

## EC-2 ARCHITECTURAL SPECIFICATIONS

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The lighting fixture shall possess the following features: completely sealed, fully weatherized IP66 high precision aluminum pressure die-cast housing, a high reflectivity multielliptical reflector, and shall be convection cooled for quiet operation via an integrated heatsink/reflector combination. Further, the manufacturer shall provide a choice of lenses in the following beam angles: narrow (18-25 degrees), medium (22-29 degrees) and wide (28-35 degrees).

The lighting fixture's operational capabilities shall include high-resolution DMX 512 Control, TalkBack™ protocol support to allow bi-directional communication between the lighting fixture on a DMX link and a controller with TalkBack™ protocol capabilities, precision stepper motors to control dim flags and color wheels, time code synchronization in stand-alone mode via Master/ Slave links (synchronized preset playback) to any combination of lighting fixtures supporting this feature, variable-speed strobe, full dimming and fade-to-black. The lighting fixture shall have smooth dichroic CMY subtractive color mixing system, on-board preset programming, remote operation via DMX-512 remote fixture power up and shut down, power factor correction and LED status indicators on board.

The lighting fixture shall be equipped with a yoke assembly to facilitate mounting to a wall, ceiling pole or on the ground by bolting the yoke to the foundation. The lighting fixture shall support selectable operating voltages from 100-277 at 50/60 Hz. with a rated power of 375 W. The lighting fixture shall use two fuses with the following characteristics: one (1) 6.3A, 250V, Slow Blow only (5 mm x 20 mm) and one (1) 3.5A, 250V, Slow Blow only (5 mm x 20 mm).

The lighting fixture shall utilize a MSD 250/2, 250 watt, metal halide lamp, GY 9.5 with a light output of 7000 ANSI lumens, a lamp life of 2000 hours, and have the following environmental tolerances: color temperature 6500 K, minimum distance to flammable objects of 1.0m (3.28ft), minimum distance to lighted object of 1.0m (3.28ft), maximum ambient temperature, (Ta): 40°C (104°F) and a maximum exterior surface temperature of 212°C (176°F). The lighting fixture will have dimensions of Height: 20.27 in. (514.9 mm), Width: 10 in. (254 mm): Depth 16.72 in. (424.7 mm) and Weight: 46 lbs. (20.9 kg) and have an Effective Projected Area (EPA) of 1.75sq. ft. (.163 sq. m.). The lighting fixture shall require the use of Belden® 1419A or equivalent (meets specifications for EIA RS-485 applications) data cabling with the following characteristics: 2 twisted pairs (4 conductors) plus a shield, maximum capacitance between paired conductors—30 pF/ft., maximum capacitance between conductor and shield—55 pF/ft., maximum resistance of 20W/1000 ft., and a nominal impedance of 120 ohms. The lighting fixture shall be compatible with standard DMX data connectors hardwired into a pluggable terminal strip or optional: 5-pin male and female XLR connectors and utilize a 120W resistor for DMX 512 termination.

The lighting fixture first manufactured in 2000 must conform to the following EEC directives and standards for Safety and EMC: 73/23/EEC, as amended by 93/68/EEC, 89/336/EEC, as amended by 92/31/EEC and 93/68/EEC, EN 60598-1: 1997, EN 60598-2-17: 1989, A1-A3: 1993, EN 55022, 1987 Class A ITE, EN61000-4-2: 1995 Level 2/3 (2/3kV), EN61000-4-3: 1995 Level 2 (3V/m), ENV50204: 1996: Level 2 (3V/m), EN61000-4-4: 1995 Level 2 (1/.5kV), EN61000-4-5: 1995 Level 3 (2/1kV), EN61000-4-6: 1996 Level 2 (3Vrms), EN61000-4-11:1994, and IEC 1000-3-2/EN 61000-3-2.

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