LO-PRO® Panel Junction Box

Designed to simplify complex lighting systems, this multi-driver panel box securely houses drivers, controllers, and other essential components.
Ensures safety, easy installation, and reliable performance for various applications.

Date

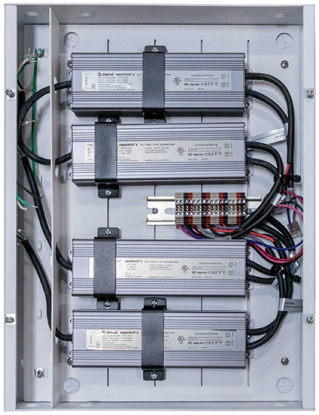
Project Notes

IP20

TITLE 24

FEATURES

- Assembled & engineered in the USA
- Fits high-performing drivers and control systems
- Surface or recessed mounting options between studs
- Linkable panels for larger capacity
- UL Listed
- 5 Year Warranty



ORDERING CODES

Order spools, and components for field assembly

	Model	Series	Mounting	Driver
LCI				
	JBOX	PANEL	S (Surface Mount) R (Recessed Mount)	Each box is custom configured for your application & will have a customized code from this point.

OPTIONAL ORDERING CODES

Add Driver

LO-PRO® PANEL JUNCTION BOX - SPECIFICATION TABLE

Models	JBOX-PANEL-S	JBOX-PANEL-R
Input Voltage / Frequency	Driver dependent	Driver dependent
Maximum Load	12V, 60Wx4 24V, 96Wx4	12V, 60Wx4 24V, 96Wx4
Panel Dimensions	18.62 × 14 × 2.82 in. (L x W x H)	18.62 × 14 × 2.82 in. (L x W x H)
Cover Dimensions	18.62 × 14 × 2.82 in. (L x W x H)	19.62 × 15 × 2.82 in. (L x W x H)
Environment	Indoor/Dry (IP20)	Indoor/Dry (IP20)
IC Rating	Yes	Yes
NEMA 1 Enclosure	Yes	Yes
Knockouts	1/2 in. - 3/4 in.	1/2 in. - 3/4 in.
Certification	UL 2108 and 1598	UL 2108 and 1598
Warranty	5 Years	5 Years

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RECOMMENDED DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
OMNIDRIVE® Electronic Dimmable Driver **Our classic electronic dimmable (ELV) driver. Superior dimming and wide compatibility with popular dimmers.**									
DI-TD-12V-10W	90~135VAC at ~50/60Hz	12V	10W	Load at least 60% labeled load	Yes	Yes	5.7 in.	2.1 in.	0.75 in.
DI-TD-24V-10W	90~135VAC at ~50/60Hz	24V	10W	Load at least 60% labeled load	Yes	Yes	5.7 in.	2.1 in.	0.75 in.
DI-TD-12V-20W	90~135VAC at ~50/60Hz	12V	20W	Load at least 60% labeled load	Yes	Yes	5.7 in.	2.1 in.	0.75 in.
DI-TD-24V-20W	90~135VAC at ~50/60Hz	24V	20W	Load at least 60% labeled load	Yes	Yes	5.7 in.	2.1 in.	0.75 in.
DI-TD-12V-30W	90~135VAC at ~50/60Hz	12V	30W	Load at least 60% labeled load	Yes	Yes	7 in.	2.3 in.	1.35 in.
DI-TD-24V-30W	90~135VAC at ~50/60Hz	24V	30W	Load at least 60% labeled load	Yes	Yes	7 in.	2.3 in.	1.35 in.
DI-TD-12V-45W	90~135VAC at ~50/60Hz	12V	45W	Load at least 60% labeled load	Yes	Yes	7 in.	2.3 in.	1.35 in.
DI-TD-24V-45W	90~135VAC at ~50/60Hz	24V	45W	Load at least 60% labeled load	Yes	Yes	7 in.	2.3 in.	1.35 in.
DI-TD-12V-60W	90~135VAC at ~50/60Hz	12V	60W	Load at least 60% labeled load	Yes	Yes	7.9 in.	2.7 in.	1.8 in.
DI-TD-24V-60W	90 ~ 135VAC 50/60Hz	24V	60W	Load at least 60% labeled load	Yes	Yes. Not compatible with PWM controls.	7.9 in.	2.7 in.	1.8 in.
DI-TD-12V-80W	90~135VAC at ~50/60Hz	12V	80W	Load at least 60% labeled load	Yes	Yes	7.9 in.	2.7 in.	1.8 in.
DI-TD-24V-80W	90 ~ 135VAC 50/60Hz	24V	80W	Load at least 60% labeled load	Yes	Yes. Not compatible with PWM controls.	7.9 in.	2.7 in.	1.8 in.
DI-TD-24V-96W	90 ~ 135VAC 50/60Hz	24V	96W	Load at least 60% labeled load	Yes	Yes. Not compatible with PWM controls.	7.9 in.	2.7 in.	1.8 in.
OMNIDRIVE® X Dimmable Driver **Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems.**									
DI-ODX-12V30W	120-277V	12V	30W	No Minimum Load	Yes	Yes	6.1 in.	2.1 in.	0.8 in.
DI-ODX-24V30W	120-277V	24V	30W	No Minimum Load	Yes	Yes	6.1 in.	2.1 in.	0.8 in.
DI-ODX-12V60W	120-277V	12V	60W	No Minimum Load	Yes	Yes	7 in.	2.4 in.	1 in.
DI-ODX-24V60W	120-277V	24V	60W	No Minimum Load	Yes	Yes	7 in.	2.4 in.	1 in.
DI-ODX-24V96W	120-277V	24V	96W	No Minimum Load	Yes	Yes	9 in.	2.7 in.	1.7 in.

OMNIDRIVE® Electronic Dimmable Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/omnidrive-indoor-electronic-dimmable-driver-specification-sheet.pdf/
Contains
• Additional Models • Additional Features • Derating Curves • System Diagrams

OMNIDRIVE® X Dimmable Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/omnidrive-x-specification-sheet.pdf/
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TITLE 24

RECOMMENDED DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
VLM Series Constant Voltage Driver **Compact driver for on/off, PWM dimming, and color-changing applications.**									
VLM100W-12	120 / 277VAC 47 - 63Hz	12V	100W	No Minimum Load	Yes	PWM	5.38 in.	1 in.	0.77 in.
VLM100W-24	120 / 277VAC 47 - 63Hz	24V	100W	No Minimum Load	Yes	PWM	5.38 in.	1 in.	0.77 in.
VLM60W-12	120 / 277VAC 47 - 63Hz	12V	60W	No Minimum Load	Yes	PWM	5.1 in.	0.75 in.	0.77 in.
VLM60W-24	120 / 277VAC 47 - 63Hz	24V	60W	No Minimum Load	Yes	PWM	5.1 in.	0.75 in.	0.77 in.
0-10V Dimmable LED Driver **Driver for cost-effective dimming on 0-10V control systems.**									
DI-DM-MW12V40W-0-10V	0.6A@115VAC, 0.3A@230VAC, 0.25 A@277VAC	12V	40W	No Minimum Load	Yes	Yes, with any 0-10V dimmer or control.	5.9 in.	2.1 in.	1.4 in.
DI-DM-MW12V60W-0-10V	120 ~ 277VAC 50/60Hz	12V	60W	No Minimum Load	Yes	Yes, with any 0-10V dimmer or control.	5.9 in.	2.1 in.	1.4 in.
DI-DM-MW24V60W-0-10V	120 ~ 277VAC 50/60Hz	24V	60W	No Minimum Load	Yes	Yes, with any 0-10V dimmer or control.	5.9 in.	2.1 in.	1.4 in.
DI-DM-MW24V90W-0-10V	120 ~ 277VAC 50/60Hz	24V	90W	No Minimum Load	Yes	Yes, with any 0-10V dimmer or control.	6.8 in.	2.5 in.	1.5 in.
OMNIDRIVE® BASICS Electronic Dimmable Driver **Compact electronic dimmable (ELV) driver for everyday projects.**									
DI-ODBELV-12V60W	120V AC 50/60Hz, 0.5A	12V	60W	No Minimum Load	Yes	Yes	4.2 in.	1.75 in.	0.96 in.
DI-ODBELV-24V60W	120V AC 50/60Hz, 0.5A	24V	60W	No Minimum Load	Yes	Yes	4.2 in.	1.75 in.	0.96 in.
DI-ODBELV-24V96W	120V AC 50/60Hz, 0.83A	24V	96W	No mimimum load	Yes	Yes	4.37 in.	1.5 in.	2.19 in.

VLM Series Constant Voltage Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/VLM-Specification%20Sheet%20(Driver%20&%20J-Box).pdf/
Contains
• Additional Models • Derating Curves
• Additional Features • System Diagrams

0-10V Dimmable LED Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/DI-DM-0-10V-Specificaton%20Sheet.pdf/
Contains
• Additional Models • Derating Curves
• Additional Features • System Diagrams

OMNIDRIVE® BASICS Electronic Dimmable Driver Specification Sheet
https://www.diodeled.com/custom/download/productFile/filename/DI-ODBELV-Specification%20Sheet.pdf/
Contains
• Additional Models • Derating Curves
• Additional Features • System Diagrams

RECOMMENDED DECODERS

SKU	DESCRIPTION
DI-1810	DMX512 4-Channel Decoder with Digital Display controls LED RGB and RGBW lighting fixtures
DI-DMX-DEC-5	DMX512 5-Channel Decoder with RDM and Digital Display, controls LED TW, RGB, RGBW and RGBWW lighting fixtures
DI-DALI2-REC-5W	DALI DT8/DALI2 5-Channel Decoder for TW, RGB(W), RGBWW Controls
DI-DMX-DCO-24V96W-277	DMX Driver Decoder, 24V, 96W, 120-277VAC

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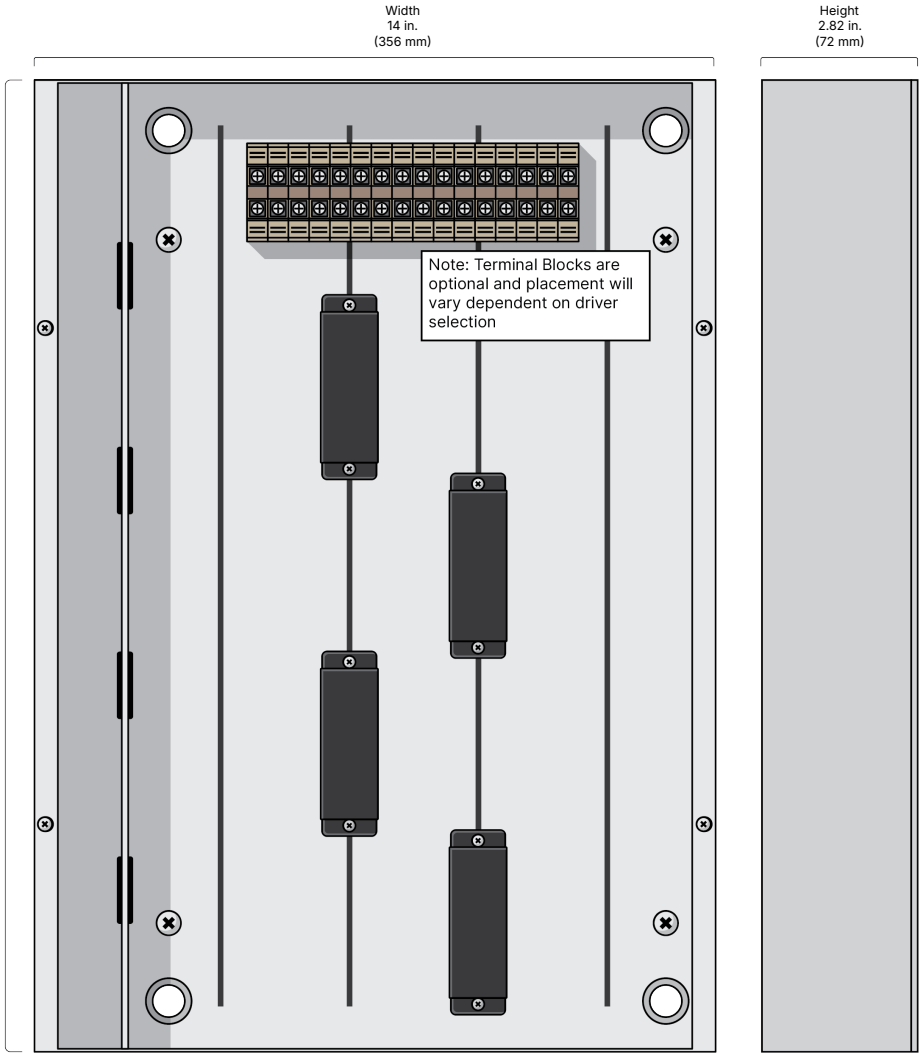
TITLE 24

MECHANICAL DIAGRAM - JUNCTION BOX

JBOX-PANEL-S

JBOX-PANEL-R

Note: Terminal Blocks are optional and placement will vary dependent on driver selection.



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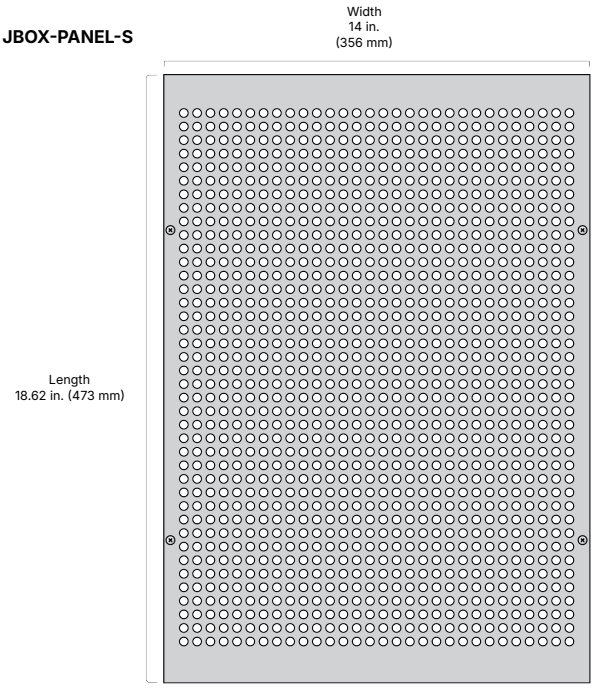
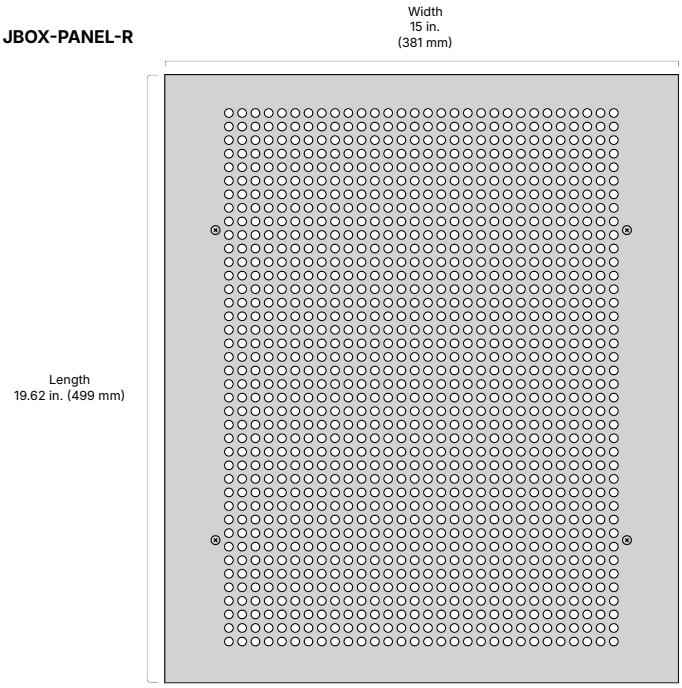
MECHANICAL DIAGRAMS - COVERS

JBOX-PANEL-S



JBOX-PANEL-R



- Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.
- Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
- Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment.

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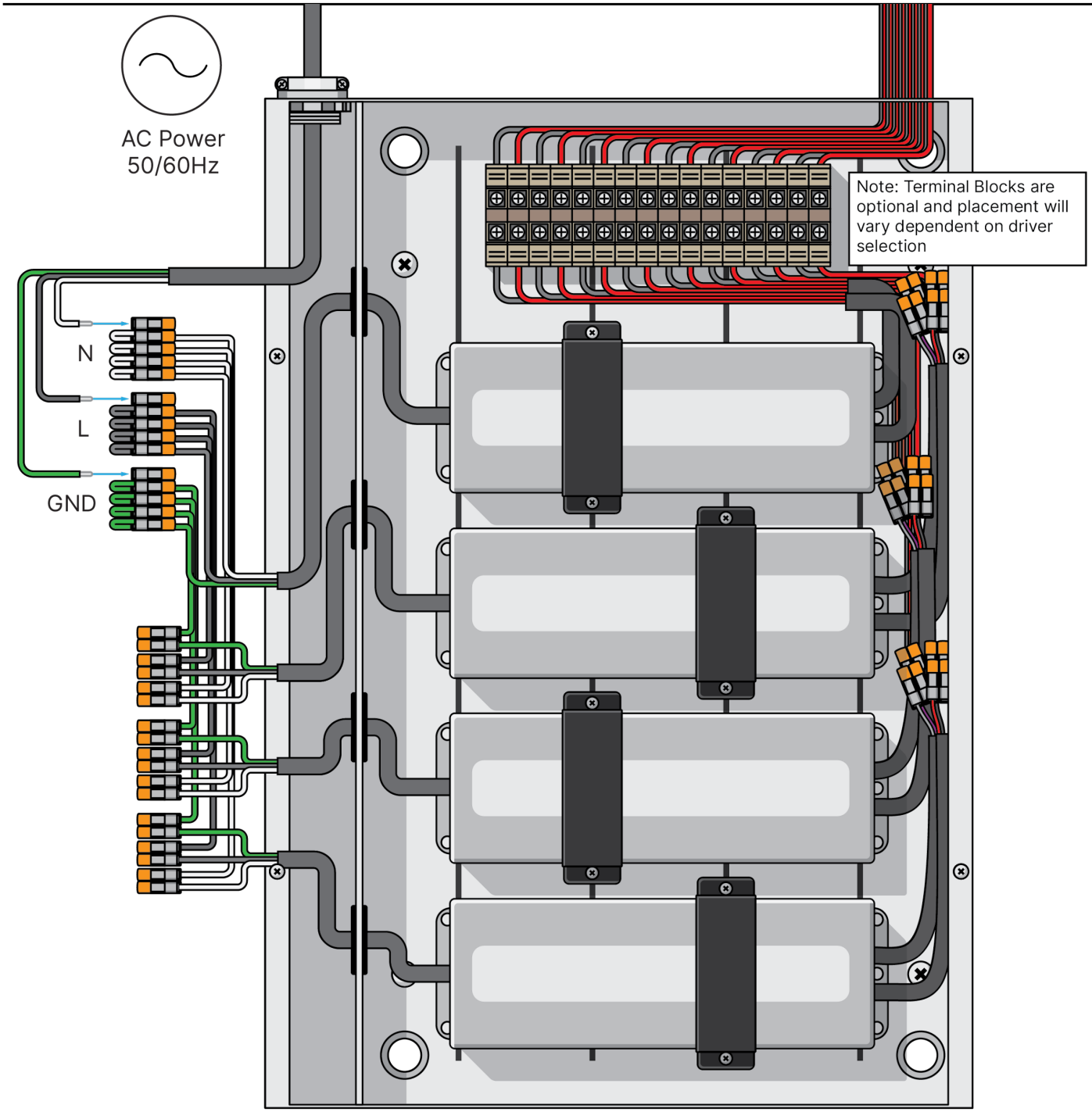
TITLE 24

SYSTEM DIAGRAMS

ELECTRONIC



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CERTIFICATIONS

Safety

- UL Listed 2108 Low Voltage Light Systems, Power Units. Certified for United States and Canada. File # E469769.
- UL Listed 1598 Luminaire Fittings. Certified for United States and Canada. File # E485321.
- NEMA1 Type Enclosure
- IC-Rated for contact with insulation in recessed applications

Environment

- Ambient Temperature -22 - 104°F (-30 - +90°C)
- Operating Temperature: -4 - 194°F (-20 - +40°C)
- IC-Rated for contact with insulation in recessed applications

Performance

- Can be used to comply with TITLE 24 Part 6 High Efficacy Lighting LED requirements - JA8-2016-2022-E

Safety / Warnings / Disclosures

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
4. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
5. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
6. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
7. Do not modify product beyond instructions or warranty will be void.
8. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
9. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty

- 5 Years limited warranty

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.