lm 1 White		90 <sup>4</sup> 70 90 90 90 90 90 90 90 90 90 90 90 90 90	99 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 55.0° 93 % 2.6 cd/lm 1 White		90 <sup>4</sup> 97 60 <sup>4</sup> 07	99 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 55.0° 93 % 2.6 cd/lm 1 White			9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 55.0° 93 % 2.6 cd/lm 1 White		90 <sup>4</sup> 77 60 <sup>4</sup> 97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90	90' 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents:		30' 15' 0'	3/ 3/
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A		30' 15' 0'	3/ 3/
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0°		30' 15' 0'	3/ 3/
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 %		30' 15' 0'	3/ 3/
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm		30' 15' 0'	37 37
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1		30 <sup>4</sup> 30 <sup>4</sup> 20 00 00	2 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		30 <sup>4</sup> 30 <sup>4</sup> 20 00 00	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		30 <sup>4</sup> 35 <sup>5</sup> 0 <sup>2</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		30 <sup>4</sup> 35 <sup>5</sup> 0 <sup>2</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		30 <sup>4</sup> 35 <sup>5</sup> 0 <sup>2</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 55.0° 93 % 2.6 cd/lm 1 White ents: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		30 <sup>4</sup> 35 <sup>5</sup> 0 <sup>2</sup>	

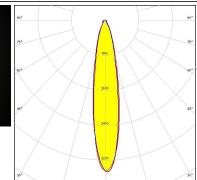


### **OPTICAL RESULTS (MEASURED):**

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LED	Duris S5 (2 chip)		
FWHM / FWTM	20.0° / 48.0°		
Efficiency	93 %		
Peak intensity	3.5 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			





#### OSRAM Opto Semiconduct

LED	SFH 4170S		
FWHM / FWTM	11.0° / 31.0°		
Efficiency	%		
LEDs/each optic	1		
Light colour	IR		
Required components:			

#### OSRAM Opto Semiconductors

LED	SFH 4180S
FWHM / FWTM	11.0° / 29.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required componer	nts:

	JNG		90*	5
_ED	LH181A		25*	
FWHM / FWTM	19.0° / 51.0°			
Efficiency	88 %		60 <sup>4</sup> 800	$\langle \langle \rangle$
Peak intensity	2.4 cd/lm			
EDs/each optic	1		$\parallel \times / / \mid$	$\wedge \wedge \times$
ight colour	White		43.4	NX.
Required compone	ents:			T



## **OPTICAL RESULTS (MEASURED):**

SAMS	UNG	80°
LED	LH181B	77
FWHM / FWTM	19.0° / 50.0°	
Efficiency	90 %	60
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	
Light colour	White	g. <u>500</u>
Required compone	ents:	200



## **OPTICAL RESULTS (SIMULATED):**

		90° 90°
	J Series 3030	
LED FWHM / FWTM	18.0° / 38.0°	75"
		1600
Efficiency	94 %	60 <sup>6</sup> 60 <sup>6</sup>
Peak intensity	6.1 cd/lm	
LEDs/each optic	1	
Light colour	White	6°
Required components:		
		X / X
		30 <sup>4</sup> 35 <sup>4</sup> 6400 36 <sup>4</sup>
CREE ≑		50°
LEDS		
LED	XP-G2 HE	75'
FWHM / FWTM	26.0° / 49.0°	
Efficiency	97 %	60°
Peak intensity	3.4 cd/lm	1600
LEDs/each optic	1	
Light colour	White	a. de
Required components:		200
		30° 30°
		15% 00 15%
MUMILEC 🖉	DS States and the second se	90* 90*
LED	LUXEON 2835 Line	
FWHM / FWTM	14.0° / 32.0°	23*
Efficiency	96 %	
Peak intensity	8.4 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	PC Amber	g.e
Required components:		X   X
i toquiroù componenter		6430
		$ \times / \vee $
		30° 155 0° 15° 36°
	DS	50° 50°
LED	LUXEON 3030 HV	
FWHM / FWTM	18.0° / 43.0°	75
Efficiency	95 %	
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	$  \times / /     \wedge \times$
Light colour	White	5× / / / / / / / / / / / / / / / / / / /
Light colour		3200
Required components:		$\langle /   / \rangle \rangle$
		$\times / \setminus \times$



## **OPTICAL RESULTS (SIMULATED):**

	05	90° <b>0</b> °
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL1Z 12.0° / 32.0° 96 % 8.4 cd/lm 1 White	20° 0° 12° 0°
<b>Μ</b> ΝΙCΗΙΛ		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM 28.0° / 68.0° 95 % 2.1 cd/lm 1 White	30 20 20 20 20 20 20 20 20 20 20 20 20 20
		15 <sup>5</sup> 0 <sup>6</sup> 35 <sup>5</sup>
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxx19B/NVSxx19C 24.0° / 48.0° 94 % 3.7 cd/lm 1 White	27 27 60 61 61 62 520 500 520 50 520 520 520 520
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3737 (2W version) 18.0° / 39.0° 94 % 5.6 cd/lm 1 White	34 HA 64 HA 94



## **OPTICAL RESULTS (SIMULATED):**

OSRAM Opto Semiconductors		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 19.0° / 38.0° 94 % 5.8 cd/lm 1 White	27 27 27 27 20 20 20 20 20 20 20 20 20 20
SAMSUN	IG	50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 24.0° / 47.0° 94 % 3.8 cd/lm 1	75° 00 75°
Light colour Required components:	White	34 230 230 230 200 200 200 200 200
scout, semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MJT 3030 18.0° / 41.0° 96 % 5.4 cd/lm 1 White	30° 300 60 300 60   30° 300 60 60 60
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z8Y22T 20.0° / 52.0° 94 % 3.4 cd/lm 1 White	90° 90° 75° 90° 66° 66° 460 66° 460 66° 460 66° 460 66°