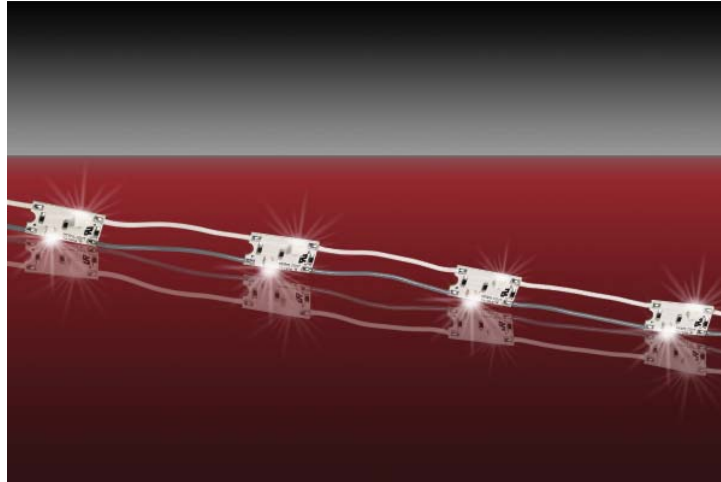


The Light You Have Been Praying For Is Here

Reverse-lit or “HALO” illuminated channel letters have typically been 5 inches deep. However with the new **HALO**TM, now you can have the same effect with a lower profile channel letter. **Permlight for Signs**TM developed the HALO LED system to achieve the same result while enabling the channel letter to be mounted



closer to the surface with its safe low voltage operating system.

The Glowing Benefit

The HALO LED system is engineered with Permlight’s patented thermal management technology, for optimum operating temperature, and uses

the **Twister**TM footprint for flexibility in a broader range of applications. What makes the HALO unique over any other system is the use of two side-fire LEDs, positioned in opposite directions, illuminating a channel letters’ internal cavity to project reflected light onto a surface. This innovative industry approach results in a wider light distribution onto an illuminated surface. Plus with the HALO modules low profile design, reverse-lit/halo-lit illumination can now be achieved with channel letters

with thin strokes and shallow returns.

The “Big Bang” Theory

Integrating the HALO in a channel letter application would not only require less material but can offer a unique overall design enabling a company’s brand identity to stand out. With the low installation cost built into every Permlight for Signs’ LED system, a sign fabricator can be assured to get the most “bang” for their buck.

A Heavenly Return

The reduced material count, due to Permlight’s patented thermal management technology, results in a lower overall system carbon footprint. And when coupled with the low power consumption, results in a positive impact to our environment making the HALO truly heaven sent.



PERMLIGHT
for signs

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..... 1.00" (25.40mm) x 0.50" (12.70mm)

Recommended Modules per Foot.....4

Content Per Package 50 modules per package

System Certifications:

UL Recognized File E213411

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

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

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)
PFS1540W80	Ultra White (8000K)	40,000	0.2	300	1200 (300/channel)
PFS1540B ^[3]	Blue (470nm)	40,000	0.2	300	1200 (300/channel)
PFS1540G ^[3]	Green (525nm)	40,000	0.2	300	1200 (300/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. See Product Specification Sheet for more information.
- ^[3] Custom Color - Please allow up to 8 weeks for delivery or contact a sales representative for more details.

Mechanical Dimension

