

Descriptive specification

General

The system shall consist of a luminaire and a separate device that provides power and intelligent control functions. The luminaire shall be an automated color-changing washlight designed for interior installation. 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 system shall respond to the USITT DMX512 protocol and shall use 7 control channels. 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 for control of operation start and stop times.

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 aluminum housing. The associated controlling and power supply device shall have a steel housing.

Installation

The luminaire shall operate in any orientation.

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 meter length of electrical cable for connection to AC power. The luminaire shall be electrically grounded.

Environmental

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