PROJECT:

- Constant Voltage output
- UL, cULus listed, Class2 unit, Type HL rated, FCC
- Universal AC input: 100-277VAC

TYPE:

- Built-in active power factor correction (PFC)
- ≤0.48W standby power consumption
- Up to 92% efficiency 10-100% load capacity
- Protected from Short Circuits, Overload and Overheat
- Logarithmic dimming curve
- DALI-2 dimming
- D4i features
- No PWM influence on colour index
- IP66 protection for dry, damp and wet locations
- NFC function
- Flicker-free, 4KHz stroboscopic exemption
- 0 to 100% dimming range, 0.1% LED start available
- Suitable for LED lighting
 Cooling by free air convection

Specifications

OUTPUT		INPUT							
DC Voltage		24V	Voltage Range		100-277VAC				
			Frequency Range	uency Range 47-63Hz					
Rated Current		4A	Power Factor (Typ.) @Full Load		≥0.98 @120VAC	≥0.96	≥0.96 @277VAC		
Rated Power		96W	THD (Typ.) @Full Load	≤10	% @120VAC ≤	0% @230VAC	≤15% @277VAC		
Voltage Tolerance	•		Efficiency (Typ.) @Full Load		90% @120VAC	91% @230	91% @230VAC/277VAC		
-		±0.5V	Inrush Current (Typ.)		A, 50%, 328µs 88A, 50%, 181µs @120VAC @230VAC		106A, 50%, 400µs @277VAC		
Voltage Regulation		±0.5%	Leakage Current		<0.5mA				
Load Regulation		±1%	Standby Power Consumption	0.26	6W @120VAC 0.3	38W @230VAC	0.48W @277VAC		
PROTECTION									
Short Circuit			Hiccup mode. After faulty condition is corrected, Driver recovers automatically						
Overload			@ <120%: Hiccup mode. After faulty condition is corrected, Driver recovers automatically						
Overheat @ 2		@ ≥5	55°C ±5°C / @ ≥131°F ±9°F: 50% Voltage Output @ ≥60°C ±5°C / @ ≥140°F ±9°F: 0% Voltage Output Once cooled down, Driver recovers automatically						
ENVIRONMENT									
Working Temperature -40°C ~ +70°C / -4				0°F ~ 158	158°F (See Derating Curve below)				
Working Humidity			20% ~ 95% Relative Humidity, Non-Condensing						
Storage Temperature & Humidity		-4	0°C ~ +80°C / -40°F ~ 176°F		10% ~ 95% Relative Humidity				
Temperature Coefficient			±0.03%/°C (0°C ~ 50°C) / ±0.054%/°F (32°F ~ 122°F)						
Vibrations 10 ~ 500Hz, 5G 12min. / 1 cycle, 72 min. period each. / Along X, Y and Z axis									
SAF	ETY & ELE	CTROMAGNETIC COM		OTHERS					
			.2 No.250.13 (US) & EN61347-2-13 (EU						
		Frame Ground: Output to Frame Ground: Net Weight		1.02	02Kg				
Isolation Resistance Inp									
EMC Emission EN	N55015, EN	16100-3-2, EN61000-3-	-3 ≥50% load & FCC Part 15, Subpart	В	Dimensions (L x W x H)	205.4 x 113 x 42.7mm	8.08 x 4.45 x 1.68in		
EMC Immunity	EN61000-4-2,3,4,5,6,11 & EN61547								

(i) Unless mentioned otherwise, all specifications are measured at 120VAC input, rated load and 25°C (77°F) ambient temperature. Reduce input voltage load to extend the driver's life.



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LAST UPDATE 3/12/2024

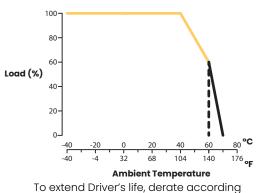
1/7

QTY:

PROJECT:

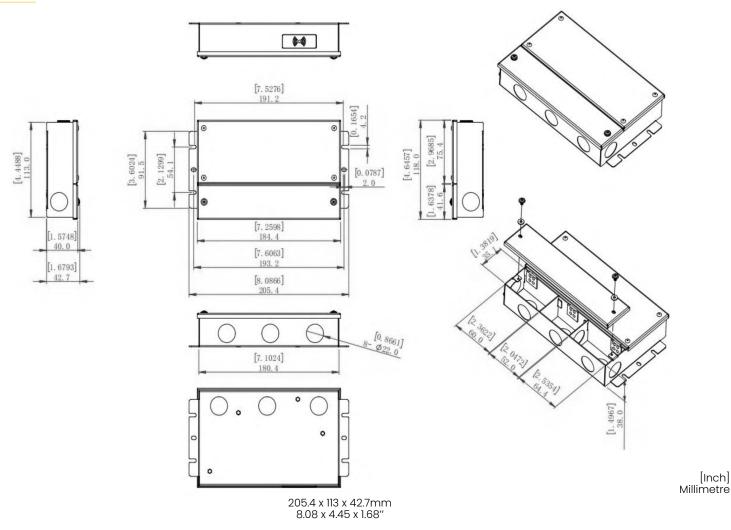
TYPE:

Derating Curve



to the ambient temperature.

Dimensions





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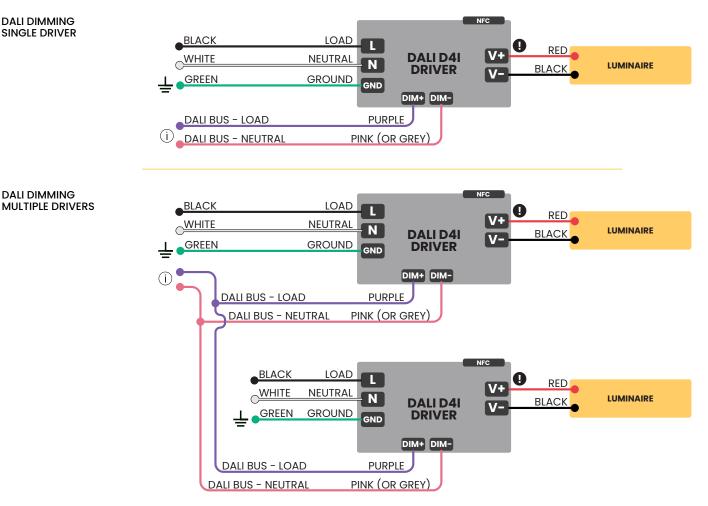
PROJECT:

TYPE:

QTY:

Connection Diagrams

- 1. This Driver should be installed by a qualified professional.
- 2. Make sure the Driver is installed with adequate ventilation to allow heat dissipation.
- 3. Make sure the wiring is correct before testing to avoid damage to Luminaire and Power Supply.
- 4. DO NOT ATTEMPT TO REPAIR THE DRIVER.



Lumen Warm recommends **NOT TO EXCEED 80%** of the Driver's load capacity for longer durability.

(i) Lumen Warm recommends matching wire colours to corresponding LED terminals to prevent programming issues.

 $({\sf i})$ Only one DALI power is needed into the DALI bus. No extra DALI power is needed if Master or Dimmer already provides power to DALI bus.



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PRODUCT NUMBER:

LW-D4I-100~277VAC-24V-96W-1C-IP66-JBX

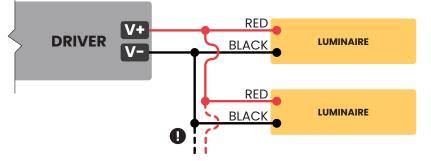
PROJECT:	TYPE:	QTY:

Multiple Luminaires Wiring Methods





IN PARALLEL, PARALLEL STANDARD METHOD



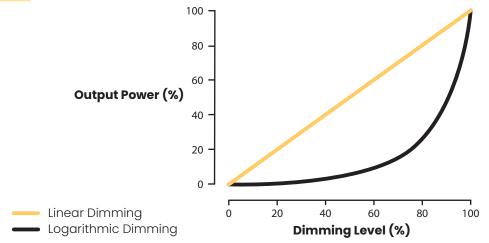
(i) Both connection methods can be combined if applicable.

(i) This is a simplified diagram. Use for reference only.

Lumen Warm recommends **NOT TO EXCEED 80%** of the Driver's load capacity for longer durability.

(i) Lumen Warm recommends matching wire colours to corresponding LED terminals to prevent programming issues.

Dimming Curves





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PROJECT:

TYPE:

Output Voltage Setup

- When installing a Driver remotely, a voltage drop may occur due to the wire length between the Luminaire and the Driver.
- VOLTAGE LEVEL AT LUMINAIRE'S ENTRY MÜST NOT EXCEED 24V, OR LUMINAIRE MÄY GET PREMATURELY DAMAGED.
- Check Voltage Level at the end of output wiring just before the Luminaire. Ensure it reads 24V.

SETUP INSTRUCTIONS WITH NFC DEVICE

- Driver's voltage output can be read and adjusted by using the ProNFC app or a NFC handheld device by holding it close to the Driver's NFC tag.
- Voltage range is divided in 10 levels. Each level is 0.2V. Default voltage output is Level 1.

OUTPUT VOLTAGE LEVELS										
Rated Voltage	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
24V	24V	24.22V	24.44V	24.66V	24.88V	25.10V	25.32V	25.54V	25.66V	26V

Driver Address Setup

- Driver's default DALI Address is set to 255.
- Address can be changed with any of these devices:





NFC device:

Use a NFC handheld device or hold handheld device close to driver's NFC device.

• **ProNFC app on smartphone**: Hold smartphone close to driver's NFC tag.



LAST UPDATE 3/12/2024

QTY:

ROJECT:		TYPE:	QTY:
river Address Setup (Cont.)			
SETUP INSTRUCTIONS WITH ProNFC APP			
Install the ProNFC app using the	e QR codes below.	2 Keep the phone away from Dri	Ver. Select Read and Write.
Hold the phone close to Driver	s NFC tag.	Set parameters as desired.	
Person Person	READING SUCCESS	B Set Addr B Set Volta B Set Volta Setup) C Set Voltage Set C Set Voltage Set	Address (Channel) ess increment (for multiple age Level (Refer to Output tup) ting parameters, select Write A
Hold the phone close to Driver	s NFC tag.		





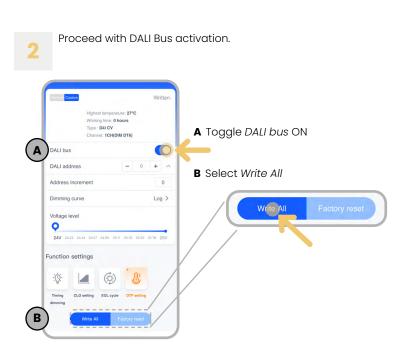
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PROJECT:

D4i Features Activation

SETUP INSTRUCTIONS WITH ProNFC APP





QTY:

TYPE:

2

Hold the phone close to Driver's NFC tag again.





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