

Division 26 Electrical and Lighting Specification:
LUMENTENDER® Cloud-Based Control and Scheduling Platform

DIVISION 26 - ELECTRICAL AND LIGHTING

SECTION 26 09 23 – LIGHTING CONTROL AND SCHEDULING SYSTEM

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Cloud-based control and scheduling platform for lighting.
- B. Components necessary for the installation and operation of the system.
- C. Wiring, connections, and accessories.
- D. Visual image and video representation of lighting scenes and shows.
- E. Indefinitely recurring national, religious, and charitable events scheduling.
- F. Manual triggering of lighting scenes.
- G. Manual adjustment of groups of lighting fixtures to desired RGBX or intelligent white levels.
- H. Automatic resumption of scheduled events.
- I. End-user custom scene creation for payback and scheduling.
- J. In-application chat help.
- K. SMS notifications upon events.
- L. Auto-sporting event scheduler.
- M. Public scene voting campaign scheduler/module.

1.02 RELATED SECTIONS

- A. Division 26 Section "Electrical" for general electrical requirements.
- B. Division 16 Section "Basic Electrical Materials and Methods" for wiring requirements.

1.03 REFERENCES

- A. National Electrical Manufacturers Association (NEMA).

B. Institute of Electrical and Electronics Engineers (IEEE).

C. National Electrical Code (NEC).

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's product literature, including technical data sheets and installation instructions for all components.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: The Lumentender Cloud-Based Control and Scheduling Platform shall be provided by a manufacturer with a minimum of five years of experience in producing similar systems.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturer: Lumentender or approved equal.

2.02 SYSTEM COMPONENTS

A. Cloud-Based Control and Scheduling Interface:

1. Provide a web-based interface accessible from any internet-enabled device.
2. Interface shall allow for remote control, scheduling, and customization of lighting scenes.
3. Visual image and video representation capabilities for lighting scenes and shows.
4. Manual triggering and adjustment of lighting scenes and fixtures.
5. Automatic resumption of scheduled events.
6. End-user customization for scene creation and scheduling.
7. In-application chat help feature.
8. SMS notifications upon events.
9. Auto-sporting event scheduling feature.
10. Public scene voting campaign scheduler/module.

B. Lighting Control Modules:

1. Provide control modules compatible with the cloud-based interface.
2. Modules shall allow for dimming, switching, and color adjustment of lighting fixtures.
3. Each module shall have a unique address for identification within the system.

C. Sensors and Input Devices:

1. Provide occupancy sensors and daylight sensors as required for automatic control.
2. Sensors shall communicate wirelessly with the control interface.

D. Power Supplies and Wiring:

1. Provide necessary power supplies and wiring for the installation of the system.
2. Wiring shall conform to NEC standards and manufacturer recommendations.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that electrical wiring and connections are in place and ready for installation.

3.02 INSTALLATION

- A. Install the cloud-based control and scheduling interface according to manufacturer's instructions.
- B. Mount control modules and sensors in locations specified by the design documents.
- C. Connect wiring between control modules, sensors, and the control interface.
- D. Test the functionality of the system, including remote access, scheduling, and sensor inputs.

3.03 TRAINING

- A. Provide training to building staff on the operation and maintenance of the system.
- B. Include instruction on programming schedules, adjusting settings, creating custom scenes, and troubleshooting common issues.

3.04 DEMONSTRATION

- A. Demonstrate the functionality of the system to the owner or owner's representative.
- B. Address any questions or concerns regarding the operation of the system.

3.05 WARRANTY

- A. Provide a minimum one-year warranty covering all components and workmanship of the system.

END OF SECTION
