

A shining example of brightness and efficiency.

Star by Permlight for Signs, is an evolutionary leap in efficiency and brightness. It's optimized for peak operating efficiency and delivers the brightest light output of any product in its category. This LED system delivers one of the highest values in terms of light output per Watt.

With Star you can expect easy installation and flexibility, especially in channel letter applications with tight returns. The result is a bright sign with uniform and even illumination.

Like all Permlight LED lighting systems, Star is the brightest, most efficient and best performing at the lowest overall cost of ownership. These new modules shine brighter, consume less energy and deliver the lowest cost per lumen. All of which equals lower operating expense, less maintenance and reduced total project costs.

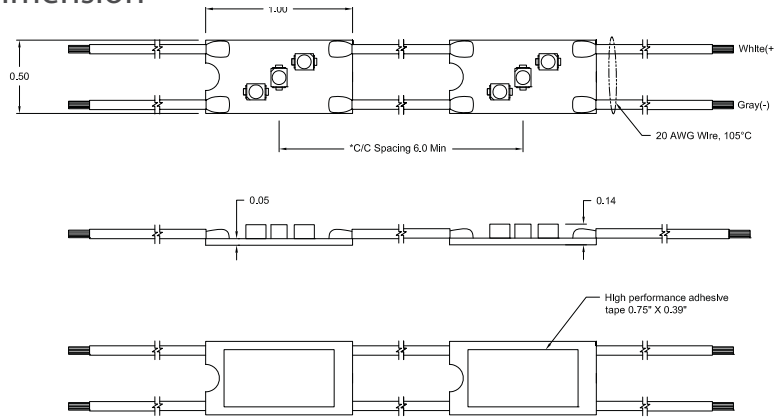
Star is available in a variety of colors along with SIX color temperatures of white, consuming a mere 0.5 Watts. This, plus Permlight's patented thermal management technology provides a far more environmentally friendly sign lighting system.

Star could make your sign business a shining example of brightness too.



led
modules

Mechanical Dimension



DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX = ± 0.01"
X.X = ± 0.1"

* Other C/C spacing is available upon request

Technical Specifications

Product Warranty.....	5 Year Limited (see Permlight for Signs website for details)
LED Module Dimension	1.00" (25.40mm) x 0.50" (12.70mm)
Power Consumption, Estimated Life	(see color specification matrix)
Content Per Package	50 modules per package
Operating Temperature @ 90% relative humidity	-40°C to +50°C
Maximum Input Voltage	12.3VDC
Recommended Modules per Foot	2
System Certifications: UL Recognized File	E213411
UL Classified File (retrofit applications)	E246705

Required Components

60-12D	60 Watt LED Driver (120-240 VAC Input - 12 VDC Output)
60-12D-A.....	60 Watt LED Driver (120 VAC Input - 12 VDC Output)
250-12DC.....	240 Watt LED Driver (120 VAC Input - 12 VDC Output)
250-12DC-240.....	240 Watt LED Driver (240 VAC Input - 12 VDC Output)
250-12DC-277	240 Watt LED Driver (277 VAC Input - 12 VDC Output)

Color Specification

Part Number	Color: Wavelength (nm)/ Temperature (K)	Est. Life @ 70% Light Output (hours)	Avg. Power per Module (Watts)	Max. Modules 60-12D ^[1] (units)	Max Modules 250-12DC ^[2] (units)
PFS1720W28	Warm White (2800K)	40,000	0.5	120	480 (120/channel)
PFS1720W35	Halogen White (3500K)	40,000	0.5	120	480 (120/channel)
PFS1720W41	Fluorescent White (4100K)	40,000	0.5	120	480 (120/channel)
PFS1720W51 ^[3]	Neutral White (5100K)	40,000	0.5	120	480 (120/channel)
PFS1720W65	Daylight (6500K)	40,000	0.5	120	480 (120/channel)
PFS1720W80	Ultra White (8000K)	40,000	0.5	120	480 (120/channel)
PFS1720B	Blue (470nm)	40,000	0.5	120	480 (120/channel)
PFS1720G ^[3]	Green (525nm)	40,000	0.5	120	480 (120/channel)

Notes: ^[1] 60-12D series is a single channel 60 Watt LED Driver, see Product Specification Sheet for more information. ^[2] 250-12DC series is a 4 channel 240 Watt LED Driver, with a rated output of 60Watts per channel. ^[3] Custom color. Please allow up to 8 weeks for delivery.