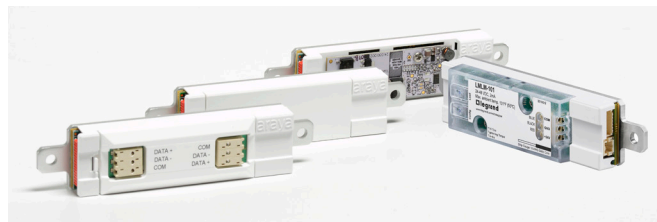


1 DESCRIPTION & KEY FEATURES

2016 IES PROGRESS REPORT SELECTION • 2016 LFI INNOVATION AWARDS CATEGORY WINNER • 2016 LUX AWARDS HIGHLY COMMENDED • 2016 EDISON REPORT TOP TEN MUST SEE LIST



araya⁵ Tunable Color Linear LED Arrays



araya⁵ Logic Modules

Description

araya⁵ Logic Modules (ALM) connect to tunable color mid-power linear LED arrays that mix five colors of LEDs to deliver tunable and dimmable white light at 90+ CRI* with color consistency of <2 step MacAdam ellipse (SDCM) across a tuning range of 1650 - 8000K. The ALM is connected to one or more LED arrays via low-cost ribbon cables, and features on-board driver electronics and the araya⁵ control logic for precise control of LED light output while tuning and dimming. On board closed loop thermal feedback compensates each color channel for thermally induced variations in light output due to dimming or changes in ambient temperatures. On-board closed loop optical feedback measures the lumen depreciation of each channel and re-balances the color model to ensure color consistency over the 50,000 hour life of the LED array. A patented in-line manufacturing process captures and stores the spectral characteristics of each LED on the array, rapidly generating a unique color model for each array. Delivered light can be dimmed from 100 - 1% in increments of 1% at constant CCT. Gradients of saturated colors from 1 - 100% can be added to color points within the tuning range. The Zhaga-compliant LED arrays are compatible with traditional 0 - 10V wired controls, and feature on-board Bluetooth Low Energy (BLE) and Bluetooth Mesh**. The arrays can access DMX512-A-RDM, Legrand Wattstopper's Digital Light Management (DLM) control interface, DALI Type 8 or Lutron[®] EcoSystem inputs via an optional accessory board that connects to an electrically isolated expansion port within the ALM. For simple deployment, SceneSet™ allows up to five scenes to be pre-programmed into the LED array during production and recalled at the venue using a 0 - 10V recommended dimmer or via Bluetooth. Commissioning of the LED array and the re-programming of SceneSet is done via the wireless araya⁵ Tunable Color 2.0 iOS app that connects to the embedded Bluetooth radio.

Key Features

- Tunable range: 1650 - 8000K
- 90+ CRI*
- Dimmable from 100 - 1% at constant CCT
- Color gamut control: gradients of saturated colors from 1 - 100% can be added to color points
- Integrated driver electronics and araya⁵ logic
- On board thermal and optical feedback for color consistency of <2 step MacAdam ellipse over 50,000 hour life
- In-line spectral capture and storage creates a unique color model for each Zhaga-compliant LED array, resulting in consistent CRI and CCT across all arrays
- On-board thermal turndown
- Compatible with 0 - 10V wired controls
- On-board Bluetooth Low Energy (BLE) and Bluetooth Mesh**
- DMX512-A-RDM, Wattstopper DLM, DALI Type 8 or Lutron EcoSystem control accessibility via optional accessory board that connects to an electrically isolated compartment within the ALM
- Copy and Paste for exact fixture to fixture matching
- SceneSet enables up to five scenes to be preprogrammed and recalled using a 0 - 10V recommended dimmer or via Bluetooth
- DMX slots set by RDM or via wireless araya⁵ Tunable Color 2.0 iOS app



araya⁵ Tunable Color
2.0 iOS App