

Descriptive specification

General

The luminaire shall be an automated color-changing washlight designed for fixed exterior installation. It shall employ a 150 watt discharge lamp as the light source.

Mechanical effects

The luminaire shall provide subtractive CMY color mixing using graduated, 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.

Performance

The luminaire shall be capable of emitting a total luminous flux of 4,515 lumens in a beam 61° wide, where the outside edge of the beam is defined as the circle having one-tenth the intensity of the beam's midpoint.

Housing

The luminaire shall have an extruded and anodized aluminum housing and an anti-reflection coated front glass of 6 mm thickness. The housing shall be convection cooled, with the power supply and electronics section heat separated from the lamp and mechanics section. It shall be weather resistant, ingress protection class IP 65.

Installation

The luminaire shall operate in any orientation. It shall be supplied with a non-detachable mounting bracket that allows the luminaire manually to be tilted from +/- 140° in the vertical plane and swiveled +/- 45° in the horizontal plane. The mounting bracket shall be of 8 mm anodized aluminum, and shall provide 3 holes for 12 mm (1/2 in.) mounting hardware, spaced 100mm on center, and 2 quarter-circle slots with a center radius of 26.5 mm for 8 mm (5/16 in.) mounting hardware.

Electrical

The luminaire shall provide settings for operation on 50 and 60 Hz supplies at 195, 210, 225, 245, and 277 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

The luminaire shall have a size which including base is (LxWxH) 301 x 310 x 402 mm (11.5 x 12.2 x 15.8 in)

The luminaire shall have a weight of 15 kg (33 lbs.)