

### LINAIRE® Flex 3D Bend 24V Linear Light

Flexible architectural light that bends in all directions to fit any space. Water resistant with precision light quality and full diffusion for a dotless look.

Date \_\_\_\_\_

Project Notes \_\_\_\_\_



#### FEATURES

- Bends in both directions (top and side) for maximum versatility
- Flexible, durable fixture with no visible dots
- Water resistant for indoor and outdoor use
- 90+ CRI
- Factory assembly (IP67)
- Field cuttable, free-cut termination (IP65)



#### ORDERING CODES

Order spools, and components for field assembly

#### OPTIONAL ORDERING CODES

Add Assembly Preferences, Finish, Mounting, Driver, and Delivery

|    | Voltage           | Model | Series      | CCT                                                                               | Length                               | Wire Entry                                                                            | Channels                                                                                | Finish           | Mounting                                           | Driver                                                      | Delivery                                                       |                                                               |
|----|-------------------|-------|-------------|-----------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------|----------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| DI |                   |       |             |                                                                                   |                                      |                                                                                       |                                                                                         |                  |                                                    |                                                             |                                                                |                                                               |
|    | 24V<br>(24V Volt) | 3D    | LIN<br>LIN4 | 24<br>(2400K)<br>27<br>(2700K)<br>30<br>(3000K)<br>35<br>(3500K)<br>40<br>(4000K) | 016<br>(16 feet)<br>032<br>(32 feet) | STE<br>(Straight Wire Entry)<br>SDE<br>(Side Wire Entry)<br>BE<br>(Bottom Wire Entry) | MTCH<br>(LINAIRE Flex 3D Bend Channel)<br>SPINE<br>(LINAIRE Flex 3D Bend Spine Channel) | AL<br>(Aluminum) | MC<br>(Mounting Clip)<br>CHN<br>(Mounting Channel) | ELV<br>(Electronic)<br>SWX<br>(Switchex)<br>LUT<br>(Lutron) | 010<br>(0-10V)<br>MAG<br>(MLV)<br>PoE<br>(Power over Ethernet) | Factory + Field (Hybrid)<br>(IP65)<br>Factory Assembly (IP67) |

#### LINAIRE® Flex 3D Bend - SPECIFICATION TABLE

| Models         | 24V-3D-LIN                                                                                            | 24V-3D-LIN4                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Voltage</b> | <b>24VDC</b>                                                                                          | <b>24VDC</b>                                                                                          |
| <b>Wattage</b> | <b>3.2W/ft.</b>                                                                                       | <b>4.57W/ft.</b>                                                                                      |
| Lumens         | 2400K: 149 Lm/ft.<br>2700K: 153 Lm/ft.<br>3000K: 153 Lm/ft.<br>3500K: 168 Lm/ft.<br>4000K: 166 Lm/ft. | 2400K: 375 Lm/ft.<br>2700K: 390 Lm/ft.<br>3000K: 400 Lm/ft.<br>3500K: 405 Lm/ft.<br>4000K: 415 Lm/ft. |
| Cut Points     | Free Cut (cut anywhere)                                                                               | Free Cut (cut anywhere) in.                                                                           |
| Max Run (ft.)  | 32.8 ft.                                                                                              | 16.4 ft.                                                                                              |
| CRI            | 90+                                                                                                   | 90+                                                                                                   |
| Dimensions     | 0.79 × 0.79 in. (W × H)                                                                               | 0.79 × 0.79 in. (W × H)                                                                               |
| TM-21 (LM-80)  | >50,000 hours                                                                                         | >50,000 hours                                                                                         |
| Environment    | Outdoor / Wet Location (IP65 / IP67)                                                                  | Outdoor / Wet Location (IP65 / IP67)                                                                  |
| Lead Wire A    | 96 in. White Bare Lead 18/2 AWG UL 2464 Wire with Strain Relief                                       | 96 in. White Bare Lead 18/2 AWG UL 2464 Wire with Strain Relief                                       |
| Lead Wire B    | 96 in. White Bare Lead 18/2 AWG UL 2464 Wire with Strain Relief                                       | 96 in. White Bare Lead 18/2 AWG UL 2464 Wire with Strain Relief                                       |
| LED Chips      | 36/ft.                                                                                                | 36/ft.                                                                                                |
| Chip Type      | 2835                                                                                                  | 2835                                                                                                  |
| Certification  | UL Listed 2108                                                                                        | UL Listed 2108                                                                                        |
| Warranty       | 5 Year                                                                                                | 5 Year                                                                                                |

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### RECOMMENDED 24V DRIVERS

| SKU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INPUT VOLTAGE / FREQUENCY | OUTPUT VOLTAGE | MAXIMUM LOAD | MINIMUM LOAD    | CLASS 2 | DIMMABLE | LENGTH    | WIDTH    | HEIGHT   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|--------------|-----------------|---------|----------|-----------|----------|----------|
| <b>OMNIDRIVE® X Dimmable Driver</b> <span style="float: right;">OMNIDRIVE® X Dimmable Driver Specification Sheet</span><br><a href="https://www.dioledeled.com/custom/download/productFile/filename/omnidrive-x-specification-sheet.pdf">https://www.dioledeled.com/custom/download/productFile/filename/omnidrive-x-specification-sheet.pdf</a><br>Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems.                                           |                           |                |              |                 |         |          |           |          |          |
| Contains<br>• Additional Models • Derating Curves<br>• Additional Features • System Diagrams                                                                                                                                                                                                                                                                                                                                                                                       |                           |                |              |                 |         |          |           |          |          |
| DI-ODX-24V30W-J                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 120-277V                  | 24V            | 30W          | No Minimum Load | Yes     | Yes      | 6.5 in.   | 3.7 in.  | 1.57 in. |
| DI-ODX-24V60W-J                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 120-277V                  | 24V            | 60W          | No Minimum Load | Yes     | Yes      | 7.4 in.   | 3.7 in.  | 1.57 in. |
| DI-ODX-24V96W-J                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 120-277V                  | 24V            | 96W          | No Minimum Load | Yes     | Yes      | 8.66 in.  | 3.7 in.  | 1.57 in. |
| DI-ODX-24V120W-J                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 120-277V                  | 24V            | 120W         | No Minimum Load | No      | Yes      | 8.66 in.  | 3.7 in.  | 1.57 in. |
| <b>VLM Series Constant Voltage Driver</b> <span style="float: right;">VLM Series Constant Voltage Driver Specification Sheet</span><br><a href="https://www.dioledeled.com/custom/download/productFile/filename/VLM-Specification%20Sheet%20(Driver%20&amp;%20J-Box).pdf">https://www.dioledeled.com/custom/download/productFile/filename/VLM-Specification%20Sheet%20(Driver%20&amp;%20J-Box).pdf</a><br>Compact driver for on/off, PWM dimming, and color-changing applications. |                           |                |              |                 |         |          |           |          |          |
| Contains<br>• Additional Models • Derating Curves<br>• Additional Features • System Diagrams                                                                                                                                                                                                                                                                                                                                                                                       |                           |                |              |                 |         |          |           |          |          |
| VLM60W-24-LPS3R                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 120 / 277VAC<br>47 - 63Hz | 24V            | 60W          | No Minimum Load | Yes     | PWM      | 10.79 in. | 7.34 in. | 2.36 in. |
| VLM60W-24-LPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120 / 277VAC<br>47 - 63Hz | 24V            | 60W          | No Minimum Load | Yes     | PWM      | 8.19 in.  | 2.94 in. | 1.31 in. |
| VLM100W-24-LPS3R                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 120 / 277VAC<br>47 - 63Hz | 24V            | 100W         | No Minimum Load | Yes     | PWM      | 10.79 in. | 7.34 in. | 2.36 in. |
| <b>MAGNETIC DIMMABLE DRIVER</b> <span style="float: right;">MAGNETIC DIMMABLE DRIVER Specification Sheet</span><br><a href="https://www.dioledeled.com/custom/download/productFile/filename/DI-MLV-Specification%20Sheet.pdf">https://www.dioledeled.com/custom/download/productFile/filename/DI-MLV-Specification%20Sheet.pdf</a><br>All-purpose dimmable driver for everyday tape light projects.                                                                                |                           |                |              |                 |         |          |           |          |          |
| Contains<br>• Additional Models • Derating Curves<br>• Additional Features • System Diagrams                                                                                                                                                                                                                                                                                                                                                                                       |                           |                |              |                 |         |          |           |          |          |
| DI-MLV-24V60W                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120VAC                    | 24V            | 60W          | 12W             | Yes     | Yes      | 6.8 in.   | 3.1 in.  | 2.9 in.  |
| DI-MLV-24V96W                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120VAC                    | 24V            | 96W          | 20W             | Yes     | Yes      | 6.8 in.   | 3.1 in.  | 2.9 in.  |
| <b>PoE (Power over Ethernet)</b><br>Constant voltage platform, ready for Power over Ethernet (inquire)                                                                                                                                                                                                                                                                                                                                                                             |                           |                |              |                 |         |          |           |          |          |

### RECOMMENDED CONTROLLERS

| SKU                                                                                                                                          | DESCRIPTION                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>CASAMBI® Controllers</b><br>The CASAMBI controllers will remotely control your lighting through the app - downloadable for IOS & Android. |                                                                                                |
| CBU-PWM4                                                                                                                                     | CASAMBI PWM4 Single Color Dimming Controller                                                   |
| CBU-A2D                                                                                                                                      | CASAMBI A2D 2 Channel 0-10V/DALI Controller                                                    |
| CBU-ASR                                                                                                                                      | CASAMBI ASR 0-10V Controller                                                                   |
| DI-CBU-PWM5-PRO                                                                                                                              | Casambi CBU-PWM5-Pro RGB/W/WW Applications, 5 x PWM for constant voltage lights, 4 amps/CH max |
| <b>SWITCHEX® Driver and Dimmer Switch</b><br>LED driver and dimmer switch combined in a single gang box.                                     |                                                                                                |
| DI-24V-SE-60W                                                                                                                                | SWITCHEX 24V Switch/Driver Combo - 60W                                                         |
| DI-24V-SE-100W                                                                                                                               | SWITCHEX 24V Switch/Driver Combo - 100W                                                        |



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#### Linear Light

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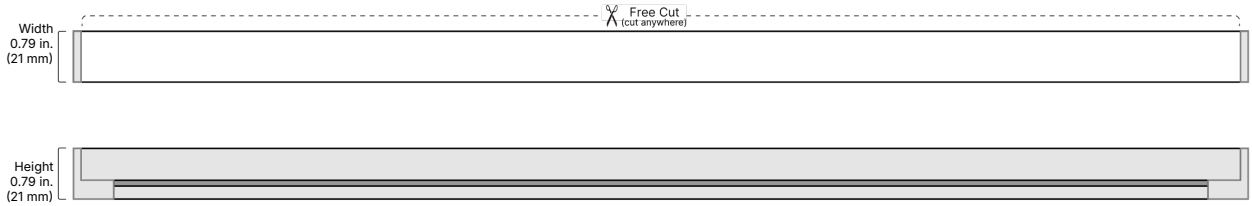
Project Notes \_\_\_\_\_



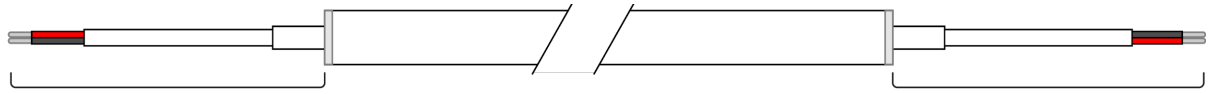
### MECHANICAL DIAGRAMS

24V-3D-LIN

24V-3D-LIN4



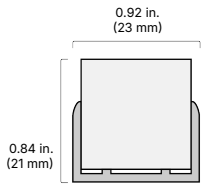
### CONNECTIONS



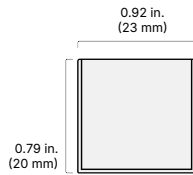
96 in. White Bare Lead 18/2 AWG UL 2464 Wire with Strain Relief

96 in. White Bare Lead 18/2 AWG UL 2464 Wire with Strain Relief

24V-3D-LIN in  
LINAIRE Flex 3D Bend Channel



24V-3D-LIN in  
LINAIRE Flex 3D Bend Spine Channel





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## CERTIFICATIONS

### Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750, UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
- UL Listed Field Cuttable.
- Approved for storage areas of clothes closets per NEC 410.16.A.1,3 and 410.16.C.1,3,5

### Environment

- IP65 - Field Connections and Terminations
- IP67 - Stock Spools and Factory Assembled Fixtures
- Ambient Temperature: -4 ~ 122°F (-20 ~ 50°C)
- Operating Temperature: -4 ~ 176°F (-20 ~ 80°C)

### Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

### 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. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
5. 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.
6. 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.
7. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
8. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
9. Do not modify product beyond instructions or warranty will be void.
10. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
11. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
12. 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 Year 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.dioleled.com/limited-warranty/](http://www.dioleled.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.