

Descriptive specification

General

The luminaire shall be an automated 150-watt color-changing luminaire for illuminating fiber optic cables in permanent installations. It shall employ a 150-watt discharge lamp as the light source.

Mechanical effects

The luminaire shall provide subtractive CMY color mixing using gradated, dichroic glass cyan, magenta, and yellow color filters. The intensity of the light shall be continuously adjustable by means of a mechanical dimmer that dims from 0 to 100% without loss of color temperature.

Control

The luminaire shall respond to the USITT DMX512 protocol and shall use 7 control channels. The color mixing and dimming fade speed shall be controlled, at the operator's option, via the cross-fade function of the control desk or a programmable speed value.

The luminaire shall be capable of stand-alone operation in which it executes defined or random color changes at programmable intervals and speeds. It shall provide a built-in 24-hour real-time clock and an ambient light-level sensor for control of operation start and stop times and/or light levels.

Housing

The luminaire shall have a plastic (Acrylonitrile Butadiene Styrene) housing with an antrazit-gray (RAL 7016) finish. The housing shall be cooled with the aid of a filtered forced-air cooling system. It shall be weather resistant, ingress protection class IP 44.

Installation

The luminaire shall operate in any orientation when installed indoors, or horizontally in outdoor installations. The luminaire shall provide 5 13 mm (1/2 in.) holes for mounting hardware.

Electrical

The luminaire shall provide settings for operation on 50 and 60 Hz supplies at 100, 120, 210, 230 and 250 volts. It shall be fitted with a 1.8 meter length of electrical cable for connection to AC power. The luminaire shall be electrically grounded. The luminaire shall conform to CE safety standards EN 60598-1 and EN 60598-2-17, and to CE electromagnetic compatibility standards EN 50 081-1 and EN 50 082-1. The luminaire shall be cETL certified for compliance with CSA standard C22.2 No. 166, and ETL certified for compliance with ANSI/UL standard 1573. (Certification pending.)

Environmental

The luminaire shall operate in ventilated areas at temperatures not to exceed 40° C (104° F).

Physical

Size (LxWxH): 398 x 195 x 192 mm (15.7 x 7.7 x 7.6 in) Weight: 8 kg (17.6 lbs.)