**SECTION 26 51 00**

**INTERIOR LIGHTING**

**PART 1 GENERAL**

1. SECTION INCLUDES
	1. Interior luminaries and accessories
	2. Exterior luminaries and accessories
	3. LED’s/Drivers
2. REFERENCES
	1. NEMA ANSI C82.1 - For Lamp Ballast – Line Frequency Fluorescent Lamp Ballast
	2. ANSI C82.4 - Ballasts for High-Intensity-Discharge and Low Pressure Sodium Lamp (Multiple Supply Type)
3. SUBMITTALS
	1. Submit product data under provisions of Section 01 33 00.
	2. Include outline drawings, lamp and ballast data, support points, weights, and accessory information for each luminary type.
	3. Submit manufacturer's installation instructions under provisions of Section 01 33 00.
4. DELIVERY, STORAGE, AND HANDLING
	1. Deliver products to site under provisions of Section 01 60 00.
	2. Store and protect products under provision of Section 01 60 00.
	3. Handle metal poles carefully to prevent breakage and damage to finish.

**PART 2 PRODUCTS**

1. INTERIOR LUMINARIES AND ACCESSORIES
	1. Luminaries: Provide hinged frames with latches, and thick virgin acrylic lenses.
	2. Recessed Luminaries: Provide trim type and accessories required for installation in ceiling system installed.
	3. 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.
	4. 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.
	5. Provide in-line fuses in all fixtures on emergency power.
	6. Provide 10-year manufacturer's warranty for all LED’s.
	7. Provide 10-year manufacturer's warranty for all Drivers.
	8. 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.
	9. All LED’s and Drivers shall be listed by Electric Testing Laboratories.
	10. Protect exposed bare lamps with wire guards or a protective tubular shield.
	11. Provide all light fixtures in Gymnasiums and cafeteria with impact resistant Polycarbonate Lens and safety cable.
2. EXTERIOR LUMINARIES AND ACCESSORIES
	1. Enclosures: Complete with gaskets to form weatherproof assembly.
3. ACCEPTABLE MANUFACTURERS
	1. Furnish products as specified on Drawings
	2. Substitutions: Under provisions of Section 01 60 00
4. LED’s
	1. LED: 4000K, 80 CRI minimum.

**PART 3 EXECUTION**

1. INSTALLATION
	1. LED’s/Drivers in housings if not assembled.
	2. Support surface-mounted luminaries directly from building structure.
		1. Fasten to T-bars using screws, or approved ceiling framing member clips.
	3. Install recessed luminaries to permit removal from the bottom.
		1. Use plaster frames or install grid clips.
	4. High Bay Luminaries: Use hangers rated 500 pounds minimum or provide safety chain between ballast and structure.
		1. Provide safety chain between reflector and ballast.
	5. 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.
	6. 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.
	7. Install pipe or stem mounted continuous row fixtures to channel iron similar to Unistrut, mounted to permanent ceiling structure.
	8. Install lamp guards on fixtures with exposed lamps.
	9. 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.
2. ADJUSTING AND CLEANING
	1. Align luminaries and clean lenses and diffusers at completion of work.
		1. Clean paint splatters, dirt, and debris from installed luminaries.
	2. Touch up luminaries finish at completion of work.

END OF SECTION