

# SloanLED Prism

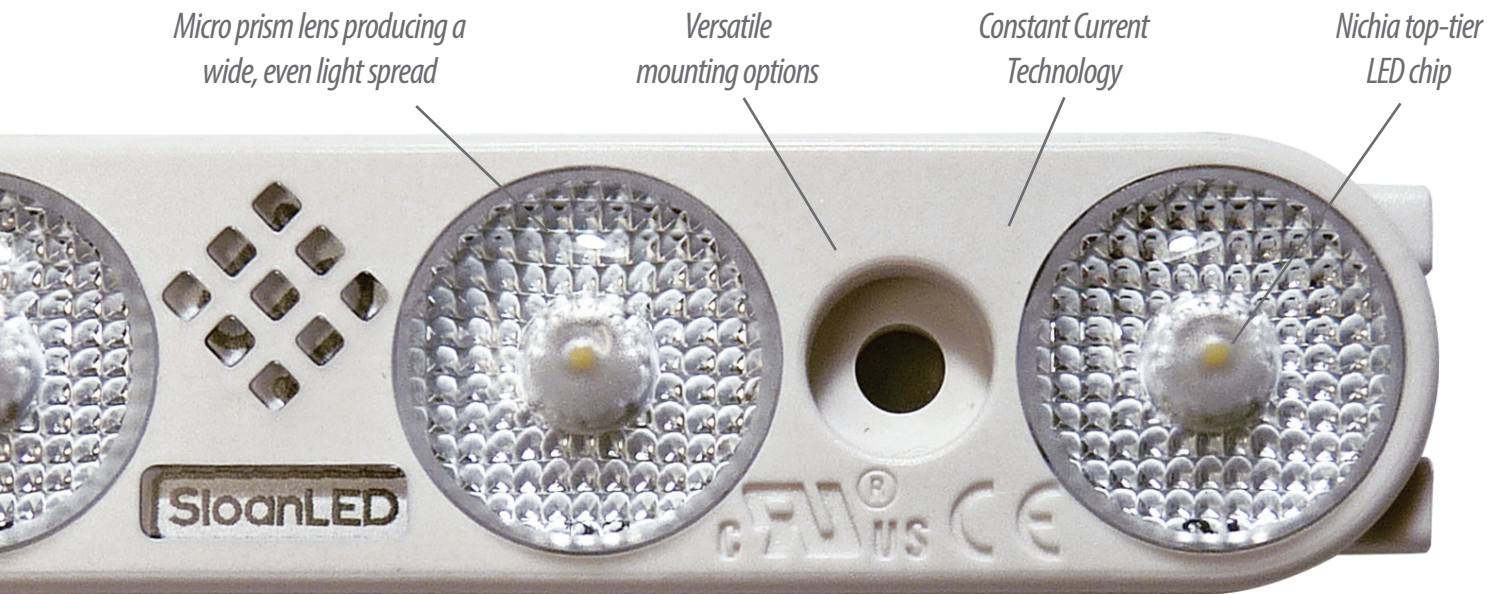
Reimagined LED lens technology



We Brighten  
Your Brands.

# We know a thing or two about sign lighting.

SloanLED has been a key manufacturer and supplier to the sign industry for more than 20 years. Our high-efficiency, long lasting solutions don't just light your signs; they represent significant energy cost reductions, maintenance cost savings, easy installation, faster ROI, and deliver exceptional performance with consistent brightness and uniformity.



- Brightest lighting option in its class
- Ideal lens shape for illuminating channel letters
- Use fewer modules for faster installation and lower cost per sign
- Versatile mounting options



SloanLED Prism is designed to give you the widest, most even spread of illumination, broadening spacing between rows, and properly dispersing the light to avoid hot spots in shallow applications. This results in a blend of light from all the modules, versus a direct projection onto the face from each module individually.

Module color	Desired can depth							
	50 mm (2 in)	75 mm (3 in)	100 mm (4 in)	125 mm (5 in)	150 mm (6 in)	175 mm (7 in)	200 mm (8 in)	225 mm+ (9 in+)
SloanLED Prism Whites and Colors	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
Mini	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
HO	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

■ Optimal   ■ Acceptable

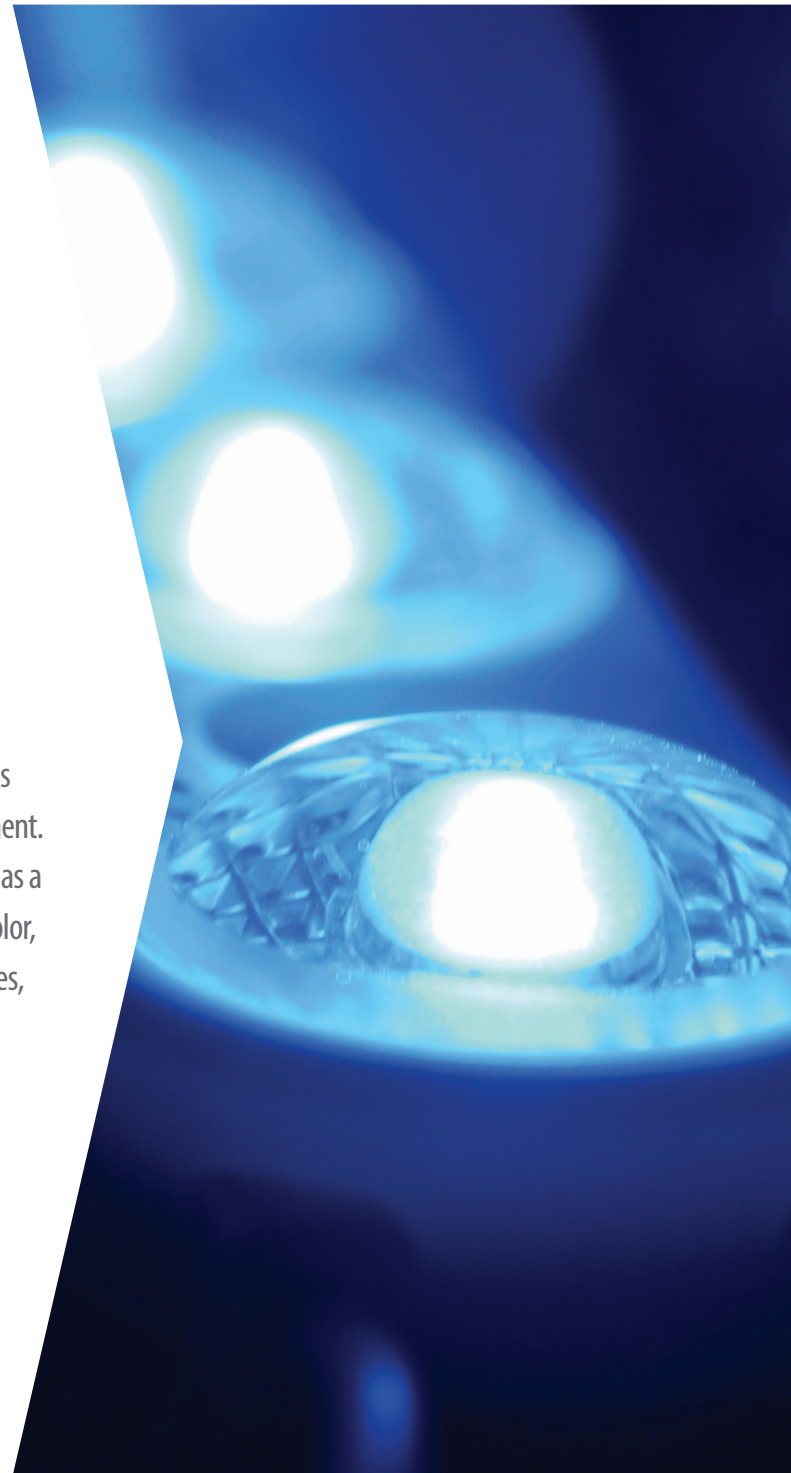
# We're on a power trip.

Constant Current Technology (CCT) is at the heart of SloanLED's product offering, and forms the backbone of SloanLED channel letter products. We introduced CCT to the industry to maintain consistent current levels, eliminating the line loss and voltage drop issues common in many LED lighting systems. CCT provides uniform light output throughout the entire installation, while also preventing damage from overdriving of the LEDs.

## Consistency is key.

The human eye is an incredibly sensitive instrument, and our brains are wired to detect exceptions and inconsistencies in our environment. Tiny process variations in manufacturing can manifest themselves as a problem when it comes to any product that deals with light and color, and this phenomenon can be observed in lot-to-lot variation in dyes, fabrics, and paints. LEDs are no exception.

Binning is a method of sorting LED chips so that all the LEDs from one particular bin share a similar output and appearance. Many LED systems often demonstrate a temperature range variation of 1000 K, and extreme deviations like that can result in substantial differences in color. SloanLED uses a 3-step MacAdam Ellipse binning process for chip color consistency so your brand is represented accurately every time.



## There's no substitute for quality.

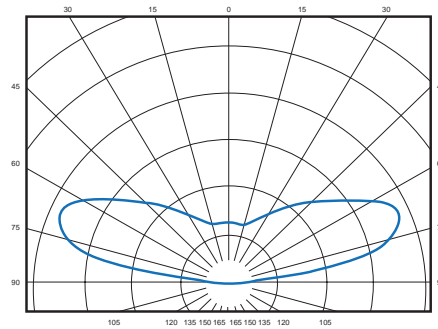
Other LED manufacturers use cheaper components and maximize the potential brightness of their products at the expense of longevity; overdriving the LEDs for instant gratification while sacrificing sustainability and longevity. SloanLED uses the highest caliber components in order to offer you a superior product with the longest lifespan.

# SloanLED Prism

## Specifications

<b>Dimensions L x W x H</b> .....	SloanLED Prism, HO.....	70 mm x 19 mm x 11 mm (2.75 in x 0.75 in x 0.44 in)
	Mini.....	25 mm x 18 mm x 11 mm (1 in x 0.72 in x 0.45 in)
	Colors.....	70 mm x 19 mm x 13 mm (2.75 in x 0.75 in x 0.50 in)
<b>LEDs per module</b> .....	SloanLED Prism, HO.....	3
	Mini.....	1
<b>Operating temperature</b> .....	SloanLED Prism, Mini...	-40° C to +70° C
	HO.....	-40° C to +60° C
<b>Protection class</b> .....		IP66 & IP68 <sup>1</sup>
<b>Binning</b> .....		MacAdam Step 3
<b>Life rating</b> .....	SloanLED Prism, Mini...	>60,000 hours
	HO.....	>50,000 hours
<b>Fastening</b> .....	SloanLED Prism, HO.....	Peel-n-stick and mechanical
	Mini.....	Peel-n-stick

## Luminous Intensity Distribution



1 Prism IP68 test parameters are 1.3 m submersion for 30 minutes. Do not mount in submerged application or where module will be directly exposed to prolonged flowing or dripping water.

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, 7,160,140, 7,241,031, 7,520,771, 7,931,386 and European Patent No. 1756471.



Use the online SloanLED Layout Estimator to get a quick SloanLED Prism design and material estimate for your sign.  
**Visit product page for details.**

## Whites

Model	Modules per meter/foot	Color temperature	Part number	Optimal can depth	Power per module	Lumens per module (nominal)	Efficacy	Power capacity per SloanLED 60 W 12 VDC power supply	Packaging of 5 trays per carton
SloanLED Prism	3.3/m (1/ft)	6500 K	701269-6WSJ2-MB	75-200 mm (3-8")	1.12 W	124	111 lm/W	48 modules (14.6 m / 48.0 ft)	14.6 m / 48.0 ft (48 modules) per tray
		7100 K	701269-7WSJ1-MB						
	4.9/m (1.5/ft)	6500 K	701269-6WSJ1-MB						
		5700 K	701269-57SJ1-MB						
		5000 K	701269-5WSJ1-MB						
		4000 K	701269-4WSJ1-MB						
		3000 K	701269-3WSJ1-MB						
Mini	7.4/m (2.25/ft)	6500 K	701269-6WMJ1-MB	50-100 mm (2-4")	0.46 W	44	95 lm/W	120 modules (16.3 m / 53.3 ft)	13.0 m / 42.7 ft (96 modules) per tray
HO	2.6/m (0.8/ft)	6500 K	701269-6WHJ1-MB	125-300 mm (5-12")	1.68 W	180	107 lm/W	32 modules (12.2 m / 40.0 ft)	12.2 m / 40.0 ft (32 modules) per tray

## Colors

Part number	Color	Nominal wavelength	Modules per meter/foot	Optimal can depth	Power per module	Lumens per module (nominal)	Efficacy	Power capacity per SloanLED 60 W 12 VDC power supply	Packaging of 5 trays per carton
701269-RDSJ3-MB	Red	628	6.6/m (2/ft)	75-200 mm (3-8")	0.72 W	24	33.5 lm/W	75 modules (11.4 m / 37.5 ft)	7.3 m / 24 ft (48 modules) per tray
701269-RDSJ1-MB									
701269-ORSJ1-MB	Orange	606	4.9/m (1.5/ft)						
701269-YLSJ1-MB	Yellow	589							
701269-GRSJ1-MB	Green	527							
701269-BLSJ1-MB	Blue	471							
						11	15 lm/W	75 modules (15.2 m / 50 ft)	9.8 m / 32 ft (48 modules) per tray
						60	83 lm/W		
						18	25 lm/W		

## Power Supply Capacity

Item description (Part number)	Power output	SloanLED Prism, 6500 K	SloanLED Prism, 7100 K, 6500 K, 5700 K, 5000 K, 4000 K, 3000 K	SloanLED Prism Mini 6500 K	SloanLED Prism HO 6500 K, 5000 K	Red, Orange, Yellow, Green, Blue	Red
<b>Modules per meter/foot</b>		3.3/1	4.9/1.5	7.4/2.25	2.6/0.8	4.9/1.5	6.6/2
Self-Contained 20 W [701680]	20 W	16 mods	16 mods	40 mods	10 mods	25 mods	25 mods
Compact 12/25 W [410174]	25 W	20 mods	20 mods	50 mods	13 mods	31 mods	31 mods
60C1 60 W [701507-60C1] 60W1 60 W [701507-60W1] 60W2 60 W [701507-60W2] MODW(E) 60 W [701507-MODW(E)] MOD277 60 W [701507-MOD277]	60 W	48 mods	48 mods	120 mods	32 mods	75 mods	75 mods
120D1 120 W [701507-120D1]	120 W	2 x 48 mods	2 x 48 mods	2 x 120 mods	2 x 32 mods	2 x 75 mods	2 x 75 mods
Watts per module		1.12	1.12	0.46	1.68	0.72	0.72

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