

Eagle Mountain Flag and Flagpole - StarGazer Flagpole Assembly / Ground Sleeve Electrical

Section 26 56 00

EXTERIOR FLAGPOLE LIGHTING

PART 1- GENERAL

1.1 SUMMARY

- A. This section specifies the furnishing, installation, and connection of flagpole luminaires and power supply. The terms "lighting fixtures", "fixtures" and "luminaires" are used interchangeably. StarGazer LED light/truck assembly and StarGazer remote power supply and accessories as required for complete finished installation.

1.2 REFERENCES

- A. Materials and equipment shall be in accordance with ANSI, NEMA, ETL or UL, International Darksky Association (IDA) and as shown on the drawings and specified.

1.3 SYSTEM DESCRIPTION

- A. LED light/truck and remote power supply assembly compatible with flagpole

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer detail specifications
- B. Shop Drawings: Indicate dimensions of LED light/truck and remote power supply assembly, 3 Year Warranty
- C. Samples: Submit LED light/truck finish or color

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store LED light/truck and remote power supply in original packaging until time of installation. Take care not damage finish on StarGazer dome. Follow instructions provided for proper installation

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. Eagle Mountain Flag and Flagpoles -StarGazer

2.2 MATERIALS

- B. LED light/truck assembly – StarGazer LED light/truck furnished as fully assembled unit, 3000 kelvin or as required by local ordinance. Full cutoff optics with International Darksky Association (IDA) certification. Product must have BUG rating B0-U0-G0. 24 Vdc input to light source, max distance of light source to StarGazer remote power supply is 150 feet.
- C. Pre-wire internal components to terminal strips at the factory.

- D. Provide manufacturers' standard finish, as scheduled on the drawings. Where indicated on the drawings, match finish process and color of pole or support materials.
- E. LED source shall meet the following requirements:
 - 1. Shall be certified, listed and warranted by the manufacturer for operating temperature rating between -40 degrees C (-40 degrees F) and 50 degrees C (122 degrees F)
 - 2. Correlated Color Temperature (CCT): as indicated on the LIGHTING FIXTURE SCHEDULE
 - 3. Color Rendering Index (CRI): ≥ 90
- F. StarGazer remote power supply **above ground NEMA3R (SG-AG-DRIVER) inground/direct burial (DDLIGDRIVER)** and meet the following requirements;
 - 1. LISTED TO UL STANDARD 2108
 - 2. MANDATORY SECONDARY PROTECTION, AS STATED IN THE NATIONAL ELECTRIC CODE ARTICLE 411, (1993, 1996, 1999, 2002, 2005 AND 2008)
 - 3. INPUT VOLTAGE RANGE FROM 120-277VAC, 24 VDC, 50/60Hz, 40 watts maximum
 - 4. NEMA 12 PVC NON-METALLIC BOX WITH BRASS SCREW INSERTS (For DDLIGDRIVER only)
 - 5. SHORT CIRCUIT / OVER VOLTAGE / OVER TEMPERATURE PROTECTION
 - 6. STANDARD WITH WATER TIGHT 3/4" FITTING FOR PRIMARY VOLTAGE (For DDLIGDRIVER only)
 - 7. STANDARD WITH 3 CUSTOM BRASS FITTINGS FOR LOW VOLTAGE CONNECTION (For DDLIGDRIVER only)
 - 8. MEETS OR EXCEEDS ALL UL, CUL, ANSI/UL, CSA REQUIREMENTS
 - 9. 3 Year Warranty
- G. Reference Section 10 75 00 for Flagpole specifications

PART 3- EXECUTION

3.1 PREPARATION and Installation

- A. Install in accordance to manufacturer supplied instructions, utilizing manufacturer provided fittings, connectors to insure water tight seal.
- B. Ground noncurrent-carrying parts of equipment including luminaries and power supplies, and metallic enclosures as specified in GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS. Where copper grounding a conductor is connected to a metal other than copper, provide specially treated or lined connectors suitable and listed for this purpose.
- C. Instruct Owner's representative in maintenance and operation.

END OF SECTION 26 56 00