

**SECTION 26 51 00
INTERIOR LIGHTING**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Interior luminaries and accessories
- B. Exterior luminaries and accessories
- C. LED's/Drivers

1.2 REFERENCES

- A. NEMA ANSI C82.1 - For Lamp Ballast – Line Frequency Fluorescent Lamp Ballast
- B. ANSI C82.4 - Ballasts for High-Intensity-Discharge and Low Pressure Sodium Lamp (Multiple Supply Type)

1.3 SUBMITTALS

- A. Submit product data under provisions of Section 01 33 00.
- B. Include outline drawings, lamp and ballast data, support points, weights, and accessory information for each luminary type.
- C. Submit manufacturer's installation instructions under provisions of Section 01 33 00.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site under provisions of Section 01 60 00.
- B. Store and protect products under provision of Section 01 60 00.
- C. Handle metal poles carefully to prevent breakage and damage to finish.

PART 2 PRODUCTS

2.1 INTERIOR LUMINARIES AND ACCESSORIES

- A. Luminaries: Provide hinged frames with latches, and thick virgin acrylic lenses.
- B. Recessed Luminaries: Provide trim type and accessories required for installation in ceiling system installed.
- C. Exit Signs: Stencil face, 6" high red letters on white background, directional arrows as indicated, wall mounting type unless otherwise indicated, LED type with maximum wattage of 4 watts.
- D. Lighting Busway: Provide 20-ampere lighting bus way for surface or recessed mounting by a manufacturer of busway-mounted luminaries with matte white paint factory finish.
- E. Provide in-line fuses in all fixtures on emergency power.
- F. Provide 10-year manufacturer's warranty for all LED's.
- G. Provide 10-year manufacturer's warranty for all Drivers.
- H. Acoustical T-bar Support Clips:
 - 1. Surface mounted fixtures, use Caddy type IDS, or equal.
 - 2. Surface mounted track lighting, use Caddy type 4-G-8, or equal.
- I. All LED's and Drivers shall be listed by Electric Testing Laboratories.
- J. Protect exposed bare lamps with wire guards or a protective tubular shield.
- K. Provide all light fixtures in Gymnasiums and cafeteria with impact resistant Polycarbonate Lens and safety cable.

2.2 EXTERIOR LUMINARIES AND ACCESSORIES

- A. Enclosures: Complete with gaskets to form weatherproof assembly.

The School District of Palm Beach County

Project Name:

SDPBC Project No.:

2.3 ACCEPTABLE MANUFACTURERS

- A. Furnish products as specified on Drawings
- B. Substitutions: Under provisions of Section 01 60 00

2.4 LED's

- A. LED: 4000K, 80 CRI minimum.

PART 3 EXECUTION

3.1 INSTALLATION

- A. LED's/Drivers in housings if not assembled.
- B. Support surface-mounted luminaires directly from building structure.
 - 1. Fasten to T-bars using screws, or approved ceiling framing member clips.
- C. Install recessed luminaires to permit removal from the bottom.
 - 1. Use plaster frames or install grid clips.
- D. High Bay Luminaires: Use hangers rated 500 pounds minimum or provide safety chain between ballast and structure.
 - 1. Provide safety chain between reflector and ballast.
- E. Lay-in type recessed fixtures in suspended acoustical ceiling:
 - 1. Fasten to T-bars using screws, or approved ceiling framing member clips.
 - 2. Support T-bar at each end of fixture with #12-gauge support wire.
- F. Cut-in type recessed fixtures in suspended acoustical ceiling; secure fixture to T-bars.
 - 1. Support T-bars at each end of fixture with #12-gauge support wire.
- G. Install pipe or stem mounted continuous row fixtures to channel iron similar to Unistrut, mounted to permanent ceiling structure.
- H. Install lamp guards on fixtures with exposed lamps.
- I. Install the light fixtures in the stairs on the walls in the landing areas.
 - 1. Bottom of the fixtures shall be at no more than 10' above finished floor/landing.

3.2 ADJUSTING AND CLEANING

- A. Align luminaires and clean lenses and diffusers at completion of work.
 - 1. Clean paint splatters, dirt, and debris from installed luminaires.
- B. Touch up luminaires finish at completion of work.

END OF SECTION