

AWM1

AC INPUT TUNABLE COLOR LED LIGHT ENGINES



AWM1 (12 mm LES)



AWM1 (19 mm LES)

Introducing AWM1 Tunable Color LED Light Engines with AC Input: Redefining lighting possibilities with direct AC line voltage connectivity!

This innovative light engine ushers in a new era of dynamic illumination with radical simplicity. Offering tunable CCT from 1800 K to 6500 K, individual RGBW control, and a dimming range from 100% down to 1%—while maintaining high-quality color rendering (90+ CRI)—AWM1 ensures a tailored lighting experience with the ability to create captivating lighting scenes through RGBW customization.

Featuring on-board DMX512-A-RDM, AWM1 light engines have the capability to upgrade firmware over the wire via RDM.

ELECTRICAL SPECIFICATIONS AND PHOTOMETRIC INFORMATION

Nominal Input	120 & 277 VAC / 60 Hz
Control Options	DMX512-A-RDM (with over-the-wire FW upgrade capability)
CRI (Ra / R9)	> 90* / > 70*
Dimming Range	100% to 1%, at constant CCT
Nominal Color Consistency	Norm. < 2 Step MacAdam ellipse
CCT Range	1800–6500 K
Case Diameter	50 mm (1.97 in.)
Case Height	18.5 mm (0.73 in.)
Light Emitting Surface (LES) Diameter	12 mm, 19 mm
Light Output	1200 lm, 1500 lm

OPERATIONAL SPECIFICATIONS

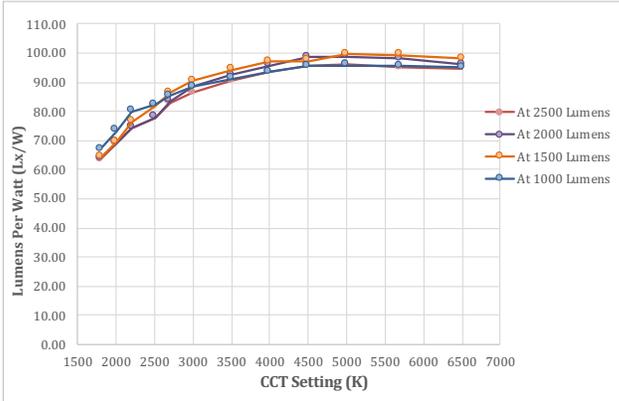
CONTROL SYSTEM / PROTOCOL	DIMMING	CCT	WARM DIM	RGBW
DMX512-A-RDM	100–1%	TUNABLE 1800–6500 K	2850–1800 K (Incandescent) 3050–1800 K (Halogen)	√

All information is preliminary. Specifications may be subject to change without notice. Questions? Please contact support@erp-power.com.

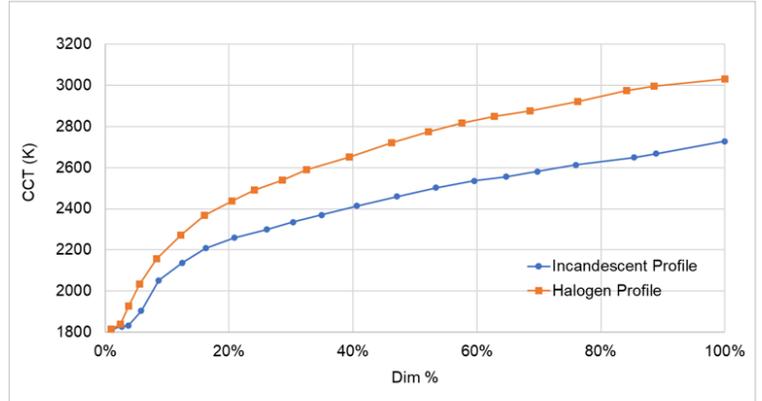
THE AWM1 DATA TELLS THE STORY

LIGHT OUTPUT AND COLOR QUALITY

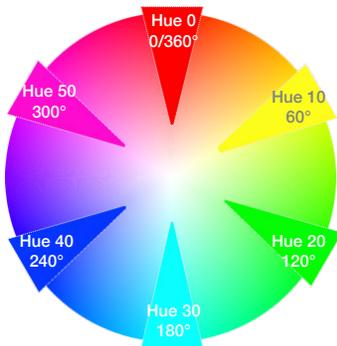
TYPICAL LUMENS PER WATT ON EACH CCT SETTING



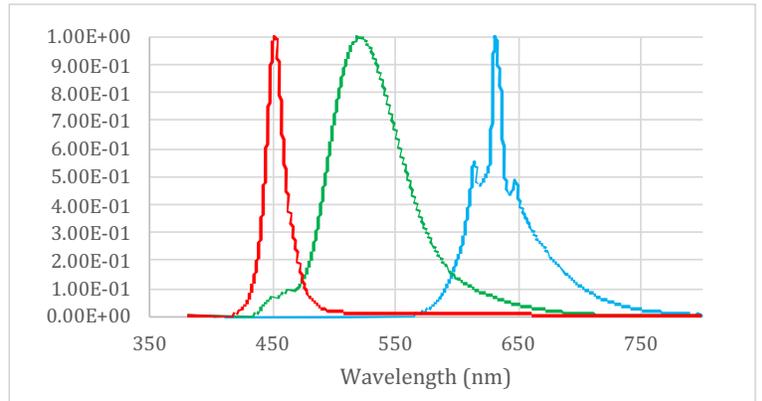
WARM DIM PROFILES



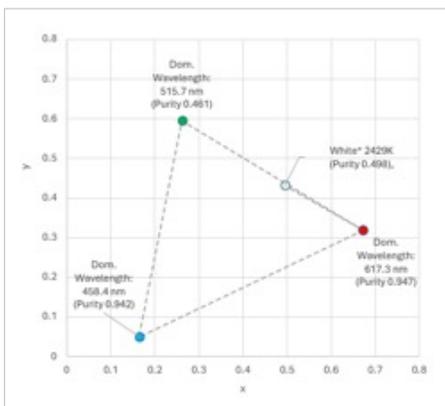
RGB COLOR WHEEL & CORRESPONDING HUE DEGREES



SPD AND DOMINANT WAVELENGTHS OF EACH RGB CHANNEL



CIE



	L_dominant (nm)	Excitation Purity (%)*
RED	617.3	95
GRN	515.7	46
BLU	485.4	94

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