

LTM2 FAMILIES LINEAR LED COLOR TUNING LIGHT ENGINES



Spectral Quality of Daylight
90+ CRI



Broad Tuning Range
1650–8000 K



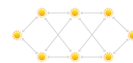
Color Access
Pastels to Saturates



Halogen Dimming
3050 K (100%) – 1800 K (1%)



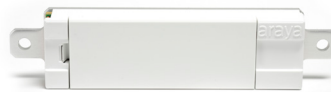
LED Dimming
100% – 0.1%*



Color Consistency
Less than 2 SDCM



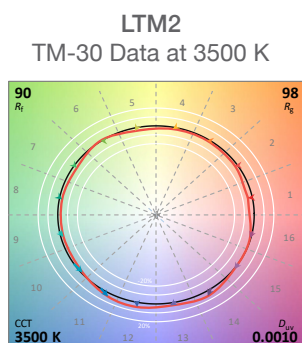
Tunable Color Linear LED Light Engines



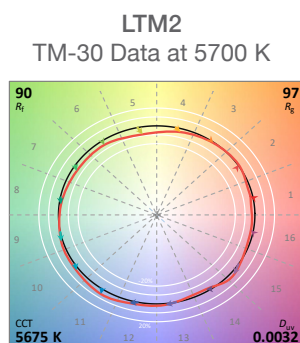
Araya Logic Module

Araya[®] Logic Modules (ALM) connect to mid-power linear LED light engines (LTM2) that mix five colors of LEDs across a tunable color range of 1650–8000 K. The light can be dimmed from 100–0.1%*. LTM2 can deliver up to 1000 lm/ft of light at 90+ CRI. The ALM features on-board driver electronics and control logic for precise control of current and PWM while tuning and dimming. . When the optional Warm/Dynamic Dimming profile is chosen—which can be set back to Color Tuning in the field if desired, but only if connected to DMX-RDM—the light dims from 3050 K at full intensity to 1800 K at 5% intensity, and then maintains 1800 K to 1%. ALM rapidly generates a unique color model on the spot based on the spectral characteristics stored on the connected light engine, providing precision tuning of the light engine’s full spectrum color output. This enables the replacement of ALM as needed, and provides the ability to mix and match the various types of ALM with the various lengths of LTM2 kits. Another key innovation is the ability of ALM to receive firmware upgrades over wired RDM/DMX to ensure field compatibility with previously deployed control systems. Fixture control integration is achieved by packaging Bluetooth LE (for commissioning only) and 0–10 V on-board the ALM. DMX512-A-RDM protocol compatibility can be achieved via a control card that connects to an expansion port within the ALM.

TYPICAL TM-30 DATA



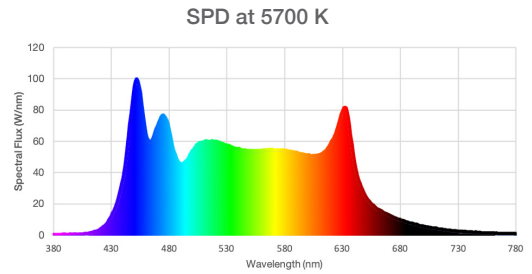
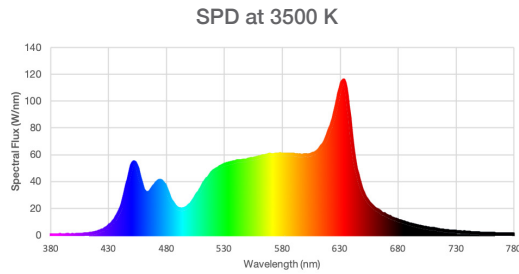
$R_f = 90$
 $R_g = 98$
 $D_{uv} = 0.0010$



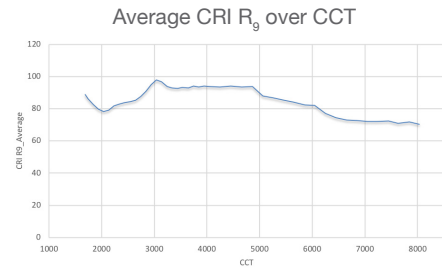
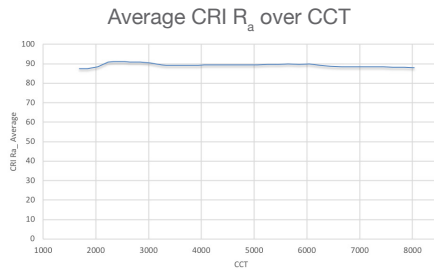
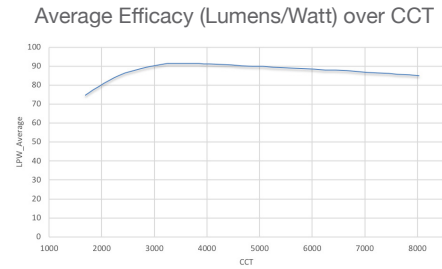
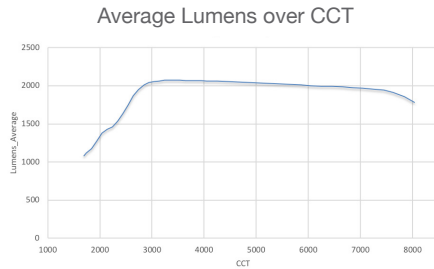
$R_f = 90$
 $R_g = 97$
 $D_{uv} = 0.0032$

THE LTM2 DATA TELLS THE STORY

TYPICAL SPECTRAL POWER DISTRIBUTION (SPD) CURVES



TYPICAL PERFORMANCE GRAPHS



For additional color and performance data, please refer to erp-power.com. Specifications may be subject to change without notice.

COMMISSION AND CONTROL EFFORTLESSLY

CONTROL SYSTEM / PROTOCOL	LTM2 (TUNABLE WHITE & TUNABLE COLOR CONTROL)			
	1 DIM*	2 CCT	3 SAT	4 HUE
DMX512-A-RDM ^{1,2}	0.1%	1650–8000 K	Yes	Yes
0–10 V	~1% ³	1650–8000 K	See Note ⁴	See Note ⁴

1. Requires control card connected to ALM.

2. Refer to the separate Araya DMX Lookup Tables for specific programming values and information.

3. 1–10 V signal dims light engine to approximately 1%. In-line power relay required to achieve 0% output.

4. Two 0–10 V lines can be used to control DIM and CCT independently, or program Scenes—in any combination of DIM, CCT, HUE and SAT—and recall them with five 0–10 V presets.

* 100–0.1% dimming is available when connected to 0.1% dimming-capable digital controls. 100–1% dimming is available with analog 0–10 V control.