

## Product Evaluation

### RE: Review of Celesteon LED High Mast Luminaire

#### **PRODUCT**

The Celesteon LED High Mast Luminaire is a LED Roadway Luminaire manufactured and distributed in Alberta by Eaton (formerly known as Cooper Lighting) located in Mississauga, Ontario. Website: <http://www.cooperindustries.com>

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS**

The Celesteon LED High Mast Luminaire combines high output and efficiency with easy install and affordability. Greater than 90% lumen maintenance expected at 60,000 hours.

##### **DESCRIPTION**

It is constructed with heavy-duty, die-cast aluminum housing and door. Optional toolless entry with hinged removable door for additional easy maintenance are available. It is 3G vibration rated. Six high efficiency optics available in Type I, II, III, IV, V, Type V narrow and Type V round. Each distribution is designed to maximize efficiency and application spacing. Its offered standard is 4000K (+/- 275K) CCT and minimum 70 CRI. For the ultimate level of spill light control, an optional factory installed house side shield accessory is available. Its operating range is 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz. Standard 0-10V dimming with 10kV or 20kV surge protection is also available. Ambient operating temperature range is -40°C to 40°C.

##### **POTENTIAL USAGE**

Designed for new and retrofit high-lumen applications, the Celesteon LED high mast is ideal for highways, interchanges, ports, rail yards, container yards, parking lots, correctional facilities, security lighting, treatment plants and other facilities in need of high lumen packages with accurate optical control.

##### **STANDARDS**

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE**

Alberta Transportation has no experience with this product

##### **APPLICABLE STANDARDS**

Alberta Transportation Standard Specification 2.25 Street Lighting  
Alberta Transportation Highway Lighting Guide

##### **RECOMMENDATIONS**

Celesteon LED high mast luminaire be listed as a Potential Product under Alberta Transportation Products List, Electrical Equipment – Street Lighting Luminaires – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

##### **RESTRICTIONS ON USE**

Caveat: Street Lighting LED Luminaires must have Correlated Color Temperature (CCT) of 4000K +/- 300k only and LED Luminaires must ensure minimum average luminance level of 0.60 cd/m<sup>2</sup>.

#### **TRIAL PROJECTS**

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