

CTM1C-E ('ENTERTAINMENT' FAMILY) ROUND LED COLOR TUNING LIGHT ENGINES



Spectral Quality of Daylight
90+ CRI



Saturated Green
Expanded Gamut



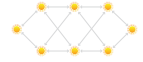
Broad Tuning Range
1700–8000 K



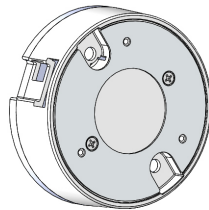
Color Access
Pastels to Saturates



LED Dimming
100% – 1%



Color Consistency
Less than 2 SDCM



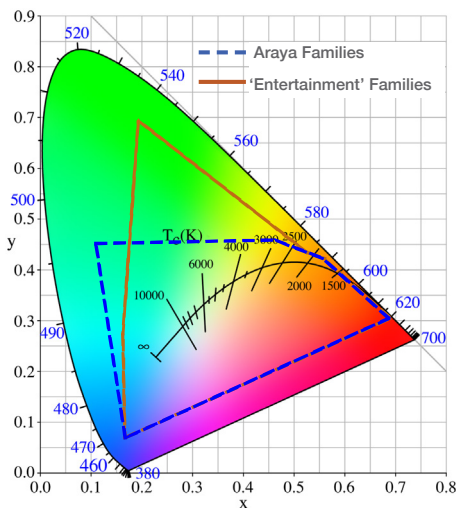
CTM1C-E

The 'Entertainment' family of araya Color Tuning Modules (CTM1C-E) delivers tunable white light across a CCT range of 1700–8000 K and dimming from 100–1%, while maintaining constant CCT, 90+ CRI and 70+ R9. With an expanded color gamut and on-board thermal feedback for color consistency, the CTM1C-E family provides exemplary performance for applications requiring high quality in color.

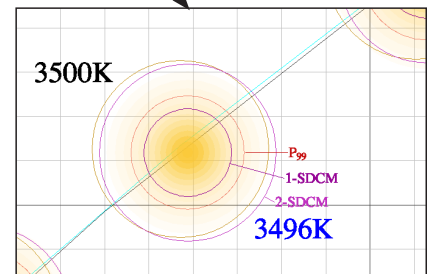
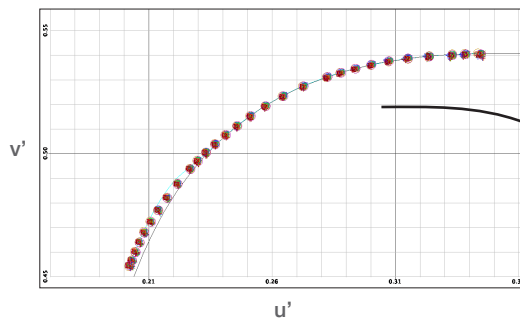
Notable features of CTM1C-E are on-board DMX512-A-RDM, over-the-wire FW upgrade-ability (FWU), and preloaded RGBW personalities. Choose from any one of fifteen (15) personalities, which include the original Araya Color Tuning (HSI), Warm/Dynamic Dimming, and several RGBW control options.

COLOR SPACE AND SATURATION/HUE

CIE 1931 COLOR SPACE



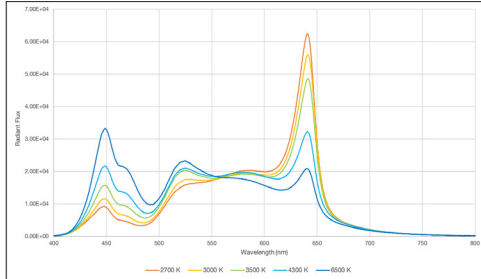
CIE 1976 u'v' UCS



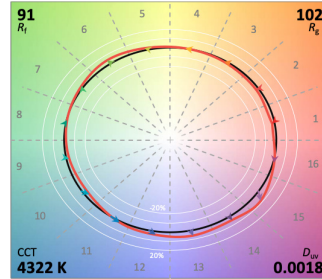
THE 'ENTERTAINMENT' DATA TELLS THE STORY

SPECTRAL POWER DISTRIBUTION (SPD) AND TM-30 DATA

CTM1C-E
SPDs at Various CCTs



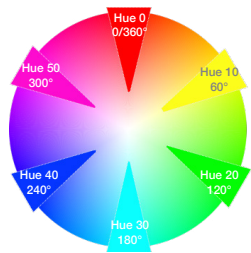
CTM1C-E
TM-30 Data at 4300 K



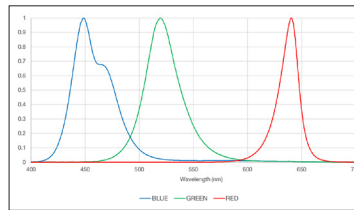
$R_f = 91$
 $R_g = 102$
 $D_{uv} = 0.0018$

RGB DATA

RGB COLOR WHEEL & CORRESPONDING HUE DEGREES



SPD AND DOMINANT WAVELENGTHS OF EACH RGB CHANNEL



	L_dominant (nm)	Excitation Purity (%)*
RED	626.8	99.6
GRN	525.1	76
BLU	463.4	93.2

*Achromatic Stimulus Point (0.3333, 0.3333) was used as reference.

COMMISSION AND CONTROL EFFORTLESSLY WITH DMX512-A-RDM

RDM PERSONALITIES		DMX ADDRESS (FACTORY DEFAULT START ADDRESS = 1)							
Suffix*	Description	1	2	3	4	5	6	7	8
8-BIT MODE	Default (None)	DIM 0-100%	CCT 1700-8000 K	SAT 0-100	HUE 0-60	-	-	-	-
	P03	RGBK			CCT 1700-8000 K	-	-	-	-
	P06	RGBW-2700			2700 K (0-100%)	-	-	-	-
	P08	RGBW-4300	RED 0-100%	GREEN 0-100%	BLUE 0-100%	4300 K (0-100%)	-	-	-
	P11	RGBW-6500			6500 K (0-100%)	-	-	-	-
	P13	RGBW-3500			3500 K (0-100%)	-	-	-	-
P15	RGBW-3000			3000 K (0-100%)	-	-	-	-	
16-BIT MODE	P02	Warm Dim "DDM"	DIM 0-100%	fdim	-	-	-	-	-
	P05	Color Tuning 4CH (HSI)	DIM 0-100%	fdim	CCT 1700-8000 K	fcct	SAT 0-100	fsat	HUE 0-60 fhue
	P10	Color Tuning 4CH (HSI)	DIM (Square Dimming) 0-100%	fdim	CCT 1700-8000 K	fcct	SAT 0-100	fsat	HUE 0-60 fhue
	P04	RGBK							CCT 1700-8000 K fcct
	P07	RGBW-2700							2700 K (0-100%) f2700
	P09	RGBW-4300	RED 0-100%	fred	GREEN 0-100%	fgreen	BLUE 0-100%	fblue	4300 K (0-100%) f4300
	P12	RGBW-6500							6500 K (0-100%) f6500
	P14	RGBW-3500							3500 K (0-100%) f3500
P16	RGBW-3000							3000 K (0-100%) f3000	

Download the separate Araya DMX512-A Lookup Tables on the ERP website, for specific programming values and information.

For additional color and performance data, please refer to www.erp-power.com. Specifications may be subject to change without notice. Questions? Please contact support@erp-power.com.