



LED Illuminated Street Name Signs Retro Fit Panels

Features

- Ideal for all standard Street Name Signs.
- Single or double face models.
- Utilizes standard ITE colors.
- Exceptional message visibility and clarity.
- Even illumination under any lighting conditions.
- Low power consumption.
- Easy access service door swings down and away.
- 0.040" two foot replaceable optical cavity sections for ease of retro fitting.
- No tools required inserting the two-foot sections.

1.0 General Description

1.1 LED illuminated panels for retro fitting a one way or two way sign. 1.2 Designed in two-foot sections as to easily fit 4', 6', or 8' street name signs.

2.0 Functional Description

2.1 All messages shall be clearly legible, attracting attention under any lighting condition. 2.2 The sign shall consist of: a. 0.040 angled two foot aluminum panel. b. Two circuit boards consisting of 84 led per board. c. Two circuit board per two-foot section. 2.3 All LED's will be T-1 $\frac{3}{4}$ (5 millimeters). 2.4 LED's will have an expected lifetime of 100,000 hours. 2.5 All LED's will be high in optical power emitting radiation on the order of 2.5 to 3.0 candelas when operated at 20 milliamps DC. 2.6 Transformers shall be used to reduce the incoming 120 volts AC to the design DC voltage. 2.7 The transformers shall contain Class A insulation and weatherproofing. 2.8 The sign shall be capable of continuous operation over a range in temperatures -35F to +165F (-37C to +75C). 2.9 The sign shall be made of easy replaceable optical cavities. Only simple tools will be need to exchange or retrofit these optical cavities with existing bulb technologies. The viewing area shall produce a luminance of 60 Nits and not vary in

luminance across the viewing area by more than a few percent (8%) per foot. No wiring within the optical cavity will be permitted. Anything other than the LED's within the optical cavity will cause degradation in optical performance and will not be accepted. 2.10 The sign shall have an input voltage of 120 VAC. The input voltage will then be reduced and power-conditioning circuitry will be provided so that the LED's current will operate at the manufacturer's recommended specifications. The sign shall include replaceable fuse at the electrical power wire entrance compartment.