

### The Twister With Star Qualities

The **Twister STAR**™ is a step up over the original **Twister**™ in terms of brightness. The STAR is optimized for peak operating efficiency and engineered to deliver the highest light output over any product in its category. This LED system delivers one of the highest value in terms of light output per Watt. And since the STAR is based on the Twister platform, you can expect the same easy installation and added flexibility, especially in channel letters with tight returns. The result is a bright sign with a uniform and even illumination.

**PERMLIGHT**  
for signs

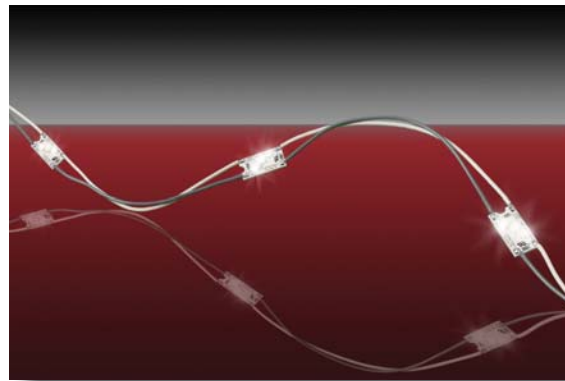
#### A Visible Star

The STAR was developed by **Permlight for Signs**™, in response to the sign industry's need for an LED based system solution for highly cost conscious applications. The system had to be flexible for a wider

range of applications and should deliver a higher light output and be more economical than systems currently available.

#### Star Of The Night

The STAR LED system is available in white and consumes a mere 0.5 Watts. The system ships pre-wired measuring 152.40mm on center between modules and come with a limited 5 year warranty.



#### Star Value

Designed from the ground up, using the original Twister for the base footprint, the STAR LED system provides the lowest cost in terms of brightness per Watt. Using Permlight's 240 watt LED driver you can run up 61 meters of lighting from one power supply. If you're working on a tight budget requiring a high-output LED based illumination, this Twister will certainly make you look like a star.

#### A Star for the Environment

The STAR's bright output and efficient energy consumption provides value to both users and the installers. Low power consumption means savings in operating cost while longer runs mean less power sources and faster installation time. Plus, integrated with

Permlight's patented thermal management technology, the STAR maintains a stable operating temperature while requiring less parts to manufacture.

This overall benefit results in the STAR having one of the lowest carbon footprint of any LED system. Now that's a true 5-Star system!



**Technical Specifications**

Power Consumption.....(see color specification matrix)

Maximum Input Voltage ..... 12.3VDC

Estimated Life .....(see color specification matrix)

Operating Temperature @ 90% relative humidity ..... -40°C to +50°C

LED Module Dimension..... 12.70mm x 25.40mm

Recommended Modules per Meter .....7

Content Per Package ..... 50 modules per package

System Certifications:

UL Recognized File ..... E213411

UL Classified File (retrofit applications)..... E246705

RoHS Compliant..... Yes

Product Warranty .....5 Year Limited (see Permlight for Signs website for details)

**Required Components**

30-12D-B-240.....30 Watt LED Driver(240VAC Input - 12VDC Output)

60-12D-B-240.....60 Watt LED Driver(240 VAC Input - 12VDC Output)

120-12DC-B-240 ..... 120 Watt LED Driver(240VAC Input - 12VDC Output)

240-12DC-B-240 ..... 240 Watt LED Driver(240 VAC Input - 12VDC Output)

**Color Specification**

Part Number	Color: Wavelength (nm)/ Temperature (K)	Est. Life @ 70% Light Output (hours)	Avg. Power per Module (Watts)	Max. Modules 30-12D-B-240 <sup>[1]</sup> (units)	Max Modules 60-12D-B-240 <sup>[1]</sup> (units)
PFS1720W65	Daylight (6500K)	40,000	0.5	60	120

Notes:

<sup>[1]</sup> The 30-12D-B-240 and 60-12D-B-240 are single output LED Drivers. The 120-12DC-B-240 (2-output) and 240-12DC-B-240 (4-output) LED Drivers have a limited output of 60Watts per channel, see product specification sheet for details.

**Mechanical Dimension**

