

VL5 Nano

Everyday LED lighting solution for block acrylic signs and small channel letters



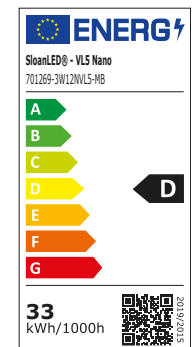
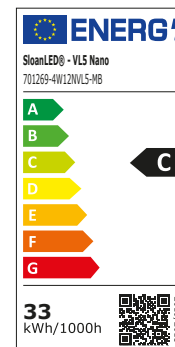
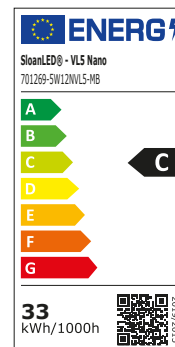
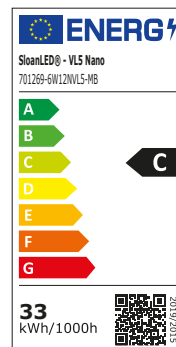
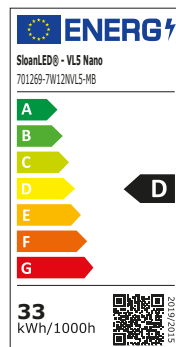
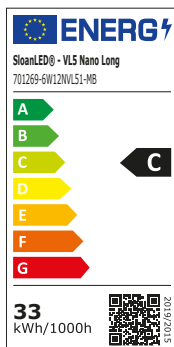
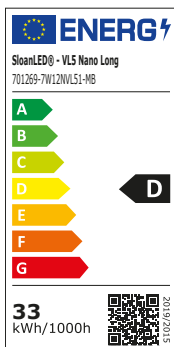
12
VDC

VL5 Nano is the next generation, everyday LED lighting solution for illuminating block acrylic signs and small channel letters. VL5 shatters expectations with improved elliptical optics for unprecedented light distribution, efficacy up to 176 lm/W, and a lifetime rating of over 54,000 hours—delivering both value and performance in a solution that stands the test of time.

*Easy installation with
self-adhesive back*

- Ideal for routed acrylic block letter, shallow channel letter, and backlit halo letter applications as shallow as 25 mm
- Available in Standard White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K) and Colors (Red, Green, Blue), and Long White (6500 K, 7200 K)
- Use fewer modules for faster installation and lower cost per sign

*Individual modules for easy
installation with no soldering
and no PCB cutting*



White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K) & Colors (Red, Green, Blue)



IP66/68 construction



>70



-40° C - +60° C



>54,000 hours



165°



Up to 176 lm/W



Specifications subject to change without notice.



SloanLED®
A Principal Industries Company

VL5 Nano

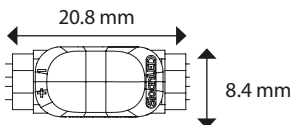
Everyday LED lighting solution for block acrylic signs and small channel letters



12
VDC

Specifications

MODEL	LEDS	L×W×H	OPTIMAL CAN DEPTH
Nano & Nano Long (12VDC)	1	20.8 mm × 8.4 mm × 8.6 mm	25 - 55 mm

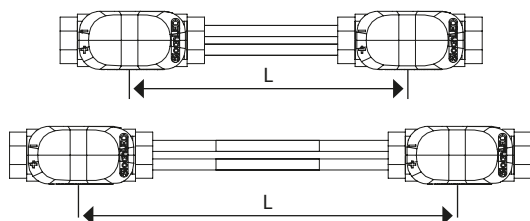


MODEL	MODS/M	CCT/NM	PART NUMBER	CRI	POWER/MOD	LUMENS/MOD (NOMINAL)	EFFICACY	MODS/CHAIN	PACKAGING
Nano	25	3000 K	701269-3W12NVL5-MB	>70	0.22 W	35	Up to 176 lm/W	150	6.0 m (150 modules) per daisy chain, 7 bags per carton
		4000 K	701269-4W12NVL5-MB			38			
		5000 K	701269-5W12NVL5-MB			38			
		6500 K	701269-6W12NVL5-MB			39			
		7200 K	701269-7W12NVL5-MB		38				
		Red (625 nm)	701269-RD12NVL5-MB		0.13 W	4.9	38 lm/W		
		Green (527 nm)	701269-GR12NVL5-MB			13.5	104 lm/W		
		Blue (470 nm)	701269-BL12NVL5-MB			3.0	23 lm/W		
Nano Long	18.2	6500 K	701269-6W12NVL51-MB	>70	0.22 W	39	Up to 176 lm/W	150	8.3 m (150 modules) per daisy chain, 7 bags per carton
		7200 K	701269-7W12NVL51-MB						

Module spacing

Nano (12VDC)40 mm maximum module spacing, 19.2 mm wire length

Nano Long (12VDC)55 mm maximum module spacing, 34.2 mm wire length



Viewing angle 165°

Operating temperature -40° C to +60° C

Optional dimming 0-10 V, PWM, and resistor dimming via SloanLED dimmable drivers

Fastening Peel-n-stick

Protection class IP66/68 construction

Binning 3-Step MacAdam Ellipse

Wire gauge 22 AWG

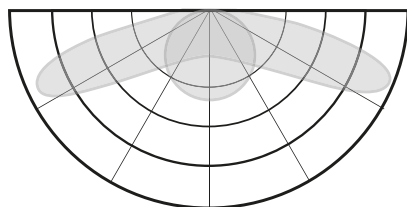
Lifetime rating >54,000 hours

Warranty Life of Sign / 10-year limited labor

Power Supply Capacity

	VL5 NANO White (7200 K, 6500 K, 5000 K, 4000 K, 3000 K)	VL5 NANO Red, Green, Blue	VL5 NANO LONG White (7200 K, 6500 K)
12 VDC			
POWER SUPPLY			
30 W (EU/ROW ONLY)	5.0 m / 125 mods	8.3 m / 207 mods	6.9 m / 125 mods
60 W	10.0 m / 250 mods	16.6 m / 415 mods	13.8 m / 250 mods

Luminous Intensity Distribution



Density Guidelines

SIZE	CAN DEPTH	MM ON CENTER STANDARD FACE	MM ON CENTER DARK VINYL	MM ON CENTER PERF. VINYL	WATTS PER MODULE	MODS PER M² STANDARD FACE	MODS PER M² DARK VINYL
Nano (Face-lit) Whites	40 mm	40	30	20	0.22	625.0	833.3
	50 mm	60	Test	Test		416.7	Test
Nano (Face-lit) Colors	40 mm	40	30	20	0.13	625.0	833.3
	50 mm	60	Test	Test		416.7	Test
Nano (BlockLED)*	30 mm	45	Test	Test	0.22	555.6	Test

* 30 mm BlockLED; 12 mm routed out, indirect illumination (modules facing white reflective backtray). Single row coverage 50 mm.

Notes:

- Test results based on Plexiglas WN071 3 mm acrylic, 30% translucency.
- It is recommended that you first test LED density in sample letter/cabinet to evaluate brightness, uniformity and color.
- Should you have questions or require assistance in testing, please contact your SloanLED customer service representative.
- > Symbol represents greater than. < Symbol represents less than. ≥ Symbol represents greater than or equal to.
- For multiple rows, calculate half of the row spacing given from the table and start first row offset that distance from return.
- Products can be used in can depths deeper or shallower than listed above, but testing is recommended.

These guidelines are intended to provide only an approximation of product required for your sign, assuming an optimal balance of performance and cost. SloanLED is not responsible for the actual results based on the use of these guidelines.

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SloanLED channel letter products are covered by US and foreign patents pending and covered by one or more of the following US patents issued: 6,932,495, 7,241,031, 7,520,771.



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