

Product Evaluation

Product ID: 8281-1-5

Initiation Date: November 2005

Revision Date: December 4, 2008

RE: Review of LEOTEK LED Modules for Traffic and Pedestrian Signals

PRODUCT

Leotek electronics Corporation designs, manufacturers and markets diverse lines of LED application lighting products. The Leotek LED Modules are manufactured by Leotek Electronics Corporation located in Santa Clara, California and distributed by Electromega Limited located in Surrey, British Columbia.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Leotek offers several models of LED traffic signal lamps that incorporate a conventional incandescent look in multiple configurations.

DESCRIPTION

Light emitting diodes (LEDs) are compound semiconductor devices that convert electricity to light when biased in the forward direction. Leotek's standard wiring harness incorporates user friendly Molex plug which allows for the combo female spade to male termination.

POTENTIAL USAGE

Leotek offers LED traffic products for traffic control signals, LED street signs, LED marking systems and LED luminaries for street illumination. This product has been approved and used across Canada.

STANDARDS

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| CSA | Canadian Standards Association |
| NEMA | National Electrical Manufacturers Association |
| ITE | Institute of Transportation Engineers - 2005 |

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has limited experience with LED signal heads.

APPLICABLE STANDARDS

At present Alberta Transportation references the ITE specifications for LED signal heads.

RECOMMENDATIONS:

LEOTEK LED modules be listed as a Proven Product under Alberta Transportation Products List, Traffic Control Devices – Traffic signals – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

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