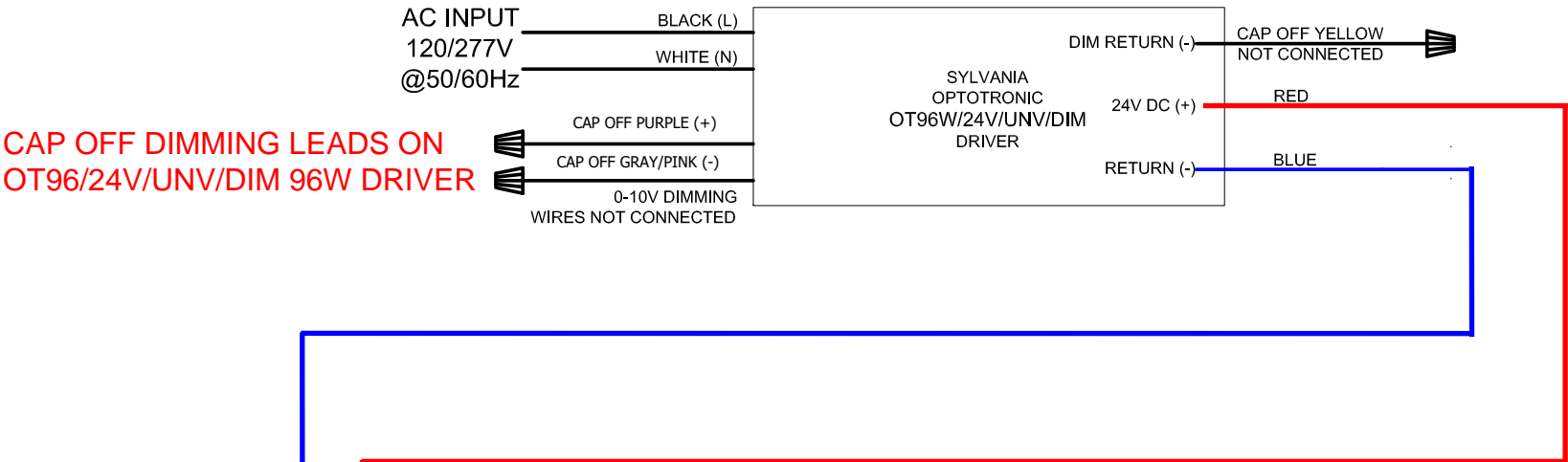




eldoLED OPTOTRONIC  
OT 96W DRIVER (51520)

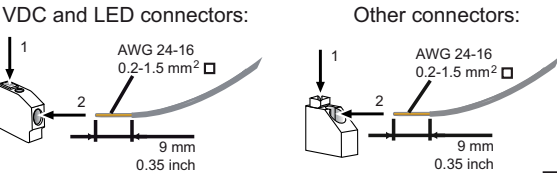


DIM FROM THE  
eldoLED LIN211D1  
INTERFACE.  
TWO SETS OF 0-10V  
TERMINALS  
ARE PROVIDED FOR  
EASE OF IN-and-OUT  
WIRING

Not connected AUX VDC +  
Not connected Ext in +  
Not connected Ext in -

0-10V +  
0-10V -  
0-10V +  
0-10V -

eldoLED LinearDRIVE  
LIN211D1



DIMMED 24V  
OUTPUTS.  
TO FIXTURES

Maximum wiring distance\*

	Load per driver		
	≤48W	≤72W	≤96W
Wire gauge	#18AWG	37'	25'
	#16AWG	59'	39'
	#14AWG	95'	63'
	#12AWG	151'	101'
	#10AWG	241'	160'

\* Voltage drop guide for 24VDC. Actual Voltage drop to be calculated by installer.



Item Number	*2743UN (51520) ←
Type	Constant Voltage
Output Power	96W (Max.)
Output Voltage	24V DC
Input	Universal (120-277V)

Find (NAED) as cross reference for new item number i.e. \*12345

### Environmental Specifications

Ambient Operating Temperature	-25 to 40 °C
Max. Case Temperature (Tc)	75°C
Storage Temp.	-25 to 50 °C
Max. Relative Humidity (%)	96% non-condensing
Surge Protection (KV)	ANSI C62.41 Cat A (2.5KV)
Vibration Rating	3G
Overvoltage Protection	Yes
Short Circuit Protection	Yes
Over-temperature Protection	Yes
UL Environmental Rating	Wet
UL File Number	E333135
IP Rating	IP64
EMI Compliance	FCC Part 15 Class A

### Electrical Specifications

#### Input

Input Voltage (VAC)	120V-277V (+/- 10%)
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)
Input Current (A)	0.91 @ 120V 0.39 @ 277V
Input Power (W)	111W
THD	< 20%
Power Factor	> 0.95
Inrush Current (Apk)	< 55A
Line Regulation	< 5%
Stand-by Power (W)	< 1.5W

#### Output

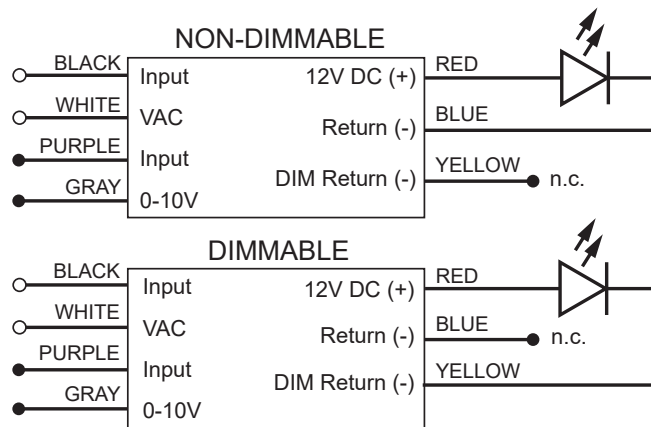
Output Voltage (VDC)	12V (+/- 5%)
Output Current (A)	0.1 – 4.0A
Output Ripple (V)	1V
Efficiency	>85% (Typical)
Load Regulation	<5%

#### Dimming

Dimming Control	0 – 10V
Dimming Range	10 – 100%
Dimming Type	PWM
Frequency	250Hz
Dimming Input Isolation	2.5KV



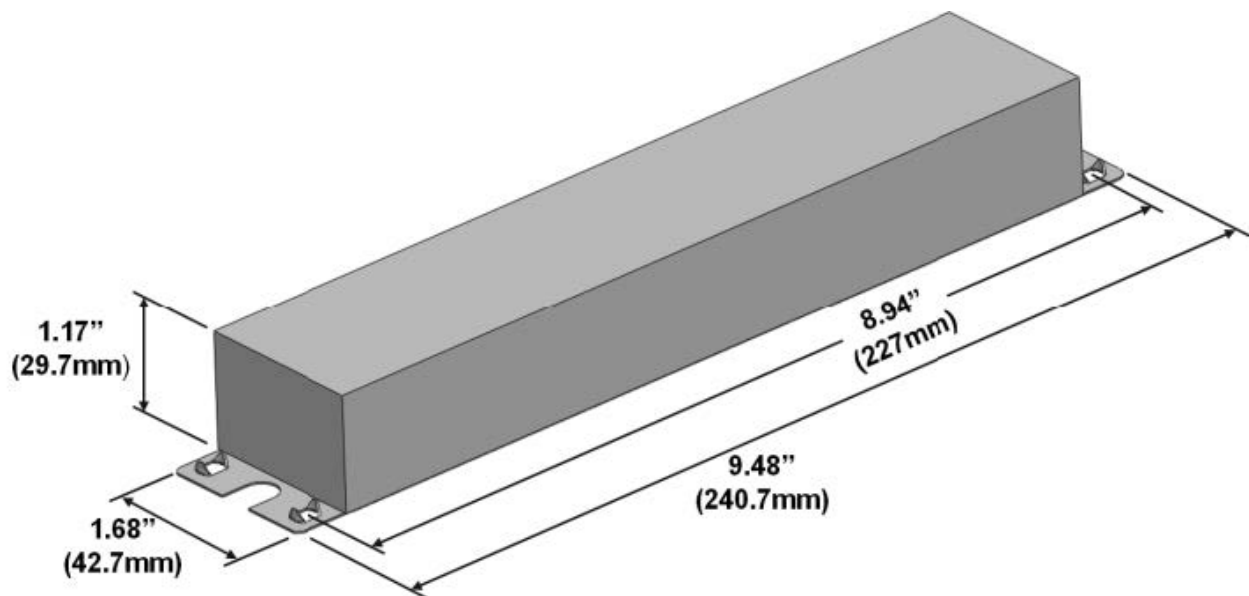
## Wiring Diagram



**Note:** Mounting distance for 18 AWG wire is 15 feet.

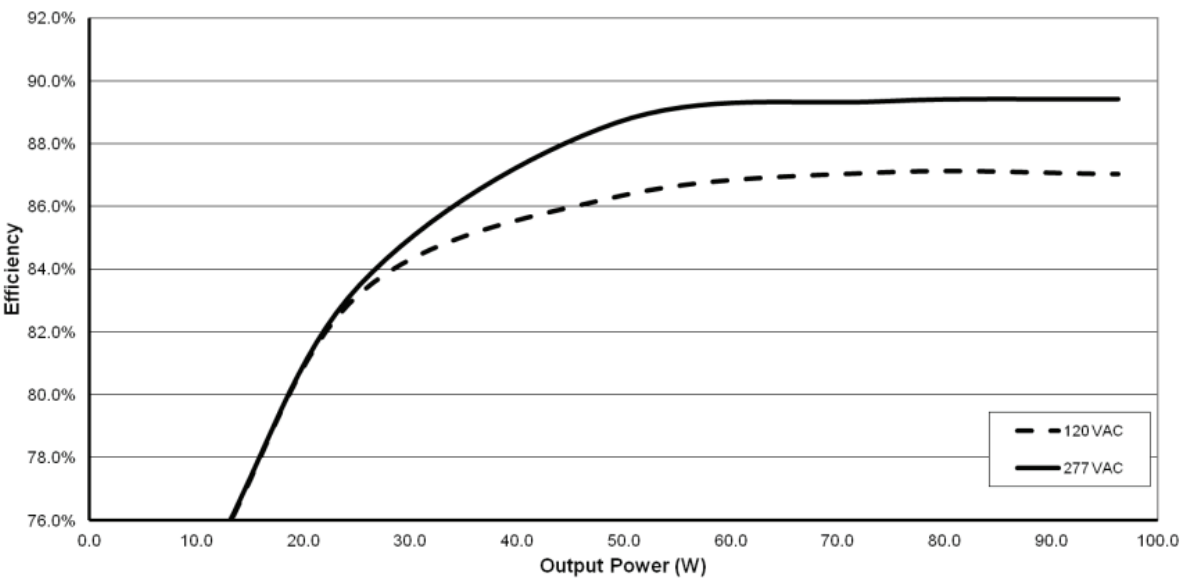
Wiring	Leads Only
Wire Gauge	18AWG
Input Wire	6" (black and white)
Output	6" (red, blue and yellow)
Dimming Input	6" (purple and gray)

## Mechanical Diagram

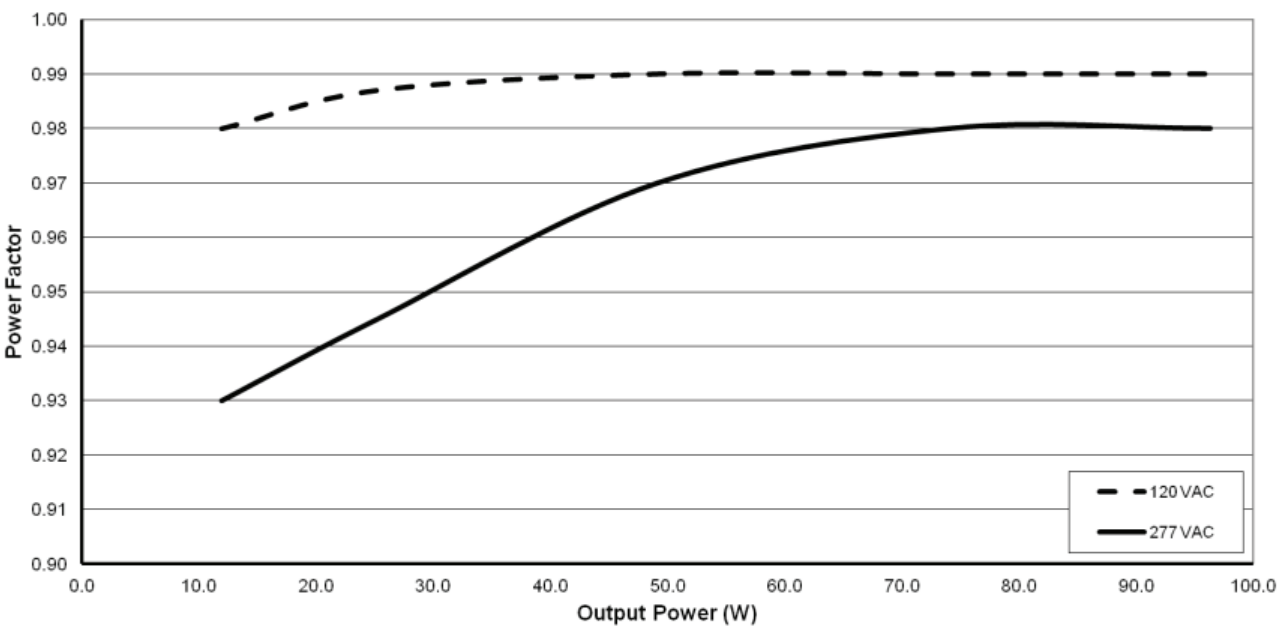


Length	9.48" (240.7mm)
Width	1.68" (42.7mm)
Height	1.17" (29.7mm)

Typical Efficiency

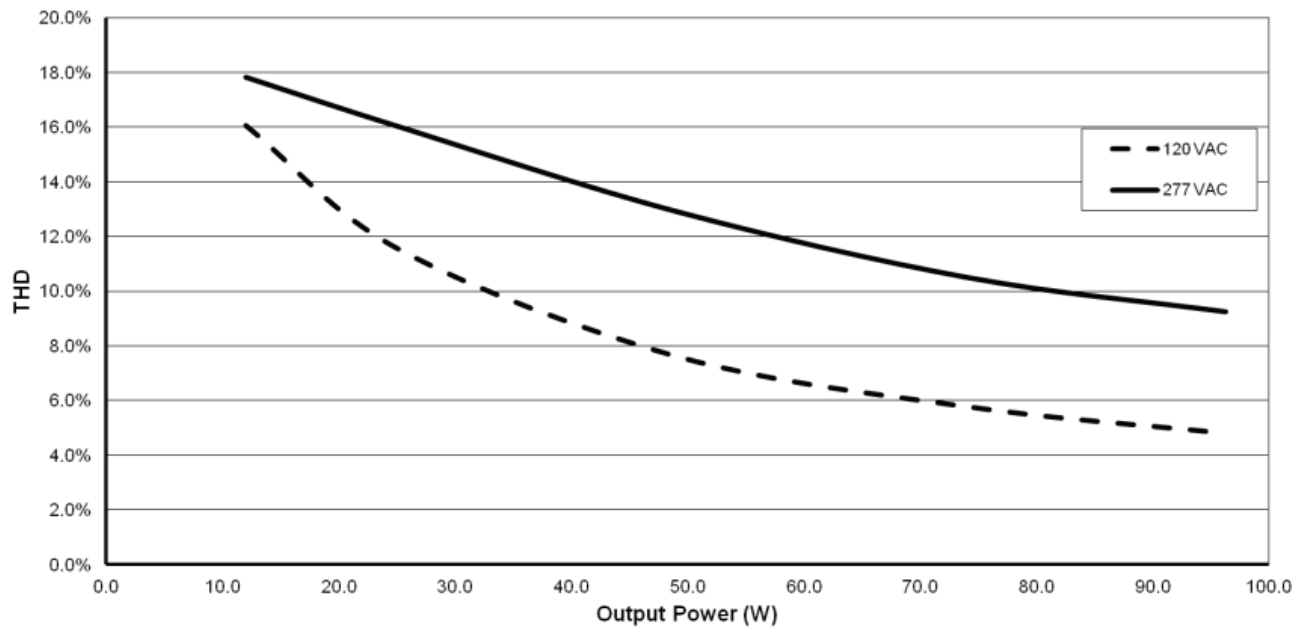


Typical Power Factor



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## Typical THD



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## Warranty

OPTOTRONIC® by eldoLED Products are covered by a 5-year limited warranty.  
Complete warranty terms can be found at: [www.eldoled.com/legal/terms-and-conditions](http://www.eldoled.com/legal/terms-and-conditions)

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Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

SS3010043-001-00



## 8A 0-10V Full-Colour Dimmable LED Driver

### LINEARdrive

LINEARdrive gives you all the control you need for your low-voltage LED application. This constant voltage LED driver is 0-10V compatible and enables you to create the perfect shade of white or show sequence without an external controller. Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

### Product offering



### LINEARdrive 211/D

Part number (P/N)	LIN211D1
Product description	LINEARdrive DC, 8A, 12-24VDC, 0-10V, 1 control channel, constant voltage, 2x LED outputs, plastic long

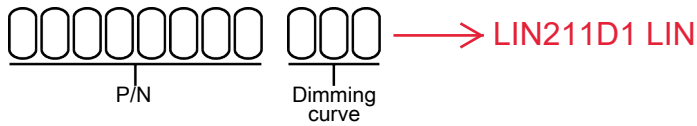
### Programming tools

Programming interface	TOOLbox pro (TLU20504)
Programming software	FluxTool

### Warranty

Warranty period	General Terms and Conditions
-----------------	------------------------------

## Order number configurator



P/N	LED driver part number.
Dimming curve	"LOG" for logarithmic (default) "LIN" for linear

## Input characteristics

Nominal input voltage DC	12 - 28V
Maximum input current	8A, irrespective of PSU voltage

## Output characteristics

LED output load	8A maximum, irrespective of whether using one or both LED outputs
Maximum LED output power	200W
Number of LED outputs	2
LED output voltage	12 - 28V
Auxiliary output voltage	equal to input voltage
Auxiliary output current	180mA @ 12V, 90mA @ 24V
Maximum auxiliary output power	2W
Circuit protection	To prevent excessive output current from damaging the LED driver, it is highly recommended to use circuit protection appropriate for your application's nominal and inrush current requirements in combination with an OVP, OVC short circuit protected AC/DC adapter.

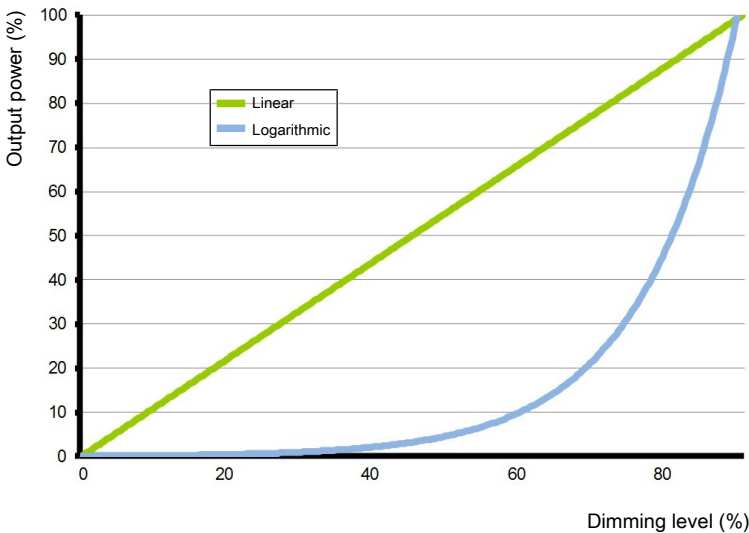
Control characteristics

Control channels	1
Control protocol	0-10V
Dimming range	100% - 0.1%
Dimming curve options	Logarithmic (default) Linear
Dimming method	HydraDrive
0-10V current draw	0.6mA typically, 2mA max

0-10V dimming chart



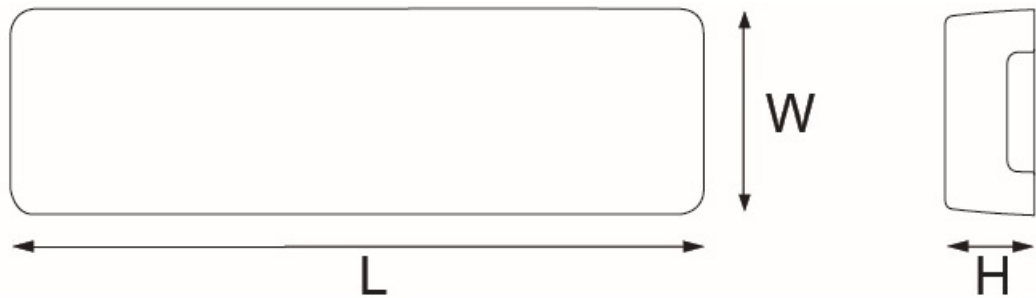
Dimming curves



Environmental conditions

Operating ambient temperature (Ta) range	-20 °C to +50 °C
Maximum operating case temperature (Tc max)	65 °C

LED driver mechanical details



Length (L)	typical: 153 mm / 6.02 in
Width (W)	typical: 50 mm / 1.97 in
Height (H)	typical: 23 mm / 0.91 in
Weight	120 g

Packaging

Products per box	12 pcs
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Connector layout



Wiring specifications

Wire core cross section	0.2 - 1.5 mm² AWG 24 – 16
Wire strip length	9.0 mm / 0.35 inch

## Standards and compliance

UL, recognized component	UL 1310 UL 8750 (Class 2 output)
ENEC safety	EN 61347-1 EN 61347-2-13 (Emergency lighting)
0-10V	IEC/EN 60929 annex E NOTE: From 0.6V to 10V eldoLED LED drivers comply with IEC/EN 60929 annex E. Below 0.6V eldoLED LED drivers comply with ABL 0-10V Design Spec v1.2 enabling standby mode. For detailed dimming characteristics see 0-10V response chart in Control Characteristics.
Restriction of hazardous substances	RoHS2

## Certifications



## Safety



Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.



The LED driver may only be connected and installed by a qualified electrician. All applicable regulations, legislation, and building codes must be observed. Incorrect installation of the LED driver can cause irreparable damage to the LED driver and the connected LEDs.

Pay attention when connecting the LEDs: polarity reversal results in no light output and often damages the LEDs.



LED drivers are designed and intended to operate LED loads only. Powering non-LED loads may push the LED driver outside its specified design limits and is, therefore, not covered by any warranty.



eldoLED products are designed to meet the performance specifications as outlined at certain operating conditions in the data sheet. It is the responsibility of the fixture manufacturer to test and validate the design and operation of the system under expected and potential use cases, including faults.



Please observe voltage drop over long cable lengths. Longer cable lengths increase EMI susceptibility.



Product renderings and dimensional drawings are generic for the housing type. Product label, connector type and quantity may vary.

Europe, Rest of World

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