



**AMBIENT
TECH**

ZeroDrive

P/N:DT-24V-90W-N

**0-10V Constant Voltage LED Driver for
Dimming, Tunable White & Dim-to-Warm Applications**



The ZeroDrive is compatible with any standard 0-10V wall switch or system eliminating extra components and compatibility issues. This LED Driver line provides smooth, flicker-free dimming and ultra flexibility. It dims down to 0.1% before total darkness, and softly tunes the color temperature to ensure a quality user experience. This UL listed Class 2 Driver line offers an integrated junction box with a separate input and output wiring compartment each with 7/8" knockout for easy and safe installation.

2CH 0-10V

Class 2

24VDC



ENCLOSURE DETAILS

Dimensions	8.4"(213mm) x 4.1"(104mm) x 1.5"(38mm)
Material	Sheet Metal
Finish	Matt Powder Coat
Environmental	Dry and Damp Location



Features & Benefits

- Compatible with any 0-10V Wall Switch / System
- 3 in 1 Dimming - Dimming , Dim-to-Warm & Tunable White
- Multi-Curve for Each Mode
- Eliminating the Need for an Extra Controller Module
- Compliant to IEEE and Title 24 Flicker Requirements
- Superior Dimming - Flicker Free to 0.1%
- UL Listed Class 2
- Wiring Compartments With Knock-Outs for Safe and Easy Installation
- Can be Loaded up to Max Wattage
- No Minimum Load Requirement
- Fast Delivery – Shipping out of NY



Electrical Specifications

Output	Max Power	90W
	Rated Current	3.75A
	Rated Voltage	24VDC
	No Load Voltage (No Load)	25.2VDC
	Voltage Ripple & Noise (Max)	300mV (Vp-p)
Input	Input Voltage	120-277VAC
	Input Frequency	60Hz
	Power Factor	PF>0.96
	Efficiency (Max Load)	89%
Protection	Over Current	CC Mode
	Short Circuit	Hiccup mode,auto-recovery after short circuit removed
	Over Temperature	90°C Max - Auto Recovery
Environmental	Ambient Operating Temp	-30 °C - + 40°C / -86°F - + 104°F
	IP Rating	23

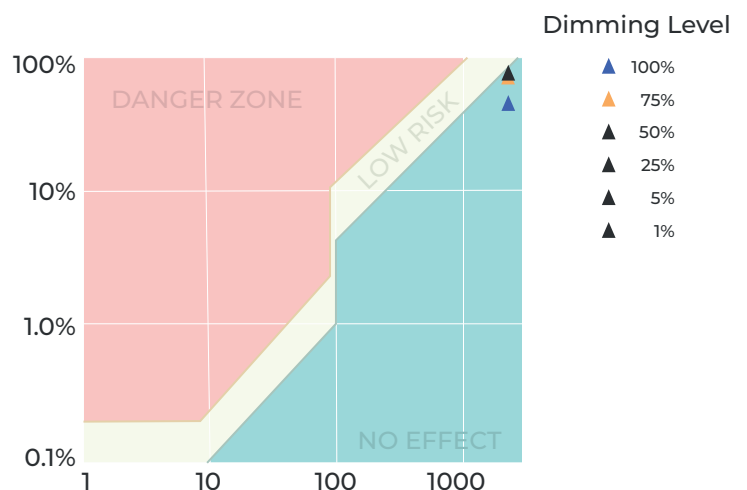
Dimming Performance

Control Protocol	0-10V
Control Channels	2
Dimming Range	100% -0.1%
Dim to Off	Yes
Dimming Method	PWM (2400Hz)
Dimming Curve	Logarithmic (Default)

Flicker Performance Graph

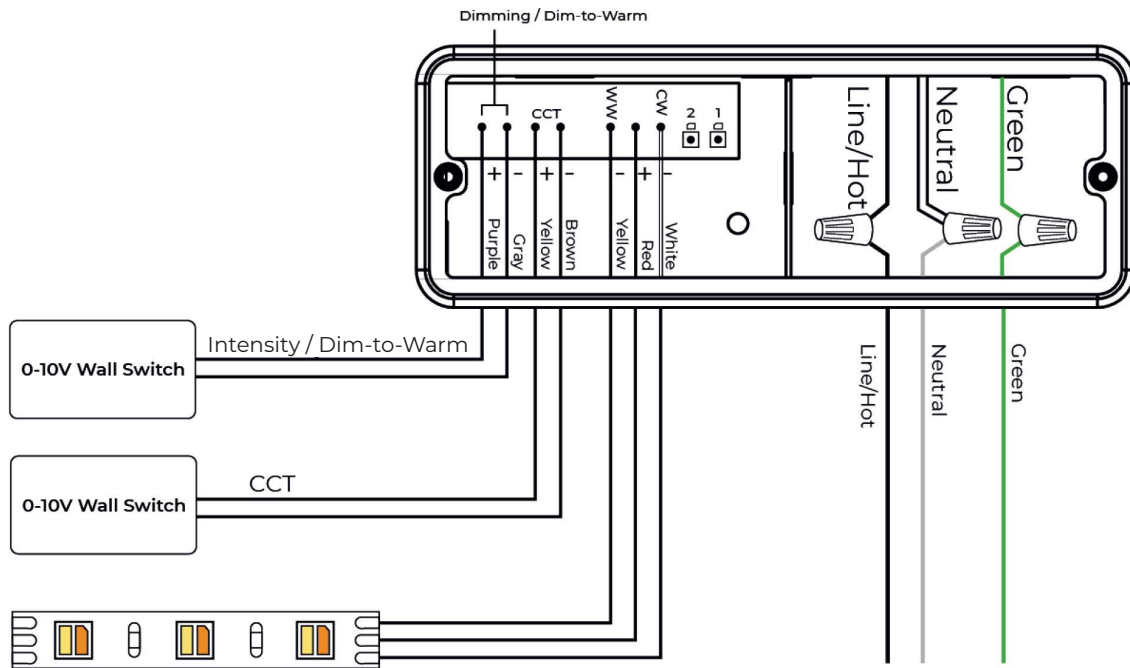
As defined in IEEE P1789, the results are presented with the low-risk in yellow and no observable effect in green.

Compliant to Title 24 Flicker Requirements.





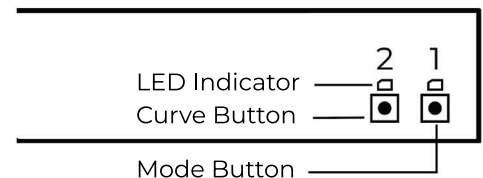
Wiring Overview



Dimming Modes

MODE	LED(1)
RED	Tunable White
ORANGE	Dim to Warm
GREEN	Only Dimming

CURVE	LED(2)
Ax	Red
Bx	Orange
Cx	Green



* Press Button to Rotate Curve/Mode

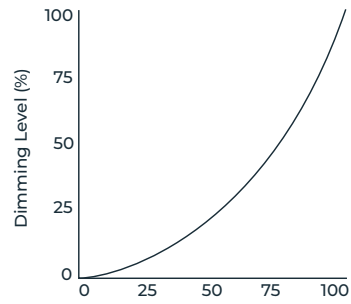
Dimmer Compatibility

Manufacturer	Product Line	Part Number
Lutron	Diva	DVTV
	Diva	DVSTV
	Diva	DVSCTV
	Diva	DVSCSTV
	Nova	NTSTV-DV
Leviton	IllumaTec	IP710-LFZ
Legrand	radiant	RH4FBL3PTC
		RH4FBL3PW
AmbienTech	ZeroTone	ZEROX2-NSW-SA

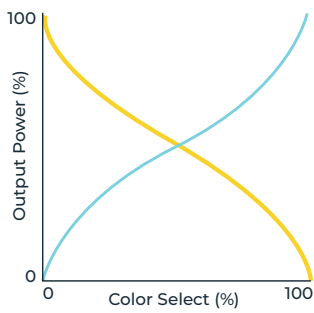


Performance Curves

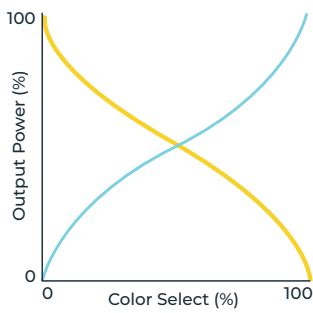
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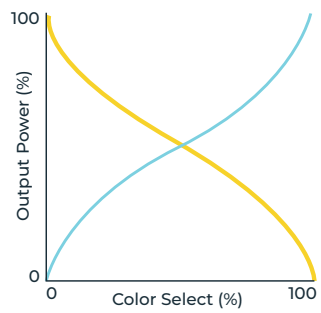
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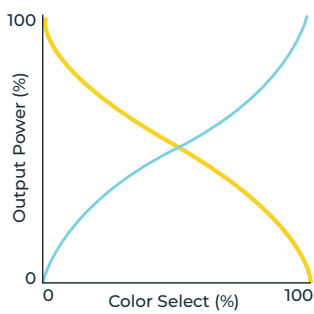
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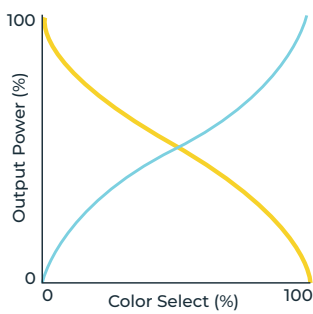
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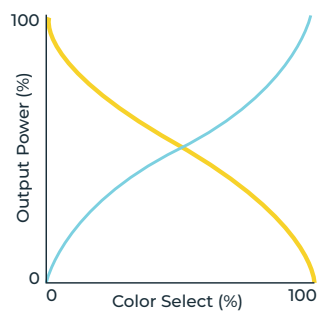
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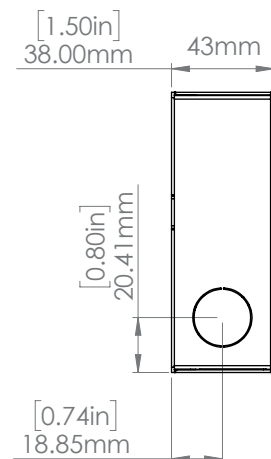
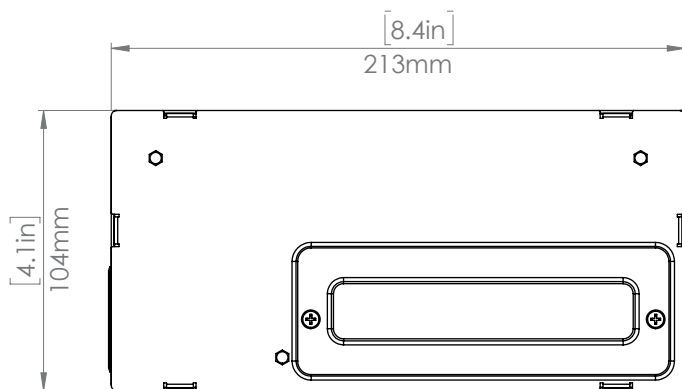
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C(dtw)



Mechanical Specifications





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