

## **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 **Type** Single lens Tape

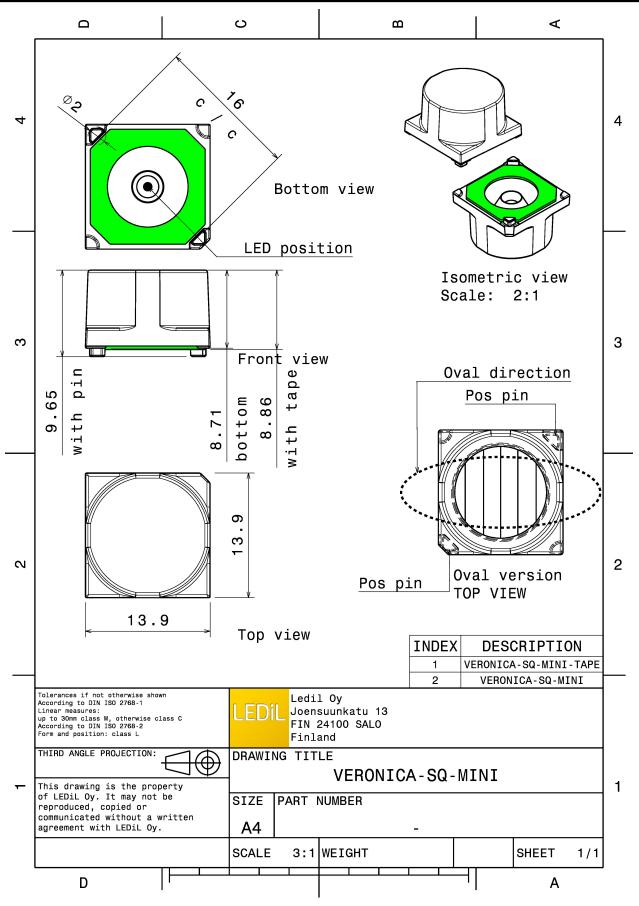
Material	Colour	Finish
PMMA	clear	
Acrylic foam	clear	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA15519_VERONICA-SQ-MINI-D	Single lens	5544	252	252	8.2
» Box cizo: 490 x 290 x 200 mm					

» Box size: 480 x 280 x 300 mm





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



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

			90* 90
LED	 XD16		
FWHM / FWTM	17.0° / 42.0°		75 25
Efficiency	90 %		
Peak intensity	3.7 cd/lm		60* 60
LEDs/each optic	1		
Light colour	White		45° 45
Required compone			
			200
			30° 350
	_		15' 40% 25'
			90*
LED	XP-E2		
FWHM / FWTM	15.0° / 33.0°		1000
Efficiency	92 %		
Peak intensity	7.2 cd/lm		
LEDs/each optic	1		
Light colour	White		() () () () () () () () () () () () () (
Required compone	nts:		
			6100
			304 35
			15% 0% 25%
			30'
LED	XP-G3		30 <sup>+</sup>
LED FWHM / FWTM	XP-G3 24.0° / 55.0°		99)* 99 73'
LED FWHM / FWTM Efficiency	XP-G3 24.0° / 55.0° 93 %		90 <sup>+</sup> 75 <sup>+</sup> 60 <sup>+</sup> 500 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm		90 <sup>4</sup> 90 73 60 <sup>4</sup> 00 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White		99 <sup>4</sup> 73 <sup>5</sup> 69 <sup>4</sup> 5 <sup>5</sup> 160 5 160 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White		99 <sup>4</sup> 99 72 <sup>5</sup> 72 99 <sup>4</sup> 80 9 <sup>4</sup> 80 160
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White		90 <sup>4</sup> 75 <sup>4</sup> 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White		99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 1600 1600 1600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A 17.0° / 44.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A 17.0° / 44.0° 89 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 24.0° / 55.0° 93 % 2.6 cd/lm 1 White nts: NCSxE17A 17.0° / 44.0° 89 % 3.6 cd/lm 1 White		

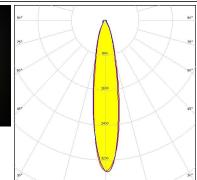


## **OPTICAL RESULTS (MEASURED):**

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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 Semiconduct

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

	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			$\wedge \wedge \wedge \checkmark$
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):**

CREE LED	J Series 3030 18.0° / 38.0° 94 % 6.1 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50
		90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 26.0° / 49.0° 97 % 3.4 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
CUMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 14.0° / 32.0° 96 % 8.4 cd/lm 1 PC Amber	200 00° 200 00° 200 200 00° 200 00°
<b>CUMILED</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 HV 18.0° / 43.0° 95 % 5.1 cd/lm 1 White	30° 91° 91° 91° 91° 91° 91° 91° 91° 91° 91° 91° 91° 91°



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

	05	90* A 90*
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° 10° 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>
<b>WICHIA</b> LED 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	25° (100 (100 (100 (100 (100 (100 (100 (10
OSERAM 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	50 62 100 100 100 100 100 100 100 10



## **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° 73° 90° 68° 68° 96° 68° 68° 96° 68° 68° 96° 68° 68° 96° 68° 68° 96° 68° 68° 96° 68° 68° 68° 96° 68° 68° 68° 96° 68° 68° 68° 68° 68° 68° 68° 68° 68° 6



#### **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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