

Part 1 General

1.1 RELATED SECTIONS

- .1 Division 01 – General Requirements.
- .2 Section 26 05 01 – Common Work Results – Electrical.

1.2 REFERENCES

- .1 American National Standards Institute/Institute of Electrical and Electronics Engineers (ANSI/IEEE):
 - .1 ANSI/IEEE C62.41-1991, IEEE Recommended Practice for Surge Voltages in Low-Voltage AC Power Circuits.
- .2 United States of America, Federal Communications Commission (FCC):
 - .1 FCC (CFR47) EM and RF Interference Suppression.
- .3 Illuminating Engineering Society of North America (IESNA):
 - .1 IESNA LM-79-19.

1.3 SUBMITTALS

- .1 Submit shop drawings for each of the following:
 - .1 Luminaires.
- .2 Luminaire shop drawings shall indicate: housing construction, driver type, LED chips, reflector type, and lens type and photo metrics.
- .3 LED chip shop drawings shall indicate: type, initial lumens, mean lumen, CCT and CRI.
- .4 Driver shop drawings shall indicate: driver type and input power.
- .5 Submit complete photometric data prepared by independent testing laboratory for luminaires where specified, for review by Consultant.

1.4 QUALITY ASSURANCE

- .1 LED Luminaires shall be provided with a five (5) year warranty covering LED's, drivers, parts and mechanical components.

Part 2 Products

2.1 TECHNICAL REQUIREMENTS FOR LED LUMINAIRES

- .1 Electrical:
 - .1 Power Factor: The Luminaire shall have a power factor of 0.90 or greater.
- .2 Photometric Requirements:
 - .1 All photometric data will be measured by the IESNA LM-79-19 standard.

- .2 Luminous Flux: The luminous flux shall not decrease by more than 30% over the expected operating life.
- .3 Light Color/Quality: The luminaire shall have a correlated color temperature (CCT) as indicated in symbol legend. The color rendition index (CRI) shall be 80 or greater. (See symbol legend).
- .3 Thermal Management:
 - .1 The thermal management of the heat generated by the LEDs shall be of sufficient capacity to assure proper operation of the Luminaire over the expected useful life.

2.2 LUMINAIRES

- .1 LED strip luminaire complete with lens, 3000 lumens, 120V, 80 CRI, 3500 K and a white finish.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

3.2 INSTALLATION

- .1 Locate and install luminaires as indicated.

3.3 WIRING

- .1 Connect luminaires to lighting circuits as indicated.

3.4 LUMINAIRE SUPPORTS

- .1 Provide all supports and brackets for mounting luminaries. Confirm mounting method for all luminaires with Engineer prior to rough-in.

3.5 LUMINAIRE ALIGNMENT

- .1 Align luminaries mounted in continuous rows to form straight uninterrupted line.
- .2 Align luminaries mounted individually parallel or perpendicular to building grid lines.

END OF SECTION