

SECTION 760 – ROADWAY AND SIGN LIGHTING SYSTEMS MATERIALS

Make the following amendments to said Section:

(I) Amend **Subsection 760.03 (A)** from line 53 to 130 to read as follows:

(A) Luminaires for Roadway Lighting. Luminaires for roadway lighting shall be LED type as indicated herein and on the contract drawings.

(1) Housing

- (a) Die cast aluminum housing.
- (b) A modern design preserving the aesthetic look of traditional roadway Cobrahead fixtures and shall incorporate the heat sink directly into the unit ensuring maximum heat transfer and long LED life.
- (c) Shall meet 2G vibration per C136.31-2010.
- (d) Power door assembly with removable retention latch.

(2) LED & Optical Assembly

- (a) Structured LED array shall be provided for optimized roadway photometric distribution.
- (b) Evolve light engine consisting of scalable reflective technology designed to optimize application efficiency and minimize glare.
- (c) Shall utilize high brightness LEDs, 70 CRI at 4000K.
- (d) LM-79 tests and reports shall be performed in accordance with IESNA standards.

(3) Ratings

- (a) UL listed, suitable for wet locations per UL 1598.
- (b) IP65 rated optical enclosure per ANSI C136.25-2009.
- (c) Temperature rated at –40° to 50°C (–40° to 45°C for ERS4 347-480V fixtures).
- (d) Upward Light Output Ratio (ULOR) = 0.

- 48 (4) Lumen Maintenance
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50 (a) System rating is L85 at 50,000 hours.
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52 (5) Mounting
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54 (a) Slipfitter with +/- 5 degree of adjustment for leveling.
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56 (b) Integral die cast mounting pipe stop feature.
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58 (c) Wildlife intrusion protection at mounting pipe entry.
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60 (d) Adjustable for 1.25 in. or 2 in. mounting pipe.
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62 (6) Finish
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64 (a) Corrosion resistant polyester powder painted, minimum 2.0
65 mil. thickness.
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67 (b) Standard color: Gray.
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69 (7) Electrical
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71 (a) 480 volt.
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73 (b) System power factor is >90% and THD <20%.
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75 (c) Class "A" audible sound rating.
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77 (d) Integral surge protection: For 120-277VAC per IEEE/ANSI
78 C62.41.-1991, 6kV/3kA Location Category B3 (120 Events).
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80 (e) Optional high capability surge protection per IEEE/ANSI
81 C62.41.2-2002.
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83 1. Rating 1 - 10kV/5kA Location Category (120 events).
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85 2. Rating 2 - 6kV/3kA Location Category C-Low (5000
86 events).
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88 (f) EMI: Title 47 CFR Part 15 Class A.
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90 (g) Photo electric receptacle with shorting cap.
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(8) Warranty

(a) 5-year limited system warranty standard.

END OF SECTION 760