

**NOTE TO SPECIFYING ARCHITECT REGARDING
SECTION 11087-48R24D
PERFORMANCE STAGE LIGHTING SYSTEM
24 DIMMERS (48 MAX), DISTRIBUTION, AND THEATER FIXTURES**

This specification is for a modest budget and is appropriate for middle school applications.

Dimmers are plug-in type.

Initially, 24 dimmers are purchased (12 2-dimmer modules) but the dimmer-rack is pre-wired to accommodate 12 more modules for a maximum of 48 dimmers.

This specification is a complete system: dimmers, control console, distribution equipment, and theater lighting fixtures.

SECTION 11087-48R24D
STAGE LIGHTING
24 DIMMERS (48 MAX), DISTRIBUTION, AND THEATER FIXTURES

PART 1—GENERAL

- 1.01 Stage lighting system shall be that of ETC (Janson Industries, 800-548-8982; FAX 330-455-5919) and shall be mechanically installed with wiring, conduit and connectors by others. Provide the complete system. Major components are itemized below.
- 1.02 All equipment, where applicable standards have been established, shall be built to the standards of Underwriters Laboratories, Inc, The National Electric Code, and the United States Institute of Theatre Technology. Approved equipment shall be so labeled on delivery to the job site.

PART 2—MATERAILS

2.01 LIGHTING CONTROL SYSTEM

A. Dimmer Rack Model Sensor to contain:

- 1 SR 24 dimmer enclosure for 24 modules designed for 3 phase, 4 wire and ground operation at a maximum of 400A, 120/208V, 60 HZ AC.
- 12 D20 dual dimmer modules (24 dimmers)
- 12 AFM Air Flow modules or constant breaker modules
- 1 CEM 48 Electronic modules
- 1 Locking door with filter

This dimming system is designed for 1 feed at a maximum of 400A, 3-phase.

B. Express 24/48 control console

- 24 Channel 2 scene operation
- 48 Channel 1 scene operation
- 96 Maximum channel count
- 300 Cues
- 12 Submasters
- 1 Timed manual fader pairs
- 1 3½-inch diskette drive
- 1 Single VGA output

C. Accessories

- 1 CD 25 DMX digital control table
- 1 CD 25 ETC link control cable
- 2 ECPB DMX/Link console plug-in stations
- 1 Control console dust cover
- 1 VGA monitor

2.02 DISTRIBUTION EQUIPMENT

A. Pigtail and Outlet Boxes

- 4 9104B Surface mounted outlet box with 4-20A PIN connectors
- 12 9302B U-Surface mounted box with 48" pigtails and 2-20A PIN connectors

2.03 THEATRE FIXTURES AND ACCESSORIES

A. Focusing Units

- 18 ETC 450-B Source Four Ellipsoidal spotlights complete with "C" clamp, color frame, safety cable, ! M lead with 20A PIN connector and HPL575/115 lamp

- 12 ETC Source Four APR with all accessories described above appropriate for the PAR fixtures
- 4 Source Four Ellipsoidal JR's with all accessories described above for the Source Four Ellipsoidal spotlights.

2.04 MANUFACTURER'S SERVICES

A. Submittal, Warranty, and Training

- 4 Sets of B size drawings for approval submitted within 6 weeks of order
- 1 Final turn-on by factory trained and factory authorized technician
- 1 Training session for owner's personnel scheduled to comply with owner's requirements
- 1 2-year limited warranty
- 2 Sets of Operation Manuals

PART 3—EXECUTION

3.01 Furnish all of the above equipment complete with all lamps, color frames, plastic color mediums, cords, plugs, cradles, pipe clamps, and all other equipment necessary for a complete installation ready for use. All equipment shall be furnished and installed completely, and shall be left ready for use. All equipment furnished and installed shall be consistent with requirements of the National Electric Code.

END OF SECTION

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