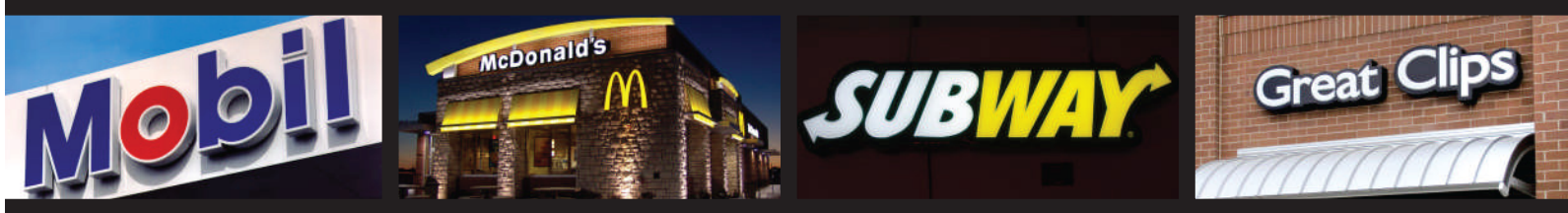


LED SIGN ILLUMINATION SYSTEM



PRODUCT DESCRIPTION



Everbrite has an extensive and well tested line of existing illumination engines and control electronics for channel letters. These energy efficient products develop a bright and uniform illumination constant with industry standards. The Everbrite Class 2 LED illumination and display products are registered with UL® and listed in the Sign Accessory Manual (SAM). Our file number is E325903.

PRODUCT FEATURES

BENEFITS

| | |
|---|--|
| Energy Efficient | Constant current control allows the LEDs to be driven at full light output while attaining maximum lifetime. This saves up to 50% in energy over resistor-limited systems. |
| Low Maintenance | No need to change our fluorescent bulbs. Our LED products are designed for outdoor environments. |
| Bright and Uniform | High brightness LEDs give the channel letter dynamic visibility. Wide viewing angle LEDs allow back-mounting for uniform light distribution |
| Industry Standard Lifetime <i>Estimated Life to 70% Light Output</i> | Green, Blue - 40,000 hours Red, Amber, White - 50,000 hours |
| Warranty | Limited Three Year - LED system only; Power Supplies carry the manufacturer's own warranty |



Everbrite
Discover the brilliance.™

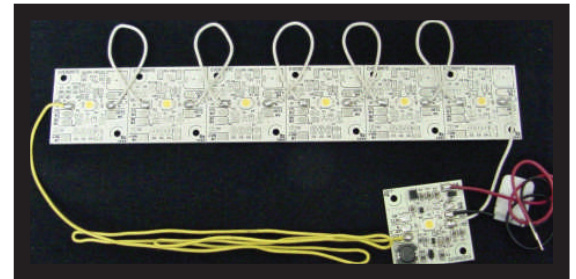
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LED SIGN ILLUMINATION SYSTEM (con't)

SPECIFICATIONS

| PARAMETER | VALUE |
|-------------------------------|--|
| Voltage (bulk power supply) | 48 VDC maximum regulated UL Class II |
| LED Current | 300 mA constant current (each string) |
| LED Brightness each (typical) | 80 lm (5000°K) — 70 lm/watt |
| Color Temperature | 3500°K to 7800°K by order |
| Ambient Operation | -40°C to +55° C |
| LED Emitter | Metal clad board 1" or 1.6" square |
| Constant Current Regulator | Metal clad board 1.6" with optional LED |
| | Circuit board 1"x2.5" without LED |
| Number of LEDs in a string | 1-7 Outdoor (30VDC NEC Limit) 1-12 Indoor (48VDC NEC Limit) |
| UL File / SAM Reference | E325903 |

Typical outdoor illumination system on 1.6" square metal clad boards.



Boards snap apart and stick in place with high strength VHB tape (optionally provided) or rivets.



APPLICATIONS

The illumination of a single LED is roughly a 6" diameter circular pattern, when the depth of the can is 5". The wide viewing angle (120°) results in uniform illumination all the way down the sidewall. This results in considerable mixing of the light with virtually no hot spots. LED emitters are available on 1.6" square metal clad boards for mounting outdoors on plastic backed letters, 1" square metal clad boards are available for metal channel letters or indoors. The LED power wiring can optionally be ordered in a chain configuration for routing in tight spots. Conformal coating is a recommended option available for outdoor applications.

