BRILLIANCE II
ELECTRONIC LIGHTING CONTROL SYSTEM

Part 1 GENERAL

1.10 Work Include provision, installation and testing of discrete lighting controls.

1.20 Related Work

A. Conduit.

B. Wire and cable.

C. Control wiring.

D. Any other related sections of the specification.

1.30 Submittals

A. Submittals shall be as specified.

B. Submit manufacturer's standard catalog data and specification sheets giving all construction and specification information on products.

C. Provide ganging information for installing wall box controls.

D. If submitting an alternative to the specified products, submit a letter detailing any deviations to the specification. The letter must reference the section number and paragraphs of the specification where the deviations occur.

1.40 Quality Assurance

A. The manufacturer shall provide a single source warranty for all equipment specified to be free from defects in material and workmanship for three years after installation.

B. The manufacturer shall have been producing lighting control equipment for at least five consecutive years.

C. All devices shall be 100 percent factory tested and energized at full load previous to shipment.

D. All components must bear the UL label and shall

follow the recommendations of the National Electrical Code.

PART 2 PRODUCTS

2.10 Acceptable Manufacturers

A. Lightolier Controls

B. The listing of a manufacturer as acceptable does not imply automatic approval. It is the sole responsibility of the electrical contractor to ensure compatibility of submitted products to other sections of the specification.

2.20 A. Brilliance Control Center - BCC

1. Housing shall be wall mounted and constructed of #16 GA CRS measuring 18" wide by 18" tall by 4 1/8" deep, with a matte black enamel finish.

2. A removable front panel shall provide access to all components and terminations from the front and serve as partition between low and high voltage sections of the BCC.

3. No field assembly shall be required except for the insertion of interface cards.

4. Power and control terminals shall be of the tubular compression type and be clearly labelled for identification. The System shall operate either at 120/208 VAC, 3 phase, four wires, 120/240 VAC, single phase, 3 wires or 120VAC, single phase, two wires.

5. BCC current draw shall not exceed 1 Amp. Operating temperature 0 to 40 degrees C.

6. The system shall be capable of self diagnostics.

7. It shall be possible to configure two distinct Master On / Master Off functions by easily selecting DIP switches without use of special tools.

8. Each BCC shall be provided with six wallbox device control cards and be capable of receiving six additional wallbox or system control cards for total

control of twelve devices.

9. Additional BCC's can be wired together to expand system capabilities.

10. The total number of Control Station LEDs shall not exceed 80.

11. The BCC shall be capable of interfacing with remote signaling devices such as security systems, building management systems, etc., provided an isolated momentary closure can be supplied by the signaling system.

B. Brilliance Wallbox Control Card - BWBX

1. Brilliance Control Card solely intended to control Lightolier Controls wallbox devices.

2. The BWBX shall produce the signals to activate and deactivate local controls.

3. It shall plug in to the BCC and have configuration switches and LED status indicator.

C. Brilliance Dimming System Control Card - BSYS

1. Brilliance Control Card solely intended to control Lightolier Controls Dimming Systems.

2. The BSYS shall produce the signals to activate one selected scene and the OFF scene of a dimming system.

3. It shall plug in to the BCC and it shall contain an LED status indicator.

D. Brilliance Control Stations

1. Each designer style Brilliance Control Stations shall contain a set of illuminated buttons for On / Off control of single or multiple devices connected to the Brilliance Control Center.

2. Stations shall mount in a single gang wallbox or in a multi-gang box with other Brilliance Control Stations.

3. All wiring shall be low voltage and shall be wired and grounded in accordance with

National Electric Code and other local regulations.

4. All Control Stations shall be field labeled with room identification labels provided by manufacturer.

5. Activated buttons shall have illuminated On / Off status indication.

6. There shall be no moving or protruding parts available to user once Control Station is installed.

B. Compli Faceplates

1. Faceplates shall have no visible screws and shall fit over all designer style control openings.

2. Faceplates shall be compatible with Brilliance, Onset, Insight, Easyset and Sunrise dimmers and switches as well as other designer style wiring devices such as switches, receptacles, jacks and Compli Lytemode or Compli Scenist controls supplied on this project.

3. Faceplates shall be capable of covering dimmers, switches and other devices ganged with preset control stations.

4. Faceplates shall "snap-on" securely to back plate.

5. Back plate shall have "self-aligning" tabs that center all devices automatically upon installation.

6. Faceplates shall be made of durable impact-resistant plastic material.

7. Faceplates shall be available in one, two, three, four or five gang configurations.

8. Faceplates shall be available in the following colors: White, Ivory, Black, Brown, Grey and Almond.

PART 3 EXECUTION

3.10 Installation

1. All controls shall be installed per the manufacturer's instructions and specifications. Devices shall be adjusted per owner/specifier requirements.

END OF SECTION