

SECTION 265600-EXTERIOR LIGHTING**PART 1 GENERAL****1.1 SUMMARY**

- A. Section includes exterior luminaires, poles, and accessories.

1.2 REFERENCES AND QUALITY ASSURANCE

- A. ANSI C82.1 - Ballasts for Fluorescent Lamps-Specifications.
- B. ANSI C82.4 - Ballasts for High-Intensity-Discharge and Low Pressure Sodium Lamps (Multiple-Supply Type).
- C. ANSI O5.1 - Specifications and Dimensions for Wood Poles.
- D. NFPA 70
- E. UL 1570 fluorescent fixtures
- F. UL 1572 HID fixtures
- G. UL 1571 incandescent fixtures
- H. UL 1574 Track lighting
- I. UL 924 exit signs
- J. UL 924 emergency lighting

1.3 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Submittal procedures.
- B. Shop Drawings: Indicate dimensions and components for each luminaire not standard Product of manufacturer.
- C. Product Data: Submit dimensions, ratings, and performance data.
- D. Samples: Submit two color chips **3 x 3 inch** in size illustrating luminaire finish color where indicated in luminaire schedule.

1.4 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Section 016000 - Product Requirements: Product storage and handling requirements.

- B. Store and handle solid wood poles in accordance with ANSI O5.1.

1.6 COORDINATION

- A. Section 013300 – Submittals.
- B. Furnish bolt templates and pole mounting accessories to installer of pole foundations.

1.7 MAINTENANCE MATERIALS

- A. Refer to Division 1 requirements.
- B. Furnish two of each lamp installed.
- C. Furnish two gallons of touch-up paint for each different painted finish and color.
- D. Furnish two ballasts of each lamp type installed.

PART 2 PRODUCTS

2.1 LUMINARIES

- A. Product Description: Complete exterior luminaire assemblies, with features, options, and accessories as scheduled.
- B. Refer to Section 016000 - Product Requirements for product options.
- C. Manufacturers
 - 1. Cooper
 - 2. DayBrite
 - 3. Lithonia
 - 4. Holophane
 - 5. Gardco

2.2 LED DRIVERS

- A. Manufacturers:
 - 1. Cooper Industries Inc.
 - 2. General Electric Co.
 - 3. Sylvania.
 - 4. Advance.

2.3 METAL POLES

- A. Manufacturers:
 - 1. Cooper Industries.
 - 2. Day Brite.
 - 3. Holophone.
 - 4. Lithonia

- B. Material and Finish: Aluminum with silver anodized finish.
- C. Section Shape and Dimensions: Tapered round.
- D. Height: 25 feet or as scheduled.
- E. Base: Bolted.
- F. Accessories:
 - 1. Anchor bolts.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Refer to Division 1 requirements.
- B. Verify foundations are ready to receive fixtures.

3.2 INSTALLATION

- A. Install concrete bases for lighting poles at locations as indicated on Drawings, in accordance with Section 033000. Pole Bases shall be 24 inches high from grade.
- B. Install poles plumb. Install double nuts to adjust plumb. Grout around each base.
- C. Install lamps in each luminaire.
- D. Bond and ground luminaries, metal accessories and metal poles in accordance with Section 260526. Install supplementary grounding electrode at each pole.

3.3 FIELD QUALITY CONTROL

- A. Refer to Division 1 requirements.
- B. Operate each luminaire after installation and connection. Inspect for improper connections and operation.
- C. Measure illumination levels to verify conformance with performance requirements.
- D. Take measurements during night sky, without moon or with heavy overcast clouds effectively obscuring moon.

3.4 ADJUSTING

- A. Refer to Division 1 requirements.
- B. Aim and adjust luminaries to provide illumination levels and distribution.

3.5 CLEANING

- A. Clean photometric control surfaces as recommended by manufacturer.
- B. Clean finishes and touch up damage.

3.6 PROTECTION OF FINISHED WORK

- A. Refer to Division 1 requirements. Replace damaged poles and luminaries.
- B. Relamp luminaries having failed lamps at Substantial Completion.

3.7 SCHEDULES

- A. See Light Fixture Schedule.

END OF SECTION 265600