

SloanLED Prism

Premium 12V LED channel letter lighting solution

Specifications

Dimensions L × W × H..... Whites, HO..... 70 mm × 19 mm × 11 mm
(2.75 in × 0.75 in × 0.44 in)
Colors..... 70 mm × 19 mm × 13 mm
(2.75 in × 0.75 in × 0.50 in)

LEDs per module..... 3

Operating temperature..... SloanLED Prism..... -40° C to +70° C
HO..... -40° C to +60° C

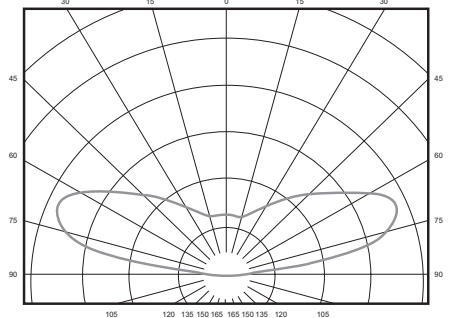
Protection class..... IP66 & IP68*

Binning..... MacAdam Step 3

Life rating..... SloanLED Prism,..... >60,000 hours
HO 24 VDC
HO 12 VDC..... >50,000 hours

Fastening..... Peel-n-stick and mechanical

Luminous
Intensity
Distribution



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
	4.9/m (1.5/ft)	7100 K	701269-7WSJ1-MB					48 modules (9.8 m / 32.0 ft)	9.8 m / 32.0 ft (48 modules) per tray
		6500 K	701269-6WSJ1-MB						
		5700 K	701269-57SJ1-MB						
		5000 K	701269-5WSJ1-MB						
		4000 K	701269-4WSJ1-MB			120	107 lm/W		
		3000 K	701269-3WSJ1-MB			115	103 lm/W		
HO 12 VDC	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
		5000 K	701269-5WHJ1-MB						

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		4.9/m (1.5/ft)	75 modules (15.2 m / 50 ft)					9.8 m / 32 ft (48 modules) per tray	
701269-ORSJ1-MB	Orange					606			
701269-YLSJ1-MB	Yellow					589			
701269-GRSJ1-MB	Green					527			
701269-BLSJ1-MB	Blue	471							

High Output, 24 VDC

Model	Modules per meter/foot	Color temperature	Part number	Optimal can depth	Power per module	Lumens per module (nominal)	Efficacy	Power capacity per SloanLED 100 W 24 VDC power supply	Packaging of 4 bags per carton
HO 24 VDC	2.6/m (0.8/ft)	6500 K	701269-6W24HJ1-MB	125-300 mm (5-12")	1.56 W	180	115 lm/W	58 modules (22.1 m / 72.5 ft)	22.9 m / 75 ft (60 modules) per bag
	4.9/m (1.5/ft)		701269-6W24HJ2-MB						



* 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.
† Configured for Class 2 Output.

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.



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Power Supply Capacity

12 VDC Power supply†	SloanLED Prism 6500 K	SloanLED Prism, 7100 K, 6500 K, 5700 K, 5000 K, 4000 K, 3000 K	SloanLED Prism HO 6500 K, 5000 K	Red, Orange, Yellow, Green, Blue	Red
Modules per meter/foot	3.3/1	4.9/1.5	2.6/0.8	4.9/1.5	6.6/2
25 W Power supply	20 mods	20 mods	13 mods	31 mods	31 mods
60 W Power supply	48 mods	48 mods	32 mods	75 mods	75 mods
120 W Power supply	2 × 48 mods	2 × 48 mods	2 × 32 mods	2 × 75 mods	2 × 75 mods
Watts per module	1.12	1.12	1.68	0.72	0.72

24 VDC Power supply†	SloanLED Prism HO 24 VDC, 2.6/m (0.8/ft)	SloanLED Prism HO 24 VDC, 4.9/m (1.5/ft)
Modules per meter/foot	2.6/0.8	4.9/1.5
100 W Power supply	22.1 m (72.5 ft)/58 mods	11.8 m (38.7 ft)/58 mods
40 W Power supply	8.8 m (28.8 ft)/23 mods	4.7 m (15.3 ft)/23 mods
Watts per module	1.56	1.56

Density Guidelines

Size	Module color	Can Depth	Modules per meter	Milimeters on center standard face	Milimeters on center dark vinyl	Milimeters on center perforated vinyl	Watts per module	Modules per M² standard face	Modules per M² dark vinyl
SloanLED Prism	White - 7100 K, 6500 K (4.9/m), 5700 K, 5000 K, 4000 K, 3000 K	75 mm	4.9	175	150	125	1.12	28.0	32.7
		100 mm		250	225	200		19.6	21.8
		125 mm		325	300	275		15.1	16.3
	White - 6500 K (3.3/m)	75 mm	4.9	175	150	125	1.12	28.0	32.7
		100 mm	3.3	250	225	200		13.2	14.7
		125 mm		325	300	275		10.2	11.0
	Red	75 mm	4.9	225	175	150	0.72	24.5	28.0
		100 mm		300	225	200		19.6	21.8
		125 mm		350	275	250		16.3	17.8
	Orange	75 mm	4.9	225	200	175	0.72	21.8	24.5
		100 mm		300	275	250		16.3	17.8
		125 mm		350	325	300		14.0	15.1
	Yellow	75 mm	4.9	200	175	150	0.72	24.5	28.0
		100 mm		300	275	250		16.3	17.8
		125 mm		350	325	300		14.0	15.1
	Green	75 mm	6.5	175	150	125	0.72	37.1	43.3
		100 mm	4.9	225	200	175		21.8	24.5
		125 mm		275	250	225		17.8	19.6
	Blue	75 mm	6.5	175	150	125	0.72	37.1	43.3
		100 mm	4.9	250	225	200		19.6	21.8
		125 mm		300	275	250		16.3	17.8
HO, 12 VDC & 24 VDC	White - 6500 K, 5000 K	175 mm	2.6	375	350	325	1.68	6.9	7.4

Notes:

- 1) It is recommended that you first test LED density in sample letter/cabinet to evaluate brightness, uniformity and color.
- 2) Should you have questions or require assistance in testing, please contact your SloanLED customer service representative.
- 3) For multiple rows, calculate half of the row spacing given from the table and start first row offset that distance from return.
- 4) Products can be used in can depths deeper or shallower than listed above, but testing is recommended.
- 5) Based on European face materials.
- 6) Maximum single row coverage is (Millimeters on center with standard face) × 1.25.

These guidelines are intended to provide only an approximation of SloanLED Prism 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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